Open Source Used In Kenna Virtual Tunnel and Agent 2021.08

Cisco Systems, Inc.
www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Text Part Number: 78EE117C99-1192503803
This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please contact us at external-opensource-requests@cisco.com.

In your requests please include the following reference number 78EE117C99-1192503803

Contents

1.1 libutempter 1.1.6 14.el8
   1.1.1 Available under license
1.2 lmdb 0.9.24-1.el8
   1.2.1 Available under license
1.3 polkit 0.115-11.el8_4.1
   1.3.1 Available under license
1.4 biosdevname 0.7.3 2.el8
   1.4.1 Available under license
1.5 texinfo 6.5 6.el8
   1.5.1 Available under license
1.6 gawk 4.2.1-2.el8
   1.6.1 Available under license
1.7 jansson 2.11 3.el8
   1.7.1 Available under license
1.8 publicsuffix-list 20180723 1.el8
   1.8.1 Available under license
1.9 libsemanage 2.9-6.el8
   1.9.1 Available under license
1.10 idna 13.0.0
   1.10.1 Available under license
1.11 mesa 17.3.9
   1.11.1 Available under license
1.12 dracut 049-135.git20210121.el8
   1.12.1 Available under license
1.13 ansible 2.8.5
   1.13.1 Available under license
<table>
<thead>
<tr>
<th>Package</th>
<th>Version</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>docbook-dtds</td>
<td>1.0-69.el8</td>
<td>Available</td>
</tr>
<tr>
<td>kbd</td>
<td>2.0.4 10.el8</td>
<td>Available</td>
</tr>
<tr>
<td>nettle</td>
<td>3.4.1-4.el8_3</td>
<td>Available</td>
</tr>
<tr>
<td>libsigsegv</td>
<td>2.11 5.el8</td>
<td>Available</td>
</tr>
<tr>
<td>gdbm</td>
<td>1.18 1.el8</td>
<td>Available</td>
</tr>
<tr>
<td>dyninst</td>
<td>10.2.1-2.el8</td>
<td>Available</td>
</tr>
<tr>
<td>x-xerrors</td>
<td>v0.0.0-20191204190536-9bdfabe68543</td>
<td>Available</td>
</tr>
<tr>
<td>libidn</td>
<td>1.34-5.el8</td>
<td>Available</td>
</tr>
<tr>
<td>attr</td>
<td>2.4.48 3.el8</td>
<td>Available</td>
</tr>
<tr>
<td>symlinks</td>
<td>1.4 19.el8</td>
<td>Available</td>
</tr>
<tr>
<td>datadog-dd-trace-go</td>
<td>v1.19.0</td>
<td>Available</td>
</tr>
<tr>
<td>perl-http-tiny</td>
<td>0.074-1.el8</td>
<td>Available</td>
</tr>
<tr>
<td>bigdecimal</td>
<td>3.0.2</td>
<td>Available</td>
</tr>
<tr>
<td>libcomps</td>
<td>0.1.11-5.el8</td>
<td>Available</td>
</tr>
<tr>
<td>memstrack</td>
<td>0.1.11 1.el8</td>
<td>Available</td>
</tr>
<tr>
<td>firewalld</td>
<td>0.8.2-7.el8_4</td>
<td>Available</td>
</tr>
<tr>
<td>timedatex</td>
<td>0.5 3.el8</td>
<td>Available</td>
</tr>
<tr>
<td>strscan</td>
<td>1.0.0</td>
<td>Available</td>
</tr>
<tr>
<td>unbound</td>
<td>1.7.3-15.el8</td>
<td>Available</td>
</tr>
<tr>
<td>plymouth</td>
<td>0.9.4-9.20200615git1e36e30.el8</td>
<td>Available</td>
</tr>
</tbody>
</table>
1.33.1 Available under license
1.34 unzip 6.0-45.el8_4
   1.34.1 Available under license
1.35 diffstat 1.61-7.el8
   1.35.1 Available under license
1.36 slang 2.3.2 3.el8
   1.36.1 Available under license
1.37 perl-text-tabs-wrap 2013.0523 395.el8
   1.37.1 Available under license
1.38 python-slip 0.6.4 11.el8
   1.38.1 Available under license
1.39 perl-carp 1.42-396.el8
   1.39.1 Available under license
1.40 snowball-stemmer 0-10.585svn.el8
   1.40.1 Available under license
1.41 zlib 1.2.11
   1.41.1 Available under license
1.42 libmodman 2.0.1 17.el8
   1.42.1 Available under license
1.43 psutil 5.4.3-10.el8
   1.43.1 Available under license
1.44 shared-mime-info 1.9 3.el8
   1.44.1 Available under license
1.45 libksba 1.3.5 7.el8
   1.45.1 Available under license
1.46 squashfs-tools 4.3-20.el8
   1.46.1 Available under license
1.47 xfsdump 3.1.8 2.el8
   1.47.1 Available under license
1.48 pam 1.3.1-14.el8
   1.48.1 Available under license
1.49 fcntl 1.0.0
   1.49.1 Available under license
1.50 ocaml-srpm-macros 5-4.el8
   1.50.1 Available under license
1.51 perl-parent 0.237-1.el8
   1.51.1 Available under license
1.52 libteam 1.31 2.el8
   1.52.1 Available under license
1.53 json 2.1.0
   1.53.1 Available under license
1.54 iptstate 2.2.6 6.el8
   1.54.1 Available under license
1.55 fuse 2.9.7 12.el8
   1.55.1 Available under license
1.56 strscn 3.0.0
   1.56.1 Available under license
1.57 hardlink 1.3 6.el8
   1.57.1 Available under license
1.58 readline 7.0 10.el8
   1.58.1 Available under license
1.59 libpaper 1.1.24-22.el8
   1.59.1 Available under license
1.60 d-bus 1.12.8-12.el8_4.2
   1.60.1 Available under license
1.61 python-lxml 4.2.3-2.el8
   1.61.1 Available under license
1.62 libxcrypt 4.1.1 4.el8
   1.62.1 Available under license
1.63 etc 1.0.0
   1.63.1 Available under license
1.64 lsof 4.93.2-1.el8
   1.64.1 Available under license
1.65 cryptography 3.4.7
   1.65.1 Available under license
1.66 pygobject 3.28.3 2.el8
   1.66.1 Available under license
1.67 libnfnetlink 1.0.1 13.el8
   1.67.1 Available under license
1.68 selinux-policy 3.14.3-67.el8_4.1
   1.68.1 Available under license
1.69 pinfo 0.6.10-18.el8
   1.69.1 Available under license
1.70 builder 3.2.2
   1.70.1 Available under license
1.71 python-webencodings 0.5.1-6.el8
   1.71.1 Available under license
1.72 bash 4.4.20-1.el8_4
1.92 nftables 0.9.3-18.el8  
   1.92.1 Available under license

1.93 gobject-introspection 1.56.1 1.el8  
   1.93.1 Available under license

1.94 perl-constant 1.33-396.el8  
   1.94.1 Available under license

1.95 libgcrypt 1.8.5 4.el8  
   1.95.1 Available under license

1.96 colorama 0.4.4  
   1.96.1 Available under license

1.97 openjpeg 2.3.1-6.el8  
   1.97.1 Available under license

1.98 dejavu-fonts 2.35-7.el8  
   1.98.1 Available under license

1.99 libice 1.0.9-15.el8  
   1.99.1 Available under license

1.100 webrick 1.7.0  
   1.100.1 Available under license

1.101 firefox 60.9.0  
   1.101.1 Available under license

1.102 file 5.33-16.el8_3.1  
   1.102.1 Available under license

1.103 python 3.6.8-37.el8  
   1.103.1 Available under license

1.104 which 2.21 12.el8  
   1.104.1 Available under license

1.105 pydbus 0.6.0 5.el8  
   1.105.1 Available under license

1.106 fontconfig 2.13.1 3.el8  
   1.106.1 Available under license

1.107 python-decorator 4.2.1 2.el8  
   1.107.1 Available under license

1.108 gnutls 3.6.14-8.el8_3  
   1.108.1 Available under license

1.109 libidn 2.2.0 1.el8  
   1.109.1 Available under license

1.110 mpfr 3.1.6 1.el8  
   1.110.1 Available under license

1.111 go 1.12.9
1.111.1 Available under license

1.112 zlib 1.2.3
  1.112.1 Available under license

1.113 perl-threads 2.21 2.el8
  1.113.1 Available under license

1.114 glib 2.56.4-10.el8_4.1
  1.114.1 Available under license

1.115 gdb 8.2-15.el8
  1.115.1 Available under license

1.116 perl-pathtools 3.74-1.el8
  1.116.1 Available under license

1.117 perl-exporter 5.72 396.el8
  1.117.1 Available under license

1.118 libnetfilter-conntrack 1.0.6 5.el8
  1.118.1 Available under license

1.119 gtk 3.22.30-6.el8
  1.119.1 Available under license

1.120 libnl3 3.5.0 1.el8
  1.120.1 Available under license

1.121 perl-termreadkey 2.37-7.el8
  1.121.1 Available under license

1.122 python-pip 9.0.3-19.el8
  1.122.1 Available under license

1.123 adobe-mappings-cmap 20171205-3.el8
  1.123.1 Available under license

1.124 did-you-mean 1.5.0
  1.124.1 Available under license

1.125 trousers 0.3.15-1.el8
  1.125.1 Available under license

1.126 pixman 0.38.4 1.el8
  1.126.1 Available under license

1.127 usbutils 010 3.el8
  1.127.1 Available under license

1.128 psych 4.0.1.gem.data
  1.128.1 Available under license

1.129 mcelog 173-0.el8
  1.129.1 Available under license

1.130 logrus v1.4.2
  1.130.1 Available under license
1.131 javapackages-tools 5.3.0-1.module_el8.0.0+11+5b8c10bd
  1.131.1 Available under license
1.132 elfutils 0.182-3.el8
  1.132.1 Available under license
1.133 perl-net-ssleay 1.88-1.module_el8.3.0+410+ff426aa3
  1.133.1 Available under license
1.134 oddjob 0.34.7-1.el8
  1.134.1 Available under license
1.135 psutil 5.4.3
  1.135.1 Available under license
1.136 perl-fedora-vsp 0.001-9.el8
  1.136.1 Available under license
1.137 setroubleshoot-plugins 3.3.13 1.el8
  1.137.1 Available under license
1.138 librsvg 2.42.7-4.el8
  1.138.1 Available under license
1.139 python-systemd 234 8.el8
  1.139.1 Available under license
1.140 nvme-cli 1.12-4.el8_4
  1.140.1 Available under license
1.141 libnuma 2.0.12-11.el8
  1.141.1 Available under license
1.142 highline 2.0.3
  1.142.1 Available under license
1.143 hostname 3.20 6.el8
  1.143.1 Available under license
1.144 kerberos 1.18.2-8.el8
  1.144.1 Available under license
1.145 gssproxy 0.8.0-19.el8
  1.145.1 Available under license
1.146 dnf 4.4.2-11.el8
  1.146.1 Available under license
1.147 hwdata 0.314-8.8.el8
  1.147.1 Available under license
1.148 lksctp-tools 1.0.18 3.el8
  1.148.1 Available under license
1.149 adcli 0.8.2-9.el8
  1.149.1 Available under license
1.150 xorg-x11-font-utils 7.5 40.el8
1.150.1 Available under license
1.151 gnupg 2.2.20 2.el8
   1.151.1 Available under license
1.152 lshw B.02.19.2-5.el8
   1.152.1 Available under license
1.153 bc 1.07.1 5.el8
   1.153.1 Available under license
1.154 fileutils 1.5.0
   1.154.1 Available under license
1.155 source-highlight 3.1.8-17.el8
   1.155.1 Available under license
1.156 iconv 2.28
   1.156.1 Available under license
1.157 gpm 1.20.7-17.el8
   1.157.1 Available under license
1.158 curl 7.61.1-18.el8
   1.158.1 Available under license
1.159 python-setuptools 39.2.0 6.el8
   1.159.1 Available under license
1.160 xkeyboard-config 2.28 1.el8
   1.160.1 Available under license
1.161 centos-repos 8 2.el8
   1.161.1 Available under license
1.162 guile 2.0.14-7.el8
   1.162.1 Available under license
1.163 pycparser 2.20
   1.163.1 Available under license
1.164 popt 1.18-1.el8
   1.164.1 Available under license
1.165 perl-unicode-normalize 1.25 396.el8
   1.165.1 Available under license
1.166 libxi 1.7.10-1.el8
   1.166.1 Available under license
1.167 selinux 2.9-1.el8
   1.167.1 Available under license
1.168 json-c 0.99.8-2.el8
   1.168.1 Available under license
1.169 crypto-policies 20210209-1.gitbfb6bed.el8_3
   1.169.1 Available under license
1.170 tbb 2018.2-9.el8
   1.170.1 Available under license
1.171 scanf 1.0.0
   1.171.1 Available under license
1.172 passwd 0.80 3.el8
   1.172.1 Available under license
1.173 nfs-utils 2.3.3-41.el8_4.2
   1.173.1 Available under license
1.174 openssh 8.0p1-6.el8_4.2
   1.174.1 Available under license
1.175 xfsprogs 5.0.0-8.el8
   1.175.1 Available under license
1.176 tzdata 2021a-1.el8
   1.176.1 Available under license
1.177 net-tools 2.0-0.52.20160912git.el8
   1.177.1 Available under license
1.178 perl-mozilla-ca 20160104-7.module_el8.3.0+416+dee7bcef
   1.178.1 Available under license
1.179 binutils 2.30
   1.179.1 Available under license
1.180 hd-parm 9.54-3.el8
   1.180.1 Available under license
1.181 network-manager 1.30.0-10.el8_4
   1.181.1 Available under license
1.182 json 2.5.1.gem.data
   1.182.1 Available under license
1.183 redhat-rpm-config 125-1.el8
   1.183.1 Available under license
1.184 libusb 1.0.23-4.el8
   1.184.1 Available under license
1.185 stringio 0.0.1
   1.185.1 Available under license
1.186 cyrus-sasl 2.1.27 5.el8
   1.186.1 Available under license
1.187 exuberant-ctags 5.8-22.el8
   1.187.1 Available under license
1.188 ledmon 0.95-1.el8
   1.188.1 Available under license
1.189 libedit 3.1 23.20170329cvs.el8
1.189.1 Available under license
1.190 iprutils 2.4.19 1.el8
  1.190.1 Available under license
1.191 perl-time-local 1.280 1.el8
  1.191.1 Available under license
1.192 libsepol 2.9-2.el8
  1.192.1 Available under license
1.193 gopkg.in/resty v1.12.0
  1.193.1 Available under license
1.194 docbook-style-xsl 1.79.2-9.el8
  1.194.1 Available under license
1.195 psmisc 23.1-5.el8
  1.195.1 Available under license
1.196 io-console 0.4.6
  1.196.1 Available under license
1.197 cryptsetup 2.3.3-4.el8
  1.197.1 Available under license
1.198 sg3-utils 1.44 5.el8
  1.198.1 Available under license
1.199 icu 60.3 2.el8_1
  1.199.1 Available under license
1.200 ltrace 0.7.91-28.el8
  1.200.1 Available under license
1.201 pkcs11-helper 1.22-7.el8
  1.201.1 Available under license
1.202 lsscsi 0.32-2.el8
  1.202.1 Available under license
1.203 perl-term-cap 1.17 395.el8
  1.203.1 Available under license
1.204 perl-thread-queue 3.13-1.el8
  1.204.1 Available under license
1.205 zstd 1.4.4 1.el8
  1.205.1 Available under license
1.206 libestr 0.1.10 1.el8
  1.206.1 Available under license
1.207 os-prober 1.74 6.el8
  1.207.1 Available under license
1.208 systemtap 4.4-11.el8_4
  1.208.1 Available under license
1.209 libxmu 1.1.3-1.el8  
  1.209.1 Available under license

1.210 perl-text-parsewords 3.30-395.el8  
  1.210.1 Available under license

1.211 fileutils 1.0.2  
  1.211.1 Available under license

1.212 libcroco 0.6.12 4.el8_2.1
  1.212.1 Available under license

1.213 audit 3.0 0.17.20191104git1c2f876.el8
  1.213.1 Available under license

1.214 bison 3.0.4-10.el8  
  1.214.1 Available under license

1.215 libx11 1.6.8-4.el8
  1.215.1 Available under license

1.216 ipaddr 1.2.2
  1.216.1 Available under license

1.217 authselect 1.2.2-2.el8
  1.217.1 Available under license

1.218 avahi 0.7-20.el8
  1.218.1 Available under license

1.219 libxslt 1.1.32-6.el8
  1.219.1 Available under license

1.220 tpm2-tss-tcti 2.3.2-3.el8
  1.220.1 Available under license

1.221 webrick 1.7.0.gem.data
  1.221.1 Available under license

1.222 libappstream-glib 0.7.14 3.el8
  1.222.1 Available under license

1.223 psacct 6.6.3 4.el8
  1.223.1 Available under license

1.224 perl-mime-base64 3.15 396.el8
  1.224.1 Available under license

1.225 ima-evm-utils 1.3.2-12.el8
  1.225.1 Available under license

1.226 libxfont 7.5-40.el8
  1.226.1 Available under license

1.227 dc 1.4
  1.227.1 Available under license

1.228 realmd 0.16.3-22.el8

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 13
1.228.1 Available under license

1.229 blktrace 1.2.0 10.el8
   1.229.1 Available under license

1.230 libmpc 1.1.0-9.1.el8
   1.230.1 Available under license

1.231 threading-building-blocks 2018.2-9.el8.x86_64
   1.231.1 Available under license

1.232 groff 1.22.3 18.el8
   1.232.1 Available under license

1.233 findutils 4.6.0 20.el8
   1.233.1 Available under license

1.234 urlib3 1.26.6
   1.234.1 Available under license

1.235 libatomic-ops 7.6.2-3.el8
   1.235.1 Available under license

1.236 perl-digest-md5 2.55-396.el8
   1.236.1 Available under license

1.237 at 3.1.20 11.el8
   1.237.1 Available under license

1.238 libndp 1.7-5.el8
   1.238.1 Available under license

1.239 webencodings 0.5.1
   1.239.1 Available under license

1.240 perl-socket 2.027 3.el8
   1.240.1 Available under license

1.241 setup 2.12.2-6.el8
   1.241.1 Available under license

1.242 libgd 2.2.5-7.el8
   1.242.1 Notifications
   1.242.2 Available under license

1.243 libarchive 3.3.3-1.el8
   1.243.1 Available under license

1.244 msgp v1.1.0
   1.244.1 Available under license

1.245 libfastjson 0.99.8 2.el8
   1.245.1 Available under license

1.246 tree 1.7.0 15.el8
   1.246.1 Available under license

1.247 perl-sys-syslog 0.35-397.el8
1.247.1 Available under license
1.248 libtool 2.4.6 25.el8
1.248.1 Available under license
1.249 free-type 2.9.1 4.el8_3.1
1.249.1 Available under license
1.250 highline 2.0.3-1.ph4
1.250.1 Available under license
1.251 libsoup 2.62.3 2.el8
1.251.1 Available under license
1.252 epel-release 8-11.el8
1.252.1 Available under license
1.253 babeltrace 1.5.4-3.el8
1.253.1 Available under license
1.254 char2det 4.0.0
1.254.1 Available under license
1.255 gc 7.6.4-3.el8
1.255.1 Available under license
1.256 coreutils 8.30 8.el8
1.256.1 Available under license
1.257 libpipeline 1.5.0 2.el8
1.257.1 Available under license
1.258 openssl 1.1.1k
1.258.1 Notifications
1.258.2 Available under license
1.259 python-pexpect 4.3.1-3.el8
1.259.1 Available under license
1.260 irqbalance 1.4.0-6.el8
1.260.1 Available under license
1.261 cpio 2.12-10.el8
1.261.1 Available under license
1.262 icu 60
1.262.1 Available under license
1.263 linux-kernel 4.18.0-305.3.1.el8
1.263.1 Available under license
1.264 nghttp2 1.33.0 3.el8_2.1
1.264.1 Available under license
1.265 packagekit 1.1.12-6.el8
1.265.1 Available under license
1.266 etc 1.2.0
1.286 librepo 1.12.0-3.el8
   1.286.1 Available under license

1.287 python-requests 2.26.0
   1.287.1 Available under license

1.288 libgpg-error 1.31 1.el8
   1.288.1 Available under license

1.289 tpm2-tss 2.3.2-3.el8
   1.289.1 Available under license

1.290 geolite2 20180605-1.el8
   1.290.1 Available under license

1.291 google-go-cmp v0.3.1
   1.291.1 Available under license

1.292 six 1.11.0
   1.292.1 Available under license

1.293 gsettings-desktop-schemas 3.32.0 5.el8
   1.293.1 Available under license

1.294 nss 3.53.1 17.el8_3
   1.294.1 Available under license

1.295 fileutils 1.5.0.gem.data
   1.295.1 Available under license

1.296 libnsl2 1.2.0 2.20180605git4a062cf.el8
   1.296.1 Available under license

1.297 libtiff 4.0.9-18.el8
   1.297.1 Available under license

1.298 checkpolicy 2.9 1.el8
   1.298.1 Available under license

1.299 gettext 0.19.8.1 17.el8
   1.299.1 Available under license

1.300 python-ply 3.9-9.el8
   1.300.1 Available under license

1.301 lshw-b B.02.19.2-5.el8
   1.301.1 Available under license

1.302 efivar 37-4.el8
   1.302.1 Available under license

1.303 samba 4.13.3-4.el8_4
   1.303.1 Available under license

1.304 harfbuzz 1.7.5 3.el8
   1.304.1 Available under license

1.305 glib-networking 2.56.1 1.1.el8
1.305.1 Available under license
1.306 prefixdevname 0.1.0 6.el8
   1.306.1 Available under license
1.307 python-six 1.11.0 8.el8
   1.307.1 Available under license
1.308 glibc 2.28-151.el8
   1.308.1 Available under license
1.309 mokutil 0.3.0-11.el8
   1.309.1 Available under license
1.310 libproxy 0.4.15 5.2.el8
   1.310.1 Available under license
1.311 perl-io-socket-ssl 2.066-4.module_el8.3.0+410+ff426aa3
   1.311.1 Available under license
1.312 atk 2.28.1-1.el8
   1.312.1 Available under license
1.313 pydbus 0.6.0
   1.313.1 Available under license
1.314 diffutils 3.6 6.el8
   1.314.1 Available under license
1.315 sdbm 1.0.0
   1.315.1 Available under license
1.316 perl-pod-escapes 1.07-395.el8
   1.316.1 Available under license
1.317 man-db 2.7.6.1 17.el8
   1.317.1 Available under license
1.318 newt 0.52.20 11.el8
   1.318.1 Available under license
1.319 dbus-python 1.2.4
   1.319.1 Available under license
1.320 crontabs 1.11-17.20190603git.el8
   1.320.1 Available under license
1.321 parted 3.2 38.el8
   1.321.1 Available under license
1.322 libkcapi 1.2.0-2.el8
   1.322.1 Available under license
1.323 libmnl 1.0.4 6.el8
   1.323.1 Available under license
1.324 json-c 0.13.1-0.4.el8
   1.324.1 Available under license
1.325 sscg 2.3.3 14.el8
  1.325.1 Available under license
1.326 libgusb 0.3.0 1.el8
  1.326.1 Available under license
1.327 perl-pod-perldoc 3.28 396.el8
  1.327.1 Available under license
1.328 libunistring 0.9.9 3.el8
  1.328.1 Available under license
1.329 markupsafe 2.0.1
  1.329.1 Available under license
1.330 mtr 0.92 3.el8
  1.330.1 Available under license
1.331 fwd v1.0.0
  1.331.1 Available under license
1.332 cmath 1.0.0
  1.332.1 Available under license
1.333 grubby 8.40 41.el8
  1.333.1 Available under license
1.334 openvpn 2.4.11-1.el8
  1.334.1 Available under license
1.335 flex 2.6.1-9.el8
  1.335.1 Available under license
1.336 rpcbind 1.2.5-8.el8
  1.336.1 Available under license
1.337 libdatrie 0.2.9 7.el8
  1.337.1 Available under license
1.338 cavium-octeon 3.1.2
  1.338.1 Available under license
1.339 util-linux 2.32.1-27.el8
  1.339.1 Available under license
1.340 rsyslog 8.19.11.0-7.el8_4.2
  1.340.1 Available under license
1.341 json-glib 1.4.4 1.el8
  1.341.1 Available under license
1.342 annobin 9.50-1.el8
  1.342.1 Available under license
1.343 pcre2 10.32 2.el8
  1.343.1 Available under license
1.344 libmetalink 0.1.3 7.el8
<table>
<thead>
<tr>
<th>Package Name</th>
<th>Version</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>google-droid-fonts</td>
<td>20120715 13.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>libnftnl</td>
<td>1.1.5-4.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>certifi</td>
<td>2021.05.30</td>
<td>Available under license</td>
</tr>
<tr>
<td>autoconf</td>
<td>2.69-27.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>e2fsprogs</td>
<td>1.45.6 1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>python36</td>
<td>3.6.8-2.module_el8.4.0+790+083e3d81</td>
<td>Available under license</td>
</tr>
<tr>
<td>wget</td>
<td>1.19.5 10.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>iptables</td>
<td>1.8.4-17.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>asciidoc</td>
<td>8.6.10-0.5.20180627gitf7c2274.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>psych</td>
<td>3.0.2</td>
<td>Available under license</td>
</tr>
<tr>
<td>perl-libnet</td>
<td>3.11-3.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>systemd</td>
<td>239-45.el8_4.3</td>
<td>Available under license</td>
</tr>
<tr>
<td>libwebp</td>
<td>1.0.0-3.el8_4</td>
<td>Available under license</td>
</tr>
<tr>
<td>ipset</td>
<td>7.1 1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>selinux</td>
<td>2.9-5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>perl-threads-shared</td>
<td>1.58-2.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>expat</td>
<td>2.2.5 4.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>ruby</td>
<td>2.5.9-107.module_el8.4.0+847+ee687b6c</td>
<td>Available under license</td>
</tr>
<tr>
<td>cpp</td>
<td>8.4.1-1.el8</td>
<td>Available under license</td>
</tr>
</tbody>
</table>
1.364 rootfiles 8.1-22.el8
   1.364.1 Available under license
1.365 libstoragemgmt 1.8.7-1.el8
   1.365.1 Available under license
1.366 libsgutils 1.44-5.el8
   1.366.1 Available under license
1.367 ca-certificates 2020.2.41 80.0.el8_2
   1.367.1 Available under license
1.368 lxml 4.2.3
   1.368.1 Available under license
1.369 ctags 5.8-22.el8
   1.369.1 Available under license
1.370 libsolv 0.7.16-2.el8
   1.370.1 Available under license
1.371 python-rpm-macros 3-41.el8
   1.371.1 Available under license
1.372 perl-file-temp 0.230.600 1.el8
   1.372.1 Available under license
1.373 efi-rpm-macros 3-3.el8
   1.373.1 Available under license
1.374 pyyaml 3.12 12.el8
   1.374.1 Available under license
1.375 pip 9.0.3
   1.375.1 Available under license
1.376 perl-storable 3.11-3.el8
   1.376.1 Available under license
1.377 m4 1.4.18 7.el8
   1.377.1 Available under license
1.378 nspr 4.25.0 2.el8_2
   1.378.1 Available under license
1.379 libxml 2.9.7-9.el8_4.2
   1.379.1 Available under license
1.380 pkgconf 1.4.2 1.el8
   1.380.1 Available under license
1.381 libxcursor 1.1.15 3.el8
   1.381.1 Available under license
1.382 rpm 4.14.3-14.el8_4
   1.382.1 Available under license
1.383 date 3.1.1
1.383.1 Available under license
1.384 xz 5.2.4 3.el8
   1.384.1 Available under license
1.385 dhcp 4.3.6-44.0.1.el8
   1.385.1 Available under license
1.386 perl-data-dumper 2.167-399.el8
   1.386.1 Available under license
1.387 linux-kernel 4.18.0-305.12.1.el8_4
   1.387.1 Available under license
1.388 google-uuid v1.1.1
   1.388.1 Available under license
1.389 make 4.2.1 10.el8
   1.389.1 Available under license
1.390 perl-srpm-macros 1-25.el8
   1.390.1 Available under license
1.391 cups 2.2.6-38.el8
   1.391.1 Available under license
1.392 html5lib 0.999999999
   1.392.1 Available under license
1.393 openjdk-jre 1.8.0.302.b08-0.el8_4
   1.393.1 Available under license
1.394 gir1.2-gdkpixbuf-2.0 2.36.12 5.el8
   1.394.1 Available under license
1.395 io-console 0.5.9
   1.395.1 Available under license
1.396 perl-uri 1.73-3.el8
   1.396.1 Available under license
1.397 shadow-utils 4.6-12.el8
   1.397.1 Available under license
1.398 procps 3.3.15-6.el8
   1.398.1 Available under license
1.399 libdnf 0.55.0-7.el8
   1.399.1 Available under license
1.400 libjpeg-turbo 1.5.3 10.el8
   1.400.1 Available under license
1.401 device-mapper-multipath 0.8.4-10.el8
   1.401.1 Available under license
1.402 stringio 3.0.0
   1.402.1 Available under license
1.403 rust-srpm-macros 5-2.el8
1.403.1 Available under license

1.404 perl-digest 1.17-395.el8
1.404.1 Available under license

1.405 libthai 0.1.27 2.el8
1.405.1 Available under license

1.406 cockpit 238.2-1.el8
1.406.1 Available under license

1.407 bigdecimal 1.3.4
1.407.1 Available under license

1.408 abattis-cantarell-fonts 0.0.25-6.el8
1.408.1 Available under license

1.409 go-srpm-macros 2-17.el8
1.409.1 Available under license

1.410 keyutils 1.5.10 6.el8
1.410.1 Available under license

1.411 perl-error 0.17025-2.el8
1.411.1 Available under license

1.412 dbus-glib 0.110 2.el8
1.412.1 Available under license

1.413 perl-xml-parser 2.44-11.el8
1.413.1 Available under license

1.414 libdb 5.3.28-40.el8
1.414.1 Available under license

1.415 python-setuptools 39.2.0
1.415.1 Available under license

1.416 vim 8.0.1763 15.el8
1.417 ethtool 5.8-5.el8
1.417.1 Available under license

1.418 gmp 6.1.2 10.el8
1.418.1 Available under license

1.419 graphite 1.3.10 10.el8
1.419.1 Available under license

1.420 boost 1.66.0 10.el8
1.420.1 Available under license

1.421 gtk 2.24.32-5.el8
1.421.1 Available under license

1.422 isl 0.16.1-6.el8
1.422.1 Available under license
1.423 sed 4.5 2.el8
   1.423.1 Available under license
1.424 fiddle 1.0.9
   1.424.1 Available under license
1.425 myapp 0.1.0-0001
   1.425.1 Available under license
1.426 libusbx 1.0.23 4.el8
   1.426.1 Available under license
1.427 jinja2 3.0.1
   1.427.1 Available under license
1.428 brotli 1.0.6-3.el8
   1.428.1 Available under license
1.429 kmod 25-17.el8
   1.429.1 Available under license
1.430 dbus-python 1.2.4 15.el8
   1.430.1 Available under license
1.431 log-rotate 3.14.0 4.el8
   1.431.1 Available under license
1.432 python-configobj 5.0.6 11.el8
   1.432.1 Available under license
1.433 urw-base35-fonts 20170801 10.el8
   1.433.1 Available under license
1.434 nftables 0.9.6-2.ph3
   1.434.1 Available under license
1.435 centos-linux 8.4-1.2105.el8
   1.435.1 Available under license
1.436 libyaml 0.2.5
   1.436.1 Available under license
1.437 tuned 2.15.0-2.el8_4.1
   1.437.1 Available under license
1.438 libipt 1.6.1-8.el8
   1.438.1 Available under license
1.439 sudo 1.8.29-7.el8
   1.439.1 Available under license
1.440 rfkill 2.32.1-27.el8.x86_64
   1.440.1 Available under license
1.441 less 530 1.el8
   1.441.1 Available under license
1.442 perl-term-ansicolor 4.06 396.el8
1.442.1 Available under license
1.443 setools 4.3.0
   1.443.1 Available under license
1.444 libxcb 1.13.1 1.el8
   1.444.1 Available under license
1.445 ipcalc 0.2.4 4.el8
   1.445.1 Available under license
1.446 jbig-kit 2.1-14.el8
   1.446.1 Available under license
1.447 libcap-ng 0.7.9 5.el8
   1.447.1 Available under license
1.448 libsm 1.2.3 1.el8
   1.448.1 Available under license
1.449 dwz 0.12-9.el8
   1.449.1 Available under license
1.450 visual-studio-runtime 14.00.24210.0
   1.450.1 Available under license
1.451 python-schedutils 0.6 6.el8
   1.451.1 Available under license
1.452 initscripts 10.00.15-1.el8
   1.452.1 Available under license
1.453 perl-podlators 4.11 1.el8
   1.453.1 Available under license
1.454 perl-io-socket-ip 0.39-5.el8
   1.454.1 Available under license
1.455 ncurses 6.1 7.20180224.el8
   1.455.1 Available under license
1.456 mdadm 4.1-16.el8_4
   1.456.1 Available under license
1.457 mcpp 2.7.2 20.el8
   1.457.1 Available under license
1.458 libassuan 2.5.1 3.el8
   1.458.1 Available under license
1.459 rdoc 6.3.2.gem.data
   1.459.1 Available under license
1.460 libsecret 0.18.6 1.el8
   1.460.1 Available under license
1.461 smartmontools 7.1-1.el8
   1.461.1 Available under license
<table>
<thead>
<tr>
<th>Package Name</th>
<th>Version</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>sgml-common</td>
<td>0.6.3 50.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>librelp</td>
<td>1.2.16-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>libpsl</td>
<td>0.20.2 6.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>dmidecode</td>
<td>3.2-8.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>packaging</td>
<td>21.0</td>
<td>Available under license</td>
</tr>
<tr>
<td>robfig-cron</td>
<td>v1.2.0</td>
<td>Available under license</td>
</tr>
<tr>
<td>sssd</td>
<td>2.4.0-9.el8_4.2</td>
<td>Available under license</td>
</tr>
<tr>
<td>lzo</td>
<td>2.08 14.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>langpacks</td>
<td>1.0 12.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>xdg-utils</td>
<td>1.1.2-5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>p11-kit</td>
<td>0.23.22-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>ldb</td>
<td>2.2.0-2.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>libxt</td>
<td>1.1.5-12.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>policycoreutils</td>
<td>2.9-14.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>cracklib</td>
<td>2.9.6 15.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>libtirpc</td>
<td>1.1.4 4.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>patchutils</td>
<td>0.3.4-10.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>cffi</td>
<td>1.14.6</td>
<td>Available under license</td>
</tr>
<tr>
<td>python-linux-procs</td>
<td>0.6.3-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>libdaemon</td>
<td>0.14 15.el8</td>
<td>Available under license</td>
</tr>
</tbody>
</table>
1.481.1 Available under license
1.482 libmodulemd 2.9.4 2.el8
   1.482.1 Available under license
1.483 libxext 1.3.4 1.el8
   1.483.1 Available under license
1.484 ghostscript 9.27-1.el8
   1.484.1 Available under license
1.485 pcre 8.42 4.el8
   1.485.1 Available under license
1.486 graphviz 2.40.1-40.el8
   1.486.1 Available under license
1.487 sqlite 3.26.0-13.el8
   1.487.1 Available under license
1.488 pinentry 1.1.0 2.el8
   1.488.1 Available under license
1.489 virt-what 1.18-9.el8_4
   1.489.1 Available under license
1.490 pip 21.2.4
   1.490.1 Available under license
1.491 libaio 0.3.112 1.el8
   1.491.1 Available under license
1.492 highline 1.7.8
   1.492.1 Available under license
1.493 toml v0.3.1
   1.493.1 Available under license
1.494 c-ares 1.13.0 5.el8
   1.494.1 Available under license
1.495 fprintd 1.90.9-2.el8
   1.495.1 Available under license
1.496 adobe-mappings-pdf 20180407-1.el8
   1.496.1 Available under license
1.497 chkconfig 1.13 2.el8
   1.497.1 Available under license
1.498 fribidi 1.0.4 8.el8
   1.498.1 Available under license
1.499 automake 1.16.1-7.el8
   1.499.1 Available under license
1.500 html5lib 1.1
   1.500.1 Available under license
1.501 python-html5lib 0.999999999-6.el8
   1.501.1 Available under license
1.502 libssh 0.9.4 2.el8
   1.502.1 Available under license
1.503 time 1.9 3.el8
   1.503.1 Available under license
1.504 binutils 2.31.51
   1.504.1 Available under license
1.505 bash-completion 2.7 5.el8
   1.505.1 Available under license
1.506 rsync 3.1.3-12.el8
   1.506.1 Available under license
1.507 spidermonkey 0-60.9.0-4.el8.x86_64
   1.507.1 Available under license
1.508 open-ldap 2.4.46-17.el8_4
   1.508.1 Available under license
1.509 libxaw 1.0.13-10.el8
   1.509.1 Available under license
1.510 perl-getopt-long 2.50 4.el8
   1.510.1 Available under license
1.511 acl 2.2.53 1.el8
   1.511.1 Available under license
1.512 pycairo 1.16.3 6.el8
   1.512.1 Available under license
1.513 centos-logos 85.8-1.el8
   1.513.1 Available under license
1.514 perl-encode 2.97 3.el8
   1.514.1 Available under license
1.515 subscription-manager 1.28.13-3.el8_4
   1.515.1 Available under license
1.516 kexec-tools 2.0.20-46.el8_4.2
   1.516.1 Available under license
1.517 ghc-srpm-macros 1.4.2-7.el8
   1.517.1 Available under license
1.518 linux-firmware 25.30.13.0-102.el8.1
   1.518.1 Available under license
1.519 did-you-mean 1.2.0
   1.519.1 Available under license
1.520 libmaxminddb 1.2.0 10.el8
1.520.1 Available under license
1.521 setroubleshoot 3.3.24-3.el8
    1.521.1 Available under license
1.522 libffi 3.1 22.el8
    1.522.1 Available under license
1.523 libseccomp 2.5.1-1.el8
    1.523.1 Available under license
1.524 tracer 0.7.5-2.el8
    1.524.1 Available under license
1.525 jbig2dec 0.16-1.el8
    1.525.1 Available under license
1.526 patch 2.7.6 11.el8
    1.526.1 Available under license
1.527 pesign 0.112-25.el8
    1.527.1 Available under license
1.528 rdma-core 32.0-4.el8
    1.528.1 Available under license
1.529 datadog-go v3.3.0+incompatible
    1.529.1 Available under license
1.530 zip 3.0 23.el8
    1.530.1 Available under license
1.531 nano 2.9.8 1.el8
    1.531.1 Available under license
1.532 quota 4.04-12.el8
    1.532.1 Available under license
1.533 lz4 1.8.3-3.el8_4
    1.533.1 Available under license
1.534 pyudev 0.21.0
    1.534.1 Available under license
1.535 shadow 4.6-12.el8
    1.535.1 Available under license
1.536 berkeley-db 5.3.28-40.el8
    1.536.1 Available under license
1.537 decorator 4.2.1
    1.537.1 Available under license
1.538 libyaml 0.1.7 5.el8
    1.538.1 Available under license
1.539 libfprint 1.90.7-1.el8
    1.539.1 Available under license
1.540 python-dateutil 2.6.1-1.ph1
   1.540.1 Available under license
1.541 lvm2 2.03.11-5.el8
   1.541.1 Available under license
1.542 strace 5.7-2.el8
   1.542.1 Available under license
1.543 syspurpose 1.28.13
   1.543.1 Available under license
1.544 vdo 6.2.4.14-14.el8
   1.544.1 Available under license
1.545 python-ptyprocess 0.5.2-4.el8
   1.545.1 Available under license
1.546 jna 4.5.1-5.el8
   1.546.1 Available under license
1.547 pango 1.42.4 6.el8
   1.547.1 Available under license
1.548 perl-pod-usage 1.69 395.el8
   1.548.1 Available under license
1.549 zlib 1.2.8
   1.549.1 Available under license
1.550 ply 3.9
   1.550.1 Available under license
1.551 dbm 1.0.0
   1.551.1 Available under license
1.552 fdisk 2.32.1
   1.552.1 Available under license
1.553 perl-generators 1.10-9.el8
   1.553.1 Available under license
1.554 perl-scalar-list-utils 1.49-2.el8
   1.554.1 Available under license
1.555 builder 3.2.4
   1.555.1 Available under license
1.556 sos 4.0-11.el8
   1.556.1 Available under license
1.557 rinetd 0.62-27.fc31
   1.557.1 Available under license
1.558 valgrind 3.16.0-4.el8
   1.558.1 Available under license
1.559 dosfs-tools 4.1-6.el8
<table>
<thead>
<tr>
<th>Version</th>
<th>Package Name</th>
<th>Version</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.559.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.560</td>
<td>libpcap 1.9.1-5.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.560.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.561</td>
<td>python-pyudev 0.21.0 7.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.561.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.562</td>
<td>libconfig 1.5 9.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.562.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.563</td>
<td>webrick 1.4.2.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.563.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.564</td>
<td>pciutils 3.7.0-1.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.564.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.565</td>
<td>desktop-file-utils 0.23-8.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.565.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.566</td>
<td>openssl 1.1.1g-15.el8_3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.566.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.567</td>
<td>dnf-plugins-core 4.0.18-4.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.567.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.568</td>
<td>gpgme 1.13.1-7.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.568.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.569</td>
<td>chrony 3.5-2.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.569.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.570</td>
<td>fiddle 1.0.9.gem.data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.570.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.571</td>
<td>cronie 1.5.2 4.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.571.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.572</td>
<td>gd 2.2.5-7.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.572.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.573</td>
<td>xorg-x11-server-utils 7.7 27.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.573.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.574</td>
<td>perl 5.26.3-419.el8_4.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.574.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.575</td>
<td>tcp-dump 4.9.3-1.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.575.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.576</td>
<td>libtasn 4.13 3.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.576.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.577</td>
<td>git 2.27.0-1.el8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.577.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.578</td>
<td>bind 9.11.26-4.el8_4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.578.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.1 libutempter 1.1.6 14.el8
1.1.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software—-to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—-typically libraries—-of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2 lmdb 0.9.24-1.el8

1.2.1 Available under license:

Copyright 2011-2019 Howard Chu, Symas Corp.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted only as authorized by the OpenLDAP Public License.

A copy of this license is available in the file LICENSE in the top-level directory of the distribution or, alternatively, at <http://www.OpenLDAP.org/license.html>.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by other parties and/or subject to additional restrictions.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at <http://www.openldap.org/>.
The OpenLDAP Public License
Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:
1. Redistributions in source form must retain copyright statements and notices,

2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.

1.3 polkit 0.115-11.el8_4.1
1.3.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
 Copyright (C) 1991 Free Software Foundation, Inc.
      59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL.  It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it.  You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library.  If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary
GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing. Licensor provides the Work (and each 
Contributor provides its Contributions) on an "AS IS" BASIS, 
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or 
implied, including, without limitation, any warranties or conditions 
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A 
PARTICULAR PURPOSE. You are solely responsible for determining the 
appropriateness of using or redistributing the Work and assume any 
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, 
whether in tort (including negligence), contract, or otherwise, 
unless required by applicable law (such as deliberate and grossly 
negligent acts) or agreed to in writing, shall any Contributor be 
liable to You for damages, including any direct, indirect, special, 
incidental, or consequential damages of any character arising as a 
result of this License or out of the use or inability to use the 
Work (including but not limited to damages for loss of goodwill, 
work stoppage, computer failure or malfunction, or any and all 
other commercial damages or losses), even if such Contributor 
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing 
the Work or Derivative Works thereof, You may choose to offer, 
and charge a fee for, acceptance of support, warranty, indemnity, 
or other liability obligations and/or rights consistent with this 
License. However, in accepting such obligations, You may act only 
on Your own behalf and on Your sole responsibility, not on behalf 
of any other Contributor, and only if You agree to indemnify, 
defend, and hold each Contributor harmless for any liability 
incurred by, or claims asserted against, such Contributor by reason 
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following 
boilerplate notice, with the fields enclosed by brackets "[]" 
replaced with your own identifying information. (Don't include 
the brackets!) The text should be enclosed in the appropriate 
comment syntax for the file format. We also recommend that a 
file or class name and description of purpose be included on the 
same "printed page" as the copyright notice for easier 
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
1.4 biosdevname 0.7.3 2.el8
1.4.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.5 texinfo 6.5 6.el8
1.5.1 Available under license:
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@end display

@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of “copyleft”, which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The “Document”, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as “you”. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A “Modified Version” of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A “Secondary Section” is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The “Invariant Sections” are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements").
"Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.
If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate
@item A
@item Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item Preserve all the copyright notices of the Document.
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

Include an unaltered copy of this License.

Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site” (or ``MMC Site”) means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration” (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA” means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate” means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing” if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.
The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `with@dots{}Texts.@: line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently...

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any...
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. Because the Library is licensed free of charge, there is no warranty for the Library, to the extent permitted by applicable law. Except when otherwise stated in writing the copyright holders and/or other parties provide the Library “as is” without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of the Library is with you. Should the Library prove defective, you assume the cost of all necessary servicing, repair or correction.

16. In no event unless required by applicable law or agreed to in writing will any copyright holder, or any other party who may modify and/or redistribute the Library as permitted above, be liable to you for damages, including any general, special, incidental or consequential damages arising out of the use or inability to use the Library (including but not limited to loss of data or data being rendered inaccurate or losses sustained by you or third parties or a failure of the Library to operate with any other software), even if such holder or other party has been advised of the possibility of such damages.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.6 gawk 4.2.1-2.el8
1.6.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by the
   Corresponding Source fixed on a durable physical medium
   customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by a
   written offer, valid for at least three years and valid for as
   long as you offer spare parts or customer support for that product
   model, to give anyone who possesses the object code either (1) a
   copy of the Corresponding Source for all the software in the
   product that is covered by this License, on a durable physical
   medium customarily used for software interchange, for a price no
   more than your reasonable cost of physically performing this
   conveying of source, or (2) access to copy the
   Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
   written offer to provide the Corresponding Source. This
   alternative is allowed only occasionally and noncommercially, and
   only if you received the object code with such an offer, in accord
   with subsection 6b.

d) Convey the object code by offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in the same way through the same place at no
   further charge. You need not require recipients to copy the
   Corresponding Source along with the object code. If the place to
   copy the object code is a network server, the Corresponding Source
   may be on a different server (operated by you or a third party)
   that supports equivalent copying facilities, provided you maintain
   clear directions next to the object code saying where to find the
   Corresponding Source. Regardless of what server hosts the
   Corresponding Source, you remain obligated to ensure that it is
   available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
   you inform other peers where the object code and Corresponding
   Source of the work are being offered to the general public at no
   charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.
A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.
"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.
Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.
Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

  <program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.
GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!
1.7 jansson 2.11 3.el8
1.7.1 Available under license:

Copyright (c) 2009-2016 Petri Lehtinen <petri@digip.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.8 publicsuffix-list 20180723 1.el8
1.8.1 Available under license:

Found license 'GNU Lesser General Public License' in 'Mozilla Public License Version 2.0 version 1.1 or earlier of the License, but not also under the means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those non-exclusive license: 10. Versions of the License You may distribute the Covered Software under the terms of the version Secondary Licenses under the terms of this version of the License, the This Source Code Form is subject to the terms of the Mozilla Public defined by the Mozilla Public License, v. 2.0.'

1.9 libsemanage 2.9-6.el8
1.9.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts]
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 134
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.10 idna 13.0.0
1.10.1 Available under license:
BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.11 mesa 17.3.9

1.11.1 Available under license:
1.12 dracut 049-135.git20210121.el8

1.12.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.13 ansible 2.8.5
1.13.1 Available under license:

This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

Copyright: Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu>

License:

This package is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 dated June, 1991.

This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this package; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301,
USA.

On Debian systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL'.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

=================================================================
1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.


3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of
technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version,
Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General

# Test code for the vcenter license module.
# Copyright: (c) 2017, Dag Wieers <dag@wieers.com>
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

- name: Wait for vcsim controller to come online {}
  wait_for:
    host: "{{ vcsim }}"
    port: 5000
    state: started

- name: Kill vcsim
  uri:
    url: http://{{ vcsim }}:5000/killall

- name: Start vcsim
  uri:
    url: http://{{ vcsim }}:5000/spawn?cluster=2
  register: vcsim_instance

- name: Wait for vcsim server to come up online {}
  wait_for:
    host: "{{ vcsim }}"
    port: 443
    state: started

- debug:
  var: vcsim_instance

# FIXME: ServerFaultCode: LicenseManager:LicenseManager does not implement: AddLicense

#- name: Add a vCenter evaluation license
#  vcenter_license:
#    hostname: '{{ vcsim }}'
#    username: '{{ vcsim_instance["json"]['username'] }}'
#    password: '{{ vcsim_instance["json"]['password'] }}'
#    validate_certs: no
#    license: 00000-00000-00000-00000-00000
#    state: present

#- name: Remove an (unused) vCenter evaluation license
#  vcenter_license:
#    hostname: '{{ vcsim }}'
#    username: '{{ vcsim_instance["json"]['username'] }}'
#    password: '{{ vcsim_instance["json"]['password'] }}'
#    validate_certs: no
#    license: 00000-00000-00000-00000-00000
#    state: absent
#- name: Add an invalid vCenter license
# vcenter_license:
#   hostname: '{{ vcsim }}'
#   username: '{{ vcsim_instance["json"]["username"] }}'
#   password: '{{ vcsim_instance["json"]["password"] }}'
#   validate_certs: no
#   license: 00000-00000-00000-00000-00001
#   state: present
#   ignore_errors: yes

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
associated documentation files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED.
1.14 docbook-dtds 1.0-69.el8

1.14.1 Available under license:

No license file was found, but licenses were detected in source scan.

2002 HaL Computer Systems, Inc.,
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: docbookx.dtd,v 1.21 2004/03/31 10:59:14 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
  feKkMD47/docbook-4.3.zip-cosi-expand-archive-ZzNQLcYF/docbookx.dtd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
  feKkMD47/docbook-xml-4.3.zip-cosi-expand-archive-m2Ir8YwA/docbookx.dtd
No license file was found, but licenses were detected in source scan.

03 13:23:24Z nwalsh $
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.5.zip-cosi-expand-archive-Dyfz1kRJ/calstblx.dtd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.5.zip-cosi-expand-archive-fPrcjOYv/calstblx.dtd
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.2 ............................. -->
<!-- File dbpoolx.mod ..................................................... -->
<!-- File dbpoolx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbpoolx.mod,v 1.46 2002/07/17 15:26:16 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.
Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ............................................................. -->

<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<![ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.2//EN" "dbpoolx.mod">
%dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!-- ............................................................. -->

<!-- General-purpose semantics entities ................................... -->

<![ENTITY % yesorno.attvals"CDATA">

<!-- ............................................................. -->

<!-- Entities for module inclusions ....................................... -->

<![ENTITY % dbpool.redecl.module "IGNORE">

<!-- ............................................................. -->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 181
<!-- Entities for element classes and mixtures ......................... -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">  

<!-- Object-level classes ................................................ -->

<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist
|simplelist|variablelist %local.list.class;">  

<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">  

<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"literallayout|programlisting|programlistingco|screen
|screenco|screenshot %local.linespecific.class;">  

<!ENTITY % local.method.synop.class "">
<!ENTITY % method.synop.class
"constructorsynopsis
|destructorsynopsis
|methodsynopsis %local.method.synop.class;">  

<!ENTITY % local.synop.class "">
<!ENTITY % synop.class
"synopsis|cmdsynopsis|funcsynopsis
|classsynopsis|fieldsynopsis
|%method.synop.class; %local.synop.class;">  

<!ENTITY % local.para.class "">
<!ENTITY % para.class
"formalpara|para|simpara %local.para.class;">  

<!ENTITY % local.informal.class "">
<!ENTITY % informal.class
"address|blockquote
|graphic|graphicco|mediaobject|mediaobjectco
|informalequation
|informalexample
|informalfigure
|informaltable %local.informal.class;">
<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->

<!ENTITY % ebnf.block.hook "">

<!ENTITY % local.compound.class "">
<!ENTITY % compound.class "msgset|procedure|sidebar|qandaset %ebnf.block.hook; %local.compound.class;">

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class "anchor|bridgehead|remark|highlights %local.genobj.class;">

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class "abstract|authorblurb|epigraph %local.descobj.class;">

<!ENTITY % local.xref.char.class "">
<!ENTITY % xref.char.class "footnoteref|xref %local.xref.char.class;">

<!ENTITY % local.gen.char.class "">
<!ENTITY % gen.char.class "abbrev|acronym|citation|citerefentry|citetitle|emphasis |firstterm|foreignphrase|glossterm|footnote|phrase |quote|trademark|wordasword|personname %local.gen.char.class;">

<!ENTITY % local.link.char.class "">
<!ENTITY % link.char.class "link|olink|ulink %local.link.char.class;">

<!ENTITY % local.tech.char.class "">
<!ENTITY % tech.char.class "action|application"
<table>
<thead>
<tr>
<th>classname</th>
<th>methodname</th>
<th>interfacename</th>
<th>exceptionname</th>
</tr>
</thead>
<tbody>
<tr>
<td>ooclass</td>
<td>oointerface</td>
<td>ooexception</td>
<td></td>
</tr>
<tr>
<td>command</td>
<td>computeroutput</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>database</th>
<th>email</th>
<th>envvar</th>
<th>errorcode</th>
<th>errorname</th>
<th>errortype</th>
<th>errortext</th>
<th>filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>function</td>
<td>guibutton</td>
<td>guicon</td>
<td>guilabel</td>
<td>guimenu</td>
<td>guimenuitem</td>
<td>guikeycap</td>
<td>keycombo</td>
</tr>
<tr>
<td>menuchoice</td>
<td>mousebutton</td>
<td>option</td>
<td>optional</td>
<td>parameter</td>
<td>prompt</td>
<td>property</td>
<td>replaceable</td>
</tr>
</tbody>
</table>

%ebnf.inline.hook;
%local.tech.char.class;">

<!ENTITY % local.base.char.class "">
<!ENTITY % base.char.class "anchor %local.base.char.class;">

<!ENTITY % local.docinfo.char.class "">
<!ENTITY % docinfo.char.class "author|authorinitials|corpauthor|modespec|othercredit | productname|productnumber|revhistory %local.docinfo.char.class;">

<!ENTITY % local.other.char.class "">
<!ENTITY % other.char.class "remark|subscript|superscript %local.other.char.class;">

<!ENTITY % local.inlineobj.char.class "">
<!ENTITY % inlineobj.char.class "inlinegraphic|inlinemediaobject|inlineequation %local.inlineobj.char.class;">

<!-- ------------------------------- -->
<!-- Entities for content models ------------------------------- -->

<!ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- Redeclaration placeholder ------------------------------- -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbpool.redecl.module:]
<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">
%rdbpool;
<!--end of dbpool.redecl.module-->]]>
<!-- Object-level mixtures ................................................ -->

<!--
list admn line synp para infm form cmpd gen desc
Component mixture       X    X    X    X    X    X    X    X    X    X
Sidebar mixture         X    X    X    X    X    X    X    a    X
Footnote mixture        X    X    X    X    X
Example mixture         X    X    X    X    X
Highlights mixture      X    X    X
Paragraph mixture       X    X    X    X    X    X    X
Admonition mixture      X    X    X    X    X    X    b    c
Figure mixture          X    X    X
Table entry mixture     X    X    X    X    X    X    d
Glossary def mixture    X    X    X    X    X    e
Legal notice mixture    X    X    X    X    X    X    f
",

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix "%list.class;\%admon.class;
|\%linespecific.class;\%synop.class;
|\%para.class;\%informal.class;
|\%formal.class;\%compound.class;
|\%genobj.class;\%descobj.class;
|\%ndxterm.class;  \beginpage
\%local.component.mix;">
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

<-- The DocBook TC may produce an official forms module for DocBook. -->
<-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">

<!ENTITY % local.param.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class; |beginpage
 | %forminlines.hook;
 | %local.param.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%ndxterm.class;
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 190
<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib "conformanceNMTOKENS#IMPLIED">

<!ENTITY % os.attrib "osCDATA#IMPLIED">

<!ENTITY % revision.attrib "revisionCDATA#IMPLIED">

<!ENTITY % security.attrib "securityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib "userlevelCDATA#IMPLIED"
<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib "%arch.attrib; %condition.attrib; %conformance.attrib; %os.attrib; %revision.attrib; %security.attrib; %userlevel.attrib; %vendor.attrib; %local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->
<!-- Semi-common attributes and other attribute entities ................. -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib " 
entityref ENTITY #IMPLIED 
fileref CDATA #IMPLIED 
format (%notation.class;) #IMPLIED 
srccredit CDATA #IMPLIED 
width CDATA #IMPLIED 
contentwidth CDATA #IMPLIED 
depth CDATA #IMPLIED 
contentdepth CDATA #IMPLIED 
align (left |right |center) #IMPLIED 
valign (top |middle |bottom) #IMPLIED 
scale CDATA #IMPLIED 
scalefit %yesorno.attvals; #IMPLIED 
%local.graphics.attrib;" >

<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib "">
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix "honorific|firstname|surname|lineage|othername|affiliation |authorblurb|contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix "abbrev|abstract|address|artpagenums|author |authorgroup|authorinitials|bibliomisc|biblioset |collab|confgroup|contractnum|contractsponsor |copyright|corpauthor|corpname|date|edition |editor|invpartnumber|isbn|issn|issuenum|orgname |biblioid|citebiblioid|bibliosource|bibliorelationship|bibliocoverage| othercredit|pagenums|printhistory|productname |productnumber|pubdate|publisher|publishername |pubsnumber|releaseinfo|revhistory|seriesvolnums |subtitle|title|titleabbrev|volumenum|citetitle |personname|%person.ident.mix; |%ndxterm.class; |%local.bibliocomponent.mix;">

<!ENTITY % biblioentry.module "INCLUDE">
<!ATTLIST subjectset
schemeNM_TOKEN#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<!--end of subjectset.attlist-->
<!--end of subjectset.module-->

<!ENTITY % subject.module "INCLUDE">
<![%subject.module;]
<!ENTITY % local.subject.attrib "">
<!ENTITY % subject.role.attrib "%role.attrib;">

<!ENTITY % subject.element "INCLUDE">
<![%subject.element;]
<!ELEMENT subject %ho; (subjectterm+)>  
<!--end of subject.element-->

<!ENTITY % subject.attlist "INCLUDE">
<![%subject.attlist;]
<!ATTLIST subject
weightCDATA#IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
>
<!--end of subject.attlist-->
<!--end of subject.module-->

<!ENTITY % subjectterm.module "INCLUDE">
<![%subjectterm.module;]
<!ENTITY % local.subjectterm.attrib "">
<!ENTITY % subjectterm.role.attrib "%role.attrib;">

<!ENTITY % subjectterm.element "INCLUDE">
<![%subjectterm.element;]
<!ELEMENT subjectterm %ho; (#PCDATA)>  
<!--end of subjectterm.element-->

<!ENTITY % subjectterm.attlist "INCLUDE">
<![%subjectterm.attlist;]
<!ATTLIST subjectterm
%common.attrib;
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 212
<ENTITY % procedure.role.attrib "%role.attrib;">

<ENTITY % procedure.element "INCLUDE">
<![CDATA[
<ENTITY % procedure.element;]
<ELEMENT procedure %ho; (blockinfo?, (%formalobject.title.content;)?,
  (%component.mix;)*, step+)>
<![--end of procedure.element-->]]>

<ENTITY % procedure.attlist "INCLUDE">
<![CDATA[
<ENTITY % procedure.attlist;]
<ATTLIST procedure
  %common.attrib;
  %procedure.role.attrib;
  %local.procedure.attrib;
  >
<![--end of procedure.attlist-->]]>
<![--end of procedure.module-->]]>

<ENTITY % step.module "INCLUDE">
<![CDATA[
<ENTITY % step.module;]
<ENTITY % local.step.attrib "">
<ENTITY % step.role.attrib "%role.attrib;">

<ENTITY % step.element "INCLUDE">
<![CDATA[
<ENTITY % step.element;]
<ELEMENT step %ho; (title?, (((%component.mix;)+, (substeps,
  (%component.mix;)*))?) | (substeps, (%component.mix;)*)))>
<![--end of step.element-->]]>

<![-- Performance: Whether the Step must be performed -->
<![-- not #REQUIRED! -->

<ENTITY % step.attlist "INCLUDE">
<![CDATA[
<ENTITY % step.attlist;]
<ATTLIST step
  performance(optional
  |required)"required"
  %common.attrib;
  %step.role.attrib;
  %local.step.attrib;
  >
<![--end of step.attlist-->]]>
<![--end of step.module-->]]>

<ENTITY % substeps.module "INCLUDE">
<![CDATA[
<ENTITY % substeps.module;]
<ENTITY % local.substeps.attrib "">

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 213
<!-- Performance: whether entire set of substeps must be performed -->
<!-- not #REQUIRED! -->

<!-- Sidebar .......................... -->
<!-- Sidebarinfo ...................... -->

<!ENTITY % sidebarinfo.role.attrib "%role.attrib;">
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 216
<!ELEMENT blockquote %ho; (title?, attribution?, (%component.mix;)+)
    %blockquote.exclusion;>
<!--end of blockquote.element-->

<!ENTITY % blockquote.attlist "INCLUDE">
<![%blockquote.attlist;[
<!ATTLIST blockquote
%common.attrib;
%blockquote.role.attrib;
%local.blockquote.attrib;
>
<!--end of blockquote.attlist-->]]>
<!--end of blockquote.module-->]]>

<!ENTITY % attribution.module "INCLUDE">
<![%attribution.module;[
<!ENTITY % local.attribution.attrib "">
<!ENTITY % attribution.role.attrib "%role.attrib;">

<!ENTITY % attribution.element "INCLUDE">
<![%attribution.element;[
<!ELEMENT attribution %ho; (%para.char.mix;)*>
<!--end of attribution.element-->
]]>
<!ENTITY % attribution.attlist "INCLUDE">
<![%attribution.attlist;[
<!ATTLIST attribution
%common.attrib;
%attribution.role.attrib;
%local.attribution.attrib;
>
<!--end of attribution.attlist-->]]>
<!--end of attribution.module-->]]>

<!ENTITY % bridgehead.module "INCLUDE">
<![%bridgehead.module;[
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;">

<!ENTITY % bridgehead.element "INCLUDE">
<![%bridgehead.element;[
<!ELEMENT bridgehead %ho; (%title.char.mix;)*>
<!--end of bridgehead.element-->
]]>
<!-- Renderas: Indicates the format in which the BridgeHead
should appear -->
<!ENTITY % glosslist.module "INCLUDE">
<!ENTITY % glosslist.attrib "">
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "">
<!ENTITY % glosslist.element "INCLUDE">
<!ENTITY % glosslist.attlist "INCLUDE">
<!ENTITY % glossentry.content.module "INCLUDE">
<!ENTITY % glossentry.module "INCLUDE">
<!ENTITY % glossentry.element "INCLUDE">
<!ENTITY % glossentry.role.attrib "">
<!ENTITY % glossentry.content.attrib "">
<!ENTITY % glossentry.content.content.attrib "">

<!-- Lists ........................................ -->
<!-- GlossList ......................... -->

<!--end of glosslist.element-->

<!--end of glosslist.attlist-->

<!--end of glosslist.module-->

<!--end of glosslist.element->]]>

<!--end of glosslist.module->]]>

<!--end of glosslist.attlist->]]>

<!--end of glosslist.module->]]>

<!-- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -->
<ENTITY % itemizedlist.element "INCLUDE">
<![%itemizedlist.element;[
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (%listpreamble.mix;)*, listitem+)>
<!--end of itemizedlist.element-->
]]>

<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<ENTITY % itemizedlist.attlist "INCLUDE">
<![%itemizedlist.attlist;[
<!ATTLIST itemizedlist	spacing	(normal | compact)#IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>]
<!--end of itemizedlist.attlist-->
]]>

<!--end of itemizedlist.module-->
]

<!--end of orderedlist.module-->
]

<ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;[
<!ENTITY % local.orderedlist.attrib "";>
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<ENTITY % orderedlist.element "INCLUDE">
<![%orderedlist.element;[
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (%listpreamble.mix;)*, listitem+)>
<!--end of orderedlist.element-->
]]>

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->

<!--end of listitem.attlist-->

<!--end of listitem.element-->

<!--end of listitem.module-->

<!--end of listitem.role.attrib;-->
<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;]
<!ELEMENT simplelist %ho; (member+)>
<!-- end of simplelist.element-->>

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc.
inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns.  If Column
is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelistattlist;]
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline
|vert
|horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!-- end of simplelist.attlist-->>
<!-- end of simplelist.module-->>

<!ENTITY % member.module "INCLUDE">
<![%member.module;]
<!ENTITY % local.member.attrib ""->
<!ENTITY % member.role.attrib "%role.attrib;"->

<!ENTITY % member.element "INCLUDE">
<![%member.element;]
<!ELEMENT member %ho; (%para.char.mix;)*>
<!-- end of member.element-->>

<!ENTITY % member.attlist "INCLUDE">
<![%member.attlist;]
<!ATTLIST member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>
<!-- end of member.attlist-->>
<!-- end of member.module-->>
<!-- end of simplelist.content.module-->>
<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![%variablelist.content.module:]
<!ENTITY % variablelist.module "INCLUDE">
<![%variablelist.module:]
<!ENTITY % local.variablelist.attrib ""->
<!ENTITY % variablelist.role.attrib "%role.attrib;">

<!ENTITY % variablelist.element "INCLUDE">
<![%variablelist.element:]
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, varlistentry+)>
<!--end of variablelist.element-->
]

<!-- TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->

<!ENTITY % variablelist.attlist "INCLUDE">
<![%variablelist.attlist:]
<!ATTLIST variablelist
termlengthCDATA#IMPLIED
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<!--end of variablelist.attlist-->
]

<!ENTITY % varlistentry.module "INCLUDE">
<![%varlistentry.module:]
<!ENTITY % local.varlistentry.attrib ""->
<!ENTITY % varlistentry.role.attrib "%role.attrib;">

<!ENTITY % varlistentry.element "INCLUDE">
<![%varlistentry.element:]
<!ELEMENT varlistentry %ho; (term+, listitem)>
<!--end of varlistentry.element-->
]

<!ENTITY % varlistentry.attlist "INCLUDE">
<![%varlistentry.attlist:]
<!ATTLIST varlistentry
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
AreaRefs: IDs of one or more Areas or AreaSets described by this Callout

Examples etc. .................. -->

<!ENTITY % example.module "INCLUDE">  
<!%example.module;  
<!ENTITY % local.example.attrib "">  
<!ENTITY % example.role.attrib "%role.attrib;">  

<!ENTITY % example.element "INCLUDE">  
<!%example.element;  
<!ELEMENT example %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+)  
%formal.exclusion;>  
<!--end of example.element--->]]>  

<!ENTITY % example.attlist "INCLUDE">  
<!%example.attlist;  
<!ATTLIST example
<!- Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![CDATA[
<!ATTLIST areaspec
units (calspair | linecolumn
]]>
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!--end of area.module-->
]]>

<!--end of area.element-->
]]>

<!--end of area.attlist-->
]]>

<!--end of area.module-->
]]>

<!ENTITY % areaset.module "INCLUDE">
Figures etc. ........................

<!-- Float: Whether the Figure is supposed to be rendered
where convenient (yes (1) value) or at the place it occurs
in the text (no (0) value, the default) -->

float%yesorno.attvals;0'
pgwide  %yesorno.attvals;  #IMPLIED
<![--end of mediaobjectco.module--]]>

<!ENTITY % imageobjectco.module "INCLUDE">
<![]%imageobjectco.module;[
<!ENTITY % local.imageobjectco.attrib "">
<!ENTITY % imageobjectco.role.attrib "%role.attrib;">}

<!ENTITY % imageobjectco.element "INCLUDE">
<![]%imageobjectco.element;[
<!ELEMENT imageobjectco %ho; (areaspec, imageobject, calloutlist*)>
<!--end of imageobjectco.element--]>]

<!ENTITY % imageobjectco.attlist "INCLUDE">
<![]%imageobjectco.attlist;[
<!ATTLIST imageobjectco
%common.attrib;
%imageobjectco.role.attrib;
%local.imageobjectco.attrib;
>}
<!--end of imageobjectco.attlist--]>]
<!--end of imageobjectco.module--]>]
<!--end of mediaobject.content.module--]>]

<!-- Equations ........................ -->
<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+))">
<!ENTITY % inlineequation.content "(alt?, (graphic+|linemediaobject+))">

<!ENTITY % equation.module "INCLUDE">
<![]%equation.module;[
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;">}

<!ENTITY % equation.element "INCLUDE">
<![]%equation.element;[
<!ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?,
(informequation | %equation.content;)),
(informequation | %equation.content;))>
<!--end of equation.element--]>]

<!ENTITY % equation.attlist "INCLUDE">
<![]%equation.attlist;[
<!ATTLIST equation
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
<!--end of table.module-->]]>

<!ENTITY % informaltable.module "INCLUDE">
<![%informaltable.module;]

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib "">

<!ENTITY % informaltable.element "INCLUDE">
<![%informaltable.element;[
<!ELEMENT informaltable %ho; (blockinfo?, textobject*, (graphic+|mediaobject+|tgroup+))>
<!--end of informaltable.element--]]>

<!-- Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry, Orient, PgWide -->
<!-- includes Label -->
<!-- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE">
<![%informaltable.attlist;[
<!ATTLIST informaltable
frame		(top
|bottom
|topbot
|all
|sides
|none)#IMPLIED
colsep%yesorno.attvals;#IMPLIED
rowsep%yesorno.attvals;#IMPLIED
%common.table.attrs;
%dbl.table.att;
%local.informaltable.attrib;
>
<!--end of informaltable.attlist--]]>
<!--end of informaltable.module--]]>

<!-- ...................................................................... -->
<!-- Synopses ............................................................. -->
<!-- Synopsis ......................... -->

<!ENTITY % synopsis.module "INCLUDE">

<!-- Synopsis }-->
<!ENTITY % void.module "INCLUDE">
<![void.module;]
<!ENTITY % local.void.attrib "">
<!ENTITY % void.role.attrib "%role.attrib;">

<!ENTITY % void.element "INCLUDE">
<![void.element;]
<!ELEMENT void %ho; EMPTY>
<!--end of void.element-->
]

<!ENTITY % void.attlist "INCLUDE">
<![void.attlist;]
<!ATTLIST void
%common.attrib;
%void.role.attrib;
%local.void.attrib;
>
<!--end of void.attlist-->
]

<!ENTITY % varargs.module "INCLUDE">
<![varargs.module;]
<!ENTITY % local.varargs.attrib "">
<!ENTITY % varargs.role.attrib "%role.attrib;">

<!ENTITY % varargs.element "INCLUDE">
<![varargs.element;]
<!ELEMENT varargs %ho; EMPTY>
<!--end of varargs.element-->
]

<!ENTITY % varargs.attlist "INCLUDE">
<![varargs.attlist;]
<!ATTLIST varargs
%common.attrib;
%varargs.role.attrib;
%local.varargs.attrib;
>
<!--end of varargs.attlist-->
]

<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![paramdef.module;]
<!-- The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!-- Ackno ...................... -->

<!ENTITY % ackno.module "INCLUDE">
<![%ackno.module;
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">

<!ENTITY % ackno.element "INCLUDE">
<![%ackno.element;
<!ELEMENT ackno %ho; (%docinfo.char.mix;)*>
<!--end of ackno.element-->
]

<!ENTITY % ackno.attlist "INCLUDE">
<![%ackno.attlist;
<!ATTLIST ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<!--end of ackno.attlist-->]]>
<!--end of ackno.module-->]]>

<!-- Address ................. -->

<!ENTITY % address.content.module "INCLUDE">
<![%address.content.module;
<!ENTITY % address.module "INCLUDE">
<![%address.module;
<!ENTITY % local.address.attrib "">
<!ENTITY % address.role.attrib "%role.attrib;">

<!ENTITY % address.element "INCLUDE">
<![%address.element;
<!ELEMENT address %ho; (#PCDATA|personname|%person.ident.mix; |street|pob|postcode|city|state|country|phone |fax|email|otheraddr)*>
<!--end of address.element-->]]>
<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode 
%common.attrib; 
%postcode.role.attrib; 
%local.postcode.attrib; 
>
<!--end of postcode.attlist-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist;]
<!ATTLIST city 
%common.attrib; 
%city.role.attrib; 
%local.city.attrib; 
>
<!--end of city.attlist-->

<!ENTITY % state.module "INCLUDE">
<![%state.module;]
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;"> 

--end of pob.attlist-->

--end of pob.module-->

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode 
%common.attrib; 
%postcode.role.attrib; 
%local.postcode.attrib; 
>
<!--end of postcode.attlist-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist;]
<!ATTLIST city 
%common.attrib; 
%city.role.attrib; 
%local.city.attrib; 
>
<!--end of city.attlist-->

<!ENTITY % state.module "INCLUDE">
<![%state.module;]
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;"> 

--end of pob.module-->

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode 
%common.attrib; 
%postcode.role.attrib; 
%local.postcode.attrib; 
>
<!--end of postcode.attlist-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist;]
<!ATTLIST city 
%common.attrib; 
%city.role.attrib; 
%local.city.attrib; 
>
<!--end of city.attlist-->

<!ENTITY % state.module "INCLUDE">
<![%state.module;]
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;"> 

--end of pob.module-->

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode 
%common.attrib; 
%postcode.role.attrib; 
%local.postcode.attrib; 
>
<!--end of postcode.attlist-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist;]
<!ATTLIST city 
%common.attrib; 
%city.role.attrib; 
%local.city.attrib; 
>
<!--end of city.attlist-->

<!ENTITY % state.module "INCLUDE">
<![%state.module;]
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;"> 

--end of pob.module-->

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode 
%common.attrib; 
%postcode.role.attrib; 
%local.postcode.attrib; 
>
<!--end of postcode.attlist-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist;]
<!ATTLIST city 
%common.attrib; 
%city.role.attrib; 
%local.city.attrib; 
>
<!--end of city.attlist-->

<!ENTITY % state.module "INCLUDE">
<![%state.module;]
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;"> 

--end of pob.module-->

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode 
%common.attrib; 
%postcode.role.attrib; 
%local.postcode.attrib; 
>
<!--end of postcode.attlist-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist;]
<!ATTLIST city 
%common.attrib; 
%city.role.attrib; 
%local.city.attrib; 
>
<!--end of city.attlist-->

<!ENTITY % state.module "INCLUDE">
<![%state.module;]
<!ENTITY % local.state.attrib " -->
%common.attrib;
%issuenum.role.attrib;
%local.issuenum.attrib;
>
<!--end of issuenum.attlist-->
<!--end of issuenum.module-->

<!-- LegalNotice ...................... -->
<!ENTITY % legalnotice.module "INCLUDE">
<!][%legalnotice.module:
<!ENTITY % local.legalnotice.attrib "">
<!ENTITY % legalnotice.role.attrib "%role.attrib;">

<!--ENTITY % legalnotice.element "INCLUDE">
<!][%legalnotice.element:
<!ELEMENT legalnotice %ho; (blockinfo?, title?, (%legalnotice.mix;)+)
%formal.exclusion;>
<!--end of legalnotice.element-->

<!--Application: Type of action required for completion of the links to which the ModeSpec is relevant (e.g., retrieval query) -->
<!ENTITY % othercredit.attlist "INCLUDE">
<![%othercredit.attlist;[
<!ATTLIST othercredit
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
>
<!--end of othercredit.attlist-->]]>
<!--(see "Personal identity elements" for %person.ident.mix;)-->
<!--end of othercredit.module-->]]>

<!-- PageNums ......................... -->

<!ENTITY % pagenums.module "INCLUDE">
<![%pagenums.module;[
<!ENTITY % local.pagenums.attrib "">
<!ENTITY % pagenums.role.attrib "%role.attrib;">

<!ENTITY % pagenums.element "INCLUDE">
<![%pagenums.element;[
<!ELEMENT pagenums %ho; (%docinfo.char.mix;)>]
<!--end of pagenums.element-->]]>

<!ENTITY % pagenums.attlist "INCLUDE">
<![%pagenums.attlist;[
<!ATTLIST pagenums
%common.attrib;
%pagenums.role.attrib;
%local.pagenums.attrib;
>
<!--end of pagenums.attlist-->]]>
<!--end of pagenums.module-->]]>

<!-- Personal identity elements ....... -->

<!-- These elements are used only within Author, Editor, and
OtherCredit. -->

<!ENTITY % person.ident.module "INCLUDE">
<![%person.ident.module;[
<!ENTITY % contrib.module "INCLUDE">
<![%contrib.module;[
<!ENTITY % local.contrib.attrib "">
<!ENTITY % contrib.role.attrib "%role.attrib;">

<!ENTITY % contrib.element "INCLUDE">
<![%contrib.element;]

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 294
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>

<!-- Publisher ------------------------

<!ENTITY % publishercontent.module "INCLUDE">
<![% publishercontent.module;]
<!ENTITY % publisher.module "INCLUDE">
<![% publisher.module;]
<!ENTITY % local.publisher.attrib ">
<!ENTITY % publisher.role.attrib ">%role.attrib;"

<!ENTITY % publisher.element "INCLUDE">
<![% publisher.element;]
<!ELEMENT publisher %ho; (publishername, address*)>
<!!--end of publisher.element-->]]>

<!ENTITY % publisher.attlist "INCLUDE">
<![% publisher.attlist;]
<!ATTLIST publisher
%common.attrib;
%publisher.role.attrib;
%local.publisher.attrib;
>
<!!--end of publisher.attlist-->]]>
<!!--end of publisher.module-->]]>

<!ENTITY % publishername.module "INCLUDE">
<![% publishername.module;]
<!ENTITY % local.publishername.attrib ">
<!ENTITY % publishername.role.attrib ">%role.attrib;"

<!ENTITY % publishername.element "INCLUDE">
<![% publishername.element;]-->
<!ENTITY % local.classname.attrib "">
<!ENTITY % classname.role.attrib "%role.attrib;">

<!ENTITY % classname.element "INCLUDE">
<![%classname.element;]
<ELEMENT classname %ho; (%smallcptr.char.mix;)*>
<!--end of classname.element-->
]]>

<!ENTITY % classname.attlist "INCLUDE">
<![%classname.attlist;]
<!ATTLIST classname
%common.attrib; %classname.role.attrib; %local.classname.attrib;>
<![--end of classname.attlist--]]>
<![--end of classname.module--]]>

<!ENTITY % co.module "INCLUDE">
<![%co.module;]
<!ENTITY % local.co.attrib "">
<!ENTITY % co.module "INCLUDE">
<![%co.module;]
<!ENTITY % co.role.attrib "%role.attrib;">
<!ENTITY % co.element "INCLUDE">
<![%co.element;]
<!ELEMENT co %ho; EMPTY>
<![--end of co.element--]]>

<!-- bug number/symbol override or initialization -->
<![-- to any related information -->

<!ENTITY % co.attlist "INCLUDE">
<![%co.attlist;]
<!ATTLIST co
%label.attrib; %linkends.attrib; %idreq.common.attrib; %co.role.attrib; %local.co.attrib;>
<![--end of co.attlist--]]>
<![--end of co.module--]]>

<!ENTITY % coref.module "INCLUDE">
<![%coref.module;]
<!ENTITY % errortext.role.attrib; %local.errortext.attrib; >
<!--end of errortext.attlist-->]]>
<!--end of errortext.module-->]]>

<!ENTITY % errortype.module "INCLUDE">
<![[%errortype.module;]
<!ENTITY % local.errortype.attrib "">
<!ENTITY % errortype.role.attrib "%role.attrib;">

<!ENTITY % errortype.element "INCLUDE">
<![[%errortype.element;]
<!ELEMENT errortype %ho; (%smallcptr.char.mix;)*>
<!--end of errortype.element-->]]>

<!ENTITY % errortype.attlist "INCLUDE">
<![[%errortype.attlist;]
<!ATTLIST errortype %common.attrib; %errortype.role.attrib; %local.errortype.attrib; >
<!--end of errortype.attlist-->]]>
<!--end of errortype.module-->]]>

<!ENTITY % filename.module "INCLUDE">
<![[%filename.module;]
<!ENTITY % local.filename.attrib "">
<!ENTITY % filename.role.attrib "%role.attrib;">

<!ENTITY % filename.element "INCLUDE">
<![[%filename.element;]
<!ELEMENT filename %ho; (%cptr.char.mix;)*>
<!--end of filename.element-->]]>

<!ENTITY % filename.attlist "INCLUDE">
<![[%filename.attlist;]
<!ATTLIST filename class(headerfile |partition |devicefile |libraryfile

<ENTITY % replaceable.attlist "INCLUDE">
<!ATTLIST replaceable class(command
| function
| option
| parameter)#IMPLIED
%common.attrib;
%replaceable.role.attrib;
%local.replaceable.attrib;
>
<!--end of replaceable.attlist-->]]>
<!--end of replaceable.module-->]]>
</ENTITY % returnvalue.module "INCLUDE">
<!ENTITY % local.returnvalue.attrib ">
<!ENTITY % returnvalue.role.attrib ">"%
<!ENTITY % returnvalue.element "INCLUDE">
<!ELEMENT returnvalue %ho; (%smallcptr.char.mix;)*>
<!--end of returnvalue.element-->
<!ENTITY % returnvalue.attlist "INCLUDE">
<!ATTLIST returnvalue %common.attrib;
%returnvalue.role.attrib;
%local.returnvalue.attrib;
>
<!--end of returnvalue.attlist-->
<!--end of returnvalue.module-->]]>
</ENTITY % sgmltag.module "INCLUDE">
<!ENTITY % local.sgmltag.attrib "">
<!-- Class: Type of symbol; no default -->

<!-- Start of structfield.module-->
<!ENTITY % structname.module "INCLUDE">
<![%structname.module;]
<!ENTITY % local.structname.attrib "">
<!ENTITY % structname.role.attrib "%role.attrib;">

<!ENTITY % structname.element "INCLUDE">
<![%structname.element;]
<!ELEMENT structname %ho; (%smallcptr.char.mix;)*>
<!--end of structname.element-->

<!ENTITY % structname.attlist "INCLUDE">
<![%structname.attlist;]
<!ATTLIST structname
%common.attrib;
%structname.role.attrib;
%local.structname.attrib;
>
<!--end of structname.attlist-->

<!-- Start of structname.module-->
<!--end of structfield.attlist-->

<!-- Start of symbol.module-->
<!ENTITY % symbol.module "INCLUDE">
<![%symbol.module;]
<!ENTITY % local.symbol.attrib "">
<!ENTITY % symbol.role.attrib "%role.attrib;">

<!ENTITY % symbol.element "INCLUDE">
<![%symbol.element;]
<!ELEMENT symbol %ho; (%smallcptr.char.mix;)*>
<!--end of symbol.element-->

<!ENTITY % symbol.attlist "INCLUDE">
<![%symbol.attlist;]
<!ATTLIST symbol
class(limit)#IMPLIED
%common.attrib;
%symbol.role.attrib;
%local.symbol.attrib;
>
<!--end of symbol.attlist-->

<!--end of symbol.module-->
<![考虑到以下用户输入的属性]>
<!-- to GlossEntry or other explanation -->

<!ENTITY % firstterm.attlist "INCLUDE">
<![%firstterm.attlist:[
<!ATTLIST firstterm
%linkend.attrib;%common.attrib;
%firstterm.role.attrib;
%local.firstterm.attrib;
>
<!--end of firstterm.attlist-->]]>
<!--end of firstterm.module-->]]>

<!ENTITY % foreignphrase.module "INCLUDE">
<![%foreignphrase.module:[
<!ENTITY % local.foreignphrase.attrib "">
<!ENTITY % foreignphrase.role.attrib "%role.attrib;">  
<!ENTITY % foreignphrase.element "INCLUDE">
<![%foreignphrase.element:[
<!ELEMENT foreignphrase %ho; (%para.char.mix;)*>
<!--end of foreignphrase.element-->]]>
<!ENTITY % foreignphrase.attlist "INCLUDE">
<![%foreignphrase.attlist:[
<!ATTLIST foreignphrase
%common.attrib;
%foreignphrase.role.attrib;
%local.foreignphrase.attrib;
>
<!--end of foreignphrase.attlist-->]]>
<!--end of foreignphrase.module-->]]>

<!ENTITY % glossterm.module "INCLUDE">
<![%glossterm.module:[
<!ENTITY % local.glossterm.attrib "">
<!ENTITY % glossterm.role.attrib "%role.attrib;">  
<!ENTITY % glossterm.element "INCLUDE">
<![%glossterm.element:[
<!ELEMENT glossterm %ho; (%para.char.mix;)*
%glossterm.exclusion;>
<!--end of glossterm.element-->]]>

<!-- to GlossEntry if GlossTerm used in text -->
<!-- BaseForm: Provides the form of GlossTerm to be used
for indexing -->
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  337
<!ENTITY % olink.element "INCLUDE">
<!ELEMENT olink %ho; (%para.char.mix;)*
%links.exclusion;>
<!ENTITY % olink.attlist "INCLUDE">
<!ATTLIST olink

targetdocent ENTITY #IMPLIED
linkmode IDREF #IMPLIED
localinfo CDATA #IMPLIED
type CDATA #IMPLIED
targetdoc CDATA #IMPLIED
targetptr CDATA #IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
>  
<!ENTITY % ulink.element "INCLUDE">
<!ELEMENT ulink %ho; (%para.char.mix;)*
%links.exclusion;>
<!ENTITY % ulink.attlist "INCLUDE">
<!ENTITY % local.ulink.attrib "">
<!ENTITY % ulink.role.attrib "%role.attrib;">
<!ENTITY % xref.attlist "INCLUDE">
<![%xref.attlist;]
<!ATTLIST xref
dendmIDREF#IMPLIED
%linkendreq.attrib;%common.attrib;
%xref.role.attrib;
%local.xref.attrib;
>
<!--end of xref.attlist--> ]>
<!--end of xref.module--> ]>

<!-- Ubiquitous elements .................................................. -->

<!ENTITY % anchor.module "INCLUDE">
<![%anchor.module;]
<!ENTITY % local.anchor.attrib "">
<!ENTITY % anchor.role.attrib "%role.attrib;"> 

<!ENTITY % anchor.element "INCLUDE">
<![%anchor.element;]
<!ELEMENT anchor %ho; EMPTY>
<!--end of anchor.element--> ]>

<!-- required -->
<!-- replaces Lang -->

<!ENTITY % anchor.attlist "INCLUDE">
<![%anchor.attlist;]
<!ATTLIST anchor
%idreq.attrib;%pagenum.attrib;%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%anchor.role.attrib;
%local.anchor.attrib;
>
<!--end of anchor.attlist--> ]>
<!--end of anchor.module--> ]>

<!ENTITY % beginpage.module "INCLUDE">
<![%beginpage.module;]
<!ENTITY % local.beginpage.attrib "">
<!ENTITY % beginpage.role.attrib "%role.attrib;">
elements rather than the point at which the IndexTerm occurs -->

<!--begin of indexterm.attlist-->
<!ENTITY % indexterm.attlist "INCLUDE">
<!--end of indexterm.attlist-->

<!--begin of indexterm.module-->
<!ENTITY % primsecter.module "INCLUDE">
<!--end of indexterm.module-->

<!--begin of primary.element-->
<!ENTITY % primary.element "INCLUDE">
<!--end of primary.element-->

<!--begin of primary.attlist-->
<!ENTITY % primary.attlist "INCLUDE">
<!--end of primary.attlist-->

<!-- SortAs: Alternate sort string for index sorting, e.g., "fourteen" for an element containing "14" -->

<!--end of indexterm.attlist-->
<![%.indexterm.attlist;]
<!ATTLIST indexterm
%pagenum.attrib;
scope(all
|global
|local)#IMPLIED
significance(preferred
|normal)"normal"
class(singular
|startofrange
|endofrange)#IMPLIED
startrefIDREF#IMPLIED
zoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
>
<![-end of indexterm.attlist--]>]]>
<![-end of indexterm.module--]>]]>

<!ENTITY % primsecter.module "INCLUDE">
<!--end of primsecter.module-->

<!ENTITY % local.primsecter.attrib "">
<!ENTITY % primsecter.role.attrib "%role.attrib;">

<!ENTITY % primary.element "INCLUDE">
<!--end of primary.element-->

<!ENTITY % primary.attlist "INCLUDE">
<!--end of primary.attlist-->

<!ATTLIST primary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<![-end of primary.attlist--]>]]>
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->
<!-- DocBook XML document hierarchy module V4.1.2 ................................ -->
<!-- File dbhierx.mod ................................................................. -->


Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/

<!-- ...................................................................... -->
<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as -->
man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
 "-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.1.2//EN"
 "dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">
```

```xml
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">
```

```xml
<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">
```

```xml
<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">
```

```xml
<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">
```

```xml
<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">
```

```xml
<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">
```
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 356
<!ENTITY % chapter.role.attrib;>
<!ENTITY % local.chapter.attrib;>
>
<!--end of chapter.attlist-->
<!--end of chapter.module-->
<!ENTITY % part.module "INCLUDE">
<![%part.module;]

<!-- Note that Part was to have its content model reduced in V4.1.2. This change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;]
<!--ELEMENT part (partinfo?, (%bookcomponent.title.content;), partintro?, (%partcontent.mix;)+)>
<![--end of part.element--]]>

<!-- Note that Part was to have its content model reduced in V4.1.2. This change will not be made after all. -->

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;]
<!ATTLIST part %label.attrib;
%status.attrib;
%common.attrib;
%part.role.attrib;
%local.part.attrib;
>
<!--end of part.attlist-->
<!--end of part.module-->

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;]
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;]
<!--ELEMENT preface (prefaceinfo?,
(,%bookcomponent.title.content;),
(,%nav.class;)*,
tocchaps?,
(,%bookcomponent.content;),
(,%nav.class;)*)>
<![--end of preface.element--]]>
%common.attrib;
%refmeta.role.attrib;
%local.refmeta.attrib;
>
<!--end of refmeta.attlist-->

<!ENTITY % refmiscinfo.module "INCLUDE">
<![refmiscinfo.module:]
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![refmiscinfo.element:]
<!ELEMENT refmiscinfo (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->

<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![refmiscinfo.attlist:]
<!ATTLIST refmiscinfo
classCDATA#IMPLIED
%common.attrib;
%refmiscinfo.role.attrib;
%local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->

<!ENTITY % refnamediv.module "INCLUDE">
<![refnamediv.module:]
<!ENTITY % local.refnamediv.attrib "">
<!ENTITY % refnamediv.role.attrib "%role.attrib;">

<!ENTITY % refnamediv.element "INCLUDE">
<![refnamediv.element:]
<!ELEMENT refnamediv (refdescriptor?, refname+, refpurpose, refclass*,
(remark|%link.char.class;)*)>
<!--end of refnamediv.element-->

<!ENTITY % refnamediv.attlist "INCLUDE">
<![refnamediv.attlist:]
<!ATTLIST refnamediv
%common.attrib;
%refnamediv.role.attrib;
%local.refnamediv.attrib;
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

Class: Indicates the type of a particular article; all articles have the same structure and general purpose.
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.4.zip-cosi-expand-archive-3gSi1JTU/calstblx.dtd
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.4.zip-cosi-expand-archive-RFakgFDg/calstblx.dtd

No license file was found, but licenses were detected in source scan.

<!- DocBook notations module V4.2 ---------------------------------->  
<!- File dbnotnx.mod -------------------------------->  

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software  
Corporation, Norman Walsh, Sun Microsystems, Inc., and the  
Organization for the Advancement of Structured Information Standards (OASIS).  


Permission to use, copy, modify and distribute the DocBook DTD  
and its accompanying documentation for any purpose and without fee  
is hereby granted in perpetuity, provided that the above copyright  
notice and this paragraph appear in all copies. The copyright  
holders make no representation about the suitability of the DTD for  
any purpose. It is provided "as is" without expressed or implied  
waarnty.  

If you modify the DocBook DTD in any way, except for declaring and  
referencing additional sets of general entities and declaring  
additional notations, label your DTD as a variant of DocBook. See  
the maintenance documentation for more information.  

Please direct all questions, bug reports, or suggestions for  
changes to the docbook@lists.oasis-open.org mailing list. For more  
information, see http://www.oasis-open.org/docbook/.  

<!- This module contains the entity declarations for the standard ISO  
entity sets used by DocBook.  

In DTD driver files referring to this module, please use an entity  
declaration that uses the public identifier shown below:  

<!ENTITY % dbnotn PUBLIC
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.3//EN"
"dbpoolx.mod">
%dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
Component mixture       X    X    X    X    X    X    X    X    X    X
Sidebar mixture         X    X    X    X    X    X    X    a    X
Footnote mixture        X         X    X    X    X
Example mixture        X    X    X    X    X
Highlights mixture     X    X    X
Paragraph mixture       X         X    X         X
Admonition mixture      X         X    X    X    X    X    b    c
Figure mixture          X    X    X
Table entry mixture     X    X    X    X    d
glossary def mixture    X    X    X    X    e
Legal notice mixture    X    X    X    X    f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

```
<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%compound.class;
%genobj.class;%descobj.class;
%ndxterm.class; |beginpage
%local.component.mix;"> 

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;|procedure
%genobj.class;
%ndxterm.class; |beginpage
%local.sidebar.mix;"> 

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix
"%list.class; |%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;|procedure
%genobj.class;
%ndxterm.class; |beginpage
%local.qandaset.mix;"> 
```
<!ENTITY % blockquote.exclusion "">
<!ENTITY % remark.exclusion "">
<!ENTITY % glossterm.exclusion "">
<!ENTITY % links.exclusion "">
<!-- 
[36x36]Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  401
[91x791]<!ENTITY % blockquote.exclusion "">
[91x776]<!ENTITY % remark.exclusion "">
[91x761]<!ENTITY % glossterm.exclusion "">
[91x746]<!ENTITY % links.exclusion "">
[91x731]<!-- 
[91x686]#PCD xref word link cptr base dnfo othr inob (synop)
[91x671]para.char.mix         X    X    X    X    X    X    X    X    X
[91x656]title.char.mix        X    X    X    X    X    X    X    X    X
[91x641]ndxterm.char.mix      X    X    X    X    X    X    X    X    a
[91x626]cptr.char.mix         X              X    X    X         X    a
[91x611]smallcptr.char.mix    X                   b                   a
[91x596]word.char.mix         X         c    X         X         X    a
[91x581]docinfo.char.mix      X         d    X    b              X    a

a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.
-->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class|%gen.char.class;
|%link.char.class|%tech.char.class;
|%base.char.class|%docinfo.char.class;
|%other.char.class|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class; |beginpage
   |forminlines.hook;
%local.para.char.mix;"">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class|%gen.char.class;
|%link.char.class|%tech.char.class;
|%base.char.class|%docinfo.char.class;
|%other.char.class|%inlineobj.char.class;
|%ndxterm.class;
%local.title.char.mix;"->
<!-- Entities for attributes and attribute components .................. -->

<!-- Effectivity attributes ............................................. -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib
  "archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
  "conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
  "conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
  "osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
  "revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
  "securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
  "userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->
<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib ">
<!ENTITY % effectivity.attrib %arch.attrib;
  %condition.attrib;
  %conformance.attrib;
  %os.attrib;
  %revision.attrib;
  %security.attrib;
  %userlevel.attrib;
  %vendor.attrib;
  %local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib>
"roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib
"xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib
"revisionflag(changed
|added
|deleted
|off)#IMPLIED">

<!ENTITY % local.common.attrib "">

<!-- dir: Bidirectional override -->

<!ENTITY % dir.attrib
"dirltr
|rtl
|tro|rlo)#IMPLIED">

<!-- xml:base: base URI -->

<!ENTITY % xml-base.attrib
"xml:baseCDATA#IMPLIED">

<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xmllbase.attrib;
%local.common.attrib;" >
<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xml-base.attrib;
%local.common.attrib;">

<!-- Semi-common attributes and other attribute entities ................. -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib "
entityrefENTITY#IMPLIED
fileref CDATA#IMPLIED
format(%notation.class;) #IMPLIED
srccreditCDATA#IMPLIED
widthCDATA#IMPLIED
contentwidthCDATA#IMPLIED
depthCDATA#IMPLIED
contentdepthCDATA#IMPLIED
align(left
|right
|center)#IMPLIED
valign(top
|middle
|bottom)#IMPLIED
<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib "action	(click|double-click|press|seq|simul|other)#IMPLIED otheractionCDATA#IMPLIED %local.keyaction.attrib;" >

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA#IMPLIED">

<!-- Format: whether element is assumed to contain significant white space -->

<!ENTITY % linespecific.attrib "formatNOTATION(linespecific)'linespecific' linenumbering(numbered|unnumbered)#IMPLIED continuation(continues|restarts)#IMPLIED startinglinenumberCDATA#IMPLIED languageCDATA#IMPLIED">

<!-- Linkend: link to related information; no default -->

<!ENTITY % linkend.attrib "linkendIDREF#IMPLIED">
"widthCDATA#IMPLIED">

<!-- .............................................................. -->
<!-- Title elements ............................................... -->

<!ENTITY % title.module "INCLUDE">
<![%title.module;]
<!ENTITY % local.title.attrib "">
<!ENTITY % title.role.attrib "%role.attrib;">  

<!ENTITY % title.element "INCLUDE">
<![%title.element;]
<!ELEMENT title %ho; (%title.char.mix;)*>
<![!--end of title.element-->]]>

<!ENTITY % title.attlist "INCLUDE">
<![%title.attlist;]
<!ATTLIST title
%pagenum.attrib;
%common.attrib;
%title.role.attrib;
%local.title.attrib;
>  
<![!--end of title.attlist-->]]  
<![!--end of title.module-->]]>

<!ENTITY % titleabbrev.module "INCLUDE">
<![%titleabbrev.module;]
<!ENTITY % local.titleabbrev.attrib "">
<!ENTITY % titleabbrev.role.attrib "%role.attrib;">  

<!ENTITY % titleabbrev.element "INCLUDE">
<![%titleabbrev.element;]
<!ELEMENT titleabbrev %ho; (%title.char.mix;)*>
<![!--end of titleabbrev.element-->]]>

<!ENTITY % titleabbrev.attlist "INCLUDE">
<![%titleabbrev.attlist;]
<!ATTLIST titleabbrev
%common.attrib;
%titleabbrev.role.attrib;
%local.titleabbrev.attrib;
>  
<![!--end of titleabbrev.attlist-->]]  
<![!--end of titleabbrev.module-->]]>

<!ENTITY % subtitle.module "INCLUDE">
<![%subtitle.module;]
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.

The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.

I don't think this is well placed, but it needs to be here because of...
<!-- the reference to bibliocomponent.mix -->
<!ENTITY % local.info.class "">
<!ENTITY % info.class "graphic | mediaobject | legalnotice | modespec | subjectset | keywordset | itemset | %bibliocomponent.mix; %local.info.class;">

<!ENTITY % biblioentry.module "INCLUDE"><![%biblioentry.module;[]
<!ENTITY % local.biblioentry.attrib "">
<!ENTITY % biblioentry.role.attrib "%role.attrib;">

<!ENTITY % biblioentry.element "INCLUDE"><![%biblioentry.element;[]
<!ELEMENT biblioentry %ho; ((articleinfo | (%bibliocomponent.mix;))+ %ubiq.exclusion;>
<!--end of biblioentry.element-->
]
]
]
]

<!ENTITY % bibliomixed.module "INCLUDE"><![%bibliomixed.module;[]
<!ENTITY % local.bibliomixed.attrib "">
<!ENTITY % bibliomixed.role.attrib "%role.attrib;">

<!ENTITY % bibliomixed.element "INCLUDE"><![%bibliomixed.element;[]
<!ELEMENT bibliomixed %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)* %ubiq.exclusion;>
<!--end of bibliomixed.element-->
]
]
]
]

<!ENTITY % bibliomixed.attlist "INCLUDE"><![%bibliomixed.attlist;[
<!ATTLIST biblioentry %common.attrib; %biblioentry.role.attrib; %local.biblioentry.attrib; >
<!--end of biblioentry.attlist-->]]>
<!--end of biblioentry.module-->]]>

<!ENTITY % bibliomixed.module "INCLUDE"><![%bibliomixed.module;[]
<!ENTITY % local.bibliomixed.attrib "">
<!ENTITY % bibliomixed.role.attrib "%role.attrib;">

<!ENTITY % bibliomixed.element "INCLUDE"><![%bibliomixed.element;[]
<!ELEMENT bibliomixed %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)* %ubiq.exclusion;>
<!--end of bibliomixed.element-->
]
]
]
]

<!ENTITY % bibliomixed.attlist "INCLUDE"><![%bibliomixed.attlist;[
<!ATTLIST biblioentry %common.attrib; %biblioentry.role.attrib; %local.biblioentry.attrib; >
<!--end of bibliomixed.attlist-->]]>
<!--end of bibliomixed.module-->]]>
<!ELEMENT msgentry %ho; (msg+, msginfo?, msgexplan*)>
<!ENTITY % msgentry.attlist "INCLUDE">
<!ATTLIST msgentry
%common.attrib;
%msgentry.role.attrib;
%local.msgentry.attrib;
>
<!ENTITY % msg.module "INCLUDE">
<!ENTITY % msg.attrib "">
<!ENTITY % msg.role.attrib "">
<!ENTITY % msg.element "INCLUDE">
<!ENTITY % msg.attlist "">
<!-- Procedure ........................ -->

<!ENTITY % procedure.content.module "INCLUDE">
<![CDATA[
<!ENTITY % procedure.module "INCLUDE">
<![CDATA[
<!ENTITY % local.procedure.attrib "">
<!ENTITY % procedure.role.attrib "%role.attrib;">

<!ENTITY % procedure.element "INCLUDE">
<![CDATA[
<!ELEMENT procedure %ho; (blockinfo?, (%formalobject.title.content;)?,
((%component.mix;)*, step+)>

<!ENTITY % procedure.attlist "INCLUDE">
<![CDATA[
<!ATTLIST procedure %common.attrib;
%procedure.role.attrib;
%local.procedure.attrib;
>
<![CDATA[
<!ENTITY % step.module "INCLUDE">
<![CDATA[
<!ENTITY % local.step.attrib "">
<!ENTITY % step.role.attrib "%role.attrib;">

<!ENTITY % step.element "INCLUDE">
<![CDATA[
<!ELEMENT step %ho; (title?, (((%component.mix;)+, ((substeps|stepalternatives), (%component.mix;)*?)
| ((substeps|stepalternatives), (%component.mix;)*)))>

<!-- Performance: Whether the Step must be performed -->
<!ENTITY % REQUIRED! "-->
<!-- GlossList ......................... -->

<!ENTITY % glosslist.module "INCLUDE">
<![glosslist.module;[
<!ENTITY % local.glosslist.attrib ""->
<!ENTITY % glosslist.role.attrib "%role.attrib;">

<!ENTITY % glosslist.element "INCLUDE">
<![glosslist.element;[
<!ELEMENT glosslist %ho; (blockinfo?, (%formalobject.title.content;)?, glossentry+)>
<!--end of glosslist.element-->]]>

<!ENTITY % glosslist.attlist "INCLUDE">
<![glosslist.attlist;[
<!ATTLIST glosslist
%common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
> 
<!--end of glosslist.attlist-->]]>
<!--end of glosslist.module-->]]>

<!ENTITY % glossentry.content.module "INCLUDE">
<![glossentry.content.module;[
<!ENTITY % glossentry.module "INCLUDE">
<![glossentry.module;[
<!ENTITY % local.glossentry.attrib ""->
<!ENTITY % glossentry.role.attrib "%role.attrib;">

<!ENTITY % glossentry.element "INCLUDE">
<![glossentry.element;[
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,
(ndxterm.class;)*,
revhistory?, (glosssee|glossdef+))>
<!--end of glossentry.element-->]]>

<!-- SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content -->

<!ENTITY % glossentry.attlist "INCLUDE">
<![glossentry.attlist;[
<!ATTLIST glossentry
sortas CDATA #IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;]-->
<!ENTITY % glosssee.role.attrib "INCLUDE">
<!ENTITY % local.glosssee.attrib "INCLUDE">
<!ENTITY % glossseealso.module "INCLUDE">
<!ENTITY % glossseealso.element "INCLUDE">
<!ENTITY % glossseealso.attlist "INCLUDE">
<!ENTITY % glossseealso.also.module "INCLUDE">
<!ENTITY % glossseealso.also.element "INCLUDE">
<!ENTITY % glossseealso.also.attlist "INCLUDE">
<!ENTITY % itemizedlist.module "INCLUDE">
<!ENTITY % itemizedlist.element "INCLUDE">
<!ENTITY % itemizedlist.attlist "INCLUDE">
<!ENTITY % itemizedlist.role.attrib "INCLUDE">

<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso -->

<!-- ItemizedList and OrderedList ..... -->

<!-- Spacing: Whether the vertical space in the list should be compressed -->
<ENTITY % seg.module "INCLUDE">
<ATTLIST seg %common.attrib;
%seg.module.role.attrib;
%local.seg.module.attrib;
>
<!--end of seg.module-->
]]>

<!--end of seg.module-->
]]>

<!-- SimpleList ....................... -->

<ENTITY % simplelist.content.module "INCLUDE">
<ATTLIST simplelist.content.module;

<!--end of simplelist.content.module-->
]]>

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be
formatted: Inline (members separated with commas etc.
inline), Vert (top to bottom in n Columns), or Horiz (in
the direction of text flow) in \( n \) Columns. If Column
is 1 or implied, Type=Vert and Type=Horiz give the same
results. -->

\[
\text{<!ENTITY % simplelist.attlist "INCLUDE">}
\text{<![%simplelist.attlist;[}
\text{<!ATTLIST simplelist}
\text{columnsCDATA#IMPLIED}
\text{type(inline}
\text{|vert}
\text{|horiz)"vert"}
\text{%common.attrib;}
\text{%simplelist.role.attrib;}
\text{%local.simplelist.attrib;}
\text{>}
\text{<!--end of simplelist.attlist-->]]>
\text{<!--end of simplelist.module-->]]>
\text{<!ENTITY % member.module "INCLUDE">}
\text{<![%member.module;[}
\text{<!ENTITY % local.member.attrib ""}>
\text{<!ENTITY % member.role.attrib "%role.attrib;"}>
\text{<!ENTITY % member.element "INCLUDE">}
\text{<![%member.element;[}
\text{<!ELEMENT member %ho; (%para.char.mix;)*}>
\text{<!--end of member.element-->]]>
\text{<!ENTITY % member.attlist "INCLUDE">}
\text{<![%member.attlist;[}
\text{<!ATTLIST member}
\text{%common.attrib;}
\text{%member.role.attrib;}
\text{%local.member.attrib;}
\text{>}
\text{<!--end of member.attlist-->]]>
\text{<!--end of member.module-->]]>
\text{<!--end of simplelist.content.module-->]]>

\text{<!-- VariableList ..................... -->}
\text{<!ENTITY % variablelist.content.module "INCLUDE">}
\text{<![%variablelist.content.module;[}
\text{<!ENTITY % variablelist.module "INCLUDE">}
\text{<![%variablelist.module;[}
\text{<!ENTITY % local.variablelist.attrib ""}>
\text{<!ENTITY % variablelist.role.attrib "%role.attrib;"}>

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 445
<!ENTITY % informalexample.module "INCLUDE">
<!ENTITY % informalexample.module;
<!ENTITY % local.informalexample.attrib """>
<!ENTITY % informalexample.role.attrib "%role.attrib;">
<!ENTITY % informalexample.element "INCLUDE">
<!ENTITY % informalexample.element;
<!ELEMENT informalexample %ho; (blockinfo?, (%example.mix;)+)>
<!ENTITY % informalexample.attlist "INCLUDE">
<!ENTITY % informalexample.attlist;[
<!ATTLIST informalexample
floatstyleCDATA#IMPLIED
%width.attrib;
%common.attrib;
%informalexample.role.attrib;
%local.informalexample.attrib;
>]]>
<!ENTITY % programlistingco.module "INCLUDE">
<!ENTITY % programlistingco.module;[
<!ENTITY % local.programlistingco.attrib "" >
<!ENTITY % programlistingco.role.attrib "%role.attrib;">
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ELEMENT programlistingco %ho; (areaspec, programlisting, calloutlist*)>
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.role.attrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % areaspec.content.module "INCLUDE">
<!ENTITY % areaspec.content.module;[
<!ENTITY % areaspec.module "INCLUDE">
<!ENTITY % areaspec.module;[
<!ENTITY % calloutlist.content.module "INCLUDE">
<!ENTITY % calloutlist.content.module;[
<!ENTITY % calloutlist.module "INCLUDE">
<!ENTITY % calloutlist.module;[
<!ENTITY % calloutlist.element "INCLUDE">
<!ENTITY % calloutlist.element;[
<!ENTITY % calloutlist.attlist "INCLUDE">
<!ENTITY % calloutlist.attlist;[
<!ATTLIST calloutlist
%common.attrib;
%calloutlist.role.attrib;
%local.calloutlist.attrib;
>]]>
<!ENTITY % calloutlistco.module "INCLUDE">
<!ENTITY % calloutlistco.module;[
<!ENTITY % local.calloutlistco.attrib "" >
<!ENTITY % calloutlistco.role.attrib "%role.attrib;">
<!ENTITY % calloutlistco.element "INCLUDE">
<!ENTITY % calloutlistco.element;[
<!ELEMENT calloutlistco %ho; (calloutlist*)>
<!ENTITY % calloutlistco.attlist "INCLUDE">
<!ENTITY % calloutlistco.attlist;[
<!ATTLIST calloutlistco
%common.attrib;
%calloutlistco.role.attrib;
%local.calloutlistco.attrib;
>]]>
<!ENTITY % programlisting.module "INCLUDE">
<!ENTITY % programlisting.module;[
<!ENTITY % local.programlisting.attrib "" >
<!ENTITY % programlisting.role.attrib "%role.attrib;">
<!ENTITY % programlisting.element "INCLUDE">
<!ENTITY % programlisting.element;[
<!ELEMENT programlisting %ho; (calloutlist*, programlistingco, calloutlist*)>
<!ENTITY % programlisting.attlist "INCLUDE">
<!ENTITY % programlisting.attlist;[
<!ATTLIST programlisting
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
>]]>
<!ENTITY % area.module "INCLUDE">
<!ENTITY % area.module;[
<!ENTITY % area.element "INCLUDE">
<!ENTITY % area.element;[
<!ENTITY % area.attlist "INCLUDE">
<!ENTITY % area.attlist;[
<!ATTLIST area
%common.attrib;
%area.role.attrib;
%local.area.attrib;
>]]>
<!ENTITY % list.element "INCLUDE">
<!ENTITY % list.element;[
<!ENTITY % list.attlist "INCLUDE">
<!ENTITY % list.attlist;[
<!ATTLIST list
%common.attrib;
%list.role.attrib;
%local.list.attrib;
>]]>
<!ENTITY % calloutlistco.element "INCLUDE">
<!ENTITY % calloutlistco.element;[
<!ENTITY % calloutlistco.attlist "INCLUDE">
<!ENTITY % calloutlistco.attlist;[
<!ATTLIST calloutlistco
%common.attrib;
%calloutlistco.role.attrib;
%local.calloutlistco.attrib;
>]]>
<!ENTITY % calloutlistco.element "INCLUDE">
<!ENTITY % calloutlistco.element;[
<!ENTITY % calloutlistco.attlist "INCLUDE">
<!ENTITY % calloutlistco.attlist;[
<!ATTLIST calloutlistco
%common.attrib;
%calloutlistco.roleattrib;
%local.calloutlistco.attrib;
>]]>
<!ENTITY % calloutlistco.element "INCLUDE">
<!ENTITY % calloutlistco.element;[
<!ENTITY % calloutlistco.attlist "INCLUDE">
<!ENTITY % calloutlistco.attlist;[
<!ATTLIST calloutlistco
%common.attrib;
%calloutlistco.roleattrib;
%local.calloutlistco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;[
<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.roleattrib;
%local.programlistingco.attrib;
>]]>
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;">  

<!ENTITY % areaspec.element "INCLUDE">  
<![%areaspec.element;[  
<ELEMENT areaspec %ho; ((area|areaset)+)>  
<![--end of %areaspec.element--->]]>  

<!-- Units: global unit of measure in which coordinates in  
this spec are expressed:  

- CALSPair "x1,y1 x2,y2": lower-left and upper-right  
coordinates in a rectangle describing repro area in which  
graphic is placed, where X and Y dimensions are each some  
number 0..10000 (taken from CALS graphic attributes)  

- LineColumn "line column": line number and column number  
at which to start callout text in "linespecific" content  

- LineRange "startline endline": whole lines from startline  
to endline in "linespecific" content  

- LineColumnPair "line1 col1 line2 col2": starting and ending  
points of area in "linespecific" content that starts at  
first position and ends at second position (including the  
beginnings of any intervening lines)  

- Other: directive to look at value of OtherUnits attribute  
to get implementation-specific keyword  

The default is implementation-specific; usually dependent on  
the parent element (GraphicCO gets CALSPair, ProgramListingCO  
and ScreenCO get LineColumn) -->  
<![-- OtherUnits: User-defined units -->]>

<!ENTITY % areaspec.attlist "INCLUDE">  
<![%areaspec.attlist;[  
<!ATTLIST areaspec  
units	(calspair | linecolumn | linerange | linecolumnpair | other) IMPLIES  
otherunits NMTOKEN IMPLIES  
%common.attrib;  
%areaspec.role.attrib;  
%local.areaspec.attrib;  

---
<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist;[
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
<![%programlisting.module;[
<!ENTITY % local.programlisting.attrib "">
<!ENTITY % programlisting.role.attrib "%role.attrib;">  

<!ENTITY % programlisting.element "INCLUDE">
<![%programlisting.element;[
<!ELEMENT programlisting %ho; (%para.char.mix;|co|coref|lineannotation|textobject)*>
<!--end of programlisting.element-->]]>

<!ENTITY % programlisting.attlist "INCLUDE">
<![%programlisting.attlist;[
<!ATTLIST programlisting
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
>
<!--end of programlisting.attlist-->]]>
<!--end of programlisting.module-->]]>
<!-- Figures etc. ..................... -->

<!-- Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->

<!-- Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->
<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+))">
<!ENTITY % inlineequation.content "(alt?, (graphic+|inlinemediaobject+))">

<!ENTITY % equation.module "INCLUDE">
<![%equation.module;[%
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;">

<!ENTITY % equation.element "INCLUDE">
<![%equation.element;[%
<!ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?, (informalequation | %equation.content;))>
<!--end of equation.element-->
]
]

<!ENTITY % equation.attlist "INCLUDE">
<![%equation.attlist;[%
<!ATTLIST equation
  floatstyle CDATA #IMPLIED
  %label.attrib;
  %common.attrib;
  %equation.role.attrib;
  %local.equation.attrib;
  >
<!--end of equation.attlist-->
]
]

<!ENTITY % informalequation.module "INCLUDE">
<![%informalequation.module;[%
<!ENTITY % local.informalequation.attrib "">
<!ENTITY % informalequation.role.attrib "%role.attrib;">

<!ENTITY % informalequation.element "INCLUDE">
<![%informalequation.element;[%
<!ELEMENT informalequation %ho; (blockinfo?, %equation.content;) >
<!--end of informalequation.element-->
]
]

<!ENTITY % informalequation.attlist "INCLUDE">
<![%informalequation.attlist;[%
<!ATTLIST informalequation
  floatstyle CDATA #IMPLIED
  %common.attrib;
  %informalequation.role.attrib;
  %local.informalequation.attrib;
  >
<!--end of informalequation.attlist-->
]
]

-- Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 465 --
<ENTITY % inlineequation.module "INCLUDE">
<![%inlineequation.module;]
<ENTITY % local.inlineequation.attrib ""
<ENTITY % inlineequation.role.attrib "%role.attrib;

<ENTITY % inlineequation.element "INCLUDE">
<![%inlineequation.element;]
<ELEMENT inlineequation %ho; (%inlineequation.content;)
<!--end of inlineequation.element-->]]>

<ENTITY % inlineequation.attlist "INCLUDE">
<![%inlineequation.attlist;]
<!ATTLIST inlineequation
%common.attrib;
%inlineequation.role.attrib;
%local.inlineequation.attrib;
>
<!--end of inlineequation.attlist-->]]>
<!--end of inlineequation.module-->]]>

<ENTITY % alt.module "INCLUDE">
<![%alt.module;]
<ENTITY % local.alt.attrib ""
<ENTITY % alt.role.attrib "%role.attrib;"

<ENTITY % alt.element "INCLUDE">
<![%alt.element;]
<ELEMENT alt %ho; (#PCDATA)
<!--end of alt.element-->]]>

<ENTITY % alt.attlist "INCLUDE">
<![%alt.attlist;]
<!ATTLIST alt
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
>
<!--end of alt.attlist-->]]>
<!--end of alt.module-->]]>

<!-- Tables ......................... -->

<ENTITY % table.module "INCLUDE">
<![%table.module;]

<!-- Choose a table model. CALS or OASIS XML Exchange -->
<!ENTITY % cals.table.module "INCLUDE">  
<![%cals.table.module;[  
<!ENTITY % exchange.table.module "IGNORE">  
]]>  
<!ENTITY % exchange.table.module "INCLUDE">  

<!-- Do we allow the HTML table model as well? -->  
<!ENTITY % allow.html.tables "INCLUDE">  
<![allow.html.tables;[  
<!-- xhtmltbl.mod defines HTML tables and sets parameter  
    entities so that, when the CALS table module is read,  
    we end up allowing any table to be CALS or HTML.  
    i.e. This include must come first! -->  
]]>  

<!ENTITY % htmltbl  
PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN"  "htmltblx.mod">  
%htmltbl;  
<![end of allow.html.tables-->]]>  

<!ENTITY % tables.role.attrib "%role.attrib;"  
<![%cals.table.module;[  
<!!-- Add label and role attributes to table and informaltable -->  
<!ENTITY % bodyatt "  
floatstyle CDATA #IMPLIED  
%label.attrib;"  
>  

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,  
    EntryTbl, and Entry (and InformalTable element). -->  
<!ENTITY % secur "%common.attrib;  
%tables.role.attrib;"  
>  

<!ENTITY % common.table.attribs  
"%bodyatt;  
%secur;"  
>  

<!-- Content model for Table. -->  
<!ENTITY % tbl.table.mdl  
"(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*,  
textobject*,  
    (graphic+|mediaobject+|group+))">  

<!-- Allow either objects or inlines; beware of REs between elements. -->
<![informaltable.module;]

<!- Note that InformalTable is dependent on some of the entity
declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib ""

<!- the following entity may have been declared by the XHTML table module -->

<!ENTITY % informal.tbl.table.mdl "textobject*, (graphic+|mediaobject+|tgroup+)" >

<!ENTITY % informaltable.element "INCLUDE" >

<! [%informaltable.element; [
<!ELEMENT informaltable %ho; (blockinfo?, (%informal.tbl.table.mdl;))>

<!- Frame, Colsep, and Rowsep must be repeated because
they are not in entities in the table module. -->

<!- includes TabStyle, ToCentry, ShortEntry,
Orient, PgWide -->

<!- includes Label -->

<!- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE" >

<! ATTLIST informaltable
frame(%tbl.frame.attval;)#IMPLIED
colsep%yesorno.attvals;#IMPLIED
rowsep%yesorno.attvals;#IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
>
<!-end of informaltable.attlist-->]]>

<!-end of informaltable.module-->]]>

<!ENTITY % caption.module "INCLUDE" >

<![ %caption.module; [ 
<!ENTITY % local.caption.attrib "" >

<!ENTITY % caption.role.attrib "%role.attrib;" >

<!ENTITY % caption.element "INCLUDE" >

<![ %caption.element; [ 
<!ELEMENT caption %ho; (#PCDATA | %textobject.mix;)* >

<!-end of caption.element--> ]]>

<!ENTITY % caption.attlist "INCLUDE" >

<![ %caption.attlist; [ 
<!- attrs comes from HTML tables ... -->
<!ELEMENT funcprototype %ho; (modifier*,
  funcdef,
  (void|varargs)((paramdef+, varargs?),
  modifier*))>

<!ENTITY % funcprototype.attlist "INCLUDE">
<![%funcprototype.attlist;[<!ATTLIST funcprototype
%common.attrib;
%funcprototype.role.attrib;
%local.funcprototype.attrib;
>]]>

<!ENTITY % funcprototype.attlist->]]>
<!ENTITY % funcprototype.module "INCLUDE">
<![%funcprototype.module;[<ENTITY % funcprototype.attlist--->]]>

<!ENTITY % funcprototype.module--->]]>

<!ENTITY % funcdef.module "INCLUDE">
<![%funcdef.module;[<ENTITY % funcprototype.attlist "INCLUDE">
<![%funcdef.module;[<ENTITY % local.funcdef.attrib "";]]>
<!ENTITY % local.funcdef.attrib "">
<!ENTITY % funcdef.role.attrib "%role.attrib;">]]>

<!ENTITY % funcdef.element "INCLUDE">
<![%funcdef.element;[<ELEMENT funcdef %ho; (#PCDATA
  | type
  | replaceable
  | function)*>]]>

<!ENTITY % funcdef.element--->]]>

<!ENTITY % funcdef.element--->]]>

<!ENTITY % funcdef.attlist "INCLUDE">
<![%funcdef.attlist;[<ENTITY % funcdef.role attrib "%role.attrib;">]]>

<!ENTITY % funcdef.attlist--->]]>
<!ENTITY % funcdef.attlist--->]]>

<!ENTITY % void.module "INCLUDE">
<![%void.module;[<ENTITY % local.void.attrib "";]]>
<!ENTITY % local.void.attrib "">
<!ENTITY % void.role.attrib "%role.attrib;">]]>

<!ENTITY % void.element "INCLUDE">
<![%void.element;[<ELEMENT void %ho; EMPTY>]]>
<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->
The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.
%address.role.attrib;
%local.address.attrib;
>
<!--end of address.attlist-->]]>
<!--end of address.module-->]]>

<!ENTITY % street.module "INCLUDE">
<![%street.module;[  
<!ENTITY % local.street.attrib ""->
<!ENTITY % street.role.attrib "%role.attrib;">

<!ENTITY % street.element "INCLUDE">
<![%street.element;[  
<!ELEMENT street %ho; (%docinfo.char.mix;)*>
<!--end of street.element-->]]>

<!ENTITY % street.attlist "INCLUDE">
<![%street.attlist;[  
<!ATTLIST street  
%common.attrib;
%street.role.attrib;
%local.street.attrib;
>
<!--end of street.attlist-->]]>
<!--end of street.module-->]]>

<!ENTITY % pob.module "INCLUDE">
<![%pob.module;[  
<!ENTITY % local.pob.attrib ""->
<!ENTITY % pob.role.attrib "%role.attrib;">

<!ENTITY % pob.element "INCLUDE">
<![%pob.element;[  
<!ELEMENT pob %ho; (%docinfo.char.mix;)*>
<!--end of pob.element-->]]>

<!ENTITY % pob.attlist "INCLUDE">
<![%pob.attlist;[  
<!ATTLIST pob  
%common.attrib;
%pob.role.attrib;
%local.pob.attrib;
>
<!--end of pob.attlist-->]]>
<!--end of pob.module-->]]>

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;[  

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 487
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 491
<!-- Address (defined elsewhere in this section)-->

<!ENTITY % confsponsor.module "INCLUDE">
<![%confsponsor.module;]
<!ENTITY % local.confsponsor.attrib "">
<!ENTITY % confsponsor.role.attrib "%role.attrib;">

<!ENTITY % confsponsor.element "INCLUDE">
<![%confsponsor.element;]
<!ELEMENT confsponsor %ho; (%docinfo.char.mix;}>*
<!!--end of confsponsor.element--]>

<!ENTITY % confsponsor.attlist "INCLUDE">
<![%confsponsor.attlist;]
<!ATTLIST confsponsor
%common.attrib;
%confsponsor.role.attrib;
%local.confsponsor.attrib;
>
<!!--end of confsponsor.attlist--]>
<!--end of confsponsor.module--]>
<!--end of confgroup.content.module--]>

<!-- ContractNum ...................... -->

<!ENTITY % contractnum.module "INCLUDE">
<![%contractnum.module;]
<!ENTITY % local.contractnum.attrib "">
<!ENTITY % contractnum.role.attrib "%role.attrib;">

<!ENTITY % contractnum.element "INCLUDE">
<![%contractnum.element;]
<!ELEMENT contractnum %ho; (%docinfo.char.mix;}>*
<!!--end of contractnum.element--]>

<!ENTITY % contractnum.attlist "INCLUDE">
<![%contractnum.attlist;]
<!ATTLIST contractnum
%common.attrib;
%contractnum.role.attrib;
%local.contractnum.attrib;
>
<!!--end of contractnum.attlist--]>
<!--end of contractnum.module--]>

<!-- ContractSponsor ................. -->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 498
>
<!--end of legalnotice.attlist-->]]>
<![--end of legalnotice.module-->]]>

<!-- ModeSpec ......................... -->

<!ENTITY % modespec.module "INCLUDE">
<![%modespec.module;[<!ENTITY % local.modespec.attrib "">]]
<!ENTITY % modespec.role.attrib "%role.attrib;">]]>

<!ENTITY % modespec.element "INCLUDE">
<![%modespec.element;[<!ELEMENT modespec %ho; (%docinfo.char.mix;)*%ubiq.exclusion;>]]>

<!-- Application: Type of action required for completion of the links to which the ModeSpec is relevant (e.g., retrieval query) -->

<!ENTITY % modespec.attlist "INCLUDE">
<![%modespec.attlist;[<!ATTLIST modespec applicationNOTATION (%notation.class;)#IMPLIED %common.attrib;
%modespec.role.attrib;
%local.modespec.attrib;
>]]>

<!-- OrgName ......................... -->

<!ENTITY % orgname.module "INCLUDE">
<![%orgname.module;[<!ENTITY % local.orgname.attrib "">]]
<!ENTITY % orgname.role.attrib "%role.attrib;">]]>

<!ENTITY % orgname.element "INCLUDE">
<![%orgname.element;[<!ELEMENT orgname %ho; (%docinfo.char.mix;)*]]>

<!ENTITY % orgname.attlist "INCLUDE">
<![%orgname.attlist;[
<!-- Personal identity elements ....... -->

<!-- These elements are used only within Author, Editor, and OtherCredit. -->

<!-- ENTITY % person.ident.module "INCLUDE">}
 <!--ENTITY % person.ident.module;[}

<!-- ENTITY % contrib.module "INCLUDE">}
 <!--ENTITY % contrib.module;[}

<!-- ENTITY % local.contrib.attrib "">}

<!-- ENTITY % contrib.role.attrib "%role.attrib;"}

<!-- ENTITY % contrib.element "INCLUDE">}
 <!--ENTITY % contrib.element;[}

<!-- ENTITY contrib %ho; (%docinfo.char.mix;)*}>
 <!--ENTITY % contrib.attlist "INCLUDE">}
 <!--ENTITY % contrib.attlist;[}

<!-- ENTITY % firstname.module "INCLUDE">}
 <!--ENTITY % firstname.module;[}

<!-- ENTITY % local.firstname.attrib "">}

<!-- ENTITY % firstname.role.attrib "%role.attrib;"}

<!-- ENTITY % firstname.element "INCLUDE">}
 <!--ENTITY % firstname.element;[}
<!ELEMENT firstname %ho; (%docinfo.char.mix;)*>
<!--end of firstname.element-->]]>

<!ENTITY % firstname.attlist "INCLUDE">
<![%firstname.attlist;]
<!ATTLIST firstname
%common.attrib;
%firstname.role.attrib;
%local.firstname.attrib;
>
<!--end of firstname.attlist-->]]>
<!--end of firstname.module-->]]>

<!ENTITY % honorific.module "INCLUDE">
<![%honorific.module;]
<!ENTITY % local.honorific.attrib "">
<!ENTITY % honorific.role.attrib "%role.attrib;"> 

<!ENTITY % honorific.element "INCLUDE">
<![%honorific.element;]
<!ELEMENT honorific %ho; (%docinfo.char.mix;)*>
<!--end of honorific.element-->]]>

<!ENTITY % honorific.attlist "INCLUDE">
<![%honorific.attlist;]
<!ATTLIST honorific
%common.attrib;
%honorific.role.attrib;
%local.honorific.attrib;
>
<!--end of honorific.attlist-->]]>
<!--end of honorific.module-->]]>

<!ENTITY % lineage.module "INCLUDE">
<![%lineage.module;]
<!ENTITY % local.lineage.attrib "">
<!ENTITY % lineage.role.attrib "%role.attrib;"> 

<!ENTITY % lineage.element "INCLUDE">
<![%lineage.element;]
<!ELEMENT lineage %ho; (%docinfo.char.mix;)*>
<!--end of lineage.element-->]]>

<!ENTITY % lineage.attlist "INCLUDE">
<![%lineage.attlist;]
<!ATTLIST lineage
%common.attrib;
%lineage.role.attrib;
<!--end of lineag.element-->
<!ENTITY % local.lineage.attrib;>
<!--end of lineag.module-->
<!ENTITY % othername.module "INCLUDE">
<![-%othername.module;]
<!ENTITY % local.othername.attrib "">
<!ENTITY % othername.role.attrib " %role.attrib;">

<!ENTITY % othername.element "INCLUDE">
<![-%othername.element;]
<!ELEMENT othername %ho; (%docinfo.char.mix;)*>
<!--end of othername.element-->
<!ENTITY % othername.attlist "INCLUDE">
<![-%othername.attlist;]
<!ATTLIST othername
%common.attrib; %othername.role.attrib; %local.othername.attrib; >
<!--end of othername.attlist-->
<!--end of othername.module-->

<!--end of person.ident.module-->

<!ENTITY % surname.module "INCLUDE">
<![-%surname.module;]
<!ENTITY % local.surname.attrib "">
<!ENTITY % surname.role.attrib " %role.attrib;">

<!ENTITY % surname.element "INCLUDE">
<![-%surname.element;]
<!ELEMENT surname %ho; (%docinfo.char.mix;)*>
<!--end of surname.element-->
<!ENTITY % surname.attlist "INCLUDE">
<![-%surname.attlist;]
<!ATTLIST surname
%common.attrib; %surname.role.attrib; %local.surname.attrib; >
<!--end of surname.attlist-->
<!--end of surname.module-->

<!-- PrintHistory ..................... -->
<!-- .................................  -->
<!--end of docinfo.content.module-->
<!-- .................................. -->
<!--end of docinfo.content.module-->
<!-- Inline, link, and ubiquitous elements ......................... -->
<!-- Technical and computer terms ..................................... -->

<!ENTITY % accel.module "INCLUDE">
<![accel.module:]
<!ENTITY % local.accel.attrib "">  
<!ENTITY % accel.role.attrib "%role.attrib;">  

<!ENTITY % accel.element "INCLUDE">
<![accel.element:
<!ELEMENT accel %ho; (%smallcptr.char.mix;)*>
<!--end of accel.element-->]]>

<!ENTITY % accel.attlist "INCLUDE">
<![accel.attlist:
<!ATTLIST accel 
%common.attrib; 
%accel.role.attrib; 
%local.accel.attrib; >  
<!--end of accel.attlist-->]]>  
<!--end of accel.module-->]]>

<!ENTITY % action.module "INCLUDE">
<![action.module:
<!ENTITY % local.action.attrib "">  
<!ENTITY % action.role.attrib "%role.attrib;">  

<!ENTITY % action.element "INCLUDE">
<![action.element:
<!ELEMENT action %ho; (%cptr.char.mix;)*>
<!--end of action.element-->]]>

<!ENTITY % action.attlist "INCLUDE">
<![action.attlist:
<!ATTLIST action 
%moreinfo.attrib; 
%common.attrib; 
%action.role.attrib; 
%local.action.attrib; >
<!ENTITY % application.module "INCLUDE">
<![%application.module;
<!ENTITY % local.application.attrib "">
<!ENTITY % application.role.attrib "%role.attrib;">  

<!ENTITY % application.element "INCLUDE">
<![%application.element;
<!ELEMENT application %ho; (%para.char.mix;)*>
<!END OF APPLICATION.ELEMENT-->>]

<!ENTITY % application.attlist "INCLUDE">
<![%application.attlist;
<!ATTLIST application class (hardware |software)#IMPLIED 
%moreinfo.attrib;
%common.attrib;
%application.role.attrib;
%local.application.attrib;
>  
<!END OF APPLICATION.ATTLIST-->>]

<!ENTITY % classname.module "INCLUDE">
<![%classname.module;
<!ENTITY % local.classname.attrib "">
<!ENTITY % classname.role.attrib "%role.attrib;">  

<!ENTITY % classname.element "INCLUDE">
<![%classname.element;
<!ELEMENT classname %ho; (%smallcptr.char.mix;)*>
<!END OF CLASSNAME.ELEMENT-->>]

<!ENTITY % classname.attlist "INCLUDE">
<![%classname.attlist;
<!ATTLIST classname %common.attrib;
%classname.role.attrib;
%local.classname.attrib;
>  
<!END OF CLASSNAME.ATTLIST-->>]

<!ENTITY % co.module "INCLUDE">
<![%co.module;]
<!ENTITY % command.module "INCLUDE">
<![command.module:]
<!ENTITY % local.command.attrib "">
<!ENTITY % command.role.attrib "%role.attrib:">

<!ENTITY % command.element "INCLUDE">
<![command.element:][
<!ELEMENT command %ho; (%cptr.char.mix;)*>
<!--end of command.element-->
]]>

<!ENTITY % command.attlist "INCLUDE">
<![command.attlist:][
<!ATTLIST command
%moreinfo.attrib;
%common.attrib;
%command.role.attrib;
%local.command.attrib;
>]
<!--end of command.attlist-->
]]>

<!ENTITY % computeroutput.module "INCLUDE">
<![computeroutput.module:][
<!ENTITY % local.computeroutput.attrib "">
<!ENTITY % computeroutput.role.attrib "%role.attrib:">

<!ENTITY % computeroutput.element "INCLUDE">
<![computeroutput.element:][
<!ELEMENT computeroutput %ho; (%cptr.char.mix;|co)*>
<!--end of computeroutput.element-->
]]>

<!ENTITY % computeroutput.attlist "INCLUDE">
<![computeroutput.attlist:][
<!ATTLIST computeroutput
%moreinfo.attrib;
%common.attrib;
%computeroutput.role.attrib;
%local.computeroutput.attrib;
>]
<!--end of computeroutput.attlist-->
]]>

<!ENTITY % database.module "INCLUDE">
<![database.module:][

<!--end of coref.attlist-->
]]>

<!--end of coref.module-->
]]>
<!ENTITY % local.database.attrib "">  
<!ENTITY % database.role.attrib "%role.attrib;">  

<!ENTITY % database.element "INCLUDE">  
<![%database.element;[  
<!ELEMENT database %ho; (%cptr.char.mix;)*>  
<!--end of database.element-->]]>  

<!-- Class: Type of database the element names; no default -->

<!ENTITY % database.attlist "INCLUDE">  
<![%database.attlist;[  
<!ATTLIST database  
class (name  
|table  
|field  
|key1  
|key2  
|record  
|index  
|view  
|primarykey  
|secondarykey  
|foreignkey  
|altkey  
|procedure  
|datatype  
|constraint  
|rule  
|user  
|group)#IMPLIED  
%moreinfo.attrib;  
%common.attrib;  
%database.role.attrib;  
%local.database.attrib;  
]>  
<![--end of database.attlist-->]]>  
<![--end of database.module-->]]>  

<!ENTITY % email.module "INCLUDE">  
<![%email.module;[  
<!ENTITY % local.email.attrib "">  
<!ENTITY % email.role.attrib "%role.attrib;">  

<!ENTITY % email.element "INCLUDE">  
<![%email.element;[  
<!ELEMENT email %ho; (%docinfo.char.mix;)*>
<!DOCTYPE %local.prompt.attrib;[
<!ENTITY % property.module "INCLUDE">%
<!ENTITY % local.property.attrib "">>
<!ENTITY % property.role.attrib "%role.attrib;">

<!ENTITY % property.element "INCLUDE">&
<!ENTITY % property.attlist "INCLUDE">%
<!ENTITY % replaceable.module "INCLUDE">%
<!ENTITY % replaceable.attlist "INCLUDE">%

<!-- Class: Type of information the element represents; no
default -->

<!ELEMENT property %ho; (%cptr.char.mix;)*>
<!-- BaseForm: Provides the form of GlossTerm to be used for indexing -->

<!ENTITY % glossterm.attlist "INCLUDE">
<![%glossterm.attlist;]
<!ATTLIST glossterm
baseform CDATA IMPLIED %linkend.attrib;
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<!--end of glossterm.attlist-->]]>
<!--end of glossterm.module-->]]>

<!ENTITY % firstterm.module "INCLUDE">
<![%firstterm.module;]
<!ENTITY % local.firstterm.attrib "">
<!ENTITY % firstterm.role.attrib "%role.attrib;">

<!ENTITY % firstterm.element "INCLUDE">
<![%firstterm.element;]
<!ELEMENT firstterm %ho; (%para.char.mix;)* %glossterm.exclusion;>
<!--end of firstterm.element-->]]>
<!-- to GlossEntry or other explanation -->

<!ENTITY % firstterm.attlist "INCLUDE">
<![%firstterm.attlist;]
<!ATTLIST firstterm
baseform CDATA IMPLIED %linkend.attrib;
%common.attrib;
%firstterm.role.attrib;
%local.firstterm.attrib;
>
<!--end of firstterm.attlist-->]]>
<!--end of firstterm.module-->]]>

<!ENTITY % phrase.module "INCLUDE">
<![%phrase.module;]
<!ENTITY % local.phrase.attrib "">
<!ENTITY % phrase.role.attrib "%role.attrib;">

<!ENTITY % phrase.element "INCLUDE">
<![%phrase.element;]
<!-- URL: uniform resource locator; the target of the ULink -->
<!-- Type: Freely assignable parameter -->

<!-- URL: uniform resource locator; the target of the ULink -->
<!-- Type: Freely assignable parameter -->
<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.3 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN"
"htmltblx.mod">
%htmltbl;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Does not contain lang or dir because they are in %commonattrs -->

```xml
<!ENTITY % html.coreattrs
"id ID IMPLIED
class CDATA IMPLIED
style CDATA IMPLIED
title CDATA IMPLIED"
>
```

<!ENTITY % events
"onclick CDATA IMPLIED
ondblclick CDATA IMPLIED
onmousedown CDATA IMPLIED
"
onmouseup CDATA #IMPLIED
onmouseover CDATA #IMPLIED
onmousemove CDATA #IMPLIED
onmouseout  CDATA #IMPLIED
onkeypress  CDATA #IMPLIED
onkeydown   CDATA #IMPLIED
onkeyup     CDATA #IMPLIED"
>
</!ENTITY % attr "%html.coreattrs; %i18n; %events;">
</!ENTITY % cellhalign
"align  (left|center|right|justify|char) #IMPLIED
  char CDATA  #IMPLIED
charoff  CDATA #IMPLIED"
>
</!ENTITY % cellvalign
"valign   (top|middle|bottom|baseline) #IMPLIED"
>
<!ELEMENT colgroup (col)>
<!ELEMENT col  EMPTY>
<!ELEMENT tr       (th|td)+>
<!ELEMENT th       (%para.char.mix; | %tabentry.mix;)*>
<!ELEMENT td       (%para.char.mix; | %tabentry.mix;)*>

<!ATTLIST colgroup
%attrs;
span  CDATA  "1"
width  CDATA  #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST col
%attrs;
span  CDATA  "1"
width  CDATA  #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST tr
%attrs;
%cellhalign;
%cellvalign;
bgcolor  CDATA  #IMPLIED
<!-- Content model for Table (that also allows HTML tables) -->
<!ENTITY % tbl.table.mdl "((blockinfo?,
   (%formalobject.title.content;),
   (%ndxterm.class;)*,
   textobject*,
   (graphic+|mediaobject+|tgroup+)
   |(caption, (col*[colgroup*], thead?, tfoot?, (tbody+|tr+)))")>

<!ENTITY % informal.tbl.table.mdl "((textobject*,
   (graphic+|mediaobject+|tgroup+)
   | ((col*[colgroup*], thead?, tfoot?, (tbody+|tr+)))")>

<!-- Attributes for Table (including HTML ones) -->
<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
   top|bottom|topbot|all|sides|none">

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
   top|bottom|topbot|all|sides|none">
This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
    "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.5//EN"
    "dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
<!DOCTYPE %common.attrib;
%set.role.attrib;
%setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[<!DOCTYPE %common.attrib;
%setinfo.role.attrib;
%local.setinfo.attrib;>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise the set, in the order of their appearance -->

<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[<!ATTLIST setinfo contentsIDREFS#IMPLIED
%common.attrib;
%setinfo.role.attrib;
%local.setinfo.attrib;>

<!-- Book and BookInfo .................................................... -->

<!ENTITY % book.content.module "INCLUDE">
<![%book.content.module;[<!ENTITY % book.module "INCLUDE">
<![%book.module;[<![%local.book.attrib "";
<!ENTITY % book.role attrib "%role.attrib;";>
contentsIDREFS#IMPLIED
%common.attrib;
%bookinfo.role.attrib;
%local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
<!--end of book.content.module-->]]>

<![-- Dedication, ToC, and LoT ----------------------------------------->]

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!--doc:A wrapper for the dedication section of a book.-->
<!ELEMENT dedication %ho; ((%sect.title.content;)?, (%legalnotice.mix;)+)>]
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST dedication
%status.attrib;
%common.attrib;
%dedication.role.attrib;
%local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [ 
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [ 
<!--doc:Text at the back of a book describing facts about its production.-->
<!ELEMENT colophon %ho; ((%sect.title.content;)?, (%textobject.mix;)+)>]
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [ 
<!ATTLIST colophon
<!-- Section (parallel to Sect*) -------------------------- -->

<!ENTITY % section.content.module "INCLUDE">
<![ %section.content.module; [ 
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [ 
<!ENTITY % local.section.attrib ""/>
<!ENTITY % section.role.attrib "%role.attrib;"> 

<!ENTITY % section.element "INCLUDE">
<![ %section.element; [ 
<!doctype:A recursive section.-->
<!ELEMENT section %ho; (sectioninfo?, 
(sect.title.content;), 
(nav.class;)*, 
(((divcomponent.mix;)+, 
((refentry.class;)*|section.class;)*|simplesect*)) 
| (refentry.class;)+|section.class;)+|simplesect+), 
(nav.class;)*) 
%ubiq.inclusion;>
<!--end of section.element-->]]>

<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [ 
<!ATTLIST section 
%label.attrib; 
%status.attrib; 
%common.attrib; 
%section.role.attrib; 
%local.section.attrib; 
> 
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>

<!ENTITY % sectioninfo.module "INCLUDE">
<![ %sectioninfo.module; [ 
<!ENTITY % sectioninfo.role.attrib "%role.attrib;"> 
<!ENTITY % local.sectioninfo.attrib ""/>

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [ 
<!doctype:Meta-information for a recursive section.-->
<!ELEMENT sectioninfo %ho; ((info.class;)+) 
%beginpage.exclusion;>
<!--end of sectioninfo.element-->]]>
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.

ParentBook: ID of the enclosing Book.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 614
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis


Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
feKkMD47/docbook-rng-4.4.zip-cosi-expand-archive-MnQqoip9/dbnotnx.rng
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
feKkMD47/docbook-xsd-4.4.zip-cosi-expand-archive-4muUszDk/dbnotnx.xsd

No license file was found, but licenses were detected in source scan.

Copyright 2003 ArborText, Inc., Norman Walsh, Sun Microsystems, Inc.,
and the Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: htmltblx.mod,v 1.11 2004/01/21 18:54:21 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook XML DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
feKkMD47/docbook-xsd-4.3.zip-cosi-expand-archive-Cjhate6W/htmltblx.xsd
No license file was found, but licenses were detected in source scan.

<!-- ............................................................... -->
<!-- DocBook notations module V4.1 .................................. -->
<!-- File dbnotn.mod .................................................. -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, and the Organization for the Advancement of
Structured Information Standards (OASIS).

$Id: dbnotn.mod,v 1.8 2000/06/19 14:40:17 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and
its accompanying documentation for any purpose and without fee is
hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- ............................................................... -->

<!-- This module contains the entity declarations for the standard
notations used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.1//EN">%dbnotn;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->
Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis


Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the davenport@online.ora.com mailing list or to one of the maintainers:

- Terry Allen, Fujitsu Software Corporation
  3055 Orchard Drive, San Jose, CA 95134
  <tallen@fsc.fujitsu.com>

- Eve Maler, ArborText Inc.
  105 Lexington St., Burlington, MA 01803
  <elm@arbortext.com>

No license file was found, but licenses were detected in source scan.

# Permission to use, copy, modify and distribute the DocBook XML DTD
# is hereby granted in perpetuity, provided that the above copyright
# end of attribution.element
# end of attribution.attlist
# end of attribution.module
# Attribution (defined above)

2002 HaL Computer Systems, Inc.,

$Id: dbnotnx.mod,v 1.23 2004/03/31 10:40:22 nwalsh Exp $
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
No license file was found, but licenses were detected in source scan.

2002 HaL Computer Systems, Inc.,

$Id: dbpoolx.mod,v 1.86 2004/03/31 10:40:22 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-rng-4.3.zip-cosi-expand-archive-wFofAL3W/dbpoolx.rng
No license file was found, but licenses were detected in source scan.

2002 HaL Computer Systems, Inc.,
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information Standards (OASIS).


Permission to use, copy, modify and distribute the DocBook DTD and
its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
fekkMD47/docbook-xsd-4.2.zip-cosi-expand-archive-WDwc6S51/dbnotnx.xsd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
fekkMD47/docbook-rng-4.2.zip-cosi-expand-archive-cMy8pZ2B/dbnotnx.rng

No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook information pool module V4.0 ................................. -->
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, and the Organization for the Advancement of
Structured Information Standards (OASIS).

$Id: dbpool.mod,v 1.14 2000/05/18 19:44:18 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and
its accompanying documentation for any purpose and without fee is
hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ................................................................. -->

<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbpool PUBLIC "-//OASIS//ELEMENTS DocBook Information Pool V4.0//EN"> %dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->
<!-- Object-level mixtures ................................................ -->

Component mixture       X    X    X    X    X    X    X    X    X    X
Sidebar mixture         X    X    X    X    X    X    X    a    X
Footnote mixture        X             X    X    X    X
Example mixture         X         X    X    X    X
Paragraph mixture       X         X    X         X
Admonition mixture      X         X    X    X    X    X    b    c
Figure mixture                    X    X         X
Table entry mixture     X    X    X         X    d
Glossary def mixture    X         X    X    X    X     e
Legal notice mixture    X         X    X    X    X    f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

<!--

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%compound.class;
%genobj.class;%descobj.class;
%ndxterm.class;
%local.component.mix;">

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%compound.class;
%genobj.class;%descobj.class;
%ndxterm.class;
%local.sidebar.mix;">
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.
 -->
<ENTITY % local.word.char.mix "">
<ENTITY % word.char.mix
"#PCDATA
|Acronym|Emphasis|Trademark
|%link.char.class;
|%base.char.class;
|%other.char.class;|InlineGraphic|InlineMediaObject
|%ndxterm.class;
%local.word.char.mix;">

<ENTITY % local.docinfo.char.mix "">
<ENTITY % docinfo.char.mix
"#PCDATA
|%link.char.class;
|Emphasis|Trademark
|Replaceable
|%other.char.class;|InlineGraphic|InlineMediaObject
|%ndxterm.class;
%local.docinfo.char.mix;">

<!--ENTITY % bibliocomponent.mix (see Bibliographic section, below)-->
<!--ENTITY % person.ident.mix (see Bibliographic section, below)-->

<!-- ................................................................. -->
<!-- Entities for content models ................................... -->

<!--ENTITY % formalobject.title.content "Title, TitleAbbrev?" -->

<!-- ................................................................. -->
<!-- Entities for attributes and attribute components ............. -->

<!-- ................................................................. -->
<!-- Effectivity attributes ......................................... -->

<!--ENTITY % arch.attrib
--Arch: Computer or chip architecture to which element applies; no default--
"ArchCDATA#IMPLIED">

<!--ENTITY % condition.attrib
--Condition: General-purpose effectivity attribute--
"ConditionCDATA#IMPLIED">

<!--ENTITY % conformance.attrib
--Conformance: Standards conformance characteristics--
"ConformanceNMTOKENS#IMPLIED"-->
<!ENTITY % os.attrib
--OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED">

<!ENTITY % revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED">

<!ENTITY % security.attrib
--Security: Security classification; no default--
"SecurityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib
--UserLevel: Level of user experience to which element applies; no default--
"UserLevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib
--Vendor: Computer vendor to which element applies; no default--
"VendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
%condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
%security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!ENTITY % id.attrib
--Id: Unique identifier of element; no default--
"IdID#IMPLIED">

<!ENTITY % idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no default--
"IdID#REQUIRED">

<!ENTITY % lang.attrib
--Lang: Indicator of language in which element is written, for
translation, character set management, etc.; no default--
"LangCDATA#IMPLIED">

<!ENTITY % remap.attrib
--Remap: Previous role of element before conversion; no default--
"RemapCDATA#IMPLIED">

<!ENTITY % role.attrib
--Role: New role of element in local environment; no default--
"RoleCDATA#IMPLIED">

<!ENTITY % xreflabel.attrib
--XRefLabel: Alternate labeling string for XRef text generation;
default is usually title or other appropriate label text already
contained in element--
"XRefLabelCDATA#IMPLIED">

<!ENTITY % revisionflag.attrib
--RevisionFlag: Revision status of element; default is that element
wasn't revised--
"RevisionFlag(Changed
|Added
|Deleted
|Off)#IMPLIED">

<!ENTITY % local.common.attrib "">
<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;" 
>

<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;" 
>
<!-- Semi-common attributes and other attribute entities ...................... -->

<!ENTITY % local.graphics.attrib "">
<!ENTITY % graphics.attrib
  "--EntityRef: Name of an external entity containing the content 
of the graphic--
EntityRefENTITY#IMPLIED

--FileRef: Filename, qualified by a pathname if desired, 
designating the file containing the content of the graphic--
FileRef CDATA#IMPLIED

--Format: Notation of the element content, if any--
Format(%notation.class;) #IMPLIED

--SrcCredit: Information about the source of the Graphic--
SrcCreditCDATA#IMPLIED

--Width: Same as CALS reprovid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means 
application-specific--
Align(Left |Right |Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED
%local.graphics.attrib;">

<!ENTITY % local.keyaction.attrib "">
<!ENTITY % keyaction.attrib
  "--Action: Key combination type; default is unspecified if one 
child element, Simul if there is more than one; if value is 
Other, the OtherAction attribute must have a nonempty value--
Action(Click

<ENTITY % label.attrib
--Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter-- "LabelCDATA#IMPLIED">

<ENTITY % linespecific.attrib
--Format: whether element is assumed to contain significant white space-- "FormatNOTATION (linespecific)linespecific
LineNumbering(Numbered|Unnumbered) IMPLIED">

<ENTITY % linkend.attrib
--Linkend: link to related information; no default-- "LinkendIDREF#IMPLIED">

<ENTITY % linkendreq.attrib
--Linkend: required link to related information-- "LinkendIDREF#REQUIRED">

<ENTITY % linkends.attrib
--Linkends: link to one or more sets of related information; no default-- "LinkendsIDREFS#IMPLIED">

<ENTITY % local.mark.attrib "">

<ENTITY % mark.attrib "MarkCDATA#IMPLIED %local.mark.attrib;" >
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!ENTITY % local.person.ident.mixed "">
<!--FUTURE USE (V4.0):
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new wrapper element created to allow association of those two elements with Author name information.

-->

<!ENTITY % person.ident.mix "Honorific|FirstName|Surname|Lineage|OtherName|Affiliation |AuthorBlurb|Contrib %local.person.ident.mix;">  

<!ENTITY % local.bibliocomponent.mix "">  
<!ENTITY % bibliocomponent.mix "Abbrev|Abstract|Address|ArtPageNums|Author |AuthorGroup|AuthorInitials|BiblioMisc|BiblioSet |Collab|ConfGroup|ContractNum|ContractSponsor |Copyright|CorpAuthor|CorpName|Date|Edition |Editor|InvPartNumber|ISBN|ISSN|IssueNum|OrgName |OtherCredit|PageNums|PrintHistory|ProductName |ProductNumber|PubDate|Publisher|PublisherName |PubsNumber|ReleaseInfo|RevHistory|SeriesVolNums |Subtitle|Title|TitleAbbrev|VolumeNum|CiteTitle |%person.ident.mix; |%ndxterm.class; |%local.bibliocomponent.mix;">  

<!ENTITY % biblioentry.module "INCLUDE">  
<![ %biblioentry.module; [  
<!ENTITY % local.biblioentry.attrib "">  
<!ENTITY % biblioentry.role.attrib "%role.attrib;">  

<!ENTITY % biblioentry.element "INCLUDE">  
<![ %biblioentry.element; [  
<!!--FUTURE USE (V5.0):  

--------------  

ArticleInfo will be dropped from BiblioEntry  

--------------  

-->  

<!ELEMENT BiblioEntry - O ((ArticleInfo  
    [(%bibliocomponent.mix;))]+)  
  %ubiq.exclusion;>  

<!--end of biblioentry.element-->]]>

<!ENTITY % biblioentry.attlist "INCLUDE">  
<![ %biblioentry.attlist; [  
<!ATTLIST BiblioEntry  
%common.attrib;  
%biblioentry.role.attrib;  

-->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 639
<!ENTITY % itermset.element "INCLUDE">
<![ %itermset.element; [ 
<!ELEMENT ITermSet - - (IndexTerm+)>
<!-end of itermset.element-->>]
>
<!ENTITY % itermset.attlist "INCLUDE">
<![ %itermset.attlist; [ 
<!ATTLIST ITermSet
%common.attrib;
%itermset.role.attrib;
%local.itermset.attrib;
>
<!-end of itermset.attlist-->>]
>
<!- ................................................................. -->
<!- Compound (section-ish) elements ...................................
-->

<!- Message set ................. -->

<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; [ 
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; [ 
<!ENTITY % local.msgset.attrib "">
<!ENTITY % msgset.role.attrib "%role.attrib;">

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; [ 
<!ELEMENT MsgSet - - ((%formalobject.title.content;)?, (MsgEntry+|SimpleMsgEntry+))>
<!-end of msgset.element-->>]
>
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; [ 
<!ATTLIST MsgSet
%common.attrib;
%msgset.role.attrib;
%local.msgset.attrib;
>
<!-end of msgset.attlist-->>]
>
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; [ 
<!ENTITY % local.msgset.attrib "">
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % local.question.attrib "">
<!ENTITY % question.role.attrib "%role.attrib;">

<!ENTITY % question.element "INCLUDE">  
<![ %question.element; [ 
<!ELEMENT Question - - (Label?, (%qandaset.mix;)+)>  
<![--end of question.element-->]]>

<!ENTITY % question.attlist "INCLUDE">  
<![ %question.attlist; [ 
<!ATTLIST Question  
%common.attrib;  
%question.role.attrib;  
%local.question.attrib;  
]>  
<![--end of question.attlist-->]]>
<![--end of question.module-->]]>

<!ENTITY % answer.module "INCLUDE">  
<![ %answer.module; [ 
<!ENTITY % local.answer.attrib "">
<!ENTITY % answer.role.attrib "%role.attrib;">  

<!ENTITY % answer.element "INCLUDE">  
<![ %answer.element; [ 
<!ELEMENT Answer - - (Label?, (%qandaset.mix;)*, QandAEntry*)>  
<![--end of answer.element-->]]>

<!ENTITY % answer.attlist "INCLUDE">  
<![ %answer.attlist; [ 
<!ATTLIST Answer  
%common.attrib;  
%answer.role.attrib;  
%local.answer.attrib;  
]>  
<![--end of answer.attlist-->]]>
<![--end of answer.module-->]]>

<!ENTITY % label.module "INCLUDE">  
<![ %label.module; [ 
<!ENTITY % local.label.attrib "">
<!ENTITY % label.role.attrib "%role.attrib;">  

<!ENTITY % label.element "INCLUDE">  
<![ %label.element; [ 
<!ELEMENT Label - - (%word.char.mix;)*>  
<![--end of label.element-->]]>
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!--end of itemizedlist.attlist-->]]>
<!--end of itemizedlist.module-->]]>

<!ENTITY % orderedlist.module "INCLUDE">
<![ %orderedlist.module; [
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<![ %orderedlist.element; [
<!ELEMENT OrderedList - - (%formalobject.title.content;)?, ListItem+)>
<!--end of orderedlist.element-->]]>

<!ENTITY % orderedlist.attlist "INCLUDE">
<![ %orderedlist.attlist; [
<!ATTLIST OrderedList
--
Numeration: Style of ListItem numbered; default is expected to be Arabic
--
Numeration(Arabic
|Upperalpha
|Loweralpha
|Upperroman
|Lowerroman)#IMPLIED
--
InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b)--
InheritNum(Inherit
|Ignore)Ignore
--
Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)
--
Continuation(Continues
|Restarts)Restarts
--
Spacing: Whether the vertical space in the list should be compressed
--
Spacing(Normal
|Compact)#IMPLIED
Centers::The number of columns the array should contain

Columns NUMBER #IMPLIED

Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in...
the direction of text flow) in n Columns. If Column
is 1 or implied, Type=Vert and Type=Horiz give the same
results.
---
Type(Inline
Vert
|Horiz)Vert
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![ %member.module; [
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">}}

<!ENTITY % member.element "INCLUDE">
<![ %member.element; [
<!ELEMENT Member - O ((%para.char.mix;)+)>}}
<!--end of member.element-->]]>

<!ENTITY % member.attlist "INCLUDE">
<![ %member.attlist; [
<!ATTLIST Member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>}}
<!--end of member.attlist-->]]>
<!--end of member.module-->]]>
<!--end of simplelist.content.module-->]]>

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![ %variablelist.content.module; [
<!ENTITY % variablelist.module "INCLUDE">
<![ %variablelist.module; [
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "%role.attrib;">}}

<!ENTITY % variablelist.element "INCLUDE">
<![ %variablelist.element; [
<!ELEMENT VariableList - - ((%formalobject.title.content;)?, VarListEntry+)>
<!--end of variablelist.element-->]]>
Units: global unit of measure in which coordinates in this spec are expressed:
- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)
- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content
- LineRange "startline endline": whole lines from startline to endline in "linespecific" content
- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)
- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn)

OtherUnits: User-defined units

OtherUnitsNAME#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
</!--end of areaspec.attlist-->
</!--end of areaspec.module-->
Coord attribute will be removed from AreaSet

-->
<!ATTLIST AreaSet
%label.attrib; --bug number/symbol override or initialization--

--
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
<![ %programlisting.module; [
<!ENTITY % local.programlisting.attrib "">
<!ENTITY % programlisting.role.attrib "%role.attrib;">}

<!ENTITY % programlisting.element "INCLUDE">
<![ %programlisting.element; [
<!ELEMENT ProgramListing - - ((CO | LineAnnotation | %para.char.mix;)+)>}
<!--end of programlisting.element-->]]>

<!ENTITY % programlisting.attlist "INCLUDE">
<![ %programlisting.attlist; [
<!ATTLIST ProgramListing
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
>
<!--end of programlisting.attlist-->]]>
<!--end of programlisting.module-->]]>

<!ENTITY % literallayout.module "INCLUDE">
<!ENTITY % screen.role.attrib "%role.attrib;">  
<!ENTITY % screen.element "INCLUDE">  
<!ELEMENT Screen - - ((CO | LineAnnotation | %para.char.mix;)+)> <!--end of screen.element-->]]>  
<!ENTITY % screen.attlist "INCLUDE">  
<!ATTLIST Screen  
%width.attrib;  
%linespecific.attrib;  
%common.attrib;  
%screen.role.attrib;  
%local.screen.attrib;  
>  
<![--end of screen.attlist-->]]>  
<![--end of screen.module-->]]>  

<!ENTITY % screenshot.content.module "INCLUDE">  
<![ %screenshot.content.module; [  
<!ENTITY % screenshot.module "INCLUDE">  
<![ %screenshot.module; [  
<!ENTITY % local.screenshot.attrib "">  
<!ENTITY % screenshot.role.attrib "%role.attrib;">  

<!ENTITY % screenshot.element "INCLUDE">  
<![ %screenshot.element; [  
<!ELEMENT ScreenShot - - (ScreenInfo?,  
(Graphic|GraphicCO  
[MediaObject|MediaObjectCO)))>  
<![--end of screenshot.element-->]]>  

<!ENTITY % screenshot.attlist "INCLUDE">  
<![ %screenshot.attlist; [  
<!ATTLIST ScreenShot  
%common.attrib;  
%screenshot.role.attrib;  
%local.screenshot.attrib;  
>  
<![--end of screenshot.attlist-->]]>  
<![--end of screenshot.module-->]]>  

<!ENTITY % screeninfo.module "INCLUDE">  
<![ %screeninfo.module; [  
<!ENTITY % local.screeninfo.attrib "">  
<!ENTITY % screeninfo.role.attrib "%role.attrib;">  

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 678
<!-- Graphical data can be the content of Graphic, or you can reference
an external file either as an entity (Entitref) or a filename
(Fileref). -->

<!--end of graphic.element-->

<!--end of graphic.attlist-->

<!--end of inlinegraphic.element-->

<!--end of inlinegraphic.attlist-->

<!--end of mediaobject.content.module-->

<!ENTITY % graphic.module "INCLUDE">
<![ %graphic.module; ]>
<!ENTITY % local.graphic.attrib "">
<!ENTITY % graphic.role.attrib "%role.attrib;">

<!ENTITY % graphic.element "INCLUDE">
<![ %graphic.element; ]>
<!ELEMENT Graphic - O EMPTY>
<!--end of graphic.element-->]]>

<!ENTITY % graphic.attlist "INCLUDE">
<![ %graphic.attlist; ]>
<!ATTLIST Graphic
%graphics.attrib;
%common.attrib;
%graphic.role.attrib;
%local.graphic.attrib;
>
<!--end of graphic.attlist-->]]>
<!--end of graphic.module-->]]>

<!ENTITY % inlinegraphic.module "INCLUDE">
<![ %inlinegraphic.module; ]>
<!ENTITY % local.inlinegraphic.attrib "">
<!ENTITY % inlinegraphic.role.attrib "%role.attrib;">

<!ENTITY % inlinegraphic.element "INCLUDE">
<![ %inlinegraphic.element; ]>
<!ELEMENT InlineGraphic - O EMPTY>
<!--end of inlinegraphic.element-->>]]>

<!ENTITY % inlinegraphic.attlist "INCLUDE">
<![ %inlinegraphic.attlist; ]>
<!ATTLIST InlineGraphic
%graphics.attrib;
%common.attrib;
%inlinegraphic.role.attrib;
%local.inlinegraphic.attrib;
>
<!--end of inlinegraphic.attlist-->]]>
<!--end of inlinegraphic.module-->]]>

<!ENTITY % mediaobject.content.module "INCLUDE">
--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attrvals;
#IMPLIED

%videodata.role.attrib;
%local.videodata.attrib;
>
<!--end of videodata.attlist-->]]>
<!--end of videodata.module-->]]>

<!ENTITY % audiodata.module "INCLUDE">
<![ %audiodata.module; [
<!ENTITY % local.audiodata.attrib ""
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; [
<!ELEMENT AudioData - O EMPTY>
<!--end of audiodata.element-->]]>

<!ENTITY % audiodata.attlist "INCLUDE">
<![ %audiodata.attlist; [
<!ATTLIST AudioData
%common.attrib;
%objectdata.attrib;
%local.audiodata.attrib;
%audiodata.role.attrib;
>
<!--end of audiodata.attlist-->]]>
<!--end of audiodata.module-->]]>

<!ENTITY % imagedata.module "INCLUDE">
<![ %imagedata.module; [
<!ENTITY % local.imagedata.attrib ""
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!ENTITY % imagedata.element "INCLUDE">
<![ %imagedata.element; [
<!ELEMENT ImageData - O EMPTY>
<ENTITY % inlineequation.module "INCLUDE">
<![
%inlineequation.module; [
<ENTITY % local.inlineequation.attrib "">
<ENTITY % inlineequation.role.attrib "%role.attrib;">

<ENTITY % inlineequation.element "INCLUDE">
<!%inlineequation.element; [
<!ELEMENT InlineEquation - - (%inlineequation.content;)>
<!--end of inlineequation.element-->>]

<ENTITY % inlineequation.attlist "INCLUDE">
<!%inlineequation.attlist; [
<!ATTLIST InlineEquation
%common.attrib;
%inlineequation.role.attrib;
%local.inlineequation.attrib;
> 
<!--end of inlineequation.attlist-->>]
<!--end of inlineequation.module-->>]

<ENTITY % alt.module "INCLUDE">
<!%alt.module; [
<ENTITY % local.alt.attrib "">
<ENTITY % alt.role.attrib "%role.attrib;"> 

<ENTITY % alt.element "INCLUDE">
<!%alt.element; [
<!ELEMENT Alt - - (#PCDATA)>
<!--end of alt.element-->>]

<ENTITY % alt.attlist "INCLUDE">
<!%alt.attlist; [
<!ATTLIST Alt
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
> 
<!--end of alt.attlist-->>]
<!--end of alt.module-->>]

<!-- Tables ......................... -->

<ENTITY % table.module "INCLUDE">
<!%table.module; [

<ENTITY % tables.role.attrib "%role.attrib;">

<!-- Add Label attribute to Table element (and InformalTable element). -->
<!ENTITY % synopfragmentref.module "INCLUDE">
<![ %synopfragmentref.module; [ 
<!ENTITY % local.synopfragmentref.attrib ""
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;"

<!ENTITY % synopfragmentref.element "INCLUDE">
<![ %synopfragmentref.element; [ 
<!ELEMENT SynopFragmentRef - - RCDATA >
<!--end of synopfragmentref.element--]>

<!ENTITY % synopfragmentref.attlist "INCLUDE">
<![ %synopfragmentref.attlist; [ 
<!ATTLIST SynopFragmentRef 
%linkendreq.attrib; --to SynopFragment of complex synopsis material for separate referencing-- 
%common.attrib; 
%synopfragmentref.role.attrib; 
%local.synopfragmentref.attrib; 
> 
<!--end of synopfragmentref.attlist--]>
<!--end of synopfragmentref.module--]>

<!ENTITY % synopfragment.module "INCLUDE">
<![ %synopfragment.module; [ 
<!ENTITY % local.synopfragment.attrib ""
<!ENTITY % synopfragment.role.attrib "%role.attrib;"

<!ENTITY % synopfragment.element "INCLUDE">
<![ %synopfragment.element; [ 
<!ELEMENT SynopFragment - - ((Arg | Group)+)> 
<!--end of synopfragment.element--]>

<!ENTITY % synopfragment.attlist "INCLUDE">
<![ %synopfragment.attlist; [ 
<!ATTLIST SynopFragment 
%idreq.common.attrib; 
%synopfragment.role.attrib; 
%local.synopfragment.attrib; 
> 
<!--end of synopfragment.attlist--]>
<!--end of synopfragment.module--]>

<!-- Command (defined in the Inlines section, below)-->
<!-- Option (defined in the Inlines section, below)-->
<!-- Replaceable (defined in the Inlines section, below)-->
<!--end of cmdsynopsis.content.module--]>

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 696
<!ENTITY % void.attlist "INCLUDE">
<![ %void.attlist; [  
<!ATTLIST Void  
%common.attrib;  
%void.role.attrib;  
%local.void.attrib;  
>
<!--end of void.attlist-->]]>
<!ENTITY % varargs.module "INCLUDE">
<![ %varargs.module; [  
<!ENTITY % local.varargs.attrib ""/>
<!ENTITY % varargs.role.attrib "%role.attrib;">  
<!ENTITY % varargs.element "INCLUDE">
<![ %varargs.element; [  
<!ELEMENT VarArgs - O EMPTY>
<!--end of varargs.element-->]]>
<!ENTITY % varargs.attlist "INCLUDE">
<![ %varargs.attlist; [  
<!ENTITY % varargs.role.attrib "%role.attrib;">  
<!ENTITY % paramdef.module "INCLUDE">
<![ %paramdef.module; [  
<!ENTITY % local.paramdef.attrib ""/>
<!ENTITY % paramdef.role.attrib "%role.attrib;">  
<!ENTITY % paramdef.element "INCLUDE">
<![ %paramdef.element; [  
<!ELEMENT ParamDef - - ((#PCDATA  
| Replaceable  
| Parameter
<!ENTITY % classsynopsis.element "INCLUDE">
<![%classsynopsis.element;[
<!ELEMENT ClassSynopsis - - ((OOClass|OOInterface|OOException)+,
    (ClassSynopsisInfo
        [FieldSynopsis|%method.synop.class;]*)*)>
<!--end of classsynopsis.element-->]

<!ENTITY % classsynopsis.attlist "INCLUDE">
<![%classsynopsis.attlist;[
<!ATTLIST ClassSynopsis
    %common.attrib;
    %classsynopsis.role.attrib;
    %local.classsynopsis.attrib;
    LanguageCDATA#IMPLIED
    Class(Class|Interface)"Class" >
<!--end of classsynopsis.attlist-->

<!--end of classsynopsis.module-->

<!ENTITY % classsynopsisinfo.module "INCLUDE">
<![%classsynopsisinfo.module; [
<!ENTITY % local.classsynopsisinfo.attrib "">
<!ENTITY % classsynopsisinfo.role.attrib "%role.attrib;">[
<!ENTITY % classsynopsisinfo.element "INCLUDE">
<![%classsynopsisinfo.element; [
<!ELEMENT ClassSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)* )>
<!--end of classsynopsisinfo.element-->

<!ENTITY % classsynopsisinfo.attlist "INCLUDE">
<![%classsynopsisinfo.attlist; [
<!ATTLIST ClassSynopsisInfo
    %linespecific.attrib;
    %common.attrib;
    %classsynopsisinfo.role.attrib;
    %local.classsynopsisinfo.attrib;
>]
<!--end of classsynopsisinfo.attlist-->

<!--end of classsynopsisinfo.module-->

<!ENTITY % ooclass.module "INCLUDE">
<![%ooclass.module;[
<!ENTITY % local.ooclass.attrib "">
<!ENTITY % ooclass.role.attrib "%role.attrib;">[
<!ENTITY % ooclass.element "INCLUDE">
<![%ooclass.element;]>

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  701
<!ENTITY % exceptionname.role.attrib "%role.attrib;">

<!ENTITY % exceptionname.element "INCLUDE">
<![%exceptionname.element;]
<!ELEMENT ExceptionName - - (%smallcptr.char.mix;)*>
<![-end of exceptionname.element-->]]>

<!ENTITY % exceptionname.attlist "INCLUDE">
<![%exceptionname.attlist;]
<!ATTLIST ExceptionName
%common.attrib;
%exceptionname.role.attrib;
%local.exceptionname.attrib;
> 
<![-end of exceptionname.attlist-->]]>
<![-end of exceptionname.module-->]]>

<!ENTITY % fieldsynopsis.module "INCLUDE">
<![%fieldsynopsis.module;]
<!ENTITY % local.fieldsynopsis.attrib "">
<!ENTITY % fieldsynopsis.role.attrib "%role.attrib;">

<!ENTITY % fieldsynopsis.element "INCLUDE">
<![%fieldsynopsis.element;]
<!ELEMENT FieldSynopsis - - (Modifier*, Type?, VarName, Initializer?)>
<![-end of fieldsynopsis.element-->]]>

<!ENTITY % fieldsynopsis.attlist "INCLUDE">
<![%fieldsynopsis.attlist;]
<!ATTLIST FieldSynopsis
%common.attrib;
%fieldsynopsis.role.attrib;
%local.fieldsynopsis.attrib;
> 
<![-end of fieldsynopsis.attlist-->]]>
<![-end of fieldsynopsis.module-->]]>

<!ENTITY % initializer.module "INCLUDE">
<![%initializer.module;]
<!ENTITY % local.initializer.attrib "">
<!ENTITY % initializer.role.attrib "%role.attrib;">

<!ENTITY % initializer.element "INCLUDE">
<![%initializer.element;]
<!ELEMENT Initializer - - (%smallcptr.char.mix;)*>
<![-end of initializer.element-->]]>

<!ENTITY % initializer.attlist "INCLUDE"
> <!--end of methodname.attlist-->
</![%methodname.module;[>
<!--end of methodname.module-->
]]>

<!ENTITY % methodparam.module "INCLUDE">
<![%methodparam.module;[>
<!ENTITY % local.methodparam.attrib "">
<!ENTITY % methodparam.role.attrib "%role.attrib;">

<!ENTITY % methodparam.element "INCLUDE">
<![%methodparam.element;[>
<!ELEMENT MethodParam - - (Modifier*,
Type?, ((Parameter,Initializer?)|FuncParams),
Modifier*)>
</![--end of methodparam.element-->
]]>

<!ENTITY % methodparam.attlist "INCLUDE">
<![%methodparam.attlist;[>
<!ATTLIST MethodParam %common.attrib;
%methodparam.role.attrib;
%local.methodparam.attrib;
Choice(Opt
|Req
|Plain)|Req"
Rep(Norepeat
|Repeat)|Norepeat"
>
</![--end of methodparam.attlist-->
]]>
</![--end of methodparam.module-->
]]>
</![--end of classsynopsis.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</<!ENTITY % docinfo.content.module "INCLUDE">
<![%docinfo.content.module;[>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</![--end of docinfo.content.module-->
]]>

</<!ENTITY % ackno.module "INCLUDE">

</<!ENTITY % ackno.module "INCLUDE">
<!DOCTYPE ATTLIST PageNums
%common.attrib;
%pagenums.role.attrib;
%local.pagenums.attrib;
>
<!--end of pagenums.attlist-->
<!--end of pagenums.module-->

<!-- Personal identity elements ...... -->

<!-- These elements are used only within Author, Editor, and OtherCredit. -->

<!ENTITY % person.ident.module "INCLUDE">  
<!ENTITY % local.firstname.attrib "">
<!ENTITY % firstname.role.attrib "">

<!ENTITY % contrib.module "INCLUDE">  
<!ENTITY % local.contrib.attrib "">
<!ENTITY % contrib.role.attrib "">

<!ENTITY % contrib.element "INCLUDE">  
<!ENTITY % contrib.attlist "INCLUDE">  
<!ENTITY % firstname.module "INCLUDE">
<!ENTITY % computeroutput.element "INCLUDE">
<![ %computeroutput.element; [
<!ELEMENT ComputerOutput - - ((%cptr.char.mix;)+)>
<!-end of computeroutput.element--]>]

<!ENTITY % computeroutput.attlist "INCLUDE">
<![ %computeroutput.attlist; [
<!ATTLIST ComputerOutput
%moreinfo.attrib;
%common.attrib;
%computeroutput.role.attrib;
%local.computeroutput.attrib;
>
<!-end of computeroutput.attlist--]>]
<!-end of computeroutput.module-->]

<!ENTITY % database.module "INCLUDE">
<![ %database.module; [
<!ENTITY % local.database.attrib "">
<!ENTITY % database.role.attrib "%role.attrib;">

<!ENTITY % database.element "INCLUDE">
<![ %database.element; [
<!ELEMENT Database - - ((%smallcptr.char.mix;)+)>
<!-end of database.element--]>]

<!ENTITY % database.attlist "INCLUDE">
<![ %database.attlist; [
<!ATTLIST Database
--
Class: Type of database the element names; no default
--
Class (Name
|Table
|Field
|Key1
|Key2
|Record)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%database.role.attrib;
%local.database.attrib;
>
<!-end of database.attlist--]>]
<!-end of database.module-->]

<!ENTITY % email.module "INCLUDE">
Macro
OSname
Resource
SystemName
UserName)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%systemitem.role.attrib;
%local.systemitem.attrib;
>
<!--end of systemitem.attlist-->]]>
<!--end of systemitem.module-->]]>

<!ENTITY % token.module "INCLUDE" >
<! [ %token.module; [ 
<!ENTITY % local.token.attrib ""> 
<!ENTITY % token.role.attrib " %role.attrib;"> 

<!ENTITY % token.element "INCLUDE" >
<! [ %token.element; [ 
<!ELEMENT Token - - ((%smallcptr.char.mix;)+)> 
<!--end of token.element-->]]>

<!ENTITY % token.attlist "INCLUDE" >
<! [ %token.attlist; [ 
<!ATTLIST Token 
%common.attrib; 
%token.role.attrib; 
%local.token.attrib; 
> 
<!--end of token.attlist-->]]>
<! --end of token.module-->]]>

<!ENTITY % type.module "INCLUDE" >
<! [ %type.module; [ 
<!ENTITY % local.type.attrib ""> 
<!ENTITY % type.role.attrib " %role.attrib;"> 

<!ENTITY % type.element "INCLUDE" >
<! [ %type.element; [ 
<!ELEMENT Type - - ((%smallcptr.char.mix;)+)> 
<!--end of type.element-->]]>

<!ENTITY % type.attlist "INCLUDE" >
<! [ %type.attlist; [ 
<!ATTLIST Type 
%common.attrib;
Type: Freely assignable parameter
--

TypeCDATA#IMPLIED
%common.attrib;
%ulink.role.attrib;
%local.ulink.attrib;
>
<![--end of ulink.attlist--]]>
<![--end of ulink.module--]]>

<![ENTITY % footnoteref.module "INCLUDE">
<![ %footnoteref.module; [ 
<![ENTITY % local.footnoteref.attrib "" ]
<![ENTITY % footnoteref.role.attrib "%role.attrib;" ]

<![ENTITY % footnoteref.element "INCLUDE">
<![ %footnoteref.element; [ 
<![ELEMENT FootnoteRef - O EMPTY>
<![--end of footnoteref.element--]]>

<![ENTITY % footnoteref.attlist "INCLUDE">
<![ %footnoteref.attlist; [ 
<![ATTLIST FootnoteRef
%linkendreq.attrib; --to footnote content supplied elsewhere--
%label.attrib;
%common.attrib;
%footnoteref.role.attrib;
%local.footnoteref.attrib;
>
<![--end of footnoteref.attlist--]]>
<![--end of footnoteref.module--]]>

<![ENTITY % xref.module "INCLUDE">
<![ %xref.module; [ 
<![ENTITY % local.xref.attrib "" ]
<![ENTITY % xref.role.attrib "%role.attrib;" ]

<![ENTITY % xref.element "INCLUDE">
<![ %xref.element; [ 
<![ELEMENT XRef - O EMPTY>
<![--end of xref.element--]]>

<![ENTITY % xref.attlist "INCLUDE">
<![ %xref.attlist; [ 
<![ATTLIST XRef
--

Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as
the content of this element
--
EndtermIDREF#IMPLIED
%linkendreq.attrib; --to linked-to object--
%common.attrib;
%xref.role.attrib;
%local.xref.attrib;
>
<!--end of xref.attlist-->]]>
<!--end of xref.module-->]]>

<!-- Ubiquitous elements .................................................. -->

<!ENTITY % anchor.module "INCLUDE">
<![ %anchor.module; [ 
<!ENTITY % local.anchor.attrib """>
<!ENTITY % anchor.role.attrib "%role.attrib;">

<!ENTITY % anchor.element "INCLUDE">
<![ %anchor.element; [ 
<!ELEMENT Anchor - O EMPTY>
<!--end of anchor.element-->]]>

<!ENTITY % anchor.attlist "INCLUDE">
<![ %anchor.attlist; [ 
<!ATTLIST Anchor
%idreq.attrib; -- required --
%pagenum.attrib; --replaces Lang --
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%anchor.role.attrib;
%local.anchor.attrib;
>
<!--end of anchor.attlist-->]]>
<!--end of anchor.module-->]]>

<!ENTITY % beginpage.module "INCLUDE">
<![ %beginpage.module; [ 
<!ENTITY % local.beginpage.attrib """>
<!ENTITY % beginpage.role.attrib "%role.attrib;">

<!ENTITY % beginpage.element "INCLUDE">
<![ %beginpage.element; [ 
<!ELEMENT BeginPage - O EMPTY>
<!--end of beginpage.element-->]]>
Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges

Class(Singular
|StartOfRange
|EndOfRange)#IMPLIED

StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm

StartRefIDREF#CONREF

Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs

ZoneIDREFS#IMPLIED

SortAs: Alternate sort string for index sorting, e.g., "fourteen" for an element containing "14"

SortAsCDATA#IMPLIED
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.5.zip-cosi-expand-archive-fPrcjOYv/docbook.dtd
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.4 ......................... -->
<!-- File dbpoolx.mod ..................................................... -->


$Id: dbpoolx.mod,v 1.107 2005/01/27 13:52:00 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->
<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation. -->
This module has the following dependencies on other modules:

- It assumes that a `%notation.class;` entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.4//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">
<!ENTITY % yesorno.attvals"CDATA">
<!ENTITY % dbpool.redecl.module "IGNORE">
<!ENTITY % local.ndxterm.class "">
|function|guibutton|guiicon|guilabel|guimenu|guimenuitem
guisubmenu|hardware|interface|keycap
[keycode|keycombo|keysym|literal|code|constant|markup|medialabel
|menuchoice|mousebutton|option|optional|parameter
|prompt|property|replaceable|returnvalue|sgmltag|structfield
|structname|symbol|systemitem|uri|token|type|userinput|varname
%ebnf.inline.hook;
%local.tech.char.class;">

<!ENTITY % local.base.char.class "">
<!ENTITY % base.char.class
"anchor %local.base.char.class;">  

<!ENTITY % local.docinfo.char.class "">
<!ENTITY % docinfo.char.class
"author|authorinitials|corpauthor|corpcredit|modespec|othercredit
|productname|productnumber|revhistory
%local.docinfo.char.class;">  

<!ENTITY % local.other.char.class "">
<!ENTITY % other.char.class
"remark|subscript|superscript %local.other.char.class;">  

<!ENTITY % local.inlineobj.char.class "">
<!ENTITY % inlineobj.char.class
"inlinegraphic|inlinemediaobject|inlineequation %local.inlineobj.char.class;">  

<!ENTITY % formalobject.title.content "title, titleabbrev?">  

<!ENTITY % rdbpool.redecl.module:[
<!ENTITY % rdbpool "">  
%rdbpool;
<!-end of dbpool.redecl.module-->

<!- Object-level mixtures .............................................. -->

<!- Entities for content models ...................................... -->

<!- Redeclaration placeholder ........................................ -->

<!- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![%dbpool.redecl.module;
<!- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">  
%rdbpool;
<!-end of dbpool.redecl.module-->

<!- Object-level mixtures .............................................. -->
Component mixture  X X X X X X X X X X
Sidebar mixture    X X X X X X X a X
Footnote mixture   X X X X X
Example mixture    X X X X X
Highlights mixture X X X
Paragraph mixture  X X X X
Admonition mixture X X X X X X X b c
Figure mixture     X X X
d e.
Table entry mixture X X X X d
Glossary def mixture X X X X X e
Legal notice mixture X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlineobj.char.class;
%synop.class;
[%ndxterm.class];
%beginpage
%forminlines.hook;
%local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlineobj.char.class;
[%ndxterm.class];
<!ENTITY % person.ident.mix (see Bibliographic section, below)-->

<!-- Entities for attributes and attribute components .......... -->

<!-- Effectivity attributes ...........................................-->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib 
"archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib 
"conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib 
"conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib 
"osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib 
"revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib 
"securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib 
"userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->
<!-- Role is included explicitly on each element -->

<!-- Semi-common attributes and other attribute entities .................. -->

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!-- ENTITY % graphics.attrib -->

entityrefENTITY#IMPLIED
typrefCDATA#IMPLIED
format(%notation.class;) #IMPLIED
srccreditCDATA#IMPLIED
<!ENTITY % titleabbrev.role.attrib "%role.attrib;">

<!ENTITY % titleabbrev.element "INCLUDE">
<!%titleabbrev.element;>
<!ELEMENT titleabbrev %ho; (%title.char.mix;)*>
<!--end of titleabbrev.element-->]

<!ENTITY % titleabbrev.attlist "INCLUDE">
<!%titleabbrev.attlist;>
<!ATTLIST titleabbrev
%common.attrib;
%titleabbrev.role.attrib;
%local.titleabbrev.attrib;
>
<!--end of titleabbrev.attlist-->]]>
<!--end of titleabbrev.module-->]]>

<!ENTITY % subtitle.module "INCLUDE">
<!%subtitle.module;>
<!ENTITY % local.subtitle.attrib "">
<!ENTITY % subtitle.role.attrib "%role.attrib;">

<!ENTITY % subtitle.element "INCLUDE">
<!%subtitle.element;>
<!ELEMENT subtitle %ho; (%title.char.mix;)*>
<!--end of subtitle.element-->]]>

<!ENTITY % subtitle.attlist "INCLUDE">
<!%subtitle.attlist;>
<!ATTLIST subtitle
%common.attrib;
%subtitle.role.attrib;
%local.subtitle.attrib;
>
<!--end of subtitle.attlist-->]]>
<!--end of subtitle.module-->]]>

<!-- ................................................................. -->
<!-- Bibliographic entities and elements .................................. -->
<!-- The bibliographic elements are typically used in the document
hierarchy. They do not appear in content models of information
pool elements. See also the document information elements,
below. -->

<!-- !-- The bibliographic elements are typically used in the document
hierarchy. They do not appear in content models of information
pool elements. See also the document information elements,
below. -->

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation
<!-- Performance: Whether the Step must be performed -->
<!-- not #REQUIRED! -->

<!-- Performance: Whether the Step must be performed -->
<!-- not #REQUIRED! -->
<!ENTITY % attribution.module "INCLUDE">
<!--[ attribution.module: [
    <!ENTITY % local.attribution.attrib "">
    <!ENTITY % attribution.role.attrib "%role.attrib;"> 
    <!--end of attribution.module-->
    ]>

<!ENTITY % bridgehead.module "INCLUDE">
<!--[ bridgehead.module: [
    <!ENTITY % local.bridgehead.attrib "">
    <!ENTITY % bridgehead.role.attrib "%role.attrib;"> 
    <!--end of bridgehead.module-->
    ]>

<!ENTITY % attribution.element "INCLUDE">
<!--[ attribution.element: [
    <!ELEMENT attribution %ho; (%para.char.mix;)*>
    <!--end of attribution.element-->
    ]>

<!ENTITY % attribution.attlist "INCLUDE">
<!--[ attribution.attlist: [
    <!ATTLIST attribution
    %common.attrib;
    %attribute.role.attrib;
    %local.attribution.attrib;
    >
    <!--end of attribution.attlist-->
    ]>

<!ENTITY % bridgehead.element "INCLUDE">
<!--[ bridgehead.element: [
    <!ELEMENT bridgehead %ho; (%title.char.mix;)>*>
    <!--end of bridgehead.element-->
    ]>

<!-- Renderas: Indicates the format in which the BridgeHead
should appear -->

<!ENTITY % bridgehead.attlist "INCLUDE">
<!--[ bridgehead.attlist: [
    <!ATTLIST bridgehead
    renderas	(other
    |sect1
    |sect2
    |sect3
    |sect4
    |sect5)#IMPLIED
    %common.attrib;
    %bridgehead.role.attrib;
    %local.bridgehead.attrib;
    >
    <!--end of bridgehead.attlist-->
    ]>
<!ENTITY % glossdef.module "INCLUDE">
<![%glossdef.module:]
<!ENTITY % local.glossdef.attrib ">">
<!ENTITY % glossdef.role.attrib "%role.attrib;">

<!ENTITY % glossdef.element "INCLUDE">
<![%glossdef.element:]
<!ELEMENT glossdef %ho; ((%glossdef.mix;)+, glossseealso*)>
<![--end of glossdef.element-->]]>

<!-- Subject: List of subjects; keywords for the definition -->

<!ENTITY % glossdef.attlist "INCLUDE">
<![%glossdef.attlist:]
<!ATTLIST glossdef
subjectCDATA#IMPLIED
%common.attrib;
%glossdef.role.attrib;
%local.glossdef.attrib;
>
<![--end of glossdef.attlist-->]]>
<![--end of glossdef.module-->]]>

<!ENTITY % glosssee.module "INCLUDE">
<![%glosssee.module:]
<!ENTITY % local.glosssee.attrib "">">
<!ENTITY % glosssee.role.attrib "%role.attrib;">

<!ENTITY % glosssee.element "INCLUDE">
<![%glosssee.element:]
<!ELEMENT glosssee %ho; (%para.char.mix;)*>
<![--end of glosssee.element-->]]>

<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee -->

<!ENTITY % glosssee.attlist "INCLUDE">
<![%glosssee.attlist:]
<!ATTLIST glosssee
othertermIDREF#IMPLIED
%common.attrib;
%glosssee.role.attrib;
%local.glosssee.attrib;
>
<![--end of glosssee.attlist-->]]>
<![--end of glosssee.module-->]]>
<ENTITY % seg.module "INCLUDE">
<! [%seg.module:]
<ENTITY % local.seg.attrib "">
<ENTITY % seg.role.attrib "%role.attrib;">

<ENTITY % seg.element "INCLUDE">
<! [%seg.element:]
<ELEMENT seg %ho; (%para.char.mix;)*>
<!--end of seg.element-->

<ENTITY % seg.attlist "INCLUDE">
<! [%seg.attlist:]
<ATTLIST seg
%common.attrib;
%seg.role.attrib;
%local.seg.attrib;
>
<!--end of seg.attlist-->

<ENTITY % simplelist.content.module "INCLUDE">
<! [%simplelist.content.module:]
<ENTITY % simplelist.module "INCLUDE">
<! [%simplelist.module:]
<ENTITY % local.simplelist.attrib "">
<ENTITY % simplelist.role.attrib "%role.attrib;">

<ENTITY % simplelist.element "INCLUDE">
<! [%simplelist.element:]
<ELEMENT simplelist %ho; (member+)>
<ENTITY % simplelist.content.module "INCLUDE">
<! [%simplelist.content.module:]
<ENTITY % simplelist.role.attrib "%role.attrib;">

<ENTITY % simplelist.element "INCLUDE">
<! [%simplelist.element:]
<! ELEMENT simplelist %ho; (member+)>
<!--end of simplelist.element-->

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->
<!-- TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->

<!--end of variablelist.element-->

<!--end of variablelist.module-->

<!--end of variablelist.attlist-->

<!--end of variablelist.module-->

<!--end of varlistentry.attlist-->

<!--end of varlistentry.module-->

<!--end of term.module-->

<!--end of term.element-->

<!--begin of variablelist.element-->

<!ENTITY % variablelist.attlist "INCLUDE">
<![%variablelist.attlist;[
<ATTLIST variablelist
termlengthCDATA#IMPLIED
spacing(normal |compact)#IMPLIED
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<!--end of variablelist.attlist-->]]>
<!--end of variablelist.module-->]]>

<!--begin of varlistentry.element-->

<!ENTITY % varlistentry.module "INCLUDE">
<![%varlistentry.module;[
<!ENTITY % local.varlistentry.attrib "">
<!ENTITY % varlistentry.role.attrib "%role.attrib;">

<!--begin of varlistentry.element-->

<!ENTITY % varlistentry.attlist "INCLUDE">
<![%varlistentry.attlist;[
<ATTLIST varlistentry
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
>
<!--end of varlistentry.attlist-->]]>
<!--end of varlistentry.module-->]]>

<!--begin of term.element-->

<!ENTITY % term.module "INCLUDE">
<![%term.module;[
<!ENTITY % local.term.attrib "">
<!ENTITY % term.role.attrib "%role.attrib;">

<!--begin of term.element-->

<!ENTITY % term.element "INCLUDE">
<![%term.element;[}
<ENTITY % callout.attlist "INCLUDE">
<![%callout.attlist;[ 
<!ATTLIST callout areaarefsIDREFS#REQUIRED %common.attrib; %callout.role.attrib; %local.callout.attrib; ]
<!--end of callout.attlist-->
</callout>
</--end of callout.module-->
</--end of calloutlist.content.module-->

<ENTITY % example.module "INCLUDE">
<![%example.module;[ 
<!ENTITY % local.example.attrib ""; 
<!ENTITY % example.role.attrib "%role.attrib;"; 
<!ENTITY % example.element "INCLUDE">
<!ELEMENT example %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+) %formal.exclusion;>
<!--end of example.element-->
</example>
<!ENTITY % example.attlist "INCLUDE">
<![%example.attlist;[ 
<!ATTLIST example floatstyleCDATA#IMPLIED %label.attrib; %width.attrib; %common.attrib; %example.role.attrib; %local.example.attrib; ]
<!--end of example.attlist-->
</example>
<!ENTITY % informalexample.module "INCLUDE">
<!ENTITY % areaspec.element "INCLUDE">
<![<!areaspec.element;[
<!ELEMENT areaspec %ho; ((area|areaset)+)
<!!--end of areaspec.element-->]]> 

<!-- Units: global unit of measure in which coordinates in this spec are expressed: 

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes) 

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content 

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content 

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines) 

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword 

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![<!areaspec.attlist;[
<!ATTLIST areaspec
units		(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.attlist-->]]>
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 842
<!-- Equations ......................... -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!-- Tables ........................... -->

<!-- Choose a table model. CALS or OASIS XML Exchange -->
<!ENTITY % arg.attlist "INCLUDE">
<!ATTLIST arg choice(opt | req | plain) opt rep (norepeat | repeat) norepeat %common.attrib; %arg.role.attrib; %local.arg.attrib; >

<!ENTITY % arg.module "INCLUDE">
<!ENTITY % arg.role.attrib "">
<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">

<!ENTITY % group.element "INCLUDE">
<!ENTITY % group.element;[
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref | replaceable | sbr)+)>

<!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]]), or ReqMult (must supply one or more, e.g. [1].-->

<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->
<!ELEMENT funcprototype %ho; (modifier*,
  funcdef,
  (void|varargs|(paramdef+, varargs?)),
  modifier*)>

<!--end of funcprototype.element-->

<!ENTITY % funcprototype.attlist "INCLUDE">
<![%funcprototype.attlist;[
<!ATTLIST funcprototype
%common.attrib;
%funcprototype.role.attrib;
%local.funcprototype.attrib;
>]
<!--end of funcprototype.attlist-->
<!--end of funcprototype.module-->

<!ENTITY % funcdef.module "INCLUDE">
<![%funcdef.module;[
<!ENTITY % local.funcdef.attrib ""
<!ENTITY % funcdef.role.attrib "%role.attrib;">

<!ENTITY % funcdef.element "INCLUDE">
<![%funcdef.element;[
<!ELEMENT funcdef %ho; (#PCDATA
  | type
  | replaceable
  | function)*>
<!--end of funcdef.element-->

<!ENTITY % funcdef.attlist "INCLUDE">
<![%funcdef.attlist;[
<!ATTLIST funcdef
%common.attrib;
%funcdef.role.attrib;
%local.funcdef.attrib;
>]
<!--end of funcdef.attlist-->
<!--end of funcdef.module-->

<!ENTITY % void.module "INCLUDE">
<![%void.module;[
<!ENTITY % local.void.attrib ""
<!ENTITY % void.role.attrib "%role.attrib;">

<!ENTITY % void.element "INCLUDE">
<![%void.element;[
<!ELEMENT void %ho; EMPTY>
<!-- Processing assumes that only one Parameter will appear in a 
ParamDef, and that FuncParams will be used at most once, for 
providing information on the "inner parameters" for parameters that 
are pointers to functions. -->
<!ATTLIST ooexception
%common.attrib;
%ooexception.role.attrib;
%local.ooexception.attrib;
>
<!--end of ooexception.attlist-->
<!--end of ooexception.module-->

<!ENTITY % modifier.module "INCLUDE">
<![modifier.module;[
<!ENTITY % local.modifier.attrib "">
<!ENTITY % modifier.role.attrib "%role.attrib;">

<!ENTITY % modifier.element "INCLUDE">
<![modifier.element;[
<!ELEMENT modifier %ho; (%smallcptr.char.mix;)*>
<!--end of modifier.element-->

<!ENTITY % modifier.attlist "INCLUDE">
<![modifier.attlist;[
<!ATTLIST modifier
%common.attrib;
%modifier.role.attrib;
%local.modifier.attrib;
>
<!--end of modifier.attlist-->
<!--end of modifier.module-->

<!ENTITY % interfacename.module "INCLUDE">
<![interfacename.module;[
<!ENTITY % local.interfacename.attrib "">
<!ENTITY % interfacename.role.attrib "%role.attrib;">

<!ENTITY % interfacename.element "INCLUDE">
<![interfacename.element;[
<!ELEMENT interfacename %ho; (%cptr.char.mix;)*>
<!--end of interfacename.element-->

<!ENTITY % interfacename.attlist "INCLUDE">
<![interfacename.attlist;[
<!ATTLIST interfacename
%common.attrib;
%interfacename.role.attrib;
%local.interfacename.attrib;
>
<!--end of interfacename.attlist-->
<!--end of interfacename.module-->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 868
<!ENTITY % exceptionname.module "INCLUDE">
<![%exceptionname.module;]
<!ENTITY % local.exceptionname.attrib "">
<!ENTITY % exceptionname.role.attrib "%role.attrib;">

<!ENTITY % exceptionname.element "INCLUDE">
<![%exceptionname.element;]
<!ELEMENT exceptionname (%ho; (%smalleptr.char.mix;)*>
<!--end of exceptionname.element-->]]>

<!ENTITY % exceptionname.attlist "INCLUDE">
<![%exceptionname.attlist;]
<!ATTLIST exceptionname
%common.attrib;
%exceptionname.role.attrib;
%local.exceptionname.attrib;
>
<![!--end of exceptionname.attlist-->]]>
<![!--end of exceptionname.module-->]]>

<!ENTITY % fieldsynopsis.module "INCLUDE">
<![%fieldsynopsis.module;]
<!ENTITY % local.fieldsynopsis.attrib "">
<!ENTITY % fieldsynopsis.role.attrib "%role.attrib;">

<!ENTITY % fieldsynopsis.element "INCLUDE">
<![%fieldsynopsis.element;]
<!ELEMENT fieldsynopsis %ho; (modifier*, type?, varname, initializer?)>
<![!--end of fieldsynopsis.element-->]]>

<!ENTITY % fieldsynopsis.attlist "INCLUDE">
<![%fieldsynopsis.attlist;]
<!ATTLIST fieldsynopsis
languageCDATA#IMPLIED
%common.attrib;
%fieldsynopsis.role.attrib;
%local.fieldsynopsis.attrib;
>
<![!--end of fieldsynopsis.attlist-->]]>
<![!--end of fieldsynopsis.module-->]]>

<!ENTITY % initializer.module "INCLUDE">
<![%initializer.module;]
<!ENTITY % local.initializer.attrib "">
<!ENTITY % initializer.role.attrib "%role.attrib;">

<!ENTITY % initializer.element "INCLUDE">
<![%initializer.element;]
<!ELEMENT initializer %ho; (%smallcptr.char.mix;)*>
<!--end of initializer.element-->

<!ENTITY % initializer.attlist "INCLUDE">
<![%initializer.attlist;]
<!ATTLIST initializer
%common.attrib;
%initializer.role.attrib;
%local.initializer.attrib;
>
<!--end of initializer.attlist-->]]>
<!--end of initializer.module-->]]>

<!ENTITY % constructorsynopsis.module "INCLUDE">
<![%constructorsynopsis.module;]
<![ENTITY % local.constructorsynopsis.attrib ""
<!ENTITY % constructorsynopsis.role.attrib ">%role.attrib;">

<!ENTITY % constructorsynopsis.element "INCLUDE">
<![%constructorsynopsis.element;]
<!ELEMENT constructorsynopsis %ho; (modifier*,
    methodname?,
    (methodparam+|void?),
    exceptionname*)>
<!--end of constructorsynopsis.element-->

<!ENTITY % constructorsynopsis.attlist "INCLUDE">
<![%constructorsynopsis.attlist;]
<!ATTLIST constructorsynopsis
languageCDATA#IMPLIED
%common.attrib;
%constructorsynopsis.role.attrib;
%local.constructorsynopsis.attrib;
>
<!--end of constructorsynopsis.attlist-->
<!--end of constructorsynopsis.module-->

<!ENTITY % destructorsynopsis.module "INCLUDE">
<![%destructorsynopsis.module;]
<![ENTITY % local.destructorsynopsis.attrib ""
<!ENTITY % destructorsynopsis.role.attrib ">%role.attrib;">

<!ENTITY % destructorsynopsis.element "INCLUDE">
<![%destructorsynopsis.element;]
<!ELEMENT destructorsynopsis %ho; (modifier*,
    methodname?,
    (methodparam+|void?),
    exceptionname*)>
The document information entities include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.
<!- .............................. -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![%docinfo.content.module;]

<!- Ackno ........................ -->

<!ENTITY % ackno.module "INCLUDE">
<![%ackno.module;]
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">

<!ENTITY % ackno.element "INCLUDE">
<![%ackno.element;]
<!ELEMENT ackno %ho; (%docinfo.char.mix;)*>
<![--end of ackno.element--]>

<!ENTITY % ackno.attlist "INCLUDE">
<![%ackno.attlist;]
<!ATTLIST ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<![--end of ackno.attlist--]>

<!- Address ........................ -->

<!ENTITY % address.content.module "INCLUDE">
<![%address.content.module;]
<!ENTITY % address.module "INCLUDE">
<![%address.module;]
<!ENTITY % local.address.attrib "">
<!ENTITY % address.role.attrib "%role.attrib;">

<!ENTITY % address.element "INCLUDE">
<![%address.element;]
<!ELEMENT address %ho; (#PCDATA|personname|%person.ident.mix;
|street|pob|postcode|city|state|country|phone
|fax|email|otheraddr)*>
<![--end of address.element--]>

<!ENTITY % address.attlist "INCLUDE">
<![%address.attlist;]
<!ATTLIST address
%linespecific.attrib;
%common.attrib;>
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  878
<!-- Address (defined elsewhere in this section)-->

<!-- ContractNum ...................... -->

<!-- ContractSponsor .................. -->
%common.attrib;
%invpartnumber.role.attrib;
%local.invpartnumber.attrib;
>
<!-- end of invpartnumber.attlist-->
<!-- end of invpartnumber.module-->

<!ENTITY % issuenum.module "INCLUDE">
<![%issuenum.module;]
<!ENTITY % local.issuenum.attrib "">
<!ENTITY % issuenum.role.attrib "%role.attrib;">

<!ENTITY % issuenum.element "INCLUDE">
<![%issuenum.element;]
<!ELEMENT issuenum %ho; (%docinfo.char.mix;)*>
<!-- end of issuenum.element-->

<!ENTITY % issuenum.attlist "INCLUDE">
<![%issuenum.attlist;]
<!ATTLIST issuenum
%common.attrib;
%issuenum.role.attrib;
%local.issuenum.attrib;
>
<!-- end of issuenum.attlist-->
<!-- end of issuenum.module-->

<!ENTITY % legalnotice.module "INCLUDE">
<![%legalnotice.module;]
<!ENTITY % local.legalnotice.attrib "">
<!ENTITY % legalnotice.role.attrib "%role.attrib;">

<!ENTITY % legalnotice.element "INCLUDE">
<![%legalnotice.element;]
<!ELEMENT legalnotice %ho; (blockinfo?, title?, (%legalnotice.mix;)+)
%formal.exclusion;>
<!-- end of legalnotice.element-->

<!ENTITY % legalnotice.attlist "INCLUDE">
<![%legalnotice.attlist;]
<!ATTLIST legalnotice
%common.attrib;
%legalnotice.role.attrib;
%local.legalnotice.attrib;
>
<!--end of legalnotice.attlist-->]]>
<!--end of legalnotice.module-->]]>

<!-- ModeSpec ......................... -->

<!ENTITY % modespec.module "INCLUDE">
<![%modespec.module;[
<!ENTITY % local.modespec.attrib "">
<!ENTITY % modespec.role.attrib "%role.attrib;">

<!ENTITY % modespec.element "INCLUDE">
<![%modespec.element;[
<!ELEMENT modespec %ho; (%docinfo.char.mix;)*
%ubiq.exclusion;>
<!--end of modespec.element-->]]>

<!-- Application: Type of action required for completion of the links to which the ModeSpec is relevant (e.g., retrieval query) -->

<!ENTITY % modespec.attlist "INCLUDE">
<![%modespec.attlist;[
<!ATTLIST modespec
application NOTATION
(%notation.class;)#IMPLIED
%common.attrib;
%modespec.role.attrib;
%local.modespec.attrib;
>
<!--end of modespec.attlist-->]]>
<!--end of modespec.module-->]]>

<!-- OrgName ......................... -->

<!ENTITY % orgname.module "INCLUDE">
<![%orgname.module;[
<!ENTITY % local.orgname.attrib "">
<!ENTITY % orgname.role.attrib "%role.attrib;">

<!ENTITY % orgname.element "INCLUDE">
<![%orgname.element;[
<!ELEMENT orgname %ho; (%docinfo.char.mix;)*>
<!--end of orgname.element-->]]>

<!ENTITY % orgname.attlist "INCLUDE">
<![%orgname.attlist;[}
<!-- Personal identity elements ...... -->

<!-- These elements are used only within Author, Editor, and OtherCredit. -->

<!-- ENTITY % person.ident.module "INCLUDE" -->
<!-- ENTITY % contrib.module "INCLUDE" -->
<!-- ENTITY % contrib.element "INCLUDE" -->
<!-- ENTITY % contrib.attlist "INCLUDE" -->
<!-- ENTITY % firstname.module "INCLUDE" -->
<!-- ENTITY % firstname.element "INCLUDE" -->
<!ENTITY % local.coref.attrib "">
<!ENTITY % coref.role.attrib "role.attrib;">

<!ENTITY % coref.element "INCLUDE">
<!ENTITY % coref.attlist "INCLUDE">
<!ENTITY % command.module "INCLUDE">
<!ENTITY % command.attlist "INCLUDE">
<!ENTITY % computeroutput.module "INCLUDE">

<!ENTITY % local.command.attrib "">
<!ATTLIST coref
%label.attrib;
%linkendreq.attrib;
%common.attrib;
%coref.role.attrib;
%local.coref.attrib;
>
<!ENTITY % local.computeroutput.attrib "">
<!ATTLIST command
%moreinfo.attrib;
%common.attrib;
%command.role.attrib;
%local.command.attrib;
>
<!ENTITY % local.command.module;>
<!ENTITY % command.role.attrib "role.attrib;">
<!ENTITY % local.coref.attrib "">
<!ENTITY % local.command.attrib "">
<!ENTITY % local.computeroutput.attrib "">
<!ENTITY % computeroutput.role.attrib "%role.attrib;">  

<!ENTITY % computeroutput.element "INCLUDE">  
<![%computeroutput.element;] 
<!ELEMENT computeroutput %ho; (%cptr.char.mix;|co)*> 
<!--end of computeroutput.element-->]]>

<!ENTITY % computeroutput.attlist "INCLUDE">  
<![%computeroutput.attlist;] 
<!ATTLIST computeroutput 
%moreinfo.attrib; 
%common.attrib; 
%computeroutput.role.attrib; 
%local.computeroutput.attrib; 
> 
<!--end of computeroutput.attlist-->]]>

<!ENTITY % database.module "INCLUDE">  
<![%database.module;] 
<!ENTITY % local.database.attrib "">

<!ENTITY % database.role.attrib "%role.attrib;">  

<!ENTITY % database.element "INCLUDE">  
<![%database.element;] 
<!ELEMENT database %ho; (%cptr.char.mix;)*> 
<!--end of database.element-->]]>

<!-- Class: Type of database the element names; no default -->

<!ENTITY % database.attlist "INCLUDE">  
<![%database.attlist;] 
<!ATTLIST database 
class (name |
table |
field |
key1 |
key2 |
record |
index |
view |
primarykey |
secondarykey |
foreignkey |
altikey |
procedure |
datatype>
<!-- start of database.attlist-->
<!-- start of database.module-->
<!ENTITY % email.module "INCLUDE">
<![email.module:]
<!ENTITY % local.email.attrib "">
<!ENTITY % email.role.attrib "%role.attrib;">

<!ENTITY % email.element "INCLUDE">
<![email.element:]
<!ELEMENT email %ho; (%docinfo.character.mix;)*>
<!--end of email.element-->

<!ENTITY % email.attlist "INCLUDE">
<![email.attlist:]
<!ATTLIST email
%common.attrib;
%email.role.attrib;
%local.email.attrib;
>
<!--end of email.attlist-->
<!--end of email.module-->

<!ENTITY % envar.module "INCLUDE">
<![envar.module:]
<!ENTITY % local.envar.attrib "">
<!ENTITY % envar.role.attrib "%role.attrib;">

<!ENTITY % envar.element "INCLUDE">
<![envar.element:]
<!ELEMENT envar %ho; (%smallcptr.character.mix;)*>
<!--end of envar.element-->

<!ENTITY % envar.attlist "INCLUDE">
<![envar.attlist:]
<!ATTLIST envar
%common.attrib;
%envar.role.attrib;
%local.envar.attrib;
>
<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which
file can be found -->

<!ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;]
<!ATTLIST filename
class(headerfile
  |partition
  |devicefile
  |libraryfile
  |directory
  |extension
|symlink)   #IMPLIED
pathCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->]]>
<!--end of filename.module-->]]>

<!ENTITY % function.module "INCLUDE">
<![%function.module;]
<!ENTITY % local.function.attrib "">>
<!ENTITY % function.role.attrib "%role.attrib;">

<!ENTITY % function.element "INCLUDE">
<![%function.element;]
<!ELEMENT function %ho; (%cptr.char.mix;)*>
<!--end of function.element-->]]>
<!ENTITY % function.attlist "INCLUDE">
<![%function.attlist;]
<!ATTLIST function
%moreinfo.attrib;
%common.attrib;
%function.role.attrib;
%local.function.attrib;
>
<!--end of function.attlist-->]]>
<!--end of function.module-->]]>

<!ENTITY % guibutton.module "INCLUDE">
<![%guibutton.module;]
<!ENTITY % local.guibutton.attrib "">>
<!ENTITY % guibutton.role.attrib "%role.attrib;">  
<!ENTITY % guibutton.element "INCLUDE">  
<![%guibutton.element;]>
<!ELEMENT guibutton %ho; (%smallcptr.char.mix;|accel|superscript|subscript)*>  
<![!--end of guibutton.element-->]]>
<!ENTITY % guibutton.attlist "INCLUDE">  
<![%guibutton.attlist;]>
<!ATTLIST guibutton  
%moreinfo.attrib;  
%common.attrib;  
%guibutton.role.attrib;  
%local.guibutton.attrib;  
>  
<![!--end of guibutton.attlist-->]]>
<![!--end of guibutton.module-->]]>
<!ENTITY % guiicon.module "INCLUDE">  
<![%guiicon.module;]>
<!ENTITY % local.guiicon.attrib "">  
<!ENTITY % guiicon.role.attrib "%role.attrib;">  
<!ENTITY % guiicon.element "INCLUDE">  
<![%guiicon.element;]>
<!ELEMENT guiicon %ho; (%smallcptr.char.mix;|accel|superscript|subscript)*>  
<![!--end of guiicon.element-->]]>
<!ENTITY % guiicon.attlist "INCLUDE">  
<![%guiicon.attlist;]>
<!ATTLIST guiicon  
%moreinfo.attrib;  
%common.attrib;  
%guiicon.role.attrib;  
%local.guiicon.attrib;  
>  
<![!--end of guiicon.attlist-->]]>
<![!--end of guiicon.module-->]]>
<!ENTITY % guilabel.module "INCLUDE">  
<![%guilabel.module;]>
<!ENTITY % local.guilabel.attrib "">  
<!ENTITY % guilabel.role.attrib "%role.attrib;">  
<!ENTITY % guilabel.element "INCLUDE">  
<![%guilabel.element;]>
<!ELEMENT guilabel %ho; (%smallcptr.char.mix;|accel|superscript|subscript)*>  
<![!--end of guilabel.element-->]]>
<!ENTITY % interface.module "INCLUDE">
<![%interface.module;]
<!ENTITY % local.interface.attrib "">
<!ENTITY % interface.role.attrib "%role.attrib;">

<!ENTITY % interface.element "INCLUDE">
<![%interface.element;]
<!ELEMENT interface %ho; (%smallcptr.char.mix;|accel)*>
<!--end of interface.element-->

<!-- Class: Type of the Interface item; no default -->

<!ENTITY % interface.attlist "INCLUDE">
<![%interface.attlist;]
<!ATTLIST interface
%moreinfo.attrib;
%common.attrib;
%interface.role.attrib;
%local.interface.attrib;
>
<!--end of interface.attlist-->
<!--end of interface.module-->

<!ENTITY % keycap.module "INCLUDE">
<![%keycap.module;]
<!ENTITY % local.keycap.attrib "">
<!ENTITY % keycap.role.attrib "%role.attrib;">

<!ENTITY % keycap.element "INCLUDE">
<![%keycap.element;]
<!ELEMENT keycap %ho; (%cptr.char.mix;)*>
<!--end of keycap.element-->

<!ENTITY % keycap.attlist "INCLUDE">
<![%keycap.attlist;]
<!ATTLIST keycap
function(alt
|control
|shift
|meta
|escape
|enter
|tab
|backspace
|command
|option
|space

---
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 920
<!ELEMENT markup %ho; (%smallcptr.char.mix;)*>
<!--end of markup.element-->]]>

<!ENTITY % markup.attlist "INCLUDE">
<![markup.attlist;[
<!ATTLIST markup
%common.attrib;
%markup.role.attrib;
%local.markup.attrib;
>]
<!--end of markup.attlist-->]]>
<!--end of markup.module-->]]>

<!ENTITY % medialabel.module "INCLUDE">
<![medialabel.module;[
<!ENTITY % local.medialabel.attrib "">
<!ENTITY % medialabel.role.attrib "%role.attrib;">

<!ENTITY % medialabel.element "INCLUDE">
<![medialabel.element;[
<!ELEMENT medialabel %ho; (%smallcptr.char.mix;)*>
<!--end of medialabel.element-->]]>
<!--end of medialabel.module-->]]>

<!ENTITY % medialabel.attlist "INCLUDE">
<![medialabel.attlist;[
<!ATTLIST medialabel
class (cartridge
|cdrom
|disk
|tape)|IMPLIED
%common.attrib;
%medialabel.role.attrib;
%local.medialabel.attrib;
>
<!--end of medialabel.attlist-->]]>
<!--end of medialabel.module-->]]>

<!ENTITY % menuchoice.content.module "INCLUDE">
<![menuchoice.content.module;[
<!ENTITY % menuchoice.module "INCLUDE">
<![menuchoice.module;[
<!ENTITY % local.menuchoice.attrib "">
<!ENTITY % menuchoice.role.attrib "%role.attrib;">

<!ENTITY % menuchoice.element "INCLUDE">

-- Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 925 --
pubwork(article
| book
| chapter
| part
| refentry
| section
| journal
| series

<ENTITY % citetitle.attlist "INCLUDE">
<![%citetitle.attlist;]
<ATTLIST citetitle
pubwork	(article
| book
| chapter
| part
| refentry
| section
| journal
| series
<!-- to GlossEntry if Glossterm used in text -->
<!-- BaseForm: Provides the form of GlossTerm to be used for indexing -->

<!-- to GlossEntry or other explanation -->
<!ENTITY % superscript.attlist "INCLUDE">
<![%superscript.attlist;]
<!ATTLIST superscript
%common.attrib;
%ssscript.role.attrib;
%local.ssscript.attrib;
>
<!--end of superscript.attlist-->]]>
<!--end of ssscript.module-->]]>

<!ENTITY % trademark.module "INCLUDE">
<![%trademark.module;]
<!--ENTITY % local.trademark.attrib "">
<!--ENTITY % trademark.role.attrib "%role.attrib;" >

<!--ENTITY % trademark.element "INCLUDE">
<![%trademark.element;]
<!--ELEMENT trademark %ho; (#PCDATA
| %link.char.class;
| %tech.char.class;
| %base.char.class;
| %other.char.class;
| inlinemediaobject
 | emphasis)>-
<!--end of trademark.element-->
]]>
<!--end of trademark.module-->

<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % trademark.attlist "INCLUDE">
<![%trademark.attlist;]
<!ATTLIST trademark
class(service
|trade
|registered
|copyright) trade'
%common.attrib;
%trademark.role.attrib;
%local.trademark.attrib;
>
<!--end of trademark.attlist-->]]>
<!--end of trademark.module-->]]>

<!ENTITY % wordasword.module "INCLUDE">
<![%wordasword.module;]
<!--ENTITY % local.wordasword.attrib "">
<!--ENTITY % wordasword.role.attrib "%role.attrib;" >
<!-- TargetDocEnt: Name of an entity to be the target of the link -->
<!-- LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt -->
<!-- LocalInfo: Information that may be passed to ModeSpec -->
<!-- Type: Freely assignable parameter -->

<!--Entity % olink.attlist "INCLUDE"-->
<![%olink.attlist;[
<!ATTLIST olink
targetdocent ENTITY #IMPLIED
linkmode IDREF #IMPLIED
localinfo CDATA #IMPLIED
type CDATA #IMPLIED
targetdoc CDATA #IMPLIED
targetptr CDATA #IMPLIED
xrefstyle CDATA #IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
>]
<!--end of olink.attlist-->
]]>

<!--Entity % ulink.module "INCLUDE"-->
<![%ulink.module;[
<!ENTITY % local.ulink.attrib ">
<!ENTITY % ulink.role.attrib "%role.attrib;">

<!--Entity % ulink.attlist "INCLUDE"-->
<![%ulink.attlist;[
<!ATTLIST ulink
targetdocent ENTITY #IMPLIED
linkmode IDREF #IMPLIED
localinfo CDATA #IMPLIED
type CDATA #IMPLIED
targetdoc CDATA #IMPLIED
targetptr CDATA #IMPLIED
xrefstyle CDATA #IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
>]
<!--end of ulink.attlist-->
]]>
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- This module contains the definitions for the overall document
hierarchies of DocBook documents. It covers computer documentation
manuals and manual fragments, as well as reference entries (such as
man pages) and technical journals or anthologies containing
articles.

This module depends on the DocBook information pool module. All
elements and entities referenced but not defined here are assumed
to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbhier.decl.module "IGNORE">
<!ENTITY % dbhier.decl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "Appendix %local.appendix.class;">
<!ENTITY % local.article.class "">
<!ENTITY % article.class "Article %local.article.class;">
<!ENTITY % local.book.class "">
<!ENTITY % book.class "Book %local.book.class;">
<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "Chapter %local.chapter.class;">
<!ENTITY % local.index.class ""
<!ENTITY % index.class "Index|SetIndex %local.index.class;"

<!ENTITY % local.refentry.class ""
<!ENTITY % refentry.class "RefEntry %local.refentry.class;"

<!ENTITY % local.nav.class ""
<!ENTITY % nav.class "ToC|LoT|Index|Glossary|Bibliography %local.nav.class;"

<!-- Redeclaration placeholder ............................................ -->
<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!--end of dbhier.redecl.module-->

<!-- Entities for element mixtures ........................................-->
<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook ""

<!ENTITY % local.divcomponent.mix ""
<!ENTITY % divcomponent.mix "%list.class;%admon.class;
|%linespecific.class;|%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|ndxterm.class;
     %forms.hook;
%local.divcomponent.mix;"">

<!ENTITY % local.refcomponent.mix ""
<!ENTITY % refcomponent.mix "%list.class;%admon.class;
|%linespecific.class;|%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|ndxterm.class;
%local.refcomponent.mix;">
<ENTITY % local.indexdivcomponent.mix "">
<ENTITY % indexdivcomponent.mix
"ItemizedList|OrderedList|VariableList|SimpleList
|linespecific.class;|%synop.class;
|%para.class;|%informal.class;
|Anchor|Remark
|%link.char.class;
%local.indexdivcomponent.mix;">

<ENTITY % local.refname.char.mix "">
<ENTITY % refname.char.mix
"#PCDATA
|%tech.char.class;
%local.refname.char.mix;">

<ENTITY % local.partcontent.mix "">
<ENTITY % partcontent.mix
"%appendix.class;|%chapter.class;|%nav.class;|%article.class;
|Preface|%refentry.class;|Reference %local.partcontent.mix;">

<ENTITY % local.refineline.char.mix "">
<ENTITY % refineline.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;
|ndxterm.class;
%local.refineline.char.mix;">

<ENTITY % local.refclass.char.mix "">
<ENTITY % refclass.char.mix
"#PCDATA
|Application
%local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![ %dbhier.decl2.module; [ %rdbhier2;
<!--end of dbhier.decl2.module-->]]>

<![ %dbhier.decl2.module; [ %rdbhier2;
<!--end of dbhier.decl2.module-->]]>

<![ %dbhier.decl2.module; [ %rdbhier2;
<!--end of dbhier.decl2.module-->]]>
<!DOCTYPE bookinfo SYSTEM "bookinfo.dtd">

<!ATTLIST BookInfo
  Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
  Appendices, References, Glossary, Bibliography, and indexes
  comprising the Book, in the order of their appearance
  --
  ContentsIDREFS#IMPLIED
  %common.attrib;
  %bookinfo.role.attrib;
  %local.bookinfo.attrib;
>
<![--end of bookinfo.attlist--]>

<![--end of bookinfo.module--]>

<![--end of book.content.module--]>

<!-- ...................................................................... -->

<!ENTITY % dedication.module "INCLUDE">
<!--[ %dedication.module; [ -->
<!ENTITY % local.dedication.attrib ""/>
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![ %dedication.element; [ -->
<!ELEMENT Dedication - O ((%sect.title.content;)?, (%legalnotice.mix;)+)>  
<![--end of dedication.element--]>

<!ENTITY % dedication.attlist "INCLUDE">
<![ %dedication.attlist; [ -->
<!ATTLIST Dedication
  %status.attrib;
  %common.attrib;
  %dedication.role.attrib;
  %local.dedication.attrib;
>
<![--end of dedication.attlist--]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [ -->
<!ENTITY % local.colophon.attrib ""/>
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [ -->
<!ELEMENT Colophon - O (%sect.title.content;?, (%textobject.mix;)+)>  
<![--end of colophon.element--]>

Open Source Used in Kenna Virtual Tunnel and Agent 2021.08 959
SrcCredit: Information about the source of the entry, as for a list of illustrations

SrcCreditCDATA#IMPLIED
%pagenum.attrib;
%common.attrib;
What did we decide about RenderAs?

Renderas(Sect1 | Sect2 | Sect3 | Sect4 | Sect5)#IMPLIED

>
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![ %sect5.module; [ 
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![ %sect5.element; [ 
<!ELEMENT Sect5 - O (Sect5Info?, (%sect.title.content;), (%nav.class;)*, 
(((%divcomponent.mix;)+, (%refentry.class;)* | SimpleSect*)
| (%refentry.class;)+ | SimpleSect+), (%nav.class;)*)> 
<![ %sect5.attlist; [ 
<!ATTLIST Sect5 -- 
Renderas: Indicates the format in which the heading should appear 
-- 
Renderas(Sect1 |Sect2 |Sect3 |Sect4)#IMPLIED 
%label.attrib; 
%status.attrib; 
%common.attrib; 
%sect5.role.attrib; 
%local.sect5.attrib; 
>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<![ %simplesect.module; [ 
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">

<!ENTITY % simplesect.element "INCLUDE">
<![ %simplesect.element; [
<!ENTITY % article.module "INCLUDE">
<![ %article.module; [
<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![ %article.element; [ 
<!ELEMENT Article - O ((%div.title.content;)?, ArticleInfo?, ToCchap?, LoT*, 
   (%bookcomponent.content;), 
   ((%nav.class;) | (%appendix.class;) | Ackno*) 
   %ubiq.inclusion;>
</!!--end of article.element-->]]>

<!ENTITY % article.attlist "INCLUDE">
<![ %article.attlist; [ 
<!ATTLIST Article -- Class: Indicates the type of a particular article; 
all articles have the same structure and general purpose. 
No default. 
-- 
Class(JournalArticle | ProductSheet | WhitePaper | TechReport | Specification | FAQ)#IMPLIED 
-- 
ParentBook: ID of the enclosing Book 
-- 
ParentBookIDREF#IMPLIED]>

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 995
Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis
# is hereby granted in perpetuity, provided that the above copyright

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

2002 HaL Computer Systems, Inc.,

$Id: docbookx.dtd,v 1.20 2004/01/21 18:54:21 nwalsh Exp$

<!-- ...................................................................... -->
<!-- DocBook character entities module V4.3 ............................... -->
<!-- File dbcentx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbcentx.mod,v 1.19 2004/03/31 10:40:22 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-/OASIS//ENTITIES DocBook Character Entities V4.3//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->

<!-- ...................................................................... -->
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1006

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

2004 HaL Computer Systems, Inc.,


2002 HaL Computer Systems, Inc.,

$Id: dbnotnx.mod,v 1.21 2004/01/21 18:54:21 nwalsh Exp $
any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.3.zip-cosi-expand-archive-Cjhate6W/dbnotnx.xsd
No license file was found, but licenses were detected in source scan.

DOD//DTD Table Model 951010//EN"

$$Id: calstblx.dtd,v 1.10 2000/08/27 15:12:41 nwalsh Exp $$

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbkx412.zip-cosi-expand-archive-rZexZeDo/calstblx.dtd
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook document hierarchy module V4.0 ............................... -->
<!-- File dbhier.mod ...................................................... -->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1007
Structured Information Standards (OASIS).

$Id: dbhier.mod,v 1.9 2000/05/18 19:44:18 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->
<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles. -->

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.0//EN" %dbhier; -->

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- -->

<!-- ...................................................................... -->
<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">->

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;">

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">->

<!ENTITY % local.refclass.char.mix "">

<!ENTITY % refclass.char.mix "#PCDATA |
Application
%local.refclass.char.mix;">-

<!ENTITY % local.refineline.char.mix;>

<!-- Redeclaration placeholder 2 ........................................ -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![ %dbhier.decl2.module; [
%rdbhier2;
<![--end of dbhier.decl2.module--]>]]>

<![-- ................................................. -->

<![-- Entities for content models ...................................... -->

<!ENTITY % div.title.content "Title, Subtitle?, TitleAbbrev?">

<!ENTITY % bookcomponent.title.content "Title, Subtitle?, TitleAbbrev?">

<!ENTITY % sect.title.content "Title, Subtitle?, TitleAbbrev?">

<!ENTITY % refsect.title.content "Title, Subtitle?, TitleAbbrev?">

<!ENTITY % bookcomponent.content "((%divcomponent.mix;)+,
(Sect1*|(%refentry.class;)*|SimpleSect*|Section*))
 | (Sect1+|(%refentry.class;)+|SimpleSect+|Section+)">

<![-- ................................................. -->

<![-- Set and SetInfo .................................................. -->

<![ENTITY % set.content.module "INCLUDE">

<![ %set.content.module; [
<![ENTITY % set.module "INCLUDE">

<![ %set.module; [

<![ENTITY % local.set.attrib "">

<![ENTITY % set.role.attrib "%role.attrib;" >
The %article.class; entity *may* be removed from the Book content model.
(Article may be made part of a new top-level document hierarchy.)

-->

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;"

<!ENTITY % book.element "INCLUDE">
<![ %book.element; ]
<!ELEMENT Book - O ((%div.title.content;)?, BookInfo?,
(Dedication | ToC | LoT
| Glossary | Bibliography | Preface
| %chapter.class; | Reference | Part
| %article.class;
| %appendix.class;
| %index.class;
| Colophon|)
%ubiq.inclusion;>
<!--end of book.element-->
]]>

<!ENTITY % book.attlist "INCLUDE">
<![ %book.attlist; ]
<!ATTLIST Book
--
FPI: SGML formal public identifier
--
FPICDATA#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%book.role.attrib;
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  1022
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1028
Renderas: Indicates the format in which the heading should appear
--
Renderas(Sect1
|Sect3
|Sect4
|Sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
>
<![--end of sect2.attlist--]]>
<![--end of sect2.module--]]>

<![ENTITY % sect3.module "INCLUDE">
<![%sect3.module; [
<![ENTITY % local.sect3.attrib ""»
<![ENTITY % sect3.role.attrib "%role.attrib;»

<![ENTITY % sect3.element "INCLUDE">
<![%sect3.element; [
<![ELEMENT Sect3 - O (Sect3Info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
(%refentry.class;)* | Sect4* | SimpleSect*))
| (%refentry.class;)+ | Sect4+ | SimpleSect+, (%nav.class;)*)
<![--end of sect3.element--]]>

<![ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist; [
<![ATTLIST Sect3
--
Renderas: Indicates the format in which the heading should appear
--
Renderas(Sect1
|Sect2
|Sect4
|Sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect3.role.attrib;
%local.sect3.attrib;
>
<![--end of sect3.attlist--]]>
<![--end of sect3.module--]]>
<!ENTITY % sect4.module "INCLUDE">
<![ %sect4.module; [
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![ %sect4.element; [
<!ELEMENT Sect4 - O (Sect4Info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | Sect5* | SimpleSect*))
| (%refentry.class;)+ | Sect5+ | SimpleSect+), (%nav.class;)*>
<!--end of sect4.element-->]]>

<!ENTITY % sect4.attlist "INCLUDE">
<![ %sect4.attlist; [
<!ATTLIST Sect4

--
Renderas: Indicates the format in which the heading should
appear
--
Renderas(Sect1
|Sect2
|Sect3
|Sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![ %sect5.module; [
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![ %sect5.element; [
<!ELEMENT Sect5 - O (Sect5Info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | SimpleSect*))
| (%refentry.class;)+ | SimpleSect+), (%nav.class;)*>
<!--end of sect5.element-->]]>

<!ENTITY % sect5.attlist "INCLUDE">
<![ %sect5.attlist; [

<ENTITY % refsect2.attlist "INCLUDE">
<![ %refsect2.attlist; [
<!ATTLIST RefSect2
%status.attrib;
%common.attrib;
%refsect2.role.attrib;
%local.refsect2.attrib;
>
<![--end of refsect2.attlist-->]]>
<![--end of refsect2.module-->]]>
</ENTITY % refsect2.module "INCLUDE">
<![ %refsect3.module; [
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">
</ENTITY % refsect3.module "INCLUDE">
<![ %refsect3.module; [
<!ENTITY % refsect3.attlist "INCLUDE">
<![ %refsect3.attlist; [
<!ATTLIST RefSect3
%status.attrib;
%common.attrib;
%refsect3.role.attrib;
%local.refsect3.attrib;
>
<![--end of refsect3.attlist-->]]>
<![--end of refsect3.module-->]]>
<![--end of refentry.content.module-->]]>
<![--end of refsect3.element-->]]>
<![--end of refsect3.element-->]]>
<![--end of refsect3.element-->]]>
 <![--entity now allows ToC; ToCchap will be allowed instead. RefEntry will be removed from the main content of Article. -->]

<ENTITY % article.module "INCLUDE">
<![ %article.module; [
<![--An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book. -->]
<![--FUTURE USE (V4.0):
------------------------
The %nav.class; entity now allows ToC; ToCchap will be allowed instead. RefEntry will be removed from the main content of Article.------------------------

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1050
<!-- DocBook notations module V4.5 ........................................ -->
<!-- File dbnotnx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbnotnx.mod 6340 2006-10-03 13:23:24Z nwalsh $

Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-- This module contains the notation declarations used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-/OASIS//ENTITIES DocBook Notations V4.5//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
-->

<!ENTITY % local.notation.class "">
2002 HaL Computer Systems, Inc.,
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: docbook.dtd,v 1.22 2004/03/31 10:58:14 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and
its accompanying documentation for any purpose and without fee is
hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.2.zip-cosi-expand-archive-PeNTehue/docbookx.dtd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.2.zip-cosi-expand-archive-S0xNRLVG/docbookx.dtd
No license file was found, but licenses were detected in source scan.

<!-- ............................................................... -->
<!-- DocBook notations module V3.1 ............................ -->
<!-- File dbnotn.mod ............................................... -->


$Id: dbnotn.mod 3.1 1999/02/02 11:53:03 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.
Please direct all questions, bug reports, or suggestions for changes to the davenport@berkshire.net mailing list. For more information, see http://www.oasis-open.org/docbook.

<!--
<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Notations V3.1//EN">%dbhier;
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| linespecific
%local.notation.class;">  
</ENTITY % local.notation.class>

<!NOTATION BMPPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">  
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">  
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">  
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">  
<!NOTATION DITROFFSYSTEM "DITROFF">  
<!NOTATION DVISYSTEM "DVI">  
<!NOTATION EPSPUBLIC
<!ENTITY % EQN was SYSTEM "-//AT&T//NOTATION EQN-1//EN" -->  
<!NOTATION EQNSYSTEM>  
<!NOTATION FAXPUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untitled Raster//EN">  
<!NOTATION GIFSYSTEM "GIF">  
<!NOTATION GIF87a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->

<!ENTITY % local.appendix.class "">

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier.redecl.module"IGNORE">
<!ENTITY % dbhier.redecl2.module"IGNORE">

<!-- Entities for element classes ......................................... -->

<!ENTITY % local.appendix.class ""
<!DOCTYPE html>
<html lang="en">
<head>
<title>Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1079</title>
</head>
<body>

</body>
</html>
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1084
<![%sect1.attlist;[<!ATTLIST sect1 renderas(sect2 |sect3 |sect4 |sect5)#IMPLIED %label.attrib; %status.attrib; %common.attrib; %sect1.role.attrib; %local.sect1.attrib;">
</!--end of sect1.attlist-->]]>
</!--end of sect1.module-->]]>

<!--ENTITY % sect2.module "INCLUDE"> <!--ENTITY % sect2.module;
 <!--ENTITY % local.sect2.attrib ""> <!--ENTITY % sect2.role.attrib "%role.attrib;"> <!--ENTITY % sect2.element "INCLUDE"> <!--ENTITY % sect2.element:[<ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*, (((%divcomponent.mix;)+, ((%refentry.class;)* | sect3* | simplesect*)) | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)> <!--end of sect2.element-->]]>
</!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->

<!--ENTITY % sect2.attlist "INCLUDE"> <!--ENTITY % sect2.attlist;[<!ATTLIST sect2 renderas(sect1 |sect3 |sect4 |sect5)#IMPLIED %label.attrib; %status.attrib; %common.attrib; %sect2.role.attrib; %local.sect2.attrib;">
</!--end of sect2.attlist-->]]>
</!--end of sect2.module-->]]>
<ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;]
<!ATTLIST sect4
renderas(sect1
|sect2
|sect3
|sect4)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib/>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<ENTITY % sect5.module "INCLUDE">
<![%sect5.module;]
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">&lt;ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;]
<!ATTLIST sect5
renderas(sect1
|sect2
|sect3
|sect4)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect5.role.attrib;
%local.sect5.attrib/>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element;]
<!ELEMENT sect5 %ho; (sect5info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
| (%refentry.class;)+ | simplesect*), (%nav.class;)*)
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->

<ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;]
<!ATTLIST sect5
renderas(sect1
|sect2
|sect3
|sect4)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect5.role.attrib;
%local.sect5.attrib/>
<!--end of sect5.attlist-->]]>
<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;]
<!ATTLIST seeie
%linkend.attrib;%common.attrib;
%seeie.role.attrib;
%local.seeie.attrib;
>
<!--end of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;]
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;]
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->
]]>
<!-- to related IndexEntries -->

<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;]
<!ATTLIST seealsoie
%linkends.attrib;%common.attrib;
%seealsoie.role.attrib;
%local.seealsoie.attrib;
>
<!--end of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ...................................................................... -->
<!-- RefEntry ............................................................. -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;]
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;]
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;]

---
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the davenport@online.ora.com mailing list or to one of the maintainers:

- Terry Allen, Fujitsu Software Corporation
  3055 Orchard Drive, San Jose, CA 95134
  <tallen@fsc.fujitsu.com>

- Eve Maler, ArborText Inc.
  105 Lexington St., Burlington, MA 01803
  <elm@arbortext.com>

This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- General-purpose semantics entities -->

<!-- Entities for module inclusions -->

<!-- Entities for element classes and mixtures -->

<!-- Object-level classes -->
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1104

<!ENTITY % local.informal.class "">
<!ENTITY % informal.class "Address|BlockQuote|Graphic|GraphicCO|InformalEquation
|InformalExample|InformalTable %local.informal.class;">  
<!ENTITY % local.formal.class "">
<!ENTITY % formal.class "Equation|Example|Figure|Table %local.formal.class;">  
<!ENTITY % local.compound.class "">
<!ENTITY % compound.class "MsgSet|Procedure|Sidebar %local.compound.class;">  
<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class "Anchor|BridgeHead|Comment|Highlights
%local.genobj.class;">  
<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class "Abstract|AuthorBlurb|Epigraph
%local.descobj.class;">  
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class "IndexTerm %local.ndxterm.class;">  
<!ENTITY % local.xref.char.class "">
<!ENTITY % xref.char.class "FootnoteRef|XRef %local.xref.char.class;">  
<!ENTITY % local.gen.char.class "">
<!ENTITY % gen.char.class "Abbrev|Acronym|Citation|CiteRefEntry|CiteTitle|Emphasis
|FirstTerm|ForeignPhrase|GlossTerm|Footnote|Phrase
|Quote|Trademark|WordAsWord %local.gen.char.class;">  
<!ENTITY % local.link.char.class "">
<!ENTITY % link.char.class "Link|OLink|ULink %local.link.char.class;">  
<!ENTITY % local.tech.char.class "">
<!ENTITY % tech.char.class "FUTURE USE (V4.0):

MsgText will be removed from tech.char.class to a more appropriate
parameter entity.

........................

--> 

<!ENTITY % tech.char.class "Action|Application|ClassName|Command|ComputerOutput |Database|Email|EnVar|ErrorName|ErrorCode|ErrorType|Filename |
|Function|GUIButton|GUIIcon|GUIlabel|GUILabel|GUIPopupMenu|GUIPopupMenuI|
|GUISubMenu|Hardware|Interface|InterfaceDefinition|KeyCap |
|KeyCode|KeyCombo|KeySym|Literal|Markup|MediaLabel|MenuChoice |
|MouseButton|MsgText|Option|Optional|Parameter|Prompt|Property |
|Replaceable|ReturnValue|SGMLTag|StructField|StructName |
|Symbol|SystemItem|Token|Type|UserInput |
%local.tech.char.class;"/>

<!ENTITY % local.base.char.class "">

<!ENTITY % base.char.class "Anchor %local.base.char.class;"/>

<!ENTITY % local.docinfo.char.class "">

<!ENTITY % docinfo.char.class "Author|AuthorInitials|CorpAuthor|ModeSpec|OtherCredit |
|ProductName|ProductNumber|RevHistory |
%local.docinfo.char.class;"/>

<!ENTITY % local.other.char.class "">

<!ENTITY % other.char.class "Comment|Subscript|Superscript %local.other.char.class;"/>

<!ENTITY % local.inlineobj.char.class "">

<!ENTITY % inlineobj.char.class "InlineGraphic|InlineEquation %local.inlineobj.char.class;"/>

<!-- Redeclaration placeholder ............................................. -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<! [ %dbpool.redecl.module; [ %rdbpool; 
<!--end of dbpool.redecl.module--> ] ]>

<!-- Object-level mixtures .................................................. -->

<!-- list admn line synp para infm form cmpd gen desc 
Component mixture X X X X X X X X X X 
Sidebar mixture X X X X X X X X X X a X
Footnote mixture  X  X  X  X  X
Example mixture  X  X  X  X  X
Highlights mixture  X  X  X
Paragraph mixture  X  X  X  X
Admonition mixture  X  X  X  X  X  b  c
Figure mixture  X  X  X
Table entry mixture  X  X  X  X  d
Glossary def mixture  X  X  X  X  d  e
Legal notice mixture  X  X  X  X  f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!--ENTITY % local.component.mix ""> <!--ENTITY % component.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
%local.component.mix;">--->

<!--ENTITY % local.sidebar.mix ""> <!--ENTITY % sidebar.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;Procedure
|%genobj.class;
%local.sidebar.mix;">--->

<!--ENTITY % local.footnote.mix ""> <!--ENTITY % footnote.mix
"%list.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
%local.footnote.mix;">--->

<!--ENTITY % local.example.mix ""> <!--ENTITY % example.mix
"%list.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|Comment
%
%local.glossdef.mix;">

<!-- Character-level mixtures ............................................. -->

<!-- Note that synop.class is not usually used for *.char.mixes,
but is used here because synopses used inside paragraph
contexts are "inline" synopses -->

<!-- Paragraph and title character mixtures

### Paragraph

<table>
<thead>
<tr>
<th>Character Type</th>
<th>Para.char.mix</th>
<th>Title.char.mix</th>
<th>Ndxterm.char.mix</th>
<th>Cptr.char.mix</th>
<th>Smallcptr.char.mix</th>
<th>Word.char.mix</th>
<th>Docinfo.char.mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>X X X X X X X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X X X X X X X</td>
<td></td>
<td></td>
<td>X</td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X X X X X</td>
<td>X</td>
<td></td>
<td></td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X X X</td>
<td>X</td>
<td></td>
<td></td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Title

<table>
<thead>
<tr>
<th>Character Type</th>
<th>Para.char.mix</th>
<th>Title.char.mix</th>
<th>Ndxterm.char.mix</th>
<th>Cptr.char.mix</th>
<th>Smallcptr.char.mix</th>
<th>Word.char.mix</th>
<th>Docinfo.char.mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>X X X X X X X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X X X X X X X</td>
<td></td>
<td></td>
<td>X</td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X X X</td>
<td>X</td>
<td></td>
<td></td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X X</td>
<td>X</td>
<td></td>
<td></td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

"#PCDATA
[
|%xref.char.class];%gen.char.class;
|link.char.class];%tech.char.class;
|base.char.class];%docinfo.char.class;
|other.char.class];%inlineobj.char.class;
|synop.class;
%local.para.char.mix;";

<!-- Note that synop.class is not usually used for *.char.mixes,
but is used here because synopses used inside paragraph
contexts are "inline" synopses -->

"#PCDATA
[
|%xref.char.class];%gen.char.class;
|link.char.class];%tech.char.class;
|base.char.class];%docinfo.char.class;
|other.char.class];%inlineobj.char.class;
|synop.class;
%local.title.char.mix;";

"#PCDATA

<!ENTITY % id.attrib
--Id: Unique identifier of element; no default--
"IdID#IMPLIED">

<!ENTITY % idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no default--
"IdID#REQUIRED">

<!ENTITY % lang.attrib
--Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default--
"LangCDATA#IMPLIED">

<!ENTITY % remap.attrib
--Remap: Previous role of element before conversion; no default--
"RemapCDATA#IMPLIED">

<!ENTITY % role.attrib
--Role: New role of element in local environment; no default--
"RoleCDATA#IMPLIED">

<!ENTITY % xreflabel.attrib
--XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element--
"XRefLabelCDATA#IMPLIED">

<!ENTITY % revisionflag.attrib
--RevisionFlag: Revision status of element; default is that element wasn't revised--
"RevisionFlag(Changed |Added |Deleted |Off)#IMPLIED">

<!ENTITY % local.common.attrib "">
<!ENTITY % common.attrib " -->
"%id.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;"
>

<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;"
>

<!ENTITY % local.graphics.attrib "">
<!ENTITY % graphics.attrib
"--EntityRef: Name of an external entity containing the content of the graphic--
EntityRefENTITY#IMPLIED

--FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic--
FileRef CDATA#IMPLIED

--Format: Notation of the element content, if any--
FormatNOTATION
(%notation.class;)
#IMPLIED

--SrcCredit: Information about the source of the Graphic--
SrcCreditCDATA#IMPLIED

--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED
"Honorific|FirstName|Surname|Lineage|OtherName|Affiliation
|AuthorBlurb|Contrib %local.person.ident.mix;">
<ENTITY % keywordset.content.module "INCLUDE">
<!ENTITY % local.keywordset.attrib "">
<ENTITY % keywordset.module "INCLUDE">
<!ENTITY % local.keywordset.attrib "">
<ENTITY % keywordset.role.attrib "%role.attrib;">
<ELEMENT KeywordSet - - (Keyword+)>
<!ATTLIST KeywordSet
%common.attrib;
%keywordset.role.attrib;
%local.keywordset.attrib;
>
<!--end of keywordset.module-->

<!ENTITY % keyword.module "INCLUDE">
<!ENTITY % local.keyword.attrib "">
<ENTITY % keyword.role.attrib "%role.attrib;">
<ELEMENT Keyword - - (#PCDATA)
<!ATTLIST Keyword
%common.attrib;
%keyword.role.attrib;
%local.keyword.attrib;
>
<!--end of keyword.module-->

<!ENTITY % itermset.module "INCLUDE">
<!ENTITY % local.itermset.attrib "">
<ENTITY % itermset.role.attrib "%role.attrib;">
<ELEMENT ITermSet - - (IndexTerm+)
<!ATTLIST ITermSet
%common.attrib;
%itermset.role.attrib;
%local.itermset.attrib;
>
<!--end of itermset.module-->

<!-- Compound (section-ish) elements ...................................... -->
<!-- Message set ...................... -->
%msglevel.role.attrib;
%local.msglevel.attrib;
>
<![--end of msglevel.module-->]]>

<!ENTITY % msgorig.module "INCLUDE">
<![ %msgorig.module; [    
<!ENTITY % local.msgorig.attrib "">
<!ENTITY % msgorig.role.attrib "%role.attrib;">
<!ELEMENT MsgOrig - - ((%smallcptr.char.mix;)+)>
<!ATTLIST MsgOrig
%common.attrib;
%msgorig.role.attrib;
%local.msgorig.attrib;
>
<![--end of msgorig.module-->]]>

<!ENTITY % msgaud.module "INCLUDE">
<![ %msgaud.module; [    
<!ENTITY % local.msgaud.attrib "">
<!ENTITY % msgaud.role.attrib "%role.attrib;">
<!ELEMENT MsgAud - - ((%para.char.mix;)+)>
<!ATTLIST MsgAud
%common.attrib;
%msgaud.role.attrib;
%local.msgaud.attrib;
>
<![--end of msgaud.module-->]]>

<!ENTITY % msgeplan.module "INCLUDE">
<![ %msgeplan.module; [    
<!ENTITY % local.msgeplan.attrib "">
<!ENTITY % msgeplan.role.attrib "%role.attrib;">
<!ELEMENT MsgExplan - - (Title?, (%component.mix;)+)>
<!ATTLIST MsgExplan
%common.attrib;
%msgeplan.role.attrib;
%local.msgeplan.attrib;
>
<![--end of msgeplan.module-->]]>

<![-- Procedure ....................... -->

<!ENTITY % procedure.content.module "INCLUDE">
<![ %procedure.content.module; [    
<!ENTITY % procedure.module "INCLUDE">
<![ %procedure.module; [
Comment will be renamed to Remark and will be excluded from itself.
<!ENTITY % itemizedlist.module "INCLUDE">
<![ %itemizedlist.module; [
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">
<!ELEMENT ItemizedList - - (ListItem+)>
<!ATTLIST ItemizedList
Spacing: Whether the vertical space in the list should be compressed
Spacing(Normal
|Compact)#IMPLIED
Mark: Keyword, e.g., bullet, dash, checkbox, none;
list of keywords and defaults are implementation specific
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!--end of itemizedlist.module--]>

<!ENTITY % orderedlist.module "INCLUDE">
<![ %orderedlist.module; [
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">
<!ELEMENT OrderedList - - (ListItem+)>
<!ATTLIST OrderedList
Numeration: Style of ListItem numbered; default is expected to be Arabic
Numeration(Arabic
|Upperalpha
|Loweralpha
|Upperroman
|Lowerroman)#IMPLIED
--
InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b)--
InheritNum(Inherit |Ignore)Ignore
--
Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)
--
Continuation(Continues |Restarts)Restarts
--
Spacing: Whether the vertical space in the list should be compressed
--
Spacing(Normal |Compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
<!--end of orderedlist.module-->

<!ENTITY % listitem.module "INCLUDE">
<![ %listitem.module; [  
<!ENTITY % local.listitem.attrib ""  
<!ENTITY % listitem.role.attrib "%role.attrib;">
<!ELEMENT ListItem - O (%component.mix;)+>
<!ATTLIST ListItem
Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList
--
OverrideCDATA#IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
>
<!--end of listitem.module-->

<!-- SegmentedList .................... -->
<!ENTITY % segmentedlist.content.module "INCLUDE">
<![ %segmentedlist.content.module; [  
<!--FUTURE USE (V4.0):
...................... -->

--------------------
Two SegTitles will be required.
<ENTITY % simplelist.content.module "INCLUDE">
<![ %simplelist.content.module; [ 
<ENTITY % simplelist.module "INCLUDE">
<![ %simplelist.module; [ 
<ENTITY % local.simplelist.attrib "">
<ENTITY % simplelist.role.attrib "%role.attrib;">
<ELEMENT SimpleList - - (Member+)>
<ATTLIST SimpleList
  Columns: The number of columns the array should contain
  NUMBER #IMPLIED
  Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results.
  Inline | Vert | Horiz | Vert
  %common.attrib;
  %simplelist.role.attrib;
  %local.simplelist.attrib;
>
<ENTITY % member.module "INCLUDE">
<![ %member.module; [ 
<ENTITY % local.member.attrib "">
<ENTITY % member.role.attrib "%role.attrib;">
<ELEMENT Member - O (%para.char.mix;)+)
<ATTLIST Member
  %common.attrib;
  %member.role.attrib;
  %local.member.attrib;
>
<ENTITY % simplelist.content.module "INCLUDE">
<![ %simplelist.content.module; [ 

Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- **LineColumn** "line column": line number and column number at which to start callout text in "linespecific" content

- **LineRange** "startline endline": whole lines from startline to endline in "linespecific" content

- **LineColumnPair** "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- **Other**: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn)

```xml
<-- Units(CALSPair |LineColumn |LineRange |LineColumnPair |Other)#IMPLIED -->

OtherUnits: User-defined units
```

OtherUnitsNAME#IMPLIED

```xml
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.module-->
```

```xml
<!ENTITY % area.module "INCLUDE">
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">  
<!ELEMENT Area - O EMPTY>
<!ATTLIST Area

%label.attrib; --bug number/symbol override or initialization--
%linkends.attrib; --to any related information--

Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec
```
Units(CALSPair
| LineColumn
| LineRange
| LineColumnPair
| Other)#IMPLIED

--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of area.module-->]]>

<!--end of area.module-->
<!ENTITY % areaset.module "INCLUDE">
<![ %areaset.module; ["" ]
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">
<!ELEMENT AreaSet - - (Area+)>  
<!ATTLIST AreaSet %label.attrib; --bug number/symbol override or initialization--

--
Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec
--
Units(CALSPair
| LineColumn
| LineRange
| LineColumnPair
| Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>

<!--end of programlisting.module-->
<!ENTITY % programlisting.module "INCLUDE">
<![ %programlisting.module; ["" ]
<!ENTITY % local.programlisting.attrib "">
<!ENTITY % programlisting.role.attrib "%role.attrib;">
<!ELEMENT ProgramListing - - ((%programlisting.content;)+)>  
<!ATTLIST ProgramListing
outside the SGML source and pointed to from an Entityref or Fileref attribute.

-->
<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "((%tabentry.mix;)+ | (%para.char.mix;)+)" >>

<!-- Remove pgbbrk exception on Entry. -->
<!ENTITY % tbl.entry.excep "" >>

<!-- Remove pgbbrk exception on EntryTbl, but leave exclusion of itself. -->
<!ENTITY % tbl.entrytbl.excep "-(EntryTbl)" >>

<!-- Reference CALS table module. -->
<!ENTITY % calstbls PUBLIC "-//USA-DOD//DTD Table Model 951010//EN" %calstbls;
<!--end of table.module-->>

<!ENTITY % informaltable.module "INCLUDE"> % informaltable.module; [

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib "" >>
<!ELEMENT InformalTable - - (Graphic+|TGroup+) % tbl.table.excep;>
<!ATTLIST InformalTable
  Frame (Top | Bottom | Topbot | All | Sides | None) #IMPLIED
  Colsep %yesorno.attvals; #IMPLIED
  Rowsep %yesorno.attvals; #IMPLIED
  %tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry, Orient, PgWide --
  %bodyatt; -- includes Label --
  %secur; -- includes common attributes --
  %local.informaltable.attrib;
>  
<!--end of informaltable.module-->>]

<!-- Synopses ............................................................. -->
<!ELEMENT Synopsis - - (InformalTable+ | Label+) % tbl.table.excep;>
<!ATTLIST Synopsis
  Frame (Top | Bottom | Topbot | All | Sides | None) #IMPLIED
  Colsep %yesorno.attvals; #IMPLIED
  Rowsep %yesorno.attvals; #IMPLIED
  %tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry, Orient, PgWide --
  %bodyatt; -- includes Label --
  %secur; -- includes common attributes --
  %local.informaltable.attrib;
>  
<!--end of synopsis-->>]>

<!-- Synopsis ........................................... -->
<!ENTITY % group.module "INCLUDE">
<![ %group.module; [ ]
<!--FUTURE USE (V4.0):
----------------------
The OptMult and ReqMult values for the Choice attribute on Group will be removed. Use the Rep attribute instead to indicate that the choice is repeatable.
----------------------
 -->

<!ENTITY % local.group.attrib """>
<!ENTITY % group.role.attrib "%role.attrib;">
<!ELEMENT Group - - ((Arg | Group | Option | SynopFragmentRef | Replaceable | SBR)+)
<!ATTLIST Group
--
Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. {{g1|g2|g3}})
--
Choice(Opt
|Req
|Plain
The content model group starting with FuncDef will not be available; you will have to use FuncPrototype. Also, you will be able to have a mixture of FuncPrototypes and FuncSynopsisInfos (this is not backwards-incompatible all by itself).
<!ENTITY % paramdef.module "INCLUDE">
<![ %paramdef.module; [ 
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 
<!ELEMENT ParamDef - - ((#PCDATA 
| Replaceable 
| Parameter 
| FuncParams)*)>
<!ATTLIST ParamDef 
%common.attrib; 
%paramdef.role.attrib; 
%local.paramdef.attrib; 
>
<![endif]
><!--end of paramdef.module-->
]
]> 

<!ENTITY % funcparams.module "INCLUDE">
<![ %funcparams.module; [ 
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;"> 
<!ELEMENT FuncParams - - ((%cptr.char.mix;)*)>
<!ATTLIST FuncParams 
%common.attrib; 
%funcparams.role.attrib; 
%local.funcparams.attrib; 
>
<![endif]
><!--end of funcparams.module-->
]
]> 

<!ELEMENT LineAnnotation (defined in the Inlines section, below)--> 
<!ELEMENT Replaceable (defined in the Inlines section, below)--> 
<!ELEMENT Function (defined in the Inlines section, below)--> 
<!ELEMENT Parameter (defined in the Inlines section, below)--> 
<![endif]
><!--end of funcsynopsis.content.module-->
]
]> 

<!-- Processing assumes that only one Parameter will appear in a 
ParamDef, and that FuncParams will be used at most once, for 
providing information on the "inner parameters" for parameters that 
are pointers to functions. --> 

<!ENTITY % paramdef.module "INCLUDE">
<![ %paramdef.module; [ 
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 
<!ELEMENT ParamDef - - ((#PCDATA 
| Replaceable 
| Parameter 
| FuncParams)*)>
<!ATTLIST ParamDef 
%common.attrib; 
%paramdef.role.attrib; 
%local.paramdef.attrib; 
>
<![endif]
><!--end of paramdef.module-->
]
]> 

<!ENTITY % funcparams.module "INCLUDE">
<![ %funcparams.module; [ 
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;"> 
<!ELEMENT FuncParams - - ((%cptr.char.mix;)*)>
<!ATTLIST FuncParams 
%common.attrib; 
%funcparams.role.attrib; 
%local.funcparams.attrib; 
>
<![endif]
><!--end of funcparams.module-->
]
]> 

<!-- ELEMENT LineAnnotation (defined in the Inlines section, below)-->
<!ELEMENT Replaceable (defined in the Inlines section, below)-->
<!ELEMENT Function (defined in the Inlines section, below)-->
<!ELEMENT Parameter (defined in the Inlines section, below)-->
<![endif]
><!--end of funcsynopsis.content.module-->
]
]> 

<!-- The document information elements include some elements that are
currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!- .......................................... -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![ %docinfo.content.module; [

<!ENTITY % ackno.module "INCLUDE">
<![ %ackno.module; [
<!ENTITY % local.ackno.attrib "">
<!ELEMENT Ackno - - ((%docinfo.char.mix;)+)>  
<!ATTLIST Ackno  
%common.attrib;  
%ackno.role.attrib;  
%local.ackno.attrib;  
>  
<!--end of ackno.module--][]>

<!ENTITY % address.content.module "INCLUDE">
<![ %address.content.module; [ 
<!ENTITY % address.module "INCLUDE">
<![ %address.module; [ 
<!ENTITY % local.address.attrib "">
<!ELEMENT Address - - (#PCDATA|Street|POB|Postcode|City|State|Country|Phone |Fax|Email|OtherAddr)*>  
<!ATTLIST Address  
%linespecific.attrib;  
%common.attrib;  
%address.role.attrib;  
%local.address.attrib;  
>  
<!--end of address.module--][]>

<!ENTITY % street.module "INCLUDE">
<![ %street.module; [ 
<!ENTITY % local.street.attrib "">
<!ELEMENT Street - - ((%docinfo.char.mix;)+)>  
<!ATTLIST Street  
%common.attrib;
<!--ELEMENT OrgName (defined elsewhere in this section)-->

<!--ELEMENT % orgdiv.module "INCLUDE"-->
<!--%orgdiv.module: []
<!--ENTITY % local.orgdiv.attrib ""
<!--ENTITY % orgdiv.role.attrib "%role.attrib;"
<!--ELEMENT OrgDiv - - ((%docinfo.char.mix;)+)
<!--ATTLIST OrgDiv
%common.attrib;
%orgdiv.role.attrib;
%local.orgdiv.attrib;
>
<!---end of orgdiv.module-->]]>

<!--ELEMENT Address (defined elsewhere in this section)-->
<!---end of affiliation.content.module-->]]>

<!-- ArtPageNums ...................... -->

<!--ENTITY % artpagenums.module "INCLUDE"-->
<!--%artpagenums.module: []
<!--ENTITY % local.artpagenums.attrib ""
<!--ENTITY % artpagenums.role.attrib "%role.attrib;"
<!--ELEMENT ArtPageNums - - ((%docinfo.char.mix;)+)
<!--ATTLIST ArtPageNums
%common.attrib;
%artpagenums.role.attrib;
%local.artpagenums.attrib;
>
<!---end of artpagenums.module-->]]>

<!-- Author ......................... -->

<!--ENTITY % author.module "INCLUDE"-->
<!--%author.module: [
<!--!--FUTURE USE (V4.0):

AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new
wrapper element created to allow association of those two elements with
Author name information.


-->

<!--ENTITY % local.author.attrib ""
<!--ENTITY % author.role.attrib "%role.attrib;"
<!--ELEMENT Author - - (%person.ident.mix;+)
<!--ATTLIST Author
%common.attrib;
%moreinfo.attrib;
%common.attrib;
%application.role.attrib;
%local.application.attrib;
>
<!--end of application.module-->]]>

<!ENTITY % classname.module "INCLUDE">
<!--end of classname.module-->
</ENTITY %classname.role.attrib>
<!ENTITY % local.classname.attrib "">
<!ELEMENT ClassName - - ((%smallcptr.char.mix;)+)>%classname.role.attrib;
%local.classname.attrib;
>
<!--end of classname.module-->]]>

<!ENTITY % co.module "INCLUDE">
<!--end of co.module-->
</ENTITY %co.role.attrib>
<!ELEMENT CO - O EMPTY>
</ENTITY %co.role.attrib>
<!ELEMENT Command - - ((%cptr.char.mix;)+)>
<!ATTLIST Command
%moreinfo.attrib; --bug number/symbol override or initialization--
%common.attrib; --to any related information--
%co.role.attrib;
%local.co.attrib;
>
<!--end of co.module-->]]>

<!ENTITY % command.module "INCLUDE">
<!--FUTURE USE (V4.0): Command will have its content constrained to smallcptr.char.mix. -->
<!ELEMENT Command - - ((%cptr.char.mix;)+)>
<!ATTLIST Command
%moreinfo.attrib;
%common.attrib;
<!ENTITY % hardware.role.attrib;>
<!ENTITY % local.hardware.attrib;>
>}
<!ENTITY % interface.module "INCLUDE">
<!ENTITY % interface.module; [>
<!ENTITY % interface.role.attrib;->
<!--FUTURE USE (V4.0):
Interface will no longer have a Class attribute; if you want to subclass interface information, use GUIButton, GUIIcon, GUILabel, GIMenu, GIMenuItem, or GUISubmenu, or use a Role value on Interface. Also, Interface will have its content constrained to SmallCptr.Char.Mix.

-->
<!ENTITY % local.interface.attrib ""->
<!ENTITY % interface.role.attrib "%role.attrib;"->
<!ELEMENT Interface - - (%cptr.char.mix;|Accel)+>
<!ATTLIST Interface
  Class: Type of the Interface item; no default
  Class (Button
  |Icon
  |Menu
  |MenuItem)#IMPLIED
  %moreinfo.attrib;
  %common.attrib;
  %interface.role.attrib;
  %local.interface.attrib;>
<!ENTITY % interfacedefinition.module "INCLUDE">
<!ENTITY % interfacedefinition.module; [>
<!ENTITY % interfacedefinition.role.attrib;->
<!ELEMENT InterfaceDefinition - - (%cptr.char.mix;|Accel)+>
<!ATTLIST InterfaceDefinition
  %moreinfo.attrib;
  %common.attrib;
  %interfacedefinition.role.attrib;
  %local.interfacedefinition.attrib;>
for indexing
--
BaseFormCDATA#IMPLIED
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<![--end of glossterm.module--]>

<![ENTITY % phrase.module "INCLUDE">
<![ %phrase.module; [ ]
<![ENTITY % local.phrase.attrib "">
<![ENTITY % phrase.role.attrib "%role.attrib;">
<![ELEMENT Phrase - - ((%para.char.mix;)+)>
<![ATTLIST Phrase
%common.attrib;
%phrase.role.attrib;
%local.phrase.attrib;
>
<![--end of phrase.module--]>

<![ENTITY % quote.module "INCLUDE">
<![ %quote.module; [ ]
<![ENTITY % local.quote.attrib "">
<![ENTITY % quote.role.attrib "%role.attrib;">
<![ELEMENT Quote - - ((%para.char.mix;)+)>
<![ATTLIST Quote
%common.attrib;
%quote.role.attrib;
%local.quote.attrib;
>
<![--end of quote.module--]>

<![ENTITY % ssscript.module "INCLUDE">
<![ %ssscript.module; [ ]
<![ENTITY % local.ssscript.attrib "">
<![ENTITY % ssscript.role.attrib "%role.attrib;">
<![ELEMENT (Subscript | Superscript) - - (PCDATA
| %link.char.class;
| Emphasis
| Replaceable
| Symbol
| InlineGraphic
| %base.char.class;
| %other.char.class;)+)
| (%ubiq.mix;)>]
<![ATTLIST (Subscript | Superscript)
%common.attrib;]-->
All link elements will be excluded from themselves and each other.

-->
<!ENTITY % local.link.attrib "">
<!ENTITY % link.role.attrib "%role.attrib;">  
<!ELEMENT Link - - ((%para.char.mix;)+)>  
<!ATTLIST Link  
  -- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element  
  -- Endterm IDREF #IMPLIED  
  %linkendreq.attrib; --to linked-to object--  
  -- Type: Freely assignable parameter  
  -- Type CDATA #IMPLIED  
  %common.attrib;  
  %link.role.attrib;  
  %local.link.attrib;  
>  
<!!--end of link.module-->]>

<!ENTITY % olink.module "INCLUDE">  
<![ %olink.module; [  
<!ENTITY % local.olink.attrib "">
<!ENTITY % olink.role.attrib "%role.attrib;">  
<!ELEMENT OLink - - ((%para.char.mix;)+)>  
<!ATTLIST OLink  
  -- TargetDocEnt: Name of an entity to be the target of the link  
  -- TargetDocEnt ENTITY #IMPLIED  
  -- LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt  
  -- LinkMode IDREF #IMPLIED  
  -- LocalInfo: Information that may be passed to ModeSpec  
  -- LocalInfo CDATA #IMPLIED  
  -- Type: Freely assignable parameter  
  -- Type CDATA #IMPLIED  
  %common.attrib;
the content of this element
--
EndtermIDREF#IMPLIED
%linkendreq.attrib; --to linked-to object--
%common.attrib;
%xref.role.attrib;
%local.xref.attrib;
>
<!--end of xref.module-->]]>

<!-- Ubiquitous elements .................................................. -->

<!ENTITY % anchor.module "INCLUDE">
<![ %anchor.module; [
<!ENTITY % local.anchor.attrib "">
<!ELEMENT Anchor - O EMPTY>
<!ATTLIST Anchor
%idreq.attrib; -- required --
%pagenum.attrib; --replaces Lang --
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%anchor.role.attrib;
%local.anchor.attrib;
>
<!--end of anchor.module-->]]>

<!ENTITY % beginpage.module "INCLUDE">
<![ %beginpage.module; [
<!ENTITY % local.beginpage.attrib "">
<!ELEMENT BeginPage - O EMPTY>
<!ATTLIST BeginPage
%pagenum.attrib;
%common.attrib;
%beginpage.role.attrib;
%local.beginpage.attrib;
>
<!--end of beginpage.module-->]]>

<!-- IndexTerms appear in the text flow for generating or linking an index. -->
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the davenport@online.ora.com mailing list or to one of the maintainers:

- Terry Allen, Fujitsu Software Corporation
  3055 Orchard Drive, San Jose, CA 95134
  <tallen@fsc.fujitsu.com>

- Eve Maler, ArborText Inc.
  105 Lexington St., Burlington, MA 01803
  <elm@arbortext.com>

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC "-//Davenport/ELEMENTS DocBook Document Hierarchy V3.0//EN" %dbhier;>

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release
<!- Redeclaration placeholder ......................................... -->

<!- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![ %dbhier.redecl.module; [%rdbhier; ![--end of dbhier.redecl.module-->]]>

<!- Entities for element mixtures ........................................ -->

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix "%list.class;|%admon.class;|%linespecific.class;|%synop.class;|%para.class;|%informal.class;|%formal.class;|%compound.class;|%genobj.class;|%descobj.class; %local.divcomponent.mix;">  

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix "%list.class;|%admon.class;|%linespecific.class;|%synop.class;|%para.class;|%informal.class;|%formal.class;|%compound.class;|%genobj.class;|%descobj.class; %local.refcomponent.mix;">  

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix "ItemizedList|OrderedList|VariableList|SimpleList|%linespecific.class;|%synop.class;|%para.class;|%informal.class;|Anchor|Comment|%link.char.class; %local.indexdivcomponent.mix;">  

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix "#PCDATA|%tech.char.class; %local.refname.char.mix;">  

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix "">
"%appendix.class;%chapter.class;%nav.class;%article.class; [Preface]%refentry.class;Reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix "#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;
%local.refinline.char.mix;">

<!ENTITY % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix "#PCDATA
|Application
%local.refclass.char.mix;">

<!ENTITY % local.setinfo.char.mix "">
<!ENTITY % setinfo.char.mix "#PCDATA
|%docinfo.char.class;|Title|Copyright|CorpName
|Date|Editor|Edition|InvPartNumber|ISBN
|LegalNotice|OrgName|PrintHistory|Publisher
|PubsNumber|ReleaseInfo|Subtitle|VolumeNum
%local.setinfo.char.mix;">

<!-- Redeclaration placeholder 2 .......................................... -->
<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<!--end of dbhier.redecl2.module-->
<![ %dbhier.redecl2.module; [ %rdbhier2;
<!--end of dbhier.redecl2.module--->] ]>

<!-- ...................................................................... -->
<!-- Entities for content models .......................................... -->

<!ENTITY % div.title.content "Title, TitleAbbrev?">

<!-- FUTURE USE (V4.0):

The DocInfo element will be split out into ChapterInfo, AppendixInfo,
etc.

........................................................
Set and SetInfo ......................................................

---
FPI: SGML formal public identifier

---
FPICDATA#IMPLIED

%status.attrib;
%common.attrib;
%set.role.attrib;
%local.set.attrib;
>
<!--end of set.module-->]]>

Contents: IDs of the ToC, Books, and SetIndex that comprise the set, in the order of their appearance
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book. -->

--FUTURE USE (V4.0):

The %nav.class; entity now allows ToC; ToCchap will be allowed instead.
RefEntry will be removed from the main content of Article.

The ArtHeader element will be renamed to ArticleInfo.

 ENTITY % local.article.attrib "";
 ENTITY % article.role.attrib "%role.attrib;";
 ELEMENT Article - O (ArtHeader, ToCchap?, LoT*, (%bookcomponent.content;),
((%nav.class;) | (%appendix.class;) | Ackno*) )+(%ubiq.mix;);
 ATTLIST Article
 Class: Indicates the type of a particular article;
 all articles have the same structure and general purpose.
 No default.
 ParentBook: ID of the enclosing Book
 ParentBookIDREF#IMPLIED
 %status.attrib;
 %common.attrib;
 %article.role.attrib;
 %local.article.attrib;
 >
 <!---end of article.module--> ]>

<!-- End of DocBook document hierarchy module V3.0 ....................... -->

Found in path(s):
No license file was found, but licenses were detected in source scan.

2004 HaL Computer Systems, Inc.,
See also http://docbook.org/specs/

$Id: docbookx.dtd,v 1.31 2005/01/27 13:52:36 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
  feKkMD47/docbook-rng-4.4.zip-cosi-expand-archive-MnQqip9/docbook.rng
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
  feKkMD47/docbook-xsd-4.4.zip-cosi-expand-archive-4muUszdK/docbook.xsd
No license file was found, but licenses were detected in source scan.

2002 HaL Computer Systems, Inc.,
  O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
  Corporation, Norman Walsh, Sun Microsystems, Inc., and the
  Organization for the Advancement of Structured Information
  Standards (OASIS).

$Id: docbook.dtd,v 1.15 2002/07/17 15:26:29 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and
its accompanying documentation for any purpose and without fee is
hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.
Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.


Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
No license file was found, but licenses were detected in source scan.

DOD//DTD Table Model 951010\//EN"

$Id: calstblx.dtd,v 1.20 2004/03/31 10:44:12 nwalsh Exp$

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->
<!-- DocBook character entities module V4.0 ...................... -->
<!-- File dbcent.mod ............................................... -->


Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1225
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!ENTITY % ISOamsa.module "INCLUDE">
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
%ISOamsa;
</!ENTITY % ISOamsa.module-->

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.0//EN">
%dbcent;

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.0//EN">
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

</!ENTITY % ISOamsa.module-->

</!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.0//EN">
%dbcent;

</!ENTITY % ISOamsa.module "INCLUDE">
No license file was found, but licenses were detected in source scan.

Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.3//EN" "dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ..................... -->

<!DOCTYPE % dbhier.decl.module"IGNORE">
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1255
<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect1.attlist "INCLUDE">
<![|%sect1.attlist;[
<!ATTLIST sect1 renderas(sect2
|sect3
|sect4
|sect5)#IMPLIED
%label.attrib;
%common.attrib;
%sect1.role.attrib;
%local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![|%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib "%role.attrib;">  

<!ENTITY % sect2.element "INCLUDE">
<![|%sect2.element;[
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*, ((%divcomponent.mix;)+, (%refentry.class;)* | sect3* | simplesect*)), (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*>
<!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect2.attlist "INCLUDE">
<![|%sect2.attlist;[
<!ATTLIST sect2 renderas(sect1
|sect3
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect1.role.attrib;
%sect2.role.attrib;
<!ENTITY % primaryie.attlist "INCLUDE">
<![primaryie.attlist:]
<!ATTLIST primaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>
<!--end of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
<![secondaryie.element:]
<!ELEMENT secondaryie %ho; (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![secondaryie.attlist:]
<!ATTLIST secondaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>
<!--end of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
<![tertiaryie.element:]
<!ELEMENT tertiaryie %ho; (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![tertiaryie.attlist:]
<!ATTLIST tertiaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>

<!--end of primsecterie.module-->

<!ENTITY % seeie.module "INCLUDE">
<![seeie.module:]
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">
An Article is a chapter-level, stand-alone document that is often,
Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- General-purpose semantics entities ................................... -->

<!-- Entities for module inclusions ....................................... -->

<!-- Entities for element classes and mixtures ............................ -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!-- Object-level classes ................................................. -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->
<!-- Character-level classes .............................................. -->

<!ENTITY % local.xref.char.class "">
<!ENTITY % xref.char.class "footnoteref|xref %local.xref.char.class;"> 

<!ENTITY % local.gen.char.class ""> 
<!ENTITY % gen.char.class "abbrev|acronym|citation|citerefentry|citetitle|emphasis
|firstterm|foreignphrase|glossterm|footnote|phrase
|quote|trademark|wordasword %local.gen.char.class;"> 

<!ENTITY % local.link.char.class ""> 
<!ENTITY % link.char.class "link|link|ulink %local.link.char.class;"> 

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.inline.hook ""> 

<!ENTITY % local.tech.char.class ""> 
<!ENTITY % tech.char.class "action|application
|classname|methodname|interfacename|exceptionname
|ooclass|oointerface|ooexception
|command|computeroutput
|database|email|envar|errorcode|errortype|filename
|function|guibutton|guicon|guilabel|guimenu|guimenuitem
|guisubmenu|hardware|interface|keycap
|keycode|keycombo|keysym|literal|constant|markup|medialabel
|menuchoice|mousebutton|option|optional|parameter
|prompt|property|replaceable|returnvalue|sgmltag|structfield
|structname|symbol|systemitem|token|type|userinput|varname
%ebnf.inline.hook; %local.tech.char.class;"> 

<!ENTITY % local.base.char.class ""> 
<!ENTITY % base.char.class "anchor %local.base.char.class;"> 

<!ENTITY % local.docinfo.char.class ""> 
<!ENTITY % docinfo.char.class "author|authorinitials|corpauthor|modespec|othercredit
|productname|productnumber|revhistory
%local.docinfo.char.class;"> 

<!ENTITY % local.other.char.class ""> 
<!ENTITY % other.char.class "">
"remark|subscript|superscript %local.other.char.class;">

<!ENTITY % local.inlineobj.char.class "">
<!ENTITY % inlineobj.char.class "inlinegraphic|linemediaobject|inlineequation %local.inlineobj.char.class;">

<!-- Redeclaration placeholder ............................................. -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![%dbpool.redecl.module;[
<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">
%rdbpool;
<![--end of dbpool.redecl.module-->]]>

<!-- Object-level mixtures ................................................ -->

<![--
list admmn line synp para infm form cmpd gen  desc
Component mixture X X X X X X X X X X
Sidebar mixture  X X X X X X X X  a  X
Footnote mixture  X X X X X
Example mixture  X X X X X
Highlights mixture  X X X
Paragraph mixture  X X X X
Admonition mixture  X X X X X X  b  c
Figure mixture  X X X
Table entry mixture  X X X X X d
Glossary def mixture  X X X X X e
Legal notice mixture  X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix "%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%compound.class;";

-- Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1278 --
<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib "roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib "xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib "revisionflag(changed |added |deleted |off)#IMPLIED">

<!ENTITY % local.common.attrib "">

<!-- Role is included explicitly on each element -->
<!-- Role is included explicitly on each element -->

<!-- Semi-common attributes and other attribute entities .................. -->

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!-- ENTITY % graphics.attrib "" -->

<!ENTITY % graphics.attrib "
entityref ENTITY#IMPLIED
fileref CDATA#IMPLIED
format(%notation.class;) #IMPLIED
srccreditCDATA#IMPLIED
widthCDATA#IMPLIED
depthCDATA#IMPLIED"
align(left | right | center)#IMPLIED
scaleCDATA#IMPLIED
scalefit%yesorno.attvals;
#IMPLIED
%local.graphics.attrib;" 
>

<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib "action(click | double-click | press | seq | simul | other)#IMPLIED
otheractionCDATA#IMPLIED
%local.keyaction.attrib;" >

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA#IMPLIED">

<!-- Format: whether element is assumed to contain significant white space -->

<!ENTITY % linespecific.attrib "formatNOTATION
(linespecific)'linespecific'
linenumbering(numbered|unnumbered) #IMPLIED"> 

<!-- Linkend: link to related information; no default -->

<!ENTITY % linkend.attrib>
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!-- ENTITY % local.person.ident.mix -->
<!-- ENTITY % person.ident.mix -->
"honorific|firstname|surname|lineage|othername|affiliation|authorblurb|contrib %local.person.ident.mix;">

<!-- ENTITY % local.bibliocomponent.mix -->
<!-- ENTITY % bibliocomponent.mix -->
"abbrev|abstract|address|artpagenums|author|authorgroup|authorinitials|bibliomisc|biblioset|collab|confgroup|contractnum|contractsponsor|copyright|corporation|corpnname|date|edition|editor|invpartnumber|isbn|issn|issuenum|orgname|othercredit|pagenums|printhistory|productname|productnumber|pubdate|publisher|publishername|pubsnumber|releaseinfo|revhistory|seriesvolnums|subtitle|title|titleabbrev|volumenum|citetitle|%person.ident.mix;|%ndxterm.class; %local.bibliocomponent.mix;" -->

<!-- ENTITY % bibioentry.module -->
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1291
<!-- Relation: Relationship of elements contained within BiblioSet -->

<!ENTITY % bibliomset.module "INCLUDE">
<![bibliomset.module;]
<!ENTITY % bibliomset.role.attrib "%role.attrib;">
<!ENTITY % local.bibliomset.attrib "">
<!ELEMENT bibliomset (#PCDATA | %bibliocomponent.mix; | bibliomset)*>
<!--end of bibliomset.element-->
</ENTITY % bibliomset.element;[ELEMENT bibliomset (#PCDATA | %bibliocomponent.mix; | bibliomset)*]>
</!-- Relation: Relationship of elements contained within BiblioMSet -->
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1293
<!ENTITY % subjectterm.attlist "INCLUDE">
<![%subjectterm.attlist:]
<!ATTLIST subjectterm
%common.attrib;
%subjectterm.role.attrib;
%local.subjectterm.attrib;
>
<!--end of subjectterm.attlist-->
<!--end of subjectterm.module-->
<!--end of subjectset.content.module-->

<!ENTITY % keywordset.content.module "INCLUDE">
<![%keywordset.content.module:]
<!ENTITY % keywordset.module "INCLUDE">
<![%keywordset.module:]
<!ENTITY % local.keywordset.attrib "">
<!ENTITY % keywordset.role.attrib "%role.attrib;"> 

<!ENTITY % keywordset.element "INCLUDE">
<![%keywordset.element:]
<!ELEMENT keywordset (keyword+)> 
<!--end of keywordset.element-->

<!ENTITY % keywordset.attlist "INCLUDE">
<![%keywordset.attlist:]
<!ATTLIST keywordset
%common.attrib;
%keywordset.role.attrib;
%local.keywordset.attrib;
>
<!--end of keywordset.attlist-->
<!--end of keywordset.module-->

<!ENTITY % keyword.module "INCLUDE">
<![%keyword.module:]
<!ENTITY % local.keyword.attrib "">
<!ENTITY % keyword.role.attrib "%role.attrib;"> 

<!ENTITY % keyword.element "INCLUDE">
<![%keyword.element:]
<!ELEMENT keyword (#PCDATA)> 
<!--end of keyword.element-->

<!ENTITY % keyword.attlist "INCLUDE">
<![%keyword.attlist:]
<!ATTLIST keyword
%common.attrib;
%keyword.role.attrib;
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1296
%msginfo.role.attrib;
%local.msginfo.attrib;
>
<!--end of msginfo.attlist-->]]>
<!--end of msginfo.module-->]]>

<!--ENTITY % msglevel.module "INCLUDE">
<![%msglevel.module;]
<!--ENTITY % local.msglevel.attrib ""-->]
<!--ENTITY % msglevel.role.attrib "%role.attrib;"-->]

<!--ENTITY % msglevel.element "INCLUDE">
<![%msglevel.element;]
<!--ENTITY % msglevel.attlist "INCLUDE">
<![%msglevel.attlist;]
<!ELEMENT msglevel (%smallcptr.char.mix;)*>
<!--end of msglevel.element-->]]>
<!ENTITY % msglevel.attlist "INCLUDE">
<![%msglevel.attlist;]
<!ATTLIST msglevel
%common.attrib;
%msglevel.role.attrib;
%local.msglevel.attrib;
>
<!--end of msglevel.attlist-->]]>
<!--end of msglevel.module-->]]>

<!--ENTITY % msgorig.module "INCLUDE">
<![%msgorig.module;]
<!--ENTITY % local.msgorig.attrib ""-->]
<!--ENTITY % msgorig.role.attrib "%role.attrib;"-->]

<!--ENTITY % msgorig.element "INCLUDE">
<![%msgorig.element;]
<!--ENTITY % msgorig.attlist "INCLUDE">
<![%msgorig.attlist;]
<!ELEMENT msgorig (%smallcptr.char.mix;)*>
<!--end of msgorig.element-->]]>
<!ENTITY % msgorig.attlist "INCLUDE">
<![%msgorig.attlist;]
<!ATTLIST msgorig
%common.attrib;
%msgorig.role.attrib;
%local.msgorig.attrib;
>
<!--end of msgorig.attlist-->]]>
<!--end of msgorig.module-->]]>

<!--ENTITY % msgaud.module "INCLUDE">
<![%msgaud.module;]
<!DOCTYPE qandadiv PUBLIC "-//QANDA//DTD qandadiv module//EN">

<!ELEMENT qandadiv ((%formalobject.title.content;)?, (%qandaset.mix;)*, (qandadiv+|qandaentry+))>
<!--end of qandadiv.element-->

<!ENTITY % qandadiv.attlist "INCLUDE">
<!ENTITY % qandadiv.module "INCLUDE">
<!ENTITY % local.qandadiv.attrib "">
<!ENTITY % qandadiv.role.attrib "%role.attrib;">
<!ENTITY % simpara.module "INCLUDE">
<!ENTITY % simpara.module:

<!ENTITY % local.simpara.attrib "">
<!ENTITY % simpara.role.attrib "%role.attrib;"> 

<!ENTITY % simpara.element "INCLUDE">
<!ENTITY % simpara.element:

<!ENTITY % simpara.attlist "INCLUDE">
<!ENTITY % simpara.attlist:

<!ATTLIST simpara 
%common.attrib;
%simpara.role.attrib;
%local.simpara.attrib;
>
<!--end of simpara.attlist-->]]>
<!--end of simpara.module-->]]>

<!ENTITY % admon.module "INCLUDE">
<!ENTITY % admon.module:

<!ENTITY % local.admon.attrib "">
<!ENTITY % admon.role.attrib "%role.attrib;"> 

<!ENTITY % caution.element "INCLUDED">
<!ENTITY % caution.element:

<!ENTITY % caution.attlist "INCLUDED">
<!ENTITY % caution.attlist:

<!ATTLIST caution 
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
<!--end of caution.attlist-->]]>

<!ENTITY % important.element "INCLUDED">
<!ENTITY % important.element:

<!ENTITY % important.attlist "INCLUDED" >
<!ENTITY % glosslist.module "INCLUDE">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.attlist "INCLUDE">
<!ENTITY % glosslist.element "INCLUDE">
<!ENTITY % glosslist.attlist "INCLUDE">
<!ENTITY % glossentry.content.module "INCLUDE">
<!ENTITY % glossentry.module "INCLUDE">
<!ENTITY % glossentry.role.attrib "%role.attrib;">
<!ENTITY % glossentry.element "INCLUDE">
<!ELEMENT glossentry (glossterm, acronym?, abbrev?, (%ndxterm.class;)*, revhistory?, (glosssee|glossdef+))>
<!ELEMENT glossentry (glossterm, acronym?, abbrev?, (%ndxterm.class;)*, revhistory?, (glosssee|glossdef+))>
<!ENTITY % itemizedlist.element "INCLUDE">
<![%itemizedlist.element;]
<!ELEMENT itemizedlist ((%formalobject.title.content;)?, listitem+)>
<!--[end of itemizedlist.element--]->]

<!-- Spacing: Whether the vertical space in the list should be compressed --
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none;
list of keywords and defaults are implementation specific --

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![%itemizedlist.attlist;]
<!ATTLIST itemizedlist		spacing	normal | compact
compact #IMPLIED	%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!--[end of itemizedlist.attlist--]->]
<!--[end of itemizedlist.module--]->]

<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;]
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">n

<!ENTITY % orderedlist.element "INCLUDE">
<![%orderedlist.element;]
<!ELEMENT orderedlist ((%formalobject.title.content;)?, listitem+)>
<!--[end of orderedlist.element--]->]

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic --
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) --
<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) --
<!-- Spacing: Whether the vertical space in the list should be compressed --

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;]
<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist:]
<!ATTLIST simplelist
  columns CDATA #IMPLIED
  type (inline | vert | horiz) "vert"
  %common.attrib;
  %simplelist.role.attrib;
  %local.simplelist.attrib;
  >
<![--end of simplelist.attlist-->]]>
<![--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module:]
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;"> 

<!ENTITY % member.element "INCLUDE">
<![%member.element:]
<!ELEMENT member (%para.char.mix;)*>
<![--end of member.element-->]]>

<!ENTITY % member.attlist "INCLUDE">
<![%member.attlist:]
<!ATTLIST member
  %common.attrib;
  %member.role.attrib;
  %local.member.attrib;
  >
<![--end of member.attlist-->]]>
<![--end of member.module-->]]>
<![--end of simplelist.content.module-->]]>

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<!ENTITY % variablelist.content.module "INCLUDE">
<ENTITY % variablelist.module "INCLUDE">
<ENTITY % local.variablelist.attrib "">
<ENTITY % variablelist.role.attrib "%role.attrib;">

<ENTITY % variablelist.element "INCLUDE">
<ENTITY % variablelist.element;>
<ENTITY % variablelist.attlist "INCLUDE">
<ATTLIST variablelist
termlengthCDATA#IMPLIED
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<ENTITY % variablelist.attlist--->]
<ENTITY % variablelist.module--->]]>

<ENTITY % varlistentry.module "INCLUDE">
<ENTITY % varlistentry.module;>
<ENTITY % local.varlistentry.attrib "">
<ENTITY % varlistentry.role.attrib "%role.attrib;">

<ENTITY % varlistentry.element "INCLUDE">
<ENTITY % varlistentry.element;>
<ENTITY % varlistentry.attlist "INCLUDE">
<ATTLIST varlistentry
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
>
<ENTITY % varlistentry.attlist--->]
<ENTITY % varlistentry.module--->]]>

<ENTITY % term.module "INCLUDE">
<!DOCTYPE %areaspec.module;
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;">  

<!ENTITY % areaspec.element "INCLUDE">  
<![%areaspec.element;[  
<!ELEMENT areaspec ((area|areaset)+)>  
<!--end of areaspec.element-->]]>  

<!-- Units: global unit of measure in which coordinates in this spec are expressed:  
- CALSPair "x1.y1 x2.y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)  
- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content  
- LineRange "startline endline": whole lines from startline to endline in "linespecific" content  
- LineColumnPair "line 1 col 1 line 2 col 2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)  
- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword  

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->  
<!-- OtherUnits: User-defined units -->

<![%areaspec.attlist;"INCLUDE">  
<![%areaspec.attlist;[  
<![ATTLIST areaspec  
units(calspair |linecolumn |linerange |linecolumnpair |other)#IMPLIED  
otherunitsNMTOKEN#IMPLIED  
%common.attrib;  
%areaspec.role.attrib;]]>
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means
(imageobjectco[textobject]*)>
<!--end of mediaobjectco.element-->]]>

<!ENTITY % mediaobjectco.attlist "INCLUDE">
<![[ %mediaobjectco.attlist; [ 
<!ATTLIST mediaobjectco
%common.attrib;
%mediaobjectco.role.attrib;
%local.mediaobjectco.attrib;
> 
<!--end of mediaobjectco.attlist-->]]>
<!--end of mediaobjectco.module-->]]>

<!ENTITY % imageobjectco.module "INCLUDE">
<![[ %imageobjectco.module; [ 
<!ENTITY % local.imageobjectco.attrib "">
<!ENTITY % imageobjectco.role.attrib "%role.attrib;"> 

<!ENTITY % imageobjectco.element "INCLUDE">
<![[ %imageobjectco.element; [ 
<!ELEMENT imageobjectco (areaspec, imageobject, calloutlist*)> 
<!--end of imageobjectco.element-->]]>

<!ENTITY % imageobjectco.attlist "INCLUDE">
<![[ %imageobjectco.attlist; [ 
<!ATTLIST imageobjectco
%common.attrib;
%imageobjectco.role.attrib;
%local.imageobjectco.attrib;
> 
<!--end of imageobjectco.attlist-->]]>
<!--end of imageobjectco.module-->]]>
<!--end of mediaobject.content.module-->]]>

<!-- Equations ........................ -->
<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+[mediaobject+])"> 
<!ENTITY % inlineequation.content "(alt?, (graphic+[inlinemediaobject+])"> 

<!ENTITY % equation.module "INCLUDE">
<![[ %equation.module;[ 
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;"> 

<!ENTITY % equation.element "INCLUDE">
<![[ %equation.element;["}
%common.attrib;
%inlineequation.role.attrib;
%local.inlineequation.attrib;
>
<!--end of inlineequation.attlist-->]
<!--end of inlineequation.module-->]]>

<!-- ENTITY % alt.module "INCLUDE" -->
<!-- [%alt.module;[ -->
<!-- ENTITY % local.alt attrib "" -->
<!-- ENTITY % alt.role attrib "%role.attrib;" -->

<!-- ENTITY % alt.element "INCLUDE" -->
<!-- [%alt.element;[ -->
<!-- ENTITY alt (#PCDATA) -->
<!--!---end of alt.element-->]]>

<!-- ENTITY % alt.attlist "INCLUDE" -->
<!-- [%alt.attlist;[ -->
<!-- ATTLIST alt
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
>  
<!----end of alt.attlist-->]]>

<!---- Tables ......................... -->

<!-- ENTITY % table.module "INCLUDE" -->
<!-- [%table.module;[ -->

<!--!--- Choose a table model. CALS or OASIS XML Exchange -->

<!-- ENTITY % cals.table.module "INCLUDE" -->
<!-- [%cals.table.module;[ -->
<!-- ENTITY % exchange.table.module "IGNORE" -->
]]>
<!-- ENTITY % exchange.table.module "INCLUDE" -->

<!-- ENTITY % tables.role.attrib "%role.attrib;" -->

<!-- [%cals.table.module;[ -->

<!--!--- Add label and role attributes to table and informaltable -->

<!-- ENTITY % bodyatt "%label.attrib;" -->

<!--!--- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib; %tables.role.attrib;"> 

<!ENTITY % common.table.attribs "%%bodyatt; %secur;"> 

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), (%ndxterm.class;)*, 
(graphic+|mediaobject+|tgroup+))"> 

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;"> 

<!-- Reference CALS Table Model -->
<!ENTITY % tablemodel PUBLIC "//OASIS//DTD DocBook XML CALS Table Model V4.1.2//EN" "calstblx.dtd"> ]]> 

<!-- Add common attributes and the Label attribute to Table and -->
<!ENTITY % bodyatt "%common.attrib; %label.attrib; %tables.role.attrib;"> 

<!ENTITY % common.table.attribs "%bodyatt;"> 

<!-- Add common attributes to TGroup, ColSpec, TBody, THead, Row, Entry -->
<!ENTITY % tbl.tgroup.att "%common.attrib;"> 
<!ENTITY % tbl.colspec.att "%common.attrib;"> 
<!ENTITY % tbl.tbody.att "%common.attrib;"> 
<!ENTITY % tbl.thead.att "%common.attrib;"> 
<!ENTITY % tbl.row.att "%common.attrib;"> 
<!ENTITY % tbl.entry.att "%common.attrib;"> 

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), (%ndxterm.class;)*, 
(graphic+|group+))">
<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*" >

<!ENTITY % tablemodel PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd"> ]]> %tablemodel;

<!-- end of table.module---> ]]> %informaltable.module "INCLUDE" >

<!ENTITY % informaltable.module: [ ] %informaltable.module: [ ]

<!ENTITY % informaltable.attrib "" >

<!ENTITY % informaltable.element "INCLUDE" >

<!ENTITY % informaltable.element: [ ] %informaltable.element: [ ]

<!ELEMENT informaltable (graphic+|mediaobject+|tgroup+)>

<!--end of informaltable.element--> ]]>

<!ENTITY % informaltable.attlist "INCLUDE" >

<!ENTITY % informaltable.attlist: [ ] %informaltable.attlist: [ ]

<!ATTLIST informaltable
  frame (top | bottom | topbot | all | sides | none) #IMPLIED
  colsep %yesorno.attvals; #IMPLIED
  rowsep %yesorno.attvals; #IMPLIED
  %common.table.attribs;
  %tbl.table.att;
  %local.informaltable.attrib;
top-level arguments; alternate value might be e.g., &Delta; -->

<!ENTITY % cmdsynopsis.attlist "INCLUDE">
<![%cmdsynopsis.attlist;]
<!ATTLIST cmdsynopsis
%label.attrib;
sepcharCDATA " 
cmdlengthCDATA#IMPLIED
%common.attrib;
%cmdsynopsis.role.attrib;
%local.cmdsynopsis.attrib;
>
<!-[.-end of cmdsynopsis.attlist-->]]>
<!-[.-end of cmdsynopsis.module-->]]>

<!ENTITY % arg.module "INCLUDE">
<![%arg.module;]
<!ENTITY % local.arg.attrib "">
<!ENTITY % arg.role.attrib "%role.attrib;">

<!ENTITY % arg.element "INCLUDE">
<![%arg.element;]
<!ELEMENT arg (#PCDATA
| arg
| group
| option
| synopfragmentref
| replaceable
| sbr)*>
<!-[.-end of arg.element-->]]>

<!.- Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!.- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist;]
<!ATTLIST arg
choice(opt
|req
|plain')opt'
rep(norepeat
|repeat')norepeat'
%common.attrib;
<!ENTITY % funcdef.attlist "INCLUDE">
<![%funcdef.attlist;]
<!ATTLIST funcdef
%common.attrib;
%funcdef.role.attrib;
%local.funcdef.attrib;
>
<!--end of funcdef.attlist-->
<!--end of funcdef.module-->

<!ENTITY % void.module "INCLUDE">
<![%void.module;]
<!ENTITY % local.void.attrib "">
<!ENTITY % void.role.attrib "%role.attrib;">

<!ENTITY % void.element "INCLUDE">
<![%void.element;]
<!ELEMENT void EMPTY>
<!--end of void.element-->

<!ENTITY % void.attlist "INCLUDE">
<![%void.attlist;]
<!ATTLIST void
%common.attrib;
%void.role.attrib;
%local.void.attrib;
>
<!--end of void.attlist-->
<!--end of void.module-->

<!ENTITY % varargs.module "INCLUDE">
<![%varargs.module;]
<!ENTITY % local.varargs.attrib "">
<!ENTITY % varargs.role.attrib "%role.attrib;">

<!ENTITY % varargs.element "INCLUDE">
<![%varargs.element;]
<!ELEMENT varargs EMPTY>
<!--end of varargs.element-->

<!ENTITY % varargs.attlist "INCLUDE">
<![%varargs.attlist;]
<!ATTLIST varargs
%common.attrib;
%varargs.role.attrib;
%local.varargs.attrib;
>
<!--end of varargs.attlist-->

<!-- Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![[%paramdef.module;]
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;">

<!ENTITY % paramdef.element "INCLUDE">
<![[%paramdef.element;]
<!ELEMENT paramdef (#PCDATA
| replaceable
| parameter
| funcparams)*>
<!--end of paramdef.element-->]]>

<!ENTITY % paramdef.attlist "INCLUDE">
<![[%paramdef.attlist;]
<!ATTLIST paramdef %common.attrib;
%paramdef.role.attrib;
%local.paramdef.attrib;
>
<!--end of paramdef.attlist-->]]>

<!ENTITY % funcparams.module "INCLUDE">
<![[%funcparams.module;]
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">

<!ENTITY % funcparams.element "INCLUDE">
<![[%funcparams.element;]
<!ELEMENT funcparams (%cptr.char.mix;)*>
<!--end of funcparams.element-->]]>

<!ENTITY % funcparams.attlist "INCLUDE">
<![[%funcparams.attlist;]
<!ATTLIST funcparams %common.attrib;
%funcparams.role.attrib;
%local.funcparams.attrib;
>
<!--end of funcparams.attlist-->]]>
--- Document information entities and elements ................. -->

<!-- The document information elements include some elements that are
currently used only in the document hierarchy module. They are
defined here so that they will be available for use in customized
document hierarchies. -->

<!-- Address ......................... -->

<!-- Ackno ............................ -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!ENTITY % docinfo.content.module "INCLUDE">
<![docinfo.content.module;]
<!-- ConfGroup ........................ -->

<!ENTITY % confgroup.content.module "INCLUDE">
<![%confgroup.content.module;]
<!ENTITY % confgroup.module "INCLUDE">
<![%confgroup.module;]
<!ENTITY % local.confgroup.attrib "">
<!ENTITY % confgroup.role.attrib "%role.attrib;">

<!ENTITY % confgroup.element "INCLUDE">
<![%confgroup.element;]
<!ELEMENT confgroup ((confdates|conftitle|confnum|address|confsponsor)*)>
<![--end of confgroup.element-->]]>

<!ENTITY % confgroup.attlist "INCLUDE">
<![%confgroup.attlist;]
<!ATTLIST confgroup
%common.attrib;
%confgroup.role.attrib;
%local.confgroup.attrib;
>
<![--end of confgroup.attlist-->]]>
<![--end of confgroup.module-->]]>

<!ENTITY % confdates.module "INCLUDE">
<![%confdates.module;]
<!ENTITY % local.confdates.attrib "">
<!ENTITY % confdates.role.attrib "%role.attrib;">

<!ENTITY % confdates.element "INCLUDE">
<![%confdates.element;]
<!ELEMENT confdates (%docinfo.char.mix;)*>
<![--end of confdates.element-->]]>

<!ENTITY % confdates.attlist "INCLUDE">
<![%confdates.attlist;]
<!ATTLIST confdates
%common.attrib;
%confdates.role.attrib;
%local.confdates.attrib;
>
<![--end of confdates.attlist-->]]>
<![--end of confdates.module-->]]>

<!ENTITY % conftitle.module "INCLUDE">
<![%conftitle.module;]
<!ENTITY % local.conftitle.attrib "">

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1370
<!ENTITY % othername.role.attrib "%role.attrib;">

<!ENTITY % othername.element "INCLUDE">
<![%othername.element;]
<!ELEMENT othername (%docinfo.char.mix;)*>
<!--end of othername.element-->
]

<!ENTITY % othername.attlist "INCLUDE">
<![%othername.attlist;]
<!ATTLIST othername
%common.attrib;
%othername.role.attrib;
%local.othername.attrib;
>
<!--end of othername.attlist-->
]

<!--end of person.ident.module-->
]

<!-- PrintHistory ..................... -->

<!ENTITY % printhistory.module "INCLUDE">
<![%printhistory.module;]
<!ENTITY % local.printhistory.attrib ">">
<!ENTITY % printhistory.role.attrib "%role.attrib;">

<!ENTITY % printhistory.element "INCLUDE">
<![%printhistory.element;]
<!ELEMENT printhistory ((%para.class;)+)>

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1383
%local.function.attrib;
>
<!--end of function.attlist-->
<!--end of function.module-->

<!ENTITY % guibutton.module "INCLUDE">
<![%guibutton.module;]
<!ENTITY % local.guibutton.attrib "">
<!ENTITY % guibutton.role.attrib "%role.attrib;">

<!ENTITY % guibutton.element "INCLUDE">
<![%guibutton.element;]
<!ELEMENT guibutton (%smallcptr.char.mix;|accel)*>
<!--end of guibutton.element-->

<!ENTITY % guibutton.attlist "INCLUDE">
<![%guibutton.attlist;]
<!ATTLIST guibutton
%moreinfo.attrib;
%common.attrib;
%guibutton.role.attrib;
%local.guibutton.attrib;
>
<!--end of guibutton.attlist-->
<!--end of guibutton.module-->

<!ENTITY % guiicon.module "INCLUDE">
<![%guiicon.module;]
<!ENTITY % local.guiicon.attrib "">
<!ENTITY % guiicon.role.attrib "%role.attrib;">

<!ENTITY % guiicon.element "INCLUDE">
<![%guiicon.element;]
<!ELEMENT guiicon (%smallcptr.char.mix;|accel)*>
<!--end of guiicon.element-->

<!ENTITY % guiicon.attlist "INCLUDE">
<![%guiicon.attlist;]
<!ATTLIST guiicon
%moreinfo.attrib;
%common.attrib;
%guiicon.role.attrib;
%local.guiicon.attrib;
>
<!--end of guiicon.attlist-->
<!--end of guiicon.module-->

<!ENTITY % guilabel.module "INCLUDE">
<!ENTITY % token.module "INCLUDE">
<![%token.module:]>
<!ENTITY % local.token.attrib "">
<!ENTITY % token.role.attrib "%role.attrib;">  

<!ENTITY % token.element "INCLUDE">
<![%token.element:]>
<!ELEMENT token (%smallcptr.char.mix;)*>
<!--end of token.element-->

<!ENTITY % token.attlist "INCLUDE">
<![%token.attlist:]>
<!ATTLIST token
%common.attrib;
%token.role.attrib;
%local.token.attrib;
>
<!--end of token.attlist-->
<!--end of token.module-->

<!ENTITY % type.module "INCLUDE">
<![%type.module:]>
<!ENTITY % local.type.attrib "">
<!ENTITY % type.role.attrib "%role.attrib;">  

<!ENTITY % type.element "INCLUDE">
<![%type.element:]>
<!ELEMENT type (%smallcptr.char.mix;)*>
<!--end of type.element-->

<!ENTITY % type.attlist "INCLUDE">
<![%type.attlist:]>
<!ATTLIST type
%common.attrib;
%type.role.attrib;
%local.type.attrib;
>
<!--end of type.attlist-->
<!--end of type.module-->

<!ENTITY % userinput.module "INCLUDE">
<![%userinput.module:]>
<!ENTITY % local.userinput.attrib "">
<!ENTITY % userinput.role.attrib "%role.attrib;">  

<!ENTITY % userinput.element "INCLUDE">
<![%userinput.element:]>
<!ELEMENT userinput (%smallcptr.char.mix;)*>
<!--end of userinput.element-->
<!ENTITY % superscript.attlist "INCLUDE">
<!ENTITY % superscript.attlist;[
<!ATTLIST superscript
%common.attrib;
%ssscript.role.attrib;
%local.ssscript.attrib;
>]
<!ENTITY % trademark.module "INCLUDE">
<!ENTITY % local.trademark.attrib "">
<!ENTITY % trademark.role.attrib "%role.attrib;">}
<!ENTITY % trademark.element "INCLUDE">
<!ELEMENT trademark (#PCDATA
| %link.char.class;
| %tech.char.class;
| %base.char.class;
| %other.char.class;
| inlinemediaobject
| emphasis)>
<!--end of trademark.element-->
<!ENTITY % trademark.attlist "INCLUDE">
<!ENTITY % trademark.attlist;[
<!ATTLIST trademark
class(service
| trade
| registered
| copyright')trade'
%common.attrib;
%trademark.role.attrib;
%local.trademark.attrib;
>]
<!--end of trademark.attlist-->
</!-- Class: More precisely identifies the item the element names -->
<!ENTITY % ulink.attlist "INCLUDE">
<![%ulink.attlist;[
<!ATTLIST ulink
url CDATA #REQUIRED
type CDATA #IMPLIED
%common.attrib;
%ulink.role.attrib;
%local.ulink.attrib;
>]
<!--end of ulink.attlist-->]]>
<!--end of ulink.module-->]]>

<!ENTITY % footnoteref.module "INCLUDE">
<![%footnoteref.module;[
<!ENTITY % local.footnoteref.attrib "">
<!ENTITY % footnoteref.role.attrib "%role.attrib;">]
<!ENTITY % footnoteref.element "INCLUDE">
<![%footnoteref.element;[
<!ELEMENT footnoteref EMPTY>
<!--end of footnoteref.element-->]]>
<!-- to footnote content supplied elsewhere -->]

<!ENTITY % footnoteref.attlist "INCLUDE">
<![%footnoteref.attlist;[
<!ATTLIST footnoteref
%linkendreq.attrib;%label.attrib;
%common.attrib;
%footnoteref.role.attrib;
%local.footnoteref.attrib;
>]
<!--end of footnoteref.attlist-->]]>
<!--end of footnoteref.module-->]]>

<!ENTITY % xref.module "INCLUDE">
<![%xref.module;[
<!ENTITY % local.xref.attrib "">
<!ENTITY % xref.role.attrib "%role.attrib;">]
<!ENTITY % xref.element "INCLUDE">
<![%xref.element;[
<!ELEMENT xref EMPTY>
<!--end of xref.element-->]]>
<!-- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as
<!ENTITY % beginpage.element "INCLUDE">
<![%beginpage.element;]
<!ELEMENT beginpage EMPTY>
<!- end-of beginpage.element-->]]>

<!ENTITY % beginpage.attlist "INCLUDE">
<![%beginpage.attlist;]
<!ATTLIST beginpage
%pagenum.attrib;
%common.attrib;
%beginpage.role.attrib;
%local.beginpage.attrib;
>
<!- end-of beginpage.attlist-->]]>
<!- end-of beginpage.module-->]]>

<!- IndexTerms appear in the text flow for generating or linking an index. -->

<!ENTITY % indexterm.content.module "INCLUDE">
<![%indexterm.content.module;]
<!ENTITY % indexterm.module "INCLUDE">
<![%indexterm.module;]
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;">
<!ENTITY % indexterm.element "INCLUDE">
<![%indexterm.element;]
<!ELEMENT indexterm (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)?) | see | seealso+)?)>
<!--end of indexterm.element-->

<!- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire
elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![%indexterm.attlist;]
<!ATTLIST indexterm
%pagenum.attrib;
scope(all
|global
|local)#IMPLIED
significance(preferred
|normal)"normal"
class(singular
|startofrange
|endofrange)#IMPLIED
startrefIDREF#IMPLIED
zoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
>
<!--end of indexterm.attlist-->]]>
<!--end of indexterm.module-->]]>

<!ENTITY % primsecter.module "INCLUDE">
<![%primsecter.module;]
<!ENTITY % local.primsecter.attrib "">
<!ENTITY % primsecter.role.attrib "%role.attrib;">

<!ENTITY % primary.element "INCLUDE">
<![%primary.element;]
<!ELEMENT primary (ndxterm.char.mix;)*>
<!--end of primary.element-->]]>
<!-- SortAs: Alternate sort string for index sorting, e.g.,
"fourteen" for an element containing "14" -->

<!ENTITY % primary.attlist "INCLUDE">
<![%primary.attlist;]
<!ATTLIST primary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of primary.attlist-->]]>

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1428
<!ENTITY % secondary.element "INCLUDE">
<![%-secondary.element;]
<!ELEMENT secondary (%ndxterm.char.mix;)*>
<!--end of secondary.element-->

<!-- SortAs: Alternate sort string for index sorting, e.g., "fourteen" for an element containing "14" -->

<!ENTITY % secondary.attlist "INCLUDE">
<![%-secondary.attlist;]
<!ATTLIST secondary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of secondary.attlist-->

<!ENTITY % tertiary.element "INCLUDE">
<![%-tertiary.element;]
<!ELEMENT tertiary (%ndxterm.char.mix;)*>
<!--end of tertiary.element-->

<!-- SortAs: Alternate sort string for index sorting, e.g., "fourteen" for an element containing "14" -->

<!ENTITY % tertiary.attlist "INCLUDE">
<![%-tertiary.attlist;]
<!ATTLIST tertiary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of tertiary.attlist-->

<!--end of primsecter.module-->

<!ENTITY % seeseealso.module "INCLUDE">
<![%-seeseealso.module;]
<!ENTITY % local.seeseealso.attrib "">
<!ENTITY % seeseealso.role.attrib "%role.attrib;">

<!ENTITY % see.element "INCLUDE">
<![%-see.element;]
<!ELEMENT see (%ndxterm.char.mix;)*>
<!--end of see.element-->

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1429
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1430

<ENTITY % see.attlist "INCLUDE">
<![%see.attlist;[
<!ATTLIST see
%common.attrib;
%seeseealso.role.attrib;
%local.seeseealso.attrib;
>
<!--end of see.attlist-->]]>

<ENTITY % seealso.element "INCLUDE">
<![%seealso.element;[
<!ELEMENT seealso (%ndxterm.char.mix;)*>
<!--end of seealso.element-->]]>

<ENTITY % seealso.attlist "INCLUDE">
<![%seealso.attlist;[
<!ATTLIST seealso
%common.attrib;
%seeseealso.role.attrib;
%local.seeseealso.attrib;
>
<!--end of seealso.attlist-->]]>
<!--end of seealso.module-->
<!--end of indexterm.content.module-->

<!-- End of DocBook XML information pool module V4.1.2 ........................ -->
<!-- ...................................................................... -->

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
feKkMD47/docbkx412.zip-cosi-expand-archive-rZexZeDo/dbpoolx.mod
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML HTML Table Module V4.5 ................................. -->
<!-- File htmltblx.mod ................................................. -->

<!-- Copyright 2003-2006 ArborText, Inc., Norman Walsh, Sun Microsystems,
Inc., and the Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: htmltblx.mod 6340 2006-10-03 13:23:24Z nwalsh $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- .............................................................. -->

<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.5 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % htmltbl PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN" "htmltblx.mod">
%htmltbl;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--------------------------------- XHTML Tables --------------------------------->
<table>
<thead>
<tr>
<th>width</th>
<th>CDATA</th>
<th>#IMPLIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>%cellhalign;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%cellvalign;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<!ATTLIST col
%attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST tr
%attrs;
%cellhalign;
%cellvalign;
bgcolor CDATA #IMPLIED
>

<!ATTLIST th
%attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
headers IDREFS #IMPLIED
scope (row|col|rowgroup|colgroup) #IMPLIED
rowspan CDATA "1"
colspan CDATA "1"
%cellhalign;
%cellvalign;
nowrap (nowrap) #IMPLIED
bgcolor CDATA #IMPLIED
width CDATA #IMPLIED
height CDATA #IMPLIED
>

<!ATTLIST td
%attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
headers IDREFS #IMPLIED
scope (row|col|rowgroup|colgroup) #IMPLIED
rowspan CDATA "1"
colspan CDATA "1"
%cellhalign;
%cellvalign;
nowrap (nowrap) #IMPLIED
bgcolor CDATA #IMPLIED
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| linespecific
%local.notation.class;"

<!NOTATION BMPPUBLIC
"+/ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN"
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN"
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN"
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN"
<!NOTATION DITROFFSYSTEM "DITROFF"
<!NOTATION DVI SYSTEM "DVI"
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "EQN"
<!NOTATION FAXPUBLIC
"-/USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN"
<!NOTATION GIFSYSTEM "GIF"
<!NOTATION GIF87a PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 87a//EN"

<!NOTATION GIF89a PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 89a//EN"
<!NOTATION JPGSYSTEM "JPG"
<!NOTATION JPEGSYSTEM "JPG"
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"+/ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN"
<!NOTATION PICSYSTEM "PIC"
<!NOTATION PNG SYSTEM "http://www.w3.org/TR/REC-png"
<!NOTATION PSSYSTEM "PS"
<!NOTATION SGMLPUBLIC
<!NOTATION TBLSYSTEM "TBL"
<!NOTATION TEXPUBLIC
<!NOTATION TIFFSYSTEM "TIFF"
<!NOTATION WMFPUBLIC
"+/ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN"
<!NOTATION WPSYSTEM "WPG" > ~/.WordPerfect Graphic format-->
<!NOTATION linespecificSYSTEM "linespecific"

<!- End of DocBook XML notations module V4.1.2 ......................... -->
<!- .................................................................. -->
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

---

No license file was found, but licenses were detected in source scan.

---

2000 HaL Computer Systems, Inc.,

$Id: docbook.dtd,v 1.10 2000/05/18 19:46:57 nwalsh Exp$

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbk40.zip-cosi-expand-archive-TRC6Sw87/docbook.dtd
No license file was found, but licenses were detected in source scan.

03 13:23:24Z nwalsh $ 

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.5.zip-cosi-expand-archive-8o27UN3X/dbnotnx.xsd
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-rng-4.5.zip-cosi-expand-archive-3ykGCqX6/calstblx.rng
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.5.zip-cosi-expand-archive-8o27UN3X/dbhierx.xsd
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-rng-4.5.zip-cosi-expand-archive-3ykGCqX6/calstblx.rng
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.5.zip-cosi-expand-archive-8o27UN3X/dbhierx.xsd
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-rng-4.5.zip-cosi-expand-archive-3ykGCqX6/dbhierx.rng
* /opt/cola/permits/108839914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-rng-4.5.zip-cosi-expand-archive-3ykGCqX6/dbhierx.rng
No license file was found, but licenses were detected in source scan.

<!-- .............................................................. -->
<!-- DocBook notations module V4.4 ................................ -->
<!-- File dbnotnx.mod ............................................... -->

    O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
    Corporation, Norman Walsh, Sun Microsystems, Inc., and the
    Organization for the Advancement of Structured Information
    Standards (OASIS).

$Id: dbnotnx.mod,v 1.31 2005/01/27 13:52:00 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- .............................................................. -->

<!-- This module contains the notation declarations used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.4//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
No license file was found, but licenses were detected in source scan.

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module contains the definitions for the overall document.
hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.4//EN"
"dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->
<!-- Entities for content models ................................. -->

<!ENTITY % div.title.content "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content "title, subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.content "((%divcomponent.mix;)+, (sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*)) | (sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">

<!-- ...................................................................... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib """>
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!ELEMENT set %ho; ((%div.title.content;)?, setinfo?, toc?, (set|%book.class;)+, setindex?) %ubiq.inclusion;>
<![!-- end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->

<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set fpiCDATA#IMPLIED %status.attrib; %common.attrib; %set.role.attrib; %local.set.attrib; >
<!ENTITY % tocentry module "INCLUDE">
<![tocentry.module:]
<!ENTITY % local.tocentry attrib "">
<!ENTITY % tocentry role attrib "%role.attrib;">

<!ENTITY % tocentry element "INCLUDE">
<![tocentry.element:]
<!ELEMENT tocentry %ho; (%para.char.mix;)*>
<!--end of tocentry.element-->]]>
<!-- to element that this entry represents -->

<!ENTITY % tocentry attlist "INCLUDE">
<![tocentry.attlist:]
<!ATTLIST tocentry
%linkend.attrib;%pagenum.attrib;
%common.attrib;
%tocentry.role.attrib;
%local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]

<!ENTITY % tocpart module "INCLUDE">
<![tocpart.module:]
<!ENTITY % local.tocpart attrib "">
<!ENTITY % tocpart role attrib "%role.attrib;">

<!ENTITY % tocpart element "INCLUDE">
<![tocpart.element:]
<!ELEMENT tocpart %ho; (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart attlist "INCLUDE">
<![tocpart.attlist:]
<!ATTLIST tocpart
%common.attrib;
%tocpart.role.attrib;
%local.tocpart.attrib;
>
<!--end of tocpart.attlist-->]]>
<!--end of tocpart.module-->]]>

<!ENTITY % tocchap module "INCLUDE">
<![tocchap.module:]
<!ENTITY % local.tocchap attrib "">
<!ENTITY % tocchap role attrib "%role.attrib;">
<!-- Note that Part was to have its content model reduced in V4.4. This change will not be made after all. -->

<!ENTITY % local.part attrib ""
<!ENTITY % part.role attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;]
<!ELEMENT part %ho; (beginpage?,
   partinfo?, (%bookcomponent.title.content;), partintro?,
   (%partcontent.mix;)+)
   %ubiq.inclusion;>
<![--end of part.element--]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;]
<!ATTLIST part
   %label.attrib;
   %status.attrib;
   %common.attrib;
   %part.role.attrib;
   %local.part.attrib;
   >
<![--end of part.attlist--]]>
</!--ELEMENT PartIntro (defined below)-->
<![--end of part.module--]]>

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;]
<!ENTITY % local.preface.attrib ""
<!ENTITY % preface.role.attrib "%role.attrib;">
<![%sect3.attlist;[
<!ATTLIST sect3
renderas(sect1
|sect2
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect3.role.attrib;
%local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">  
<![%sect4.module;[
<!ENTITY % local.sect4.attrib """>  
<!ENTITY % sect4.role.attrib "%role.attrib;">  

<!ENTITY % sect4.element "INCLUDE">  
<![%sect4.element;[
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*, (((%divcomponent.mix;)+, ((%refentry.class;)* | sect5* | simplesect*)) | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>  
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect4.attlist "INCLUDE">  
<![%sect4.attlist;[
<!ATTLIST sect4
renderas(sect1
|sect2
|sect3
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>
SegmentedList in this content is useful for marking up permuted indices. -->

Index entries appear in the index, not the text. -->
<!ENTITY % refmeta.module "INCLUDE">
<![[%refmeta.module;]
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;"> 

<!ENTITY % refmeta.element "INCLUDE">
<![CDATA[
<!ELEMENT refmeta %ho; (%ndxterm.class;)*,
   refentrytitle, manvolnum?, refmiscinfo*,
   (%ndxterm.class;*)
%beginpage.exclusion:>
<!--end of refmeta.element-->
]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![CDATA[
<!ATTLIST refmeta 
   %common.attrib; 
   %refmeta.role.attrib; 
   %local.refmeta.attrib; 
]>
<!--end of refmeta.attlist-->
]]>

<!ENTITY % refmiscinfo.module "INCLUDE">
<![CDATA[
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;"> 

<!ENTITY % refmiscinfo.element "INCLUDE">
<![CDATA[
<!ELEMENT refmiscinfo %ho; (%docinfo.char.mix;)*
%beginpage.exclusion:>
<!--end of refmiscinfo.element-->
]]>

<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![CDATA[
<!ATTLIST refmiscinfo 
   class "CDATA" #IMPLIED 
   %common.attrib; 
   %refmiscinfo.role.attrib; 
   %local.refmiscinfo.attrib; 
]>
<!--end of refmiscinfo.attlist-->
]]>

</!ENTITY: Freely assignable parameter; no default -->
No license file was found, but licenses were detected in source scan.

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.
Please direct all questions, bug reports, or suggestions for changes to the davenport@berkshire.net mailing list. For more information, see http://www.oasis-open.org/docbook.

-->

<!-- .............................................................. -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V3.1//EN">
%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!-- .............................................................. -->

<!-- Entities for module inclusions ................................-->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- .............................................................. -->

<!-- Entities for element classes .....................................-->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "Appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "Article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class "Book %local.book.class;">
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1489
<!!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![ %dbhier.redecl2.module; [
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- Entities for content models .......................................... -->

<!ENTITY % div.title.content
"Title, Subtitle?, TitleAbbrev?"/>

<!ENTITY % bookcomponent.title.content
"DocInfo?, Title, Subtitle?, TitleAbbrev?"/>

<!ENTITY % sect.title.content
"Title, Subtitle?, TitleAbbrev?"/>

<!ENTITY % refsect.title.content
"Title, Subtitle?, TitleAbbrev?"/>

<!ENTITY % bookcomponent.content
"((%divcomponent.mix;)+,
(Sect1*|(%refentry.class;)*|SimpleSect*|Section*))
| (Sect1+|(%refentry.class;)+|SimpleSect+|Section+))">

<!ENTITY % set.content.module "INCLUDE">
<![ %set.content.module; [<!ENTITY % set.module "INCLUDE">
<![ %set.module; [
<!ENTITY % local.set.attrib ""/>
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![ %set.element; [
What did we decide about RenderAs?

Renderas(Sect1 | Sect2 | Sect3 | Sect4 | Sect5)#IMPLIED

--
%label.attrib;
%status.attrib;
%common.attrib;
%section.role.attrib;
%local.section.attrib;
>
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>
| Sect3 |
| Sect4 |
| Sect5 | #IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect1.role.attrib;
%local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!--ENTITY % sect2.module "INCLUDE">  
<![ %sect2.module; [  
<!--ENTITY % local.sect2.attrib "">  
<!--ENTITY % sect2.role.attrib "%role.attrib;">  

<!--ENTITY % sect2.element "INCLUDE">  
<![ %sect2.element; [  
<!--ELEMENT Sect2 - O (Sect2Info?, (%sect.title.content;), (%nav.class;)*,  
((%divcomponent.mix;)+,  
((%refentry.class;)* | Sect3* | SimpleSect*))  
| (%refentry.class;)+ | Sect3+ | SimpleSect+), (%nav.class;)*)>  
<!--end of sect2.element-->]]>

<!--ENTITY % sect2.attlist "INCLUDE">  
<![ %sect2.attlist; [  
<!--ATTLIST Sect2  
--  
Renderas: Indicates the format in which the heading should appear  
--  
Renderas(Sect1  
| Sect3  
| Sect4  
| Sect5 | #IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!--ENTITY % sect3.module "INCLUDE">  
<![ %sect3.module; [  
<!--ENTITY % local.sect3.attrib "">  

Open Source Used in Kenna Virtual Tunnel and Agent 2021.08 1506
appear
--
Renderas(Sect1
[Sect2
[Sect3
[Sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module; []
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">n

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element; []
<!ELEMENT Sect5 - O (Sect5Info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+, (%refentry.class;)* | SimpleSect*)
| (%refentry.class;)+ | SimpleSect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist; [
<!ATTLIST Sect5
--
Renderas: Indicates the format in which the heading should appear
--
Renderas(Sect1
[Sect2
[Sect3
[Sect4)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect5.role.attrib;
%local.sect5.attrib;
>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<!-- Article .............................................................. -->

<!ENTITY % article.module "INCLUDE">
<!%article.module; [ ]
<!-- An Article is a chapter-level, stand-alone document that is often,
but need not be, collected into a Book. -->
<!--FUTURE USE (V4.0):
.....
The %nav.class; entity now allows ToC; ToCchap will be allowed instead.
RefEntry will be removed from the main content of Article.
.....
-->

<!--FUTURE USE (V4.0):
.....
The ArtHeader element will be renamed to ArticleInfo.
.....
-->

<!ENTITY % local.article.attrib ""
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<!%article.element; [ ]
<!ELEMENT Article - O (%div.title.content;)?, ArtHeader?, ToCchap?, LoT*,
(%bookcomponent.content;),
((%nav.class;) | (%appendix.class;) | Ackno))*
%ubiq.inclusion;>
<!--end of article.element-->]]>

<!ENTITY % article.attlist "INCLUDE">
<!%article.attlist; [ ]
<!ATTLIST Article
--
Class: Indicates the type of a particular article;
all articles have the same structure and general purpose.
No default.
--
Class(JournalArticle
|ProductSheet
|WhitePaper
|TechReport
|FAQ)#IMPLIED
--
ParentBook: ID of the enclosing Book
--
ParentBookIDREF)#IMPLIED
%status.attrib;:
No license file was found, but licenses were detected in source scan.

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.2//EN"
"dbcentx.mod">
%dbcent;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->  

<!-- ........................................................ -->

```
<![%sgml.features;[
  
<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [ 
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [ 
<!ENTITY % ISOamsb PUBLIC
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [ 
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [ 
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
```

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1522
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided “as is” without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.2.zip-cosi-expand-archive-WDwc6S51/calstblx.xsd
No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->
<!-- DocBook XML information pool module V4.5 ...................... -->
<!-- File dbpoolx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbpoolx.mod 6340 2006-10-03 13:23:24Z nwalsh $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook XML DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- ................................................................. -->

<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
publishing, and others are useful specifically for computer
documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is
referenced in the NOTATION attributes for the graphic-related and
ModeSpec elements.

- It assumes that an appropriately parameterized table module is
available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.5//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Forms entities ....................................................... -->
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">

<!-- General-purpose semantics entities ............................. -->
<!ENTITY % yesorno.attvals "CDATA">

<!-- Entities for module inclusions .................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for element classes and mixtures ........................ -->
<!ENTITY % local.ndxterm.class "">

"ndxterm %local.ndxterm.class;">

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->
<!ENTITY % local.ndxterm.class "">

<!ENTITY % ndxterm.class "indexterm %local.ndxterm.class;">
Table entry mixture     X X X X d
Glossary def mixture X X X X X e
Legal notice mixture  X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class;  |beginpage
%forms.hook;
  %local.component.mix;">

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;procedure
|%genobj.class;
|%ndxterm.class;  |beginpage
%forms.hook;
  %local.sidebar.mix;">

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix
"%list.class; |%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;procedure
|%genobj.class;
|%ndxterm.class;
%forms.hook;
  %local.qandaset.mix;">

<!ENTITY % local.revdescription.mix "">
<!ENTITY % revdescription.mix
"%list.class;%admon.class;
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

<!-- 
#PCD xref word link cptr base dnfo othr inob (synop) 
par.char.mix X X X X X X X X X
title.char.mix X X X X X X X X X
ndxterm.char.mix X X X X X X X X a
cptr.char.mix X X X X X a
smallcptr.char.mix X b a
word.char.mix X c X X X a
docinfo.char.mix X d X b X a

<!ENTITY % remark.exclusion "">
<!ENTITY % glossterm.exclusion "">
<!ENTITY % links.exclusion "">
<-- ]] not sgml.features -->

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlineobj.char.class;
[%synop.class;
[%ndxterm.class; beginpage
 %forminlines.hook;
%local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlineobj.char.class;
[%ndxterm.class;
%local.title.char.mix;">

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
"wordsizeCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">

<!ENTITY % effectivity.attrib "%arch.attrib;
    %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
    %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%wordsize.attrib;
%local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!ENTITY % id.attrib "id	ID	#IMPLIED">

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % idreq.attrib "id	ID	#REQUIRED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "id	ID	#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib "roleCDATA#IMPLIED">
"roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib
"xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib
"revisionflag(changed
|added
|deleted
|off)#IMPLIED">

<!-- dir: Bidirectional override -->

<!ENTITY % dir.attrib
"dirltr
|rtl
|lro
|rlo)#IMPLIED">

<!-- xml:base: base URI -->

<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib
 "%id.attrib;
 %lang.attrib;
 %remap.attrib;
 %xreflabel.attrib;
 %revisionflag.attrib;
 %effectivity.attrib;
 %dir.attrib;
valign\(\text{top}\) | middle | bottom)\#IMPLIED
scaleCDATA\#IMPLIED
scalefit\%yesorno.attsvals;
\#IMPLIED
\%local.graphics.attrib;"

<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one
child element, Simul if there is more than one; if value is
Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib " action(click | double-click | press | seq | simul | other)#IMPLIED
otheractionCDATA\#IMPLIED
\%local.keyaction.attrib;"
>

<!-- Label: Identifying number or string; default is usually the
appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA\#IMPLIED">

<!-- xml:space: whitespace treatment -->

<![%sgml.features;[<!ENTITY % xml-space.attrib "">
]]>
<!ENTITY % xml-space.attrib "xml:space(preserve)#IMPLIED">

<!-- Format: whether element is assumed to contain significant white
space -->

<!ENTITY % linespecific.attrib>
it applies to, such as "in review" or "approved for distribution" -->

<!ENTITY % status.attrib "status CDATA IMPLIED %local.status.attrib;" >

<!-- Width: width of the longest line in the element to which it pertains, in number of characters -->

<!ENTITY % width.attrib "width CDATA IMPLIED">  

<!-- ...................................................................... -->

<!-- Title elements ....................................................... -->

<!ENTITY % title.module "INCLUDE">  
<![%title.module;[
<!ENTITY % local.title.attrib "">
<!ENTITY % title.role.attrib "%role.attrib;">  

<!ENTITY % title.element "INCLUDE">  
<![%title.element;[
<!--doc:The text of the title of a section of a document or of a formal block-level element.-->
<!ELEMENT title %ho; (%title.char.mix;)*>  
<!--end of title.element-->]]>

<!ENTITY % title.attlist "INCLUDE">  
<![%title.attlist;[
<!ATTLIST title %pagenum.attrib; %common.attrib; %title.role.attrib; %local.title.attrib; >  
<!--end of title.attlist-->]]  
<!--end of title.module-->]]>

<!ENTITY % titleabbrev.module "INCLUDE">  
<![%titleabbrev.module;[
<!ENTITY % local.titleabbrev.attrib "">
<!ENTITY % titleabbrev.role.attrib "%role.attrib;">  

<!ENTITY % titleabbrev.element "INCLUDE">  
<![%titleabbrev.element;[
<!--doc:The abbreviation of a Title.-->
<!ELEMENT titleabbrev %ho; (%title.char.mix;)*>
"abbrev|abstract|address|artpagenums|author
|authorgroup|authorinitials|bibliomisc|biblioset
|collab|confgroup|contractnum|contractsponsor
|copyright|corpauthor|corpname|corpcredit|date|edition
|editor|invpartnumber|isbn|issn|issuenum|orgname
|biblioid|citebiblioid|bibliosource|bibliorelation|bibliocoverage
|othercredit|pagenums|printhistory|productname
|productnumber|pubdate|publisher|publishernamename
|pubsnumber|releaseinfo|revhistory|seriesvolnums
|subtitle|title|titleabbrev|volumenum|citetitle
|personname|%person.ident.mix;
|%ndxterm.class;
%local.bibliocomponent.mix;">

<!-- I don't think this is well placed, but it needs to be here because of -->
</!ENTITY % local.info.class -->

</ENTITY % info.class
"graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itemset | %bibliocomponent.mix;
%local.info.class;">

<!-- BiblioList ................................ -->

</ENTITY % bibliolist.module "INCLUDE">
</[%bibliolist.module;]
</ENTITY % local.bibliolist.attrib "">
</ENTITY % bibliolist.role.attrib "%role.attrib;">

</ENTITY % bibliolist.element "INCLUDE">
</[%bibliolist.element;]
</!--doc:A wrapper for a set of bibliography entries.-->
</ENTITY bibliolist %ho: (blockinfo?, (%formalobject.title.content;)?,
  (bibioentry[bibliomixed]+))>
</!--end of bibliolist.element-->

</ENTITY % bibliolist.attlist "INCLUDE">
</[%bibliolist.attlist;]
</ATTLIST bibliolist
%common.attrib;
%bibliolist.role.attrib;
%local.bibliolist.attrib;
>
</!--end of bibliolist.attlist-->
</!--end of bibliolist.module-->

</ENTITY % biblioentry.module "INCLUDE">
<!ENTITY % bibliomset.element "INCLUDE">  
<![bibliomset.element;[
<!--doc:A "cooked" container for related bibliographic information.-->
<!ELEMENT bibliomset %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)*
  %ubiq.exclusion;>
<!end of bibliomset.element--]]>

<!-- Relation: Relationship of elements contained within BiblioMSet -->

<!ENTITY % bibliomset.attlist "INCLUDE">  
<![bibliomset.attlist;[
<!ATTLIST bibliomset
  relation CDATA #IMPLIED %common.attrib;
  %bibliomset.role.attrib;
  %local.bibliomset.attrib;
>  
<!end of bibliomset.attlist--]]>
<!end of bibliomset.module--]]>

<!ENTITY % bibliomisc.module "INCLUDE">  
<![bibliomisc.module;[
<!ENTITY % local.bibliomisc.attrib "">
<!ENTITY % bibliomisc.role.attrib "%role.attrib;">  

<!ENTITY % bibliomisc.element "INCLUDE">  
<![bibliomisc.element;[
<!--doc:Untyped bibliographic information.-->
<!ELEMENT bibliomisc %ho; (%para.char.mix;)*>
<!end of bibliomisc.element--]]>

<!ENTITY % bibliomisc.attlist "INCLUDE">  
<![bibliomisc.attlist;[
<!ATTLIST bibliomisc
  %common.attrib;
  %bibliomisc.role.attrib;
  %local.bibliomisc.attrib;
>  
<!end of bibliomisc.attlist--]]>
<!end of bibliomisc.module--]]>

<!-- .................................................. -->
<!-- Subject, Keyword, and ITermSet elements ...................... -->

<!ENTITY % subjectset.content.module "INCLUDE">  
<![subjectset.content.module;[
<!ENTITY % subjectset.module "INCLUDE">
<!DOCTYPE html>
<html><head></head><body><pre>&lt;!ENTITY % subjectset.attrib ""&gt;
&lt;!ENTITY % subjectset.role.attrib "%role.attrib;"&gt;

&lt;!ENTITY % subjectset.element "INCLUDE"&gt;
&lt;!ENTITY % subjectset.element:[
<!--doc:A set of terms describing the subject matter of a document.--&gt;
&lt;!ELEMENT subjectset %ho; (subject+)&gt;
&lt;!--end of subjectset.element--&gt;
]&gt;

&lt;!-- Scheme: Controlled vocabulary employed in SubjectTerms --&gt;

&lt;!ENTITY % subjectset.attlist "INCLUDE"&gt;
&lt;!ENTITY % subjectset.module;[
<!ENTITY % local.subjectset.attrib ""&gt;
<!ENTITY % subject.role.attrib "%role.attrib;"&gt;

&lt;!ENTITY % subjectset.module "INCLUDE"&gt;
&lt;!ENTITY % subject.module;[
<!ENTITY % local.subject.attrib ""&gt;
<!ENTITY % subject.role.attrib "%role.attrib;"&gt;

&lt;!ENTITY % subjectset.element "INCLUDE"&gt;
&lt;!ENTITY % subject.element;[
<!--doc:One of a group of terms describing the subject matter of a document.--&gt;
&lt;!ELEMENT subject %ho; (subjectterm+)&gt;
&lt;!--end of subject.element--&gt;
]&gt;

&lt;!-- Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified --&gt;

&lt;!ENTITY % subject.attlist "INCLUDE"&gt;
&lt;!ENTITY % subject.attlist;[
<!ATTLIST subject
schemeNMTOKEN#IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
]&gt;

&lt;!--end of subjectset.attlist--&gt;
&lt;!--end of subjectset.module--&gt;

&lt;!ENTITY % subject.module "INCLUDE"&gt;
&lt;!ENTITY % subject.module;[
<!ENTITY % local.subject.attrib ""&gt;
<!ENTITY % subject.role.attrib "%role.attrib;"&gt;

&lt;!ENTITY % subject.element "INCLUDE"&gt;
&lt;!ENTITY % subject.element;[
<!--doc:One of a group of terms describing the subject matter of a document.--&gt;
&lt;!ELEMENT subject %ho; (subjectterm+)&gt;
&lt;!--end of subject.element--&gt;
]&gt;

&lt;!-- Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified --&gt;

&lt;!ENTITY % subject.attlist "INCLUDE"&gt;
&lt;!ENTITY % subject.attlist;[
<!ATTLIST subject
weightCDATA#IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
]&gt;

&lt;!--end of subject.attlist--&gt;
</pre></body></html>
<!--doc:A wrapper for an entry in a message set.-->
<!--ELEMENT msgentry %ho; (msg+, msginfo?, msgexplan*)>
</!--end of msgentry.element--]]>
</!--end of msgentry.module--]]>

<!--doc:A wrapper for a simpler entry in a message set.-->
<!--ELEMENT simplemsgentry %ho; (msgtext, msgexplan+)>
</!--end of simplemsgentry.element--]]>
</!--end of simplemsgentry.module--]]>

<!--ELEMENT simplemsgentry %ho; (msgtext, msgexplan+)>
</!--end of simplemsgentry.element--]]>
</!--end of simplemsgentry.module--]]>

<!--ELEMENT msg %ho; (msg+)>
</!--end of msg.module--]]>
</!--end of msg.module--]]>
<!ENTITY % qandaset.content.module "INCLUDE">
<![ %qandaset.content.module; [
<!ENTITY % qandaset.module "INCLUDE">
<![ %qandaset.module; [
<!ENTITY % local.qandaset.attrib """>
<!ENTITY % qandaset.role.attrib "%role.attrib;"> 

<!ENTITY % qandaset.element "INCLUDE">
<![ %qandaset.element; [
<!-doc:A question-and-answer set.-->
<!ELEMENT qandaset %ho; (blockinfo?, (%formalobject.title.content);?, (%qandaset.mix;)*, (qandadiv+|qandaentry+))>
<!-end of qandaset.element-->
]

<!ENTITY % qandadiv.module "INCLUDE">
<![ %qandadiv.module; [
<!ENTITY % local.qandadiv.attrib "">
<!ENTITY % qandadiv.role.attrib "%role.attrib;"> 

<!ENTITY % qandaentry.module "INCLUDE">
<!--doc:A wrapper for steps that occur within steps in a procedure.-->
<!ELEMENT substeps %ho; (step+)>
<!end of substeps.element-->
]
>]

<!-- Performance: whether entire set of substeps must be performed -->
<!-- not #REQUIRED! -->

<!ENTITY % substeps.attlist "INCLUDE">
<![%substeps.attlist;]
<!ATTLIST substeps

performance(optional
[required]"required"
%common.attrib;
%substeps.role.attrib;
%local.substeps.attrib;
>
<![end of substeps.attlist-->]]>
<![end of substeps.module-->]]>

<!ENTITY % stepalternatives.module "INCLUDE">
<![%stepalternatives.module;[
<!ENTITY % local.stepalternatives.attrib "">
<!ENTITY % stepalternatives.role.attrib "%role.attrib;">

<!ENTITY % stepalternatives.element "INCLUDE">
<![%stepalternatives.element;[>
<!--doc:Alternative steps in a procedure.-->
<!ELEMENT stepalternatives %ho; (step+)>
<!end of stepalternatives.element-->
]
>]

<!-- Performance: Whether (one of) the alternatives must be performed -->
<!-- not #REQUIRED! -->

<!ENTITY % stepalternatives.attlist "INCLUDE">
<![%stepalternatives.attlist;[
<!ATTLIST stepalternatives

performance(optional
[required]"required"
%common.attrib;
%stepalternatives.role.attrib;
%local.stepalternatives.attrib;
>
<![end of stepalternatives.attlist-->]]>
<![end of stepalternatives.module-->]]>
<![end of procedure.content.module-->]]>

<!-- Sidebar .......................... -->
<![%attribution.element;]
<!doctype:The source of a block quote or epigraph.-->
<!ELEMENT attribution %ho; (%para.char.mix;)*>
<!end of attribution.element--><![>
</!]attribute %attribute attlist "INCLUDE">
<!DOCTYPE %attribute attlist;[
<!ATTLIST attribution
%common.attrib;
%attribute.role.attrib;
%local.attribute.attrib;
>
<!end of attribution.attlist--><![>
<!end of attribution.module--><![>
</ENTITY % bridgehead module "INCLUDE">
<!DOCTYPE %bridgehead module;[
<!ENTITY % local.bridgehead attrib "";>
<!ENTITY % bridgehead role attrib "%role attrib;";>
</ENTITY % bridgehead element "INCLUDE">
<!DOCTYPE %bridgehead element;[
<!doctype:A free-floating heading.-->
<!ELEMENT bridgehead %ho; (%title.char.mix;)*>
<!end of bridgehead.element--><![>
</!] Renderas: Indicates the format in which the BridgeHead should appear -->
</ENTITY % bridgehead attlist "INCLUDE">
<!DOCTYPE %bridgehead attlist;[
<!ATTLIST bridgehead
renderas (other
|sect1
|sect2
|sect3
|sect4
|sect5)#IMPLIED
%common.attrib;
%bridgehead.role.attrib;
%local.bridgehead.attrib;
>
<!end of bridgehead.attlist--><![>
<!end of bridgehead.module--><![>
</ENTITY % remark module "INCLUDE">
<!DOCTYPE %remark module;[

<!-- Lists ----------------------------- -->

<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module:]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">

<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element:]
<!--doc:A wrapper for a set of GlossEntrys.-->
<!ELEMENT glosslist %ho; (blockinfo?, (%formalobject.title.content;)?, glossentry+)>
<!--end of glosslist.element-->
]

<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist:]
<!ATTLIST glosslist
%common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
>}
<!--end of glosslist.attlist-->
]

<!--end of glosslist.module-->
]

<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module:]
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module:]
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;">

<!ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element:]
<!--doc:An entry in a Glossary or GlossList.-->
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,
(ndxterm.class;)*,
revhistory?, (glosssee[glossdef+]))>
<!--end of glossentry.element-->
]

<!-- SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content -->

<!ENTITY % glossentry.attlist "INCLUDE">
<![%glossentry.attlist:]

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1578
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (%listpreamble.mix;)*, listitem+)>

<!ENTITY % itemizedlist.attlist "INCLUDE">
<!ATTLIST itemizedlist
spacing(normal|compact)#IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!ENTITY % orderedlist.module "INCLUDE">
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (%listpreamble.mix;}*, listitem+)>
<!-- Spacing: Whether the vertical space in the list should be compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;[
<!ATTLIST orderedlist
numeration(arabic
|upperalpha
|loweralpha
|upperroman
|lowerroman)#IMPLIED
inheritnum(inherit
|ignore)"ignore"
continuation(continues
|restarts)"restarts"
spacing(normal
|compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
> }
<!--end of orderedlist.attlist-->]]>
<!--end of orderedlist.module-->]]>

<!ENTITY % listitem.module "INCLUDE">
<![%listitem.module;[
<!ENTITY % local.listitem.attrib "">
<!ENTITY % listitem.role.attrib "%role.attrib;">

<!ENTITY % listitem.element "INCLUDE">
<![%listitem.element;[
<!--doc:A wrapper for the elements of a list item.-->
<!ELEMENT listitem %ho; ((%component.mix;)+)> }
<!--end of listitem.element-->]]>

<!-- Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->

<!ENTITY % listitem.attlist "INCLUDE">
<![%listitem.attlist;[
<!ATTLIST listitem
overrideCDATA#IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  1583
SimpleList .......................
<ENTITY % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;]
<ENTITY % simplelist.module "INCLUDE">
<![%simplelist.module;]
<ENTITY % local.simplelist.attrib "">
<ENTITY % simplelist.role.attrib "%role.attrib;">

<ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;]
<!--doc:An undecorated list of single words or short phrases.-->
<ELEMENT simplelist %ho; (member*)>
<!--end of simplelist.element-->>

<!-- Columns: The number of columns the array should contain  -->
<!-- Type: How the Members of the SimpleList should be  
formatted: Inline (members separated with commas etc.  
inline), Vert (top to bottom in n Columns), or Horiz (in  
the direction of text flow) in n Columns. If Column  
is 1 or implied, Type=Vert and Type=Horiz give the same  
results. -->

<ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;]
<!ATTLIST simplelist  
columns CDATA #IMPLIED  
type (inline | vert | horiz) "vert"  
%common.attrib;  
%simplelist.role.attrib;  
%local.simplelist.attrib;  
> 
<![--end of simplelist.attlist-->>]
<![--end of simplelist.module--]]>

<ENTITY % member.module "INCLUDE">
<![%member.module;]
<ENTITY % local.member.attrib "">
<ENTITY % member.role.attrib "%role.attrib;">

<ENTITY % member.element "INCLUDE">
<![%member.element;]
<!--doc:An element of a simple list.-->
<ELEMENT member %ho; (%para.char.mix;)>
<![--end of member.element--]]>

<![ENTITY % member.attlist "INCLUDE">
VariableList .....................

TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->
<!-- CalloutList (defined above in Lists)-->
- LineRange "startline endline": whole lines from startline
to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending
points of area in "linespecific" content that starts at
first position and ends at second position (including the
beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!-- ENTITY % areaszp.attlist "INCLUDE" -->
<![%areaspec.attlist;[
<!ATTLIST areaszp
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
> 
<!--end of areaszp.attlist-->]]>
<!--end of areaszp.module-->]]>

<!-- ENTITY % area.module "INCLUDE" -->
<![%area.module;[
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!-- ENTITY % area.element "INCLUDE" -->
<![%area.element;[
<!--doc:A region defined for a Callout in a graphic or code example.-->
<!ELEMENT area %ho; EMPTY>
<!--end of area.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist:[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module:[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">>

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element:[
<!--doc:A set of related areas in a graphic or code example.-->
<!ELEMENT areaset %ho; (area+)>]
<!--end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist:[
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1592
Equations

This PE provides a mechanism for replacing equation content, perhaps adding a new or different model (e.g., MathML).

`ENTITY % equation.content "(alt?, (graphic+|mediaobject+|mathphrase+))"`

`ENTITY % inlinenequation.content "(alt?, (graphic+|linemediaobject+|mathphrase+))"`

`ENTITY % equation.module "INCLUDE"`

`ENTITY % equation.element "INCLUDE"`

`ENTITY % equation.attlist "INCLUDE"`

`ENTITY % informalequation.module "INCLUDE"`

`ENTITY % informalequation.element "INCLUDE"`

`ENTITY % informalequation.attlist "INCLUDE"`
<!ELEMENT informaltable %ho; (blockinfo?, (%informal.tbl.table.mdl;))>
<!--end of informaltable.element-->]]>

<!DOCTYPE informaltable [
<!ATTLIST informaltable
frame (%tbl.frame.attval;)	#IMPLIED
colsep %yesorno.attvals;	#IMPLIED
rowsep %yesorno.attvals;	#IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
>]
<!--end of informaltable.attlist-->
<!end of informaltable.module-->

<!ENTITY % informaltable.attlist "INCLUDE">
<![%informaltable.attlist;[
<!% ATTLIST informaltable
frame (%tbl.frame.attval;)#IMPLIED
colsep %yesorno.attvals;#IMPLIED
rowsep %yesorno.attvals;#IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
>]
<!--end of informaltable.attlist-->]]>
<!--end of informaltable.module-->]]>

<!ENTITY % caption.module "INCLUDE">
<![ %caption.module; [
<!ENTITY % local.caption.attrib "">
<!ENTITY % caption.role.attrib "%role.attrib;">
<!ENTITY % caption.element "INCLUDE">
<![ %caption.element; [
<!--doc:A caption.-->
<!ELEMENT caption %ho; (#PCDATA | %textobject.mix;)*>
<!--end of caption.element--> ]]>]

<!ENTITY % caption.attlist "INCLUDE">
<![ %caption.attlist; [
<!--attrs comes from HTML tables ... -->

<![ %allow.html.tables; [
<!-- common.attrib, but without ID because ID is in attrs -->
<!ENTITY % caption.attlist.content "
%caption.role.attrib;
%atts;
align(top|bottom|left|right)#IMPLIED
%local.caption.attrib;
">
]]>
<!ENTITY % caption.attlist.content "

---
Open Source Used in Kenna Virtual Tunnel and Agent 2021.08 1611
<!ENTITY % cmdsynopsis.element "INCLUDE">
<![%cmdsynopsis.element;]
<!-- doc:A syntax summary for a software command.-->
<!ELEMENT cmdsynopsis %ho; ((command | arg | group | sbr)+, synopfragment*)>
<!-- end of cmdsynopsis.element-->

<!ENTITY % cmdsynopsis.attlist "INCLUDE">
<![%cmdsynopsis.attlist;[
<!ATTLIST cmdsynopsis
%label.attrib;
sepcharCDATA" "
cmdlengthCDATA#IMPLIED
%common.attrib;
%cmdsynopsis.role.attrib;
%local.cmdsynopsis.attrib;
> 
<!--end of cmdsynopsis.attlist-->
<!--end of cmdsynopsis.module-->

<!ENTITY % arg.module "INCLUDE">
<![%arg.module;[
<!ENTITY % local.arg.attrib "">
<!ENTITY % arg.role.attrib "%role.attrib;">

<!ENTITY % arg.element "INCLUDE">
<![%arg.element;[
<!-- doc: An argument in a CmdSynopsis.-->
<!ELEMENT arg %ho; (#PCDATA
| arg
| group
| option
| synopfragmentref
| replaceable
| sbr)*>
<!--end of arg.element-->

<!-- Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->
%local.group.attrib;
>
<!--end of group.module-->

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;[
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;[
<!--doc: An explicit line break in a command synopsis.--> 
<!ELEMENT sbr %ho; EMPTY>
<!--end of sbr.element-->

<!ENTITY % sbr.attlist "INCLUDE">
<![%sbr.attlist;[
<!ATTLIST sbr 
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->

<!ENTITY % synopfragmentref.module "INCLUDE">
<![%synopfragmentref.module;[
<!ENTITY % local.synopfragmentref.attrib "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!ENTITY % synopfragmentref.element "INCLUDE">
<![%synopfragmentref.element;[
<!--doc: A reference to a fragment of a command synopsis.--> 
<!ELEMENT synopfragmentref %ho; (#PCDATA)>
<!--end of synopfragmentref.element-->

<!-- to SynopFragment of complex synopsis material for separate referencing -->

<!ENTITY % synopfragmentref.attlist "INCLUDE">
<![%synopfragmentref.attlist;[
<!ATTLIST synopfragmentref 
%linkendreq.attrib;%common.attrib;
%synopfragmentref.role.attrib;
%local.synopfragmentref.attrib;
<!-- Document information entities and elements ........................... -->

<!-- The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!ENTITY % docinfo.content.module "INCLUDE”>
<![%docinfo.content.module:]]>

<!-- Ackno ............................ -->

<!ENTITY % ackno.module "INCLUDE”>
<![%ackno.module:]]

<!ENTITY % local.ackno.attrib “”>
<!ENTITY % ackno.role.attrib “%role.attrib;”>

<!ENTITY % ackno.element "INCLUDE”>
<![%ackno.element:]]
<!ELEMENT ackno %ho; (%docinfo.char.mix;)*>
<!–end of ackno.element-->

<!ENTITY % ackno.attlist "INCLUDE”>
<![%ackno.attlist:]]
<!ATTLIST ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<!–end of ackno.attlist-->
<!–end of ackno.module-->

<!-- Address .......................... -->

<!ENTITY % address.content.module "INCLUDE”>
<![%address.content.module:]]

<!ENTITY % address.module "INCLUDE”>
<![%address.module:]]
<!ENTITY % local.address.attrib “”>
<!ENTITY % address.role.attrib “%role.attrib;”>
<!ENTITY % releaseinfo.module "INCLUDE">
<![releaseinfo.module;]
<!ENTITY % local.releaseinfo.attrib "">
<!ENTITY % releaseinfo.role.attrib "%role.attrib;">

<!ENTITY % releaseinfo.element "INCLUDE">
<![releaseinfo.element;]
<!--doc:Information about a particular release of a document.-->
<!ELEMENT releaseinfo %ho; (%docinfo.char.mix;)*>
<![end of releaseinfo.element--]>]]>

<!-- RevHistory ....................... -->
<!ENTITY % revhistory.content.module "INCLUDE">
<![revhistory.content.module;]
<!ENTITY % revhistory.module "INCLUDE">
<![revhistory.module;]
<!ENTITY % local.revhistory.attrib "">
<!ENTITY % revhistory.role.attrib "%role.attrib;">

<!ENTITY % revhistory.element "INCLUDE">
<![revhistory.element;]
<!--doc:A history of the revisions to a document.-->
<!ELEMENT revhistory %ho; (revision+)>
<![end of revhistory.element--]>]]>

<!--end of revhistory.module-->

<!ENTITY % revision.module "INCLUDE">
<![revision.module;]
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->

<!--ENTITY % coref.attlist "INCLUDE">
<![%coref.attlist;]
<!--ENTITY % coref.role.attrib "">
<!--ENTITY % local.coref.attrib "">
> 
<![--end of coref.attlist-->]]>
<![--end of coref.module-->]]>

<!--ENTITY % command.module "INCLUDE"> 
<![%command.module;]
<!--ENTITY % local.command.attrib ""'>
<!--ENTITY % command.role.attrib "%role.attrib;"> 

<!--ENTITY % command.element "INCLUDE"> 
<![%command.element;]
<!--ENTITY % moreinfo.attrib; 
<!--ENTITY % common.attrib; 
<!--ENTITY % command.role.attrib; 
<!--ENTITY % local.command.attrib; > 
<![--end of command.attlist-->]]>
<![--end of command.module-->]]>

<!--ENTITY % computeroutput.module "INCLUDE"> 
<![%computeroutput.module;]
<!--ENTITY % local.computeroutput.attrib ""'>
<!--ENTITY % computeroutput.role.attrib "%role.attrib;"> 

<!--ENTITY % computeroutput.element "INCLUDE">
<!-- Class: Type of medium named by the element; no default -->

<!ENTITY % medialabel.attlist "INCLUDE">  
<!ATTLIST medialabel class (cartridge|cdrom|disk|tape)#IMPLIED  
%common.attrib;  
%medialabel.role.attrib;  
%local.medialabel.attrib;  
>  
<!--end of medialabel.attlist-->]]>
<!--end of medialabel.module-->]]>

<!ENTITY % menuchoice.content.module "INCLUDE">  
<!ATTLIST menuchoice.content.module:  
<!ENTITY % menuchoice.module "INCLUDE">  
<!ENTITY % local.menuchoice.attrib "">  
<!ENTITY % menuchoice.role.attrib "%role.attrib;">  
<!ENTITY % menuchoice.attrib "">  
<!ENTITY % menuchoice.element "INCLUDE">  
<!--doc:A selection or series of selections from a menu.--->  
<!ELEMENT menuchoice %ho; (shortcut?, (guibutton|guiicon|guilabel  
guimenu|guimenuitem|guisubmenu|interface)+)>  
<!--end of menuchoice.element-->]]>

<!ENTITY % menuchoice.attlist "INCLUDE">  
<!ATTLIST menuchoice.attlist:  
<!ENTITY menuchoice module "INCLUDE">  
%moreinfo.attrib;  
%common.attrib;  
%menuchoice.role.attrib;  
%local.menuchoice.attrib;  
>  
<!--end of menuchoice.attlist-->]]>
<!--end of menuchoice.module-->]]>

<!ENTITY % shortcut.module "INCLUDE">  
<!ATTLIST shortcut.module:  
<!ENTITY % local.shortcut.attrib "">  
<!ENTITY % shortcut.role.attrib "%role.attrib;">  
<!ENTITY % shortcut.attrib "">  
<!-- See also KeyCombo -->  
<!ENTITY % localshortcut.attrib "">  
<!ENTITY % shortcut.role.attrib "%role.attrib;">  
<!ENTITY % shortcut.attrib "">
<!-- to GlossEntry if GlossTerm used in text -->
<!-- BaseForm: Provides the form of GlossTerm to be used
for indexing -->

<!ENTITY % glossterm.attlist "INCLUDE">
<![glossterm.attlist;]
<!ATTLIST glossterm
baseformCDATA#IMPLIED
%linkend.attrib;
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<!--end of glossterm.attlist-->]]>
<!--end of glossterm.module-->]]>

<!ENTITY % firstterm.module "INCLUDE">
<![firstterm.module;]
<!ENTITY % local.firstterm.attrib "">
<!ENTITY % firstterm.role.attrib "%role.attrib;"> 

<!ENTITY % firstterm.element "INCLUDE">
<![firstterm.element;]
<!doc:The first occurrence of a term.-->
<!ELEMENT firstterm %ho; (%para.char.mix;)*
%glossterm.exclusion;>
<!--end of firstterm.element-->]]>

<!-- to GlossEntry or other explanation -->

<!ENTITY % firstterm.attlist "INCLUDE">
<![firstterm.attlist;]
<!ATTLIST firstterm
baseformCDATA#IMPLIED
%linkend.attrib;
%common.attrib;
%firstterm.role.attrib;
%local.firstterm.attrib;
>
<!--end of firstterm.attlist-->]]>
<!--end of firstterm.module-->]]>

<!ENTITY % phrase.module "INCLUDE">
<![phrase.module;]
<!ENTITY % local.phrase.attrib "">
<!ENTITY % phrase.role.attrib "%role.attrib;">
<!-- IndexTerms appear in the text flow for generating or linking an index. -->

<!ENTITY % indexterm.content.module "INCLUDE">
<![%indexterm.content.module;]
<!ENTITY % indexterm.module "INCLUDE">
<![%indexterm.module;]
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;">

<!ENTITY % indexterm.element "INCLUDE">
<![%indexterm.element;]
<!!--doc:A wrapper for terms to be indexed.-->
<!ELEMENT indexterm %ho; (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)?) | see | seealso+)?)
%ubiq.exclusion;>
<!--end of indexterm.element-->]]>

<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![%indexterm.attlist;]
<!ATTLIST indexterm
%pagenum.attrib:
scope(all
|global
|local)#IMPLIED
significance(preferred
|normal)"normal"
class(singular
|startofrange
|endofrange)#IMPLIED
startrefDREF)#IMPLIED
changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!--

<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.4//EN"
"htmltblx.mod">
%htmltbl;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

--> 

<!--======================= XHTML Tables =======================================-->

<!ENTITY % html.coreattrs "id ID #IMPLIED
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED">
>

<!-- Does not contain lang or dir because they are in %common.attribs -->
<!ENTITY % i18n "xml:lang NMTOKEN #IMPLIED">
>

<!ENTITY % events "onclick CDATA #IMPLIED
ondblclick CDATA #IMPLIED"
<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->

<!ENTITY % secur "
%common.attrib;
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED
%i18n;
%events;
%tables.role.attrib;">

<!ENTITY % common.table.attribs "%bodyatt;
%secur;">

<!ENTITY % tbl.table.mdl
"((blockinfo?,
   (%formalobject.title.content;),
   (%ndxterm.class;)*,
textobject*,
   (graphic+|mediaobject+[tgroup+])
   |(caption, (col*[colgroup*), thead?, tfoot?, (tbody+|tr+)))">

<!ENTITY % informal.tbl.table.mdl
"(textobject*,
   (graphic+|mediaobject+[tgroup+])
   |((col*[colgroup*), thead?, tfoot?, (tbody+|tr+)))">

<!ENTITY % tbl.table.att
\'
tabstyle CDATA #IMPLIED
tocentry %yesorno.attvals; #IMPLIED
shortentry %yesorno.attvals; #IMPLIED
orient (port|land) #IMPLIED
pgwide %yesorno.attvals; #IMPLIED
summary CDATA #IMPLIED
width CDATA #IMPLIED
border CDATA #IMPLIED
rules CDATA#IMPLIED
cellspacing CDATA #IMPLIED
cellpadding CDATA #IMPLIED
align (left|center|right) #IMPLIED
bgcolor CDATA #IMPLIED

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;">

<!ENTITY % tbl.hdft.mdl        "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl       "(tr+|row+)">
<!ENTITY % tbl.valign.attval   "top|middle|bottom|baseline">

<!ENTITY % tbl.entry.mdl       "%para.char.mix; | %tabentry.mix;">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl       "%para.char.mix; | %tabentry.mix;">

<!-- thead, tfoot, and tbody are defined in both table models, so we set up parameter entities to define union models for them -->

<!ENTITY % tbl.hdft.mdl        "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl       "(tr+|row+)">
<!ENTITY % tbl.valign.attval   "top|middle|bottom|baseline">

<!-- End of DocBook XML HTML Table Module V4.4 ............................ -->
<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl       "%para.char.mix; | %tabentry.mix;">

<!-- thead, tfoot, and tbody are defined in both table models, so we set up parameter entities to define union models for them -->

<!ENTITY % tbl.hdft.mdl        "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl       "(tr+|row+)">
<!ENTITY % tbl.valign.attval   "top|middle|bottom|baseline">

<!-- End of DocBook XML HTML Table Module V4.4 ............................ -->

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.4.zip-cosi-expand-archive-3gSi1JTU/htmltblx.mod
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.4.zip-cosi-expand-archive-RFakgFDg/htmltblx.mod

No license file was found, but licenses were detected in source scan.


$Id: docbook.dtd 3.1 1999/02/02 11:54:12 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.
Please direct all questions, bug reports, or suggestions for changes to the davenport@berkshire.net mailing list. For more information, see http://www.oasis-open.org/docbook/.

No license file was found, but licenses were detected in source scan.

<!!-- DocBook information pool module V3.1 -->
<!!-- File dbpool.mod -->


$Id: dbpool.mod 3.1 1999/02/02 00:58:27 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the davenport@berkshire.net mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:
o It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

o It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook Information Pool V3.1//EN">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```
<!ENTITY % yesorno.attvals"NUMBER">
<![[IGNORE[
<!ENTITY % yes.attval"1"><!-- never actually used -->
]]>

<!ENTITY % no.attval"0">
```

```
<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for module inclusions ......................... -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class "CalloutList|GlossList|ItemizedList|OrderedList|SegmentedList|SimpleList|VariableList %local.list.class;">
<!ENTITY % local.inlineobj.char.class "">  
<!ENTITY % inlineobj.char.class "InlineGraphic|InlineMediaObject|InlineEquation %local.inlineobj.char.class;">  

<!-- Redeclaration placeholder ............................................. -->

<![ %dbpool.redecl.module; [  
%rdbpool;  
<!--end of dbpool.redecl.module-->]]>  

<!-- Object-level mixtures ............................................... -->

<!-- Object-level mixtures ............................................. -->

list admn line synp para infm form cmpd gen desc  
Component mixture   X   X   X   X   X   X   X   X   X   X  
Sidebar mixture      X   X   X   X   X   X   a   X  
Footnote mixture     X   X   X   X   X  
Example mixture      X   X   X   X   X  
Highlights mixture   X   X   X   X  
Paragraph mixture    X   X   X   X  
Admonition mixture   X   X   X   X   X   b   c  
Figure mixture       X   X   X  
Table entry mixture  X   X   X   X   d  
Glossary def mixture X   X   X   X   X   e  
Legal notice mixture X   X   X   X   f  

a. Just Procedure; not Sidebar itself or MsgSet.  
b. No MsgSet.  
c. No Highlights.  
d. Just Graphic; no other informal objects.  
e. No Anchor, BridgeHead, or Highlights.  
f. Just BlockQuote; no other informal objects.  

<!ENTITY % local.component.mix "">  
<!ENTITY % component.mix "%list.class;%admon.class;  
%linespecific.class;%synop.class;  
%para.class;%informal.class;  
%formal.class;%compound.class;  
%genobj.class;%descobj.class;  
%ndxterm.class;  
%local.component.mix;">
"%list.class; |%admon.class;
%linespecific.class;
%informal.class;
%formal.class;
%local.para.mix;">

<!ENTITY % local.admon.mix "">
<!ENTITY % admon.mix
"%list.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;Procedure|Sidebar
Anchor|BridgeHead|Comment
%ndxterm.class;
%local.admon.class;">

<!ENTITY % local.figure.mix "">
<!ENTITY % figure.mix
"%linespecific.class;%synop.class;
%informal.class;
%ndxterm.class;
%local.figure.mix;">

<!ENTITY % local.tabentry.mix "">
<!ENTITY % tabentry.mix
"%list.class;%admon.class;
%linespecific.class;
%para.class;Graphic|MediaObject
%local.tabentry.mix;">

<!ENTITY % local.glossdef.mix "">
<!ENTITY % glossdef.mix
"%list.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;
Comment
%ndxterm.class;
%local.glossdef.mix;">

<!ENTITY % local.legalnotice.mix "">
<!ENTITY % legalnotice.mix
"%list.class;%admon.class;
%linespecific.class;
%para.class;BlockQuote
%ndxterm.class;
%local.legalnotice.mix;">
=OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED”>

<![CDATA% revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED”>

<![CDATA% userlevel.attrib
--UserLevel: Level of user experience to which element applies; no default--
"UserLevelCDATA#IMPLIED”>

<![CDATA% vendor.attrib
--Vendor: Computer vendor to which element applies; no default--
"VendorCDATA#IMPLIED”>

<![CDATA% local.effectivity.attrib ””>
<![CDATA% effectivity.attrib
”%arch.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;”
>

<!-- Common attributes .................................................... -->

<![CDATA% id.attrib
--Id: Unique identifier of element; no default--
"Id>ID#IMPLIED”>

<![CDATA% idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no default--
"Id>ID#REQUIRED”>

<![CDATA% lang.attrib
--Lang: Indicator of language in which element is written, for
translation, character set management, etc.; no default--
"LangCDATA#IMPLIED”>

<![CDATA% remap.attrib
--Remap: Previous role of element before conversion; no default--
"RemapCDATA#IMPLIED”>

<![CDATA% role.attrib
--Role: New role of element in local environment; no default--
"RoleCDATA#IMPLIED”>

<!ENTITY % xreflabel.attrib
--XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element--
"XRefLabelCDATA#IMPLIED”>

<!ENTITY % revisionflag.attrib
--RevisionFlag: Revision status of element; default is that element wasn't revised--
"RevisionFlag(Changed
|Added
|Deleted
|Off)#IMPLIED”>

<!ENTITY % local.common.attrib “”>
<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;”
>

<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;”
>

<!-- Semi-common attributes and other attribute entities ................. -->

<!ENTITY % local.graphics.attrib “”>
<!ENTITY % graphics.attrib
“”
--EntityRef: Name of an external entity containing the content of the graphic--
EntityRefENTITY#IMPLIED
--FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic--
FileRef CDATA#IMPLIED

--Format: Notation of the element content, if any--
FormatNOTATION
(%notation.class;)
#IMPLIED

--SrcCredit: Information about the source of the Graphic--
SrcCreditCDATA#IMPLIED

--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED
%local.graphics.attrib;"
>

<!ENTITY % local.keyaction.attrib "">
<!ENTITY % keyaction.attrib " "

--Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value--
Action(Click
|Double-Click
|Press
|Seq
|Simul
|Other)#IMPLIED

--OtherAction: User-defined key combination type--

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1729
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html><head>
<title>Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1731</title>
</head>
<body>

<!ENTITY % local.status.attrib "">
<!ENTITY % status.attrib
  --Status: Editorial or publication status of the element
  it applies to, such as "in review" or "approved for distribution"--
  "StatusCDATA#IMPLIED
  %local.status.attrib;">

<!ENTITY % width.attrib
  --Width: width of the longest line in the element to which it
  pertains, in number of characters--
  "WidthNUMBER#IMPLIED">

<!-- ...................................................................... -->
<!-- Title elements ....................................................... -->
<!ENTITY % title.module "INCLUDE">
<![ %title.module; [ 
<!ENTITY % local.title.attrib "">
<!ENTITY % title.role.attrib "%role.attrib;"> 
<!ENTITY % title.element "INCLUDE">
<![ %title.element; [ 
<!ELEMENT Title - O ((%title.char.mix;)+)> 
<!--end of title.element-->]]>

<!ENTITY % title.attlist "INCLUDE">
<![ %title.attlist; [ 
<!ATTLIST Title 
  %pagenum.attrib; 
  %common.attrib; 
  %title.role.attrib; 
  %local.title.attrib; 
  > 
  <!--end of title.attlist-->]]>
<![--end of title.module-->]]>

<!ENTITY % titleabbrev.module "INCLUDE">
<![ %titleabbrev.module; [ 
<!ENTITY % local.titleabbrev.attrib "">
<!ENTITY % titleabbrev.role.attrib "%role.attrib;"> 
<!ENTITY % titleabbrev.element "INCLUDE">
<![ %titleabbrev.element; [ 
<!ELEMENT TitleAbbrev - O ((%title.char.mix;)+)> 
<!--end of titleabbrev.element-->]]>
</body></html>
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

"Honorific|FirstName|Surname|Lineage|OtherName|Affiliation"
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1734
<!ENTITY % substeps.attlist "INCLUDE">
<![ %substeps.attlist; [
<!ATTLIST SubSteps
--
Performance: whether entire set of substeps must be performed
--
Performance(Optional
[Required)Required -- not #REQUIRED! --
%common.attrib;
%substeps.role.attrib;
%local.substeps.attrib;
> 
<!--end of substeps.attlist-->]]>
<!--end of substeps.module-->]]>
<!--end of procedure.content.module-->]]>

<!-- Sidebar ......................... -->

<!ENTITY % sidebar.module "INCLUDE">
<![ %sidebar.module; [
<!ENTITY % local.sidebar.attrib "">
<!ENTITY % sidebar.role.attrib "%role.attrib;"> 

<!ENTITY % sidebar.element "INCLUDE">
<![ %sidebar.element; [
<!ELEMENT Sidebar - - (%formalobject.title.content;)?, (%sidebar.mix;)+)>
<!--end of sidebar.element-->]]>

<!ENTITY % sidebar.attlist "INCLUDE">
<![ %sidebar.attlist; [ 
<!ATTLIST Sidebar
%common.attrib;
%sidebar.role.attrib;
%local.sidebar.attrib;
> 
<!--end of sidebar.attlist-->]]>
<!--end of sidebar.module-->]]>

<!-- Paragraph-related elements ........................................... -->

<!ENTITY % abstract.module "INCLUDE">
<![ %abstract.module; [
<!ENTITY % local.abstract.attrib "">
<!ENTITY % abstract.role.attrib "%role.attrib;"> 

<!ENTITY % abstract.element "INCLUDE">
<![ %abstract.element; [ 

--- Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1749 ---
<!ENTITY % blockquote.attlist "INCLU"E">
<![ %blockquote.attlist; [
<!ATTLIST BlockQuote
%common.attrib;
%blockquote.role.attrib;
%local.blockquote.attrib;
>
<!--end of blockquote.attlist-->]]>
<!--end of blockquote.module-->]]>

<!ENTITY % attribution.module "INCLUD"E">
<![ %attribution.module; [
<!ENTITY % local.attribution.attrib "">
<!ENTITY % attribution.role.attrib "%role.attrib;">

<!ENTITY % attribution.element "INCLUD"E">
<![ %attribution.element; [
<!ELEMENT Attribution - O (%para.char.mix;)+>]
<!--end of attribution.element-->]]>
<!ENTITY % attribution.attlist "INCLUD"E">
<![ %attribution.attlist; [
<!ATTLIST Attribution
%common.attrib;
%attribution.role.attrib;
%local.attribution.attrib;
>
<!--end of attribution.attlist-->]]>
<!--end of attribution.module-->]]>

<!ENTITY % bridgehead.module "INCLUD"E">
<![ %bridgehead.module; [
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;">

<!ENTITY % bridgehead.element "INCLUD"E">
<![ %bridgehead.element; [
<!ELEMENT BridgeHead - - (%title.char.mix;)+>]
<!--end of bridgehead.element-->]]>
<!ENTITY % bridgehead.attlist "INCLUD"E">
<![ %bridgehead.attlist; [
<!ATTLIST BridgeHead
-- Renderas: Indicates the format in which the BridgeHead should appear
--
<!ELEMENT GlossList - - (GlossEntry+)>
<!--end of glosslist.element-->]]>

<!ENTITY % glosslist.attlist "INCLUDE">
<![ %glosslist.attlist; ]>
<!ATTLIST GlossList
%common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
>
<![!--end of glosslist.attlist-->]]>
<![!--end of glosslist.module-->]]>

<!ENTITY % glossentry.content.module "INCLUDE">
<![ %glossentry.content.module; ]>
<!ENTITY % glossentry.module "INCLUDE">
<![ %glossentry.module; ]>
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;"> 

<!ENTITY % glossentry.element "INCLUDE">
<![ %glossentry.element; ]>
<!ELEMENT GlossEntry - O (GlossTerm, Acronym?, Abbrev?, (%ndxterm.class;)*, 
RevHistory?, (GlossSee|GlossDef+))>
<![!--end of glossentry.element-->]]>

<!ENTITY % glossentry.attlist "INCLUDE">
<![ %glossentry.attlist; ]>
<!ATTLIST GlossEntry
-- 
SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content
-- 
SortAsCDATA#IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<![!--end of glossentry.attlist-->]]>
<![!--end of glossentry.module-->]]>

<![!--FUTURE USE (V4.0): 
------------------------
GlossTerm will be excluded from itself. Also, GlossTerm *may* be split
into an element that appears in a Glossary and an element that can
appear in the main text. 
------------------------]>

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1756
The Subject attribute will be renamed Keyword.
The provided text contains markup code. It appears to be an excerpt from a document related to XML entities and attributes, possibly for glossary entries and lists.

The code snippet includes definitions for entities such as `GlossSeeAlso`, `ItemizedList`, and their associated attributes like `OtherTerm`, `IDREF`, and `#CONREF`. These entities seem to be part of a larger document structure, possibly for generating glossaries or lists.

The markup is designed to define how glossary terms can be seen in context, and how items in a list can be formatted. The specific purpose of these entities and attributes is not detailed within the snippet provided.

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1758
Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)

Continuation(Continues)
|Restarts|Restarts

Spacing: Whether the vertical space in the list should be compressed

Spacing(Normal|Compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
<!--end of orderedlist.attlist-->]]>
<!--end of orderedlist.module-->]]>

<!ENTITY % listitem.module "INCLUDE">
<![ %listitem.module; [ 
<!ENTITY % local.listitem.attrib "">
<!ENTITY % listitem.role.attrib "%role.attrib;">

<!ENTITY % listitem.element "INCLUDE">
<![ %listitem.element; [ 
<!ELEMENT ListItem - O (%component.mix;)+>
<!--end of listitem.element-->]]>

<!ENTITY % listitem.attlist "INCLUDE">
<![ %listitem.attlist; [ 
<!ATTLIST ListItem
 Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList

OverrideCDATA#IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
>
<!--end of listitem.attlist-->]]>
<!--end of listitem.module-->]]>

<!-- SegmentedList .................... -->
<!ENTITY % segmentedlist.content.module "INCLUDE">
Two SegTitles will be required.

-->
Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn)
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![ %area.module; ]>
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![ %area.element; ]>
<!ELEMENT Area - O EMPTY>
<!--end of area.element-->]]>

<!ENTITY % area.attlist "INCLUDE">
<![ %area.attlist; ]>
<!ATTLIST Area
%label.attrib; --bug number/symbol override or initialization--
%linkends.attrib; --to any related information--
--
Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!DOCTYPE AreaSet - - (Area+)>
<!ATTLIST AreaSet
  %label.attrib; --bug number/symbol override or initialization--
  Units	(CALSPair|LineColumn|LineRange|LineColumnPair|Other)	#IMPLIED
  OtherUnits	NAME	#IMPLIED
  Coords	CDATA	#REQUIRED
  %idreq.common.attrib;
  %areaset.role.attrib;
  %local.areaset.attrib;
  >
</AreaSet>

<!DOCTYPE ProgramListing - - ((%programlisting.content;)+)>
<!ATTLIST ProgramListing
  %idreq.common.attrib;
  %areaset.role.attrib;
  %local.areaset.attrib;
  >
</ProgramListing>
%common.attrib;
%screenshot.role.attrib;
%local.screenshot.attrib;
>
<!--end of screenshot.attlist-->]]>
<!--end of screenshot.module-->]]>

<!ENTITY % screeninfo.module "INCLUDE">
<![ %screeninfo.module; [
<!ENTITY % local.screeninfo.attrib "">
<!ENTITY % screeninfo.role.attrib "%role.attrib;">  

<!ENTITY % screeninfo.element "INCLUDE">
<![ %screeninfo.element; [
<!ELEMENT ScreenInfo - O (((%para.char.mix;)+) %ubiq.exclusion;;>
<!--end of screeninfo.element-->]]>

<!ENTITY % screeninfo.attlist "INCLUDE">
<![ %screeninfo.attlist; [
<!ATTLIST ScreenInfo
%common.attrib;
%screeninfo.role.attrib;
%local.screeninfo.attrib;
>
<!--end of screeninfo.attlist-->]]>
<!--end of screeninfo.module-->]]>
<!--end of screenshot.content.module-->]]>

<!-- Figures etc. ....................... -->

<!ENTITY % figure.module "INCLUDE">
<![ %figure.module; [
<!ENTITY % local.figure.attrib "">
<!ENTITY % figure.role.attrib "%role.attrib;">  

<!ENTITY % figure.element "INCLUDE">
<![ %figure.element; [
<!ELEMENT Figure - - (((%formalobject.title.content;), (%figure.mix; | %link.char.class;)+)>
<!--end of figure.element-->]]>

<!ENTITY % figure.attlist "INCLUDE">
<![ %figure.attlist; [
<!ATTLIST Figure
--
Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default)
--
Float%yesorno.attvals;%no.attval;
PgWide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%figure.role.attrib;
%local.figure.attrib;
>
<![-end of figure.attlist--->]]>
<![-end of figure.module--->]]>

<!ENTITY % informalfigure.module "INCLUDE">
<![ %informalfigure.module; [ 
<!ENTITY % local.informalfigure.attrib "">
<!ENTITY % informalfigure.role.attrib "%role.attrib;">

<!ENTITY % informalfigure.element "INCLUDE">
<![ %informalfigure.element; [ 
<!ELEMENT InformalFigure - - (%figure.mix; | %link.char.class;)+">
<![-end of informalfigure.element-->]]>

<!ENTITY % informalfigure.attlist "INCLUDE">
<![ %informalfigure.attlist; [ 
<!ATTLIST InformalFigure
Float: Whether the Figure is supposed to be rendered
where convenient (yes (1) value) or at the place it occurs
in the text (no (0) value, the default)

Float%yesorno.attvals;%no.attval;
PgWide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%informalfigure.role.attrib;
%local.informalfigureattrib;
>
<![-end of informalfigure.attlist--->]]>
<![-end of informalfigure.module--->]]>

<!ENTITY % graphicco.module "INCLUDE">
<![ %graphicco.module; [ 
<!ENTITY % local.graphicco.attrib "">
<!ENTITY % graphicco.role.attrib "%role.attrib;">

<!ENTITY % graphicco.element "INCLUDE">
<![ %graphicco.element; [ 
<!ELEMENT GraphicCO - - (AreaSpec, Graphic, CalloutList*)>
<![-end of graphicco.element-->]]>
Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref). -->

Graphic will be declared EMPTY. This change will require that end-tags be removed and that any embedded graphic content be stored outside the SGML source and pointed to from an Entitref or Fileref attribute.

-->
InlineGraphic will be declared EMPTY. This change will require that end-tags be removed and that any embedded graphic content be stored outside the SGML source and pointed to from an Entityref or Fileref attribute.

```
-->
<!ENTITY % local.inlinegraphic.attrib ""
<!ENTITY % inlinegraphic.role.attrib "%role.attrib;">

<!ENTITY % inlinegraphic.element "INCLUDE">
<!ENTITY % inlinegraphic.element; [
<!ELEMENT InlineGraphic - - CDATA>
<!!--end of inlinegraphic.element-->
]]>

<!ENTITY % inlinegraphic.attlist "INCLUDE">
<!ENTITY % inlinegraphic.attlist; [
<!ATTLIST InlineGraphic
%graphics.attrib;
%common.attrib;
%inlinegraphic.role.attrib;
%local.inlinegraphic.attrib;
>]
<!!--end of inlinegraphic.attlist-->
<!!--end of inlinegraphic.module-->
]]>

<!ENTITY % mediaobject.content.module "INCLUDE">
<!ENTITY % mediaobject.content.module; [

<!ENTITY % mediaobject.module "INCLUDE">
<!ENTITY % mediaobject.module; [
<!ENTITY % local.mediaobject.attrib ""
<!ENTITY % mediaobject.role.attrib "%role.attrib;">

<!ENTITY % mediaobject.element "INCLUDE">
<!ENTITY % mediaobject.element; [
<!ELEMENT MediaObject - - (ObjectInfo?,
                    (%mediaobject.mix;),
                    (%mediaobject.mix;[TextObject]*,
                        Caption?)">
<!!--end of mediaobject.element-->
]]>

<!ENTITY % mediaobject.attlist "INCLUDE">
<!ENTITY % mediaobject.attlist; [
<!ATTLIST MediaObject
%common.attrib;
%mediaobject.role.attrib;
%local.mediaobject.attrib;
```
<!ENTITY % local.audiodata.attrib "">
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; ]>
<!ELEMENT AudioData - O EMPTY>
<![--end of mediaobject.element-->]]>

<!ENTITY % audiodata.attlist "INCLUDE">
<![ %audiodata.attlist; ]>
<!ATTLIST AudioData
%common.attrib;
%objectdata.attrib;
%local.audiodata.attrib;
%audiodata.role.attrib;
>
<![--end of audiodata.attlist-->]]>
<![--end of audiodata.module-->]]>

<!ENTITY % imagedata.module "INCLUDE">
<![ %imagedata.module; ]>
<!ENTITY % local.imagedata.attrib "">
<!ENTITY % imagedata.element "INCLUDE">
<![ %imagedata.element; ]>
<!ELEMENT ImageData - O EMPTY>
<![--end of mediaobject.element-->]]>

<!ENTITY % imagedata.attlist "INCLUDE">
<![ %imagedata.attlist; ]>
<!ATTLIST ImageData
%common.attrib;
%objectdata.attrib;

--Width: Same as CALS reprowid (desired width)—
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)—
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific—
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale—

<![ %alt.element; [ 
<!ELEMENT Alt - - (#PCDATA)> 
<!--end of alt.element-->]]> 

<!ENTITY % alt.attlist "INCLUDE"> 
<![ %alt.attlist; [ 
<![ ATTLIST Alt 
%common.attrib; 
%alt.role.attrib; 
%local.alt.attrib; > 
<!--end of alt.attlist-->]]> 
<!--end of alt.module-->]]> 

<!-- Tables ......................... --> 

<!ENTITY % table.module "INCLUDE"> 
<![ %table.module; [ 
<!ENTITY % tables.role.attrib "%role.attrib;"> 

<!-- Add Label attribute to Table element (and InformalTable element). --> 
<!ENTITY % bodyatt "%label.attrib;"> 

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). --> 
<!ENTITY % secur "%common.attrib; 
%tables.role.attrib;"> 

<!-- Remove Chart. --> 
<!ENTITY % tbl.table.name "Table"> 

<!-- Content model for Table. --> 
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), 
(%ndxterm.class;)*, 
(Graphic+|MediaObject+|TGroup+))"> 

<!-- Exclude all DocBook tables and formal objects. --> 
<!ENTITY % tbl.table.excep "-(InformalTable|%formal.class;)"> 

<!-- Remove pgbrk exception on Row. --> 
<!ENTITY % tbl.row.excep """> 

<!-- Allow either objects or inlines; beware of REs between elements. --> 
<!ENTITY % tbl.entry.mdl "((%tabentry.mix;)+ | (%para.char.mix;)+)>
<!-- Remove pgbrk exception on Entry. -->
<!ENTITY % tbl.entry.excep "">

<!-- Remove pgbrk exception on EntryTbl, but leave exclusion of itself. -->
<!ENTITY % tbl.entrytbl.excep "-(EntryTbl)" >

<!-- Reference CALS table module. -->
<!ENTITY % calstbls PUBLIC "-/USA-DOD//DTD Table Model 951010//EN">
%calstbls;
</!--end of table.module-->

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!--end of informaltable.element-->

<!--end of informaltable.attlist-->

<!--end of informaltable.module-->

<!ELEMENT InformalTable (Graphic+,MediaObject+,TGroup+) %tbl.table.excep;>

<!ATTLIST InformalTable
Frame	(Top|Bottom|Topbot|All|Sides|None)#IMPLIED
Colsep%yesorno.attvals;#IMPLIED
Rowsep%yesorno.attvals;#IMPLIED
%tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry,
Orient,PgWide--
%bodyatt; -- includes Label--
%secur; -- includes common attributes--
%local.informaltable.attrib;>
</!--end of informaltable.attlist-->

<!ELEMENT informaltable.attlist "INCLUDE">
Sepchar: Character that should separate command and all top-level arguments; alternate value might be e.g., &Delta;

SepcharCDATA" "

CmdLength: Length beyond which the presentation engine may consider a Command too long and select an alternate presentation of the Command and, or, its associated arguments.

CmdLengthCDATA#IMPLIED
%common.attrib;
%cmdsynopsis.role.attrib;
%local.cmdsynopsis.attrib;
>
<![endif]-->
<![-end of cmdsynopsis.attlist--]>
<![-end of cmdsynopsis.module--]>

<!ENTITY % arg.module "INCLUDE">
<![ %arg.module; [ 
<!ENTITY % local.arg.attrib "">
<!ENTITY % arg.role.attrib "%role.attrib;"> 

<!ENTITY % arg.element "INCLUDE">
<![ %arg.element; [ 
<!ELEMENT Arg - - ((#PCDATA | Arg | Group | Option | SynopFragmentRef | Replaceable | SBR)+)> 
<![endif]-->
<![-end of arg.element--]>

<!ENTITY % arg.attlist "INCLUDE">
<![ %arg.attlist; [ 
<!ATTLIST Arg

Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg)

Choice(Req
|Plain)Opt

Rep: whether Arg is repeatable: Norepeat (e.g. arg without
ellipses; the default), or Repeat (e.g. arg...)

--
Rep(Norepeat
[Repeat]Norepeat
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<![--end of arg.attlist-->]]>
<![--end of arg.module-->]]>

<!ENTITY % group.module "INCLUDE">
<![ %group.module; [
<![!--FUTURE USE (V4.0):
......................
The OptMult and ReqMult values for the Choice attribute on Group will be
removed. Use the Rep attribute instead to indicate that the choice is
repeatable.
......................
-->]

<![ENTITY % local.group.attrib ""
<![ENTITY % group.role.attrib "%role.attrib;">

<![ENTITY % group.element "INCLUDE">
<![ %group.element; [
<![ELEMENT Group - - ((Arg | Group | Option | SynopFragmentRef
 | Replaceable | SBR)+)>]
<![!--end of group.element-->]]>

<![ENTITY % group.attlist "INCLUDE">
<![ %group.attlist; [
<![ATTLIST Group
--
Choice: Whether Group must be supplied: Opt (optional to
supply, e.g. [g1|g2|g3]; the default), Req (required to
supply, e.g. {g1|g2|g3}), Plain (required to supply,
e.g. g1|g2|g3), OptMult (can supply zero or more, e.g.
[[g1|g2|g3]], or ReqMult (must supply one or more, e.g.
{"g1|g2|g3"})
--
Choice(Opt
|Req
|Plain
|Optmult
|Reqmult)Opt
--
Rep: whether Group is repeatable: Norepeat (e.g. group
without ellipsis; the default), or Repeat (e.g. group...)

--
Rep(Norepeat
|Repeat)Norepeat
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->]]>
<!--end of group.module-->]]>

<!ENTITY % sbr.module "INCLUDE">
<![ %sbr.module; [ 
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!ENTITY % sbr.element "INCLUDE">
<![ %sbr.element; [ 
<!ELEMENT SBR - O EMPTY>
<!--end of sbr.element-->]]>

<!ENTITY % sbr.attlist "INCLUDE">
<![ %sbr.attlist; [ 
<!ATTLIST SBR
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->]]>
<!--end of sbr.module-->]]>

<!ENTITY % synopfragmentref.module "INCLUDE">
<![ %synopfragmentref.module; [ 
<!ENTITY % local.synopfragmentref.attrib "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!ENTITY % synopfragmentref.element "INCLUDE">
<![ %synopfragmentref.element; [ 
<!ELEMENT SynopFragmentRef - - RCDATA >
<!--end of synopfragmentref.element-->]]>

<!ENTITY % synopfragmentref.attlist "INCLUDE">
<![ %synopfragmentref.attlist; [ 
<!ATTLIST SynopFragmentRef
%linkendreq.attrib; --to SynopFragment of complex synopsis
material for separate referencing--
%common.attrib;
<!ENTITY % funcsynopsis.attrib "INCLUDE">
<!ENTITY % funcsynopsis.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsis.element "INCLUDE">
<!ELEMENT FuncSynopsis (FuncSynopsisInfo?, (FuncPrototype+ | (FuncDef, (Void | VarArgs | ParamDef+))+), FuncSynopsisInfo?)>
<!ENTITY % funcsynopsis.attlist "INCLUDE">
<!ATTLIST FuncSynopsis
%label.attrib;
%common.attrib;
%funcsynopsis.role.attrib;
%funcsynopsis.attrib;
>
<!ENTITY % funcsynopsisinfo.module "INCLUDE">
<!ENTITY % funcsynopsisinfo.module; [
<!ENTITY % local.funcsynopsisinfo.attrib "">
<!ENTITY % funcsynopsisinfo.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsisinfo.element "INCLUDE">
<!ELEMENT FuncSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)*)>
<!ENTITY % funcsynopsisinfo.attlist "INCLUDE">
<!ATTLIST FuncSynopsisInfo
%linespecific.attrib;
%common.attrib;
%funcsynopsisinfo.role.attrib;
%funcsynopsisinfo.attrib;
>

<!ENTITY % funcprototype.module "INCLUDE">
<!ENTITY % funcprototype.module; [
<!ENTITY % local.funcprototype.attrib "">
<!ENTITY % funcprototype.role.attrib "%role.attrib;">

<!ENTITY % funcprototype.element "INCLUDE">
<!ELEMENT FuncPrototype (FuncPrototypeInfo?, (FuncDecl+ | (FuncDef, (Void | VarArgs | ParamDef+))+), FuncPrototypeInfo?)>
Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. -->
<!ENTITY % country.module "INCLUDE">
<!ENTITY % country.module [ 
<!ENTITY % local.country.attrib "">
<!ENTITY % country.role.attrib "%role.attrib;">

<!ENTITY % country.element "INCLUDE">
<!ENTITY % country.element [ 
<!ELEMENT Country - - ((%docinfo.char.mix;)+)>
<!--end of country.element-->
]]>

<!ENTITY % country.attlist "INCLUDE">
<!ENTITY % country.attlist [ 
<!ATTLIST Country 
%common.attrib; 
%country.role.attrib; 
%local.country.attrib; 
> 
<!--end of country.attlist-->
]]>

<!ENTITY % phone.module "INCLUDE">
<!ENTITY % phone.module [ 
<!ENTITY % local.phone.attrib "">
<!ENTITY % phone.role.attrib "%role.attrib;">

<!ENTITY % phone.element "INCLUDE">
<!ENTITY % phone.element [ 
<!ELEMENT Phone - - ((%docinfo.char.mix;)+)>
<!--end of phone.element-->
]]>

<!ENTITY % phone.attlist "INCLUDE">
<!ENTITY % phone.attlist [ 
<!ATTLIST Phone 
%common.attrib; 
%phone.role.attrib; 
%local.phone.attrib; 
> 
<!--end of phone.attlist-->
]]>

<!ENTITY % fax.module "INCLUDE">
<!ENTITY % fax.module [ 
<!ENTITY % local.fax.attrib "">
<!ENTITY % fax.role.attrib "%role.attrib;">

<!ENTITY % fax.attlist "INCLUDE">
<!ENTITY % fax.attlist [ 
<!ATTLIST Fax 
%common.attrib; 
%fax.role.attrib; 
%local.fax.attrib; 
> 
<!--end of fax.attlist-->
]]>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html>
<head>
</head>
<body>

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1801

</body></html>
<!ENTITY % corpname.attlist "INCLUDE">
<![ %corpname.attlist; [ 
<!ATTLIST CorpName 
%common.attrib;
%corpname.role.attrib;
%local.corpname.attrib;
> 
<!--end of corpname.attlist--> ]]> 
<!--end of corpname.module--> ]]> 

<!-- Date ......................... -->

<!ENTITY % date.module "INCLUDE">
<![ %date.module; [ 
<!ENTITY % local.date.attrib "">
<!ENTITY % date.role.attrib "%role.attrib;">

<!ENTITY % date.element "INCLUDE">
<![ %date.element; [ 
<!ELEMENT Date - - ((%docinfo.char.mix;)+)> 
<!--end of date.element--> ]]> 

<!ENTITY % date.attlist "INCLUDE">
<![ %date.attlist; [ 
<!ATTLIST Date 
%common.attrib;
%date.role.attrib;
%local.date.attrib;
> 
<!--end of date.attlist--> ]]> 
<!--end of date.module--> ]]> 

<!-- Edition ....................... -->

<!ENTITY % edition.module "INCLUDE">
<![ %edition.module; [ 
<!ENTITY % local.edition.attrib "">
<!ENTITY % edition.role.attrib "%role.attrib;">

<!ENTITY % edition.element "INCLUDE">
<![ %edition.element; [ 
<!ELEMENT Edition - - ((%docinfo.char.mix;)+)> 
<!--end of edition.element--> ]]> 

<!ENTITY % edition.attlist "INCLUDE">
<![ %edition.attlist; [ 
<!ATTLIST Edition
Author Blurb and Affiliation will be removed from %person.ident.mix; and a new wrapper element created to allow association of those two elements with Editor name information.

-->

<!ENTITY % local.editor.attrib "">
<!ENTITY % editor.role.attrib "%role.attrib;">
<!-- Personal identity elements ...... -->

<!-- These elements are used only within Author, Editor, and OtherCredit. -->

<!--FUTURE USE (V4.0):
-----------------
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new wrapper element created to allow association of those two elements with Contrib name information.
-----------------
-->

<!--end of contrib.attlist-->

<!ENTITY % firstname.attlist "INCLUDE">
<![ %firstname.attlist; ]>
<!ATTLIST Contrib
%common.attrib;
%contrib.role.attrib;
%local.contrib.attrib;
>
<!--end of contrib.module-->

<!ENTITY % firstname.role.attrib "%role.attrib;">
<!ENTITY % printhistory.module "INCLUDE">
<![ %printhistory.module; [ 
<!ENTITY % local.printhistory.attrib "">
<!ENTITY % printhistory.role.attrib "%role.attrib;"> 

<!ENTITY % printhistory.element "INCLUDE">
<![ %printhistory.element; [ 
<!ELEMENT PrintHistory - - ((%para.class;)+)> 
<!--end of printhistory.element-->]]>

<!ENTITY % printhistory.attlist "INCLUDE">
<![ %printhistory.attlist; [ 
<!ATTLIST PrintHistory 
%common.attrib; 
%printhistory.role.attrib; 
%local.printhistory.attrib; 
> 
<!--end of printhistory.attlist-->]]>

<!-- ProductName ...................... -->

<!ENTITY % productname.module "INCLUDE">
<![ %productname.module; [ 
<!ENTITY % local.productname.attrib "">
<!ENTITY % productname.role.attrib "%role.attrib;"> 

<!ENTITY % productname.element "INCLUDE">
<![ %productname.element; [ 
<!ELEMENT ProductName - - ((%para.char.mix;)+)> 
<!--end of productname.element-->]]>

<!ENTITY % productname.attlist "INCLUDE">
<![ %productname.attlist; [ 
<!ATTLIST ProductName 
-- Class: More precisely identifies the item the element names 
-- Class(Service 
|Trade 
|Registered 
|Copyright)Trade 
%common.attrib; 
%productname.role.attrib; 
%local.productname.attrib;
<!ENTITY % local.hardware.attrib "">
<!ENTITY % hardware.role.attrib "%role.attrib;">

<!ENTITY % hardware.element "INCLUDE">
<![ %hardware.element; [ 
<!ELEMENT Hardware - - ((%cptr.char.mix;)+)>
<!!--end of hardware.element-->]]>

<!ENTITY % hardware.attlist "INCLUDE">
<![ %hardware.attlist; [ 
<!ATTLIST Hardware 
%moreinfo.attrib; 
%common.attrib; 
%hardware.role.attrib; 
%local.hardware.attrib; 
> 
<!!--end of hardware.attlist-->]]>
<!!--end of hardware.module-->]]>

<!ENTITY % interface.module "INCLUDE">
<![ %interface.module; [ 
<!!--FUTURE USE (V4.0): 
...................... Interface will no longer have a Class attribute; if you want to subclass interface information, use GUIButton, GUIIcon, GUILabel, GIMenu, GIMenuItem, or GISubmenu, or use a Role value on Interface. Also, Interface will have its content constrained to smallcptr.char.mix. 
...................... --> 
<!ENTITY % local.interface.attrib "">
<!ENTITY % interface.role.attrib "%role.attrib;">

<!ENTITY % interface.element "INCLUDE">
<![ %interface.element; [ 
<!ELEMENT Interface - - ((%cptr.char.mix;|Accel)+)>
<!!--end of interface.element-->]]>

<!ENTITY % interface.attlist "INCLUDE">
<![ %interface.attlist; [ 
<!ATTLIST Interface 
Class: Type of the Interface item; no default 
-- 
Class (Button 
|Icon 
|Menu 
|MenuItem)#IMPLIED 
%moreinfo.attrib; 
-- 
}
Literal will have its content constrained to smallcptr.char.mix.

```xml
<!ENTITY % local.literal.attrib "">
<!ENTITY % literal.role.attrib "%role.attrib;">

<!ENTITY % literal.element "INCLUDE">
<!ELEMENT Literal - - ((%cptr.char.mix;)+)>
<!--end of literal.element-->
<!ENTITY % literal.attlist "INCLUDE">
<!ATTLIST Literal
%moreinfo.attrib;
%common.attrib;
%literal.role.attrib;
%local.literal.attrib;
>
<!--end of literal.attlist-->
<!--end of literal.module-->

<!ENTITY % constant.module "INCLUDE">
<!ELEMENT Constant - - (%smallcptr.char.mix;)*>
<!--end of constant.element-->
<!ENTITY % constant.attlist "INCLUDE">
<!ATTLIST Constant
%common.attrib;
%constant.role.attrib;
%local.constant.attrib;
Class(Limit)#IMPLIED
>
<!--end of constant.attlist-->
<!--end of constant.module-->

<!ENTITY % varname.module "INCLUDE">
<!ELEMENT Varname - - (%smallcptr.char.mix;)*>
<!--end of varname.element-->
<!ENTITY % varname.attlist "INCLUDE">
<!ATTLIST Varname
%common.attrib;
%varname.role.attrib;
>
<!--end of varname.attlist-->
<!--end of varname.module-->
```
Parameter will have its content constrained to smallcptr.char.mix.

Class: Type of the Parameter; no default

Class (Command
|Function |#IMPLIED
%moreinfo.attrib;
%common.attrib;
%parameter.role.attrib;
%local.parameter.attrib;
>
</--end of parameter.attlist-->]]>
</--end of parameter.module-->]]>

</--end of prompt.module-->]]>
</--end of prompt.element-->]]>

</--end of prompt.attlist-->]]>
The EnvironVar and Prompt values of Class will be eliminated; use the EnVar and Prompt elements new in 3.0 instead.
<!ENTITY % token.attlist "INCLUDE">
<![ %token.attlist; [
<!ATTLIST Token
%common.attrib;
%token.role.attrib;
%local.token.attrib;
>
<!--end of token.attlist-->]]>
<!--end of token.module-->]]>

<!ENTITY % type.module "INCLUDE">
<![ %type.module; [
<!ENTITY % local.type.attrib "">
<!ENTITY % type.role.attrib "%role.attrib;"> 

<!ENTITY % type.element "INCLUDE">
<![ %type.element; [
<!ELEMENT Type - - ((%smalldcrptr.char.mix;)+)> 
<!--end of type.element-->]]>

<!ENTITY % type.attlist "INCLUDE">
<![ %type.attlist; [
<!ATTLIST Type
%common.attrib;
%type.role.attrib;
%local.type.attrib;
>
<!--end of type.attlist-->]]>
<!--end of type.module-->]]>

<!ENTITY % userinput.module "INCLUDE">
<![ %userinput.module; [
<!ENTITY % local.userinput.attrib "">
<!ENTITY % userinput.role.attrib "%role.attrib;"> 

<!ENTITY % userinput.element "INCLUDE">
<![ %userinput.element; [
<!ELEMENT UserInput - - ((%cptr.char.mix;)+)> 
<!--end of userinput.element-->]]>

<!ENTITY % userinput.attlist "INCLUDE">
<![ %userinput.attlist; [
<!ATTLIST UserInput
%moreinfo.attrib;
%common.attrib;
%userinput.role.attrib;
%local.userinput.attrib;
>
Open Source Used in Kenna Virtual Tunnel and Agent 2021.08 1856
<!ENTITY % anchor.attlist "INCLUDE">
<![ %anchor.attlist; [ 
<!ATTLIST Anchor
%idreq.attrib; -- required --
%pagenum.attrib; --replaces Lang --
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%anchor.role.attrib;
%local.anchor.attrib;
>
<![--end of anchor.attlist-->]]>
<![--end of anchor.module-->]]>

<!ENTITY % beginpage.module "INCLUDE">
<![ %beginpage.module; [ 
<!ENTITY % local.beginpage.attrib "">
<!ENTITY % beginpage.role.attrib "%role.attrib;">

<!ENTITY % beginpage.element "INCLUDE">
<![ %beginpage.element; [ 
<!ELEMENT BeginPage - O EMPTY>
<![--end of beginpage.element-->]]>

<!ENTITY % beginpage.attlist "INCLUDE">
<![ %beginpage.attlist; [ 
<!ATTLIST BeginPage
--
PageNum: Number of page that begins at this point
--
%pagenum.attrib;
%common.attrib;
%beginpage.role.attrib;
%local.beginpage.attrib;
>
<![--end of beginpage.attlist-->]]>
<![--end of beginpage.module-->]]>

<!-- IndexTerms appear in the text flow for generating or linking an index. -->

<!ENTITY % indexterm.content.module "INCLUDE">
<![ %indexterm.content.module; [ 

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided “as is” without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

No license file was found, but licenses were detected in source scan.

# Permission to use, copy, modify and distribute the DocBook DTD # is hereby granted in perpetuity, provided that the above copyright
No license file was found, but licenses were detected in source scan.

<!- ................................................................. -->
<!- DocBook character entities module V4.4 ...................... -->
<!- File dbcentx.mod .............................................. -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbcentx.mod,v 1.28 2005/01/27 13:52:00 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-...-------------------------------------------------------------------------- -->

<!- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.4//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
-->

<!-...-------------------------------------------------------------------------- -->

<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [ 
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->
]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [ 
<!ENTITY % ISOamsb PUBLIC
<!--end of ISOamsb.module-->
]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->
]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [ 
<!ENTITY % ISOamsn PUBLIC
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088399914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.3.zip-cosi-expand-archive-Cjhate6W/calstblx.xsd
No license file was found, but licenses were detected in source scan.

2004 HaL Computer Systems, Inc.,
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbhierx.mod,v 1.38 2005/01/27 13:52:00 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088399914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.4.zip-cosi-expand-archive-4muUszDk/dbhierx.xsd
No license file was found, but licenses were detected in source scan.

Copyright 2003 ArborText, Inc., Norman Walsh, Sun Microsystems, Inc.,
and the Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: htmltblx.mod,v 1.12 2004/03/31 10:40:22 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for any purpose. It is provided “as is” without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):

No license file was found, but licenses were detected in source scan.

2004 HaL Computer Systems, Inc.,

See also http://docbook.org/specs/

$Id: docbookx.dtd,v 1.31 2005/01/27 13:52:36 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbookx.dtd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.4.zip-cosi-expand-archive-3gSi1JTU/docbookx.dtd
No license file was found, but licenses were detected in source scan.

03 13:23:24Z nwalsh $

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.5.zip-cosi-expand-archive-fPrcjOYv/docbookx.dtd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.5.zip-cosi-expand-archive-Dyfz1kRJ/docbookx.dtd

No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook character entities module V4.1 ......................... -->
<!-- File dbcent.mod ...................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, and the Organization for the Advancement of
Structured Information Standards (OASIS).

$Id: dbcent.mod,v 1.8 2000/06/19 14:40:17 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!--
<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.1//EN">
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--
<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [ 
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
%ISOamsa;
<!--end of ISOamsa.module-->
]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
%ISOamsc;
<!--end of ISOamsc.module-->
]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
%ISOamsc;
<!--end of ISOamsc.module-->
]]>
2002 HaL Computer Systems, Inc.,
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbpoolx.mod,v 1.46 2002/07/17 15:26:16 nwalsh Exp$

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook XML DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029_94_0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-
feKkMD47/docbk41.zip-cosi-expand-archive-tW1FAHYy/dbcent.mod
No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.


$Id: htmltblx.mod,v 1.23 2005/01/27 13:52:00 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.2.zip-cosi-expand-archive-WDwc6S51/dbpoolx.xsd
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook character entities module V3.1 ............................... -->
<!-- File dbcent.mod ...................................................... -->

$Id: dbcent.mod 3.1 1999/02/02 02:45:28 nwalsh Exp $
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the davenport@berkshire.net mailing list. For more
information, see http://www.oasis-open.org/docbook/

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!--ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V3.1//EN">
%dbhier;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

<!-- ...................................................................... -->

<!--ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!--ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
%ISOamsa;
<!--end of ISOamsa.module-->
]]>

<!--ENTITY % ISOamsh.module "INCLUDE">
<![ %ISOamsh.module; [
<!--ENTITY % ISOamsh PUBLIC
%ISOamsh;
<!--end of ISOamsh.module-->
]]>
Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbk31.zip-cosi-expand-archive-2t5kN384/dbcent.mod
No license file was found, but licenses were detected in source scan.

2002 HaL Computer Systems, Inc.,

$Id: dbpoolx.mod,v 1.85 2004/01/21 18:54:21 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook XML DTD
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook XML DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.3.zip-cosi-expand-archive-Cjhat6W/dbpoolx.xsd
No license file was found, but licenses were detected in source scan.

2000 HaL Computer Systems, Inc.,


Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbookx.dtd
No license file was found, but licenses were detected in source scan.

DOD//DTD Table Model 951010//EN"


Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied
warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.2.zip-cosi-expand-archive-S0xNRLVG/calstblx.dtd
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-4.2.zip-cosi-expand-archive-PeNThue/calstblx.dtd

No license file was found, but licenses were detected in source scan.


Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xsd-4.2.zip-cosi-expand-archive-WDwc6S51/docbook.xsd

No license file was found, but licenses were detected in source scan.
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook Information Pool V4.1//EN">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!-- ...................................................................... -->
<!-- General-purpose semantics entities ................................... -->
<!ENTITY % yesorno.attvals"NUMBER">
<![IGNORE[
<!ENTITY % yes.attval"1" <!-- never actually used -->
]]>
<!ENTITY % no.attval"0">
<!-- ...................................................................... -->
<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">
<!-- ...................................................................... -->
<!-- Entities for element classes and mixtures ............................ -->
<!-- Object-level classes ................................................. -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class
"CalloutList|GlossList|ItemizedList|OrderedList|SegmentedList
|SimpleList|VariableList %local.list.class;">
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"Caution|Important|Note|Tip|Warning %local.admon.class;">
<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"LiteralLayout|ProgramListing|ProgramListingCO|Screen
|ScreenCO|ScreenShot %local.linespecific.class;">
<!ENTITY % local.method.synop.class "">
```
<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Object-level mixtures ................................................ -->

<table>
<thead>
<tr>
<th>List admn line synp para infm form cmpd gen desc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component mixture</td>
</tr>
<tr>
<td>Sidebar mixture</td>
</tr>
<tr>
<td>Footnote mixture</td>
</tr>
<tr>
<td>Example mixture</td>
</tr>
<tr>
<td>Highlights mixture</td>
</tr>
<tr>
<td>Paragraph mixture</td>
</tr>
<tr>
<td>Admonition mixture</td>
</tr>
<tr>
<td>Figure mixture</td>
</tr>
<tr>
<td>Table entry mixture</td>
</tr>
<tr>
<td>Glossary def mixture</td>
</tr>
<tr>
<td>Legal notice mixture</td>
</tr>
</tbody>
</table>

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->
<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">
<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class;%gen.char.class;
|%link.char.class;%tech.char.class;
|%base.char.class;%docinfo.char.class;
|%other.char.class;%inlineobj.char.class;
|%synop.class;
|%ndxterm.class;
	%forminlines.hook;
%local.para.char.mix;">  

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class;%gen.char.class;
|%link.char.class;%tech.char.class;
|%base.char.class;%docinfo.char.class;
|%other.char.class;%inlineobj.char.class;
|%ndxterm.class;
%local.title.char.mix;">  

<!ENTITY % localndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix
"#PCDATA
|%xref.char.class;%gen.char.class;
|%link.char.class;%tech.char.class;
|%base.char.class;%docinfo.char.class;
|%other.char.class;InlineGraphic|InlineMediaObject
<!-- Effectivity attributes ............................................... -->

<!ENTITY % arch.attrib
--Arch: Computer or chip architecture to which element applies; no default--
"ArchCDATA#IMPLIED">

<!ENTITY % condition.attrib
--Condition: General-purpose effectivity attribute--
"ConditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib
--Conformance: Standards conformance characteristics--
"ConformanceNMTOKENS#IMPLIED">

<!ENTITY % os.attrib
--OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED">

<!ENTITY % revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED">

<!ENTITY % security.attrib
--Security: Security classification; no default--
"SecurityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib
--UserLevel: Level of user experience to which element applies; no default--
"UserLevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib
--Vendor: Computer vendor to which element applies; no default--
"VendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib """>
<!ENTITY % effectivity.attrib
"%arch.attrib;
%condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
%security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;"
>

<!-- Common attributes .................................................... -->

<!ENTITY % id.attrib
--Id: Unique identifier of element; no default--
"IdID#IMPLIED">

<!ENTITY % idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no default--
"IdID#REQUIRED">

<!ENTITY % lang.attrib
--Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default--
"LangCDATA#IMPLIED">

<!ENTITY % remap.attrib
--Remap: Previous role of element before conversion; no default--
"RemapCDATA#IMPLIED">

<!ENTITY % role.attrib
--Role: New role of element in local environment; no default--
"RoleCDATA#IMPLIED">

<!ENTITY % xreflabel.attrib
--XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element--
"XRefLabelCDATA#IMPLIED">

<!ENTITY % revisionflag.attrib
--RevisionFlag: Revision status of element; default is that element wasn't revised--
"RevisionFlag(Changed |Added |Deleted |Off)#IMPLIED">

<!ENTITY % local.common.attrib "">
<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED
%local.graphics.attrib;
>

<!ENTITY % local.keyaction.attrib "">
<!ENTITY % keyaction.attrib = " ">
--Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value--
Action(Click |Double-Click |Press |Seq |Simul |Other)#IMPLIED

--OtherAction: User-defined key combination type--
OtherActionCDATA#IMPLIED
%local.keyaction.attrib;
>

<!ENTITY % label.attrib --Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter-- "LabelCDATA#IMPLIED">

<!ENTITY % linespecific.attrib --Format: whether element is assumed to contain significant white space-- "FormatNOTATION (linespecific)linespecific
LineNumbering(Numbered|Unnumbered) #IMPLIED">

<!ENTITY % linkend.attrib --Linkend: link to related information; no default-- "LinkendIDREF#IMPLIED">

<!ENTITY % linkendreq.attrib --Linkend: required link to related information-- "LinkendIDREF#REQUIRED">

<!ENTITY % linkends.attrib --Linkends: link to one or more sets of related information; no
<!DOCTYPE public "-//OGL//DTD OpenGroup Text//EN"
"http://www.opengroup.org/onlinepubs/009695995/dtds/open-gpgl.dtd">
<!ENTITY % linkendsreq.attrib
--Linkends: required link to one or more sets of related information--
"LinkendsIDREFS#REQUIRED">

<!ENTITY % local.mark.attrib ">">
<!ENTITY % mark.attrib
"MarkCDATA#IMPLIED
%local.mark.attrib;">

<!ENTITY % moreinfo.attrib
--MoreInfo: whether element's content has an associated RefEntry--
"MoreInfo(RefEntry|None)None">

<!ENTITY % pagenum.attrib
--Pagenum: number of page on which element appears; no default--
"PagenumCDATA#IMPLIED">

<!ENTITY % local.status.attrib "">
<!ENTITY % status.attrib
--Status: Editorial or publication status of the element it applies to, such as "in review" or "approved for distribution"--
"StatusCDATA#IMPLIED
%local.status.attrib;">

<!ENTITY % width.attrib
--Width: width of the longest line in the element to which it pertains, in number of characters--
"WidthNUMBER#IMPLIED">

<!-- ...................................................................... -->
<!-- Title elements ....................................................... -->
<!ENTITY % title.module "INCLUDE">
<![ %title.module; ]>
<!ENTITY % local.title.attrib "">
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.

<!ENTITY % local.person.ident.mix "">  
<!ENTITY % person.ident.mix  
"Honorific|FirstName|Surname|Lineage|OtherName|Affiliation  
[AuthorBlurb][Contrib %local.person.ident.mix;]">  

<!ENTITY % local.bibliocomponent.mix "">  
<!ENTITY % bibliocomponent.mix  
"Abbrev|Abstract|Address|ArtPageNums|Author  
[AuthorGroup][AuthorInitials][BiblioMisc][BiblioSet  
[Collab][ConfGroup][ContractNum][ContractSponsor  
[Copyright][CorpAuthor][CorpName][Date][Edition  
[Editor][InvPartNumber][ISBN][ISSN][IssueNum][OrgName  
[OtherCredit][PageNums][PrintHistory][ProductName  
[ProductNumber][PubDate][Publisher][PublisherName  
[PubsNumber][ReleaseInfo][RevHistory][SeriesVolNums  
[Subtitle][Title][TitleAbbrev][VolumeNum][CiteTitle  
[%person.ident.mix;  
[%ndxterm.class;  
%local.bibliocomponent.mix;]>  

<!ENTITY % biblioentry.module "INCLUDE"">  
<![ %biblioentry.module; [  
<!ENTITY % local.biblioentry.attrib "">  

<!ENTITY % biblioentry.role.attrib "%role.attrib;">  

<!ENTITY % biblioentry.element "INCLUDE"">  
<![ %biblioentry.element; [  
<!--FUTURE USE (V5.0):  
...............  
ArticleInfo will be dropped from BiblioEntry  
...............  
-->  
<!ELEMENT BiblioEntry - O ((ArticleInfo  
    | (%biblioentry.mix;))+)>
--
RelationCDATA#IMPLIED
%bibliomset.role.attrib;
%common.attrib;
%local.bibliomset.attrib;
>
<!--end of bibliomset.attlist-->]]>
<!--end of bibliomset.module-->]]>

<!ENTITY % bibliomisc.module "INCLUDE">
<![ %bibliomisc.module; [
<!ENTITY % local.bibliomisc.attrib "">
<!ENTITY % bibliomisc.role.attrib "%role.attrib;">

<!ENTITY % bibliomisc.element "INCLUDE">
<![ %bibliomisc.element; [
<!ELEMENT BiblioMisc - - (%para.char.mix;)+>
<!--end of bibliomisc.element-->]]>

<!ENTITY % bibliomisc.attlist "INCLUDE">
<![ %bibliomisc.attlist; [
<!ATTLIST BiblioMisc
%common.attrib;
%bibliomisc.role.attrib;
%local.bibliomisc.attrib;
>
<!--end of bibliomisc.attlist-->]]>
<!--end of bibliomisc.module-->]]>

<-- ................................................................. -->
<!-- Subject, Keyword, and ITermSet elements ................. -->

<!ENTITY % subjectset.content.module "INCLUDE">
<![ %subjectset.content.module; [
<!ENTITY % subjectset.module "INCLUDE">
<![ %subjectset.module; [
<!ENTITY % local.subjectset.attrib "">
<!ENTITY % subjectset.role.attrib "%role.attrib;">

<!ENTITY % subjectset.element "INCLUDE">
<![ %subjectset.element; [
<!ELEMENT SubjectSet - - (Subject+)>}
<!--end of subjectset.element-->]]>

<!ENTITY % subjectset.attlist "INCLUDE">
<![ %subjectset.attlist; [
<!ATTLIST SubjectSet
--
Scheme: Controlled vocabulary employed in SubjectTerms
--
Scheme
NAME
#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<![--end of subjectset.attlist-->]]>
<![--end of subjectset.module-->]]>

<![ENTITY % subject.module "INCLUDE">
<![ %subject.module; [ 
<![ENTITY % local.subject.attrib ""]
<![ENTITY % subject.role.attrib "%role.attrib;">

<![ENTITY % subject.element "INCLUDE">
<![ %subject.element; [ 
<![ELEMENT Subject -- (SubjectTerm+)>
<![--end of subject.element-->]]>

<![ENTITY % subject.attlist "INCLUDE">
<![ %subject.attlist; [ 
<![ATTLIST Subject
--
Weight: Ranking of this group of SubjectTerms relative
to others, 0 is low, no highest value specified
--
Weight
NUMBER
#IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
>
<![--end of subject.attlist-->]]>
<![--end of subject.module-->]]>

<![ENTITY % subjectterm.module "INCLUDE">
<![ %subjectterm.module; [ 
<![ENTITY % local.subjectterm.attrib ""]
<![ENTITY % subjectterm.role.attrib "%role.attrib;">

<![ENTITY % subjectterm.element "INCLUDE">
<![ %subjectterm.element; [ 
<![ELEMENT SubjectTerm - - (#PCDATA)>
<![--end of subjectterm.element-->]]>

<![ENTITY % subjectterm.attlist "INCLUDE">
<![ %subjectterm.attlist; [ 
<![ATTLIST SubjectTerm
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1925
Columns: The number of columns the array should contain

Type: How the Members of the SimpleList should be
formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results.

--
Type(Inline
|Vert
|Horiz)Vert

%common.attrib;
%simplelist.role.attrib;
%local.simplelistattrib;
>
<![endif]-->
<![endif]-->
<![endif]-->

<!--end of simplelist.attlist-->
]
]>

<!ENTITY % member.module "INCLUDE">
<![ %member.module; ]
<![ENTITY % local.member.attrib "" ]
<![ENTITY % member.role.attrib "%role.attrib;" ]

<!ENTITY % member.element "INCLUDE">
<![ %member.element; ]
<![ELEMENT Member - O ((%para.char.mix;)+) ]
<![!--end of member.element--> ]

<!ENTITY % member.attlist "INCLUDE">
<![ %member.attlist; ]
<![ATTLIST Member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>
<![!--end of member.attlist--> ]
<![!--end of member.module--> ]
<![!--end of simplelist.content.module--> ]

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![ %variablelist.content.module; ]
<![ENTITY % variablelist.module "INCLUDE">
<![ %variablelist.module; ]
<![ENTITY % local.variablelist.attrib "" ]
<![ENTITY % variablelist.role.attrib "%role.attrib;" ]

<!ENTITY % variablelist.element "INCLUDE">
<![ %variablelist.element; ]
<!--end of areaspec.element-->]]>

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist; [ 
<!ATTLIST AreaSpec

--
Units: global unit of measure in which coordinates in
this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number
at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline
to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending
points of area in "linespecific" content that starts at
first position and ends at second position (including the
beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn)

--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED

--
OtherUnits: User-defined units

--
OtherUnitsNAME#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>
<!--FUTURE USE (V5.0):

-------------------
Coord attribute will be removed from AreaSet
-------------------

--> 

<!ATTLIST AreaSet
%label.attrib; --bug number/symbol override or initialization--

--
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!-end of areaset.attlist-->
<!-end of areaset.module-->
<!-end of areaspec.content.module-->

<!ENTITY % programlisting.module "INCLUDE">
<![ %programlisting.module; [
<!ENTITY % local.programlisting.attrib ""
<!ENTITY % programlisting.role.attrib "%role.attrib;">

<!ENTITY % programlisting.element "INCLUDE">
<![ %programlisting.element; [
<!ELEMENT ProgramListing - - ((CO | LineAnnotation | %para.char.mix;)+)> 
<!-end of programlisting.element-->

<!ENTITY % programlisting.attlist "INCLUDE">
<![ %programlisting.attlist; [
<!ATTLIST ProgramListing
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
> 
<!-end of programlisting.attlist-->
<!-end of programlisting.module-->}]}-->
--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED

%videodata.role.attrib;
%local.videodata.attrib;
>
</!--end of videodata.attlist-->]]>
</!--end of videodata.module-->]]>

<!ENTITY % audiodata.module "INCLUDE">
<![ %audiodata.module; [ 
<!ENTITY % local.audiodata.attrib "">
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; [ 
<!ELEMENT AudioData - O EMPTY> 
</!--end of audiodata.element-->]]>

<!ENTITY % audiodata.attlist "INCLUDE">
<![ %audiodata.attlist; [ 
<!ATTLIST AudioData 
%common.attrib; 
%objectdata.attrib; 
%local.audiodata.attrib; 
%audiodata.role.attrib; 
> 
</!--end of audiodata.attlist-->]]>
</!--end of audiodata.module-->]]>

<!ENTITY % imagedata.module "INCLUDE">
<![ %imagedata.module; [ 
<!ENTITY % local.imagedata.attrib "">
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!ENTITY % imagedata.element "INCLUDE">
%common.attrib;
%local.caption.attrib;
%caption.role.attrib;
>
<!--end of caption.attlist-->
<!--end of caption.module-->

<!ENTITY % mediaobjectco.module "INCLUDE">
<![ %mediaobjectco.module; [ 
<!ENTITY % local.mediaobjectco.attrib "">
<!ENTITY % mediaobjectco.role.attrib "role.attrib;">

<!ENTITY % mediaobjectco.element "INCLUDE">
<![ %mediaobjectco.element; [ 
<!ELEMENT MediaObjectCO - - (ObjectInfo?, ImageObjectCO, (ImageObjectCO[TextObject]*)> 
<!--end of mediaobjectco.element-->
]
]
]

<!ENTITY % mediaobjectco.attlist "INCLUDE">
<![ %mediaobjectco.attlist; [ 
<!ATTLIST MediaObjectCO %common.attrib; %mediaobjectco.role.attrib; %local.mediaobjectco.attrib; 
>
<!--end of mediaobjectco.attlist-->
<!--end of mediaobjectco.module-->
]
]

<!ENTITY % imageobjectco.module "INCLUDE">
<![ %imageobjectco.module; [ 
<!ENTITY % local.imageobjectco.attrib "">
<!ENTITY % imageobjectco.role.attrib "role.attrib;">

<!ENTITY % imageobjectco.element "INCLUDE">
<![ %imageobjectco.element; [ 
<!ELEMENT ImageObjectCO - - (AreaSpec, ImageObject, CalloutList*)> 
<!--end of imageobjectco.element-->
]
]
]

<!ENTITY % imageobjectco.attlist "INCLUDE">
<![ %imageobjectco.attlist; [ 
<!ATTLIST ImageObjectCO %common.attrib; %imageobjectco.role.attrib; %local.imageobjectco.attrib; 
>
<!--end of imageobjectco.attlist-->
<!--end of imageobjectco.module-->
]
]

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 1956
<!-- Equations ......................... -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
ENTITY % equation.content "(Alt?, (Graphic+(MediaObject+))")
ENTITY % inlinemequation.content "(Alt?, (Graphic+(InlineMediaObject+))")

ENTITY % equation.module "INCLUDE"
ENTITY % local.equation.attrib ""
ENTITY % equation.role.attrib "%role.attrib;"

ENTITY % equation.element "INCLUDE"
ENTITY % equation.attlist "INCLUDE"

ENTITY % informalequation.module "INCLUDE"
ENTITY % local.informalequation.attrib ""
ENTITY % informalequation.role.attrib "%role.attrib;"

ENTITY % informalequation.element "INCLUDE"
ENTITY % informalequation.attlist "INCLUDE"
<ENTITY % inlineequation.module "INCLUDE">
<![% inlineequation.module; [ 
<!ENTITY % local.inlineequation.attrib """">
<!ENTITY % inlineequation.role.attrib "%role.attrib;">

<!ENTITY % inlineequation.element "INCLUDE">
<![% inlineequation.element; [ 
<!ELEMENT InlineEquation - - (%inlineequation.content;)
<!!--end of inlineequation.element-->
]> 
<!--end of inlineequation.attlist-->]]>

<!ENTITY % alt.module "INCLUDE">
<![% alt.module; [ 
<!ENTITY % local.alt.attrib """">
<!ENTITY % alt.role.attrib "%role.attrib;">

<!ENTITY % alt.element "INCLUDE">
<![% alt.element; [ 
<!ELEMENT Alt - - (#PCDATA)
<!!--end of alt.element-->
]> 
<!--end of alt.module-->]]>

<!ENTITY % table.module "INCLUDE">
<![% table.module; [ 
<!ENTITY % tables.role.attrib "%role.attrib;">

<!-- Tables ......................... -->

<!ENTITY % table.module "INCLUDE">
<![% table.module; [ 
<!ENTITY % tables.role.attrib "%role.attrib;">
<ENTITY % informaltable.attlist "INCLUDE">
<!ATTLIST InformalTable
Frame [Top | Bottom | Topbot | All | Sides | None] #IMPLIED
Colsep %yesorno.attvals; #IMPLIED
Rowsep %yesorno.attvals; #IMPLIED
%tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry, Orient, PgWide --
%bodyatt; -- includes Label --
%secur; -- includes common attributes --
%local.informaltable.attrib;>
</ENTITY % informaltable.attlist--]]>
</ENTITY % informaltable.element; [>
</ELEMENT InformalTable - - (Graphic+[MediaObject]+|group+) %tbl.table.excep;>
</ENTITY % informaltable.element--]]>

<!-- ............................................................. -->
<!-- Synopses ............................................................. -->
<!ENTITY % synopsis.module "INCLUDE">
<!ATTLIST Synopsis %label.attrib;>
</ENTITY % synopsis.module; [>
<!-- ............................................................. -->
<!-- Synopsis ............................................................. -->
<!ENTITY % synopsis.element "INCLUDE">
<!ELEMENT Synopsis - - ((CO | LineAnnotation | %para.char.mix; | Graphic | MediaObject)+)>
</ENTITY % synopsis.element; [>
</ENTITY % synopsis.element--]]>
</ENTITY % synopsis.attlist "INCLUDE">
<!ATTLIST Synopsis %label.attrib;>
</ENTITY % synopsis.attlist[>
</ENTITY % synopsis.module; [>
</ENTITY % synopsis.role.attrib "%role.attrib;">

<ENTITY % synopsis.role.attrib "">
</ENTITY % synopsis.role.attrib;>

<ENTITY % synopsis.module "">
</ENTITY % synopsis.module; [>
<ENTITY % synopsis.attrib "">
<!ENTITY % synopsis.attrib; [>
</ENTITY % synopsis.attrib--]]>
</ENTITY % synopsis.attrib; [>
</ENTITY % synopsis.module--]]>
</ENTITY % synopsis.module--]]>
<!ENTITY % initializer.attlist "INCLUDE">
<![ %initializer.attlist;[ 
<!ATTLIST Initializer 
%common.attrib; 
%initializer.role.attrib; 
%local.initializer.attrib; 
> 
<!--end of initializer.attlist--> ]]> 
<!--end of initializer.module--> ]]> 

<!ENTITY % constructorsynopsis.module "INCLUDE">
<![ %constructorsynopsis.module;[ 
<!ENTITY % local.constructorsynopsis.attrib ""/>
<!ENTITY % constructorsynopsis.role.attrib "%role.attrib;"> 

<!ENTITY % constructorsynopsis.element "INCLUDE">
<![ %constructorsynopsis.element;[ 
<!ELEMENT ConstructorSynopsis - - (Modifier*, 
    MethodName?, 
    (MethodParam+|Void), 
    ExceptionName*)>
<!--end of constructorsynopsis.element--> ]]> 

<!ENTITY % constructorsynopsis.attlist "INCLUDE">
<![ %constructorsynopsis.attlist;[ 
<!ATTLIST ConstructorSynopsis 
%common.attrib; 
%constructorsynopsis.role.attrib; 
%local.constructorsynopsis.attrib; 
> 
<!--end of constructorsynopsis.attlist--> ]]> 
<!--end of constructorsynopsis.module--> ]]> 

<!ENTITY % destructorsynopsis.module "INCLUDE">
<![ %destructorsynopsis.module;[ 
<!ENTITY % local.destructorsynopsis.attrib ""/>
<!ENTITY % destructorsynopsis.role.attrib "%role.attrib;"> 

<!ENTITY % destructorsynopsis.element "INCLUDE">
<![ %destructorsynopsis.element;[ 
<!ELEMENT DestructorSynopsis - - (Modifier*, 
    MethodName?, 
    (MethodParam+|Void), 
    ExceptionName*)>
<!--end of destructorsynopsis.element--> ]]> 

<!ENTITY % destructorsynopsis.attlist "INCLUDE">
<![ %destructorsynopsis.attlist;[ 
<!ATTLIST DestructorSynopsis 
%common.attrib; 
%destructorsynopsis.role.attrib; 
%local.destructorsynopsis.attrib; 
> 
<!--end of destructorsynopsis.attlist--> ]]> 
<!--end of destructorsynopsis.module--> ]]>
<!ENTITY % postcode.attlist "INCLUDE">
<![ %postcode.attlist; [
<!ATTLIST Postcode
%common.attrib;
%postcode.role.attrib;
%local.postcode.attrib;
>]
<!--end of postcode.attlist-->]]>

<!ENTITY % postcode.module "INCLUDE">
<![ %postcode.module; [
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;">]
<!--end of postcode.module-->]]>

<!ENTITY % city.module "INCLUDE">
<![ %city.module; [
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;">]
<!--end of city.module-->]]>

<!ENTITY % city.attlist "INCLUDE">
<![ %city.attlist; [
<!ATTLIST City
%common.attrib;
%city.role.attrib;
%local.city.attrib;
>]
<!--end of city.attlist-->]]>

<!ENTITY % city.element "INCLUDE">
<![ %city.element; [
<!ELEMENT City - - ((%docinfo.char.mix;)+)>]
<!--end of city.element-->]]>

<!ENTITY % city.module "INCLUDE">
<![ %city.module; [
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;">]
<!--end of city.module-->]]>

<!ENTITY % state.module "INCLUDE">
<![ %state.module; [
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;">]
<!--end of state.module-->]]>

<!ENTITY % state.element "INCLUDE">
<![ %state.element; [
<!ELEMENT State - - ((%docinfo.char.mix;)+)>]
<!--end of state.element-->]]>

<!ENTITY % state.attlist "INCLUDE">
<![ %state.attlist; [
<!ATTLIST State
%common.attrib;
%state.role.attrib;
%local.state.attrib;]
Path: Search path (possibly system-specific) in which file can be found

Path CDATA #IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->]]>
<!--end of filename.module-->]]>

<!--end of filename.module-->

<!ENTITY % function.module "INCLUDE">
<![ %function.module; [
<!ENTITY % local.function.attrib "">
<!ENTITY % function.role.attrib "%role.attrib;">

<!--end of function.element-->

<!ENTITY % function.attlist "INCLUDE">
<![ %function.attlist; [
<!ATTLIST Function
%moreinfo.attrib;
%common.attrib;
%function.role.attrib;
%local.function.attrib;
>
<!--end of function.attlist-->]]>
<!--end of function.module-->]]>

<!--end of function.module-->

<!ENTITY % guibutton.module "INCLUDE">
<![ %guibutton.module; [
<!ENTITY % local.guibutton.attrib "">
<!ENTITY % guibutton.role.attrib "%role.attrib;">

<!--end of guibutton.element-->

<!ENTITY % guibutton.attlist "INCLUDE">
<![ %guibutton.attlist; [
<!ATTLIST GUIButton
%moreinfo.attrib;
%
<!DOCTYPE Interface SYSTEM "Interface.dtd">
<!ELEMENT Interface (
  %moreinfo.attrib;
  %common.attrib;
  %interface.role.attrib;
  %local.interface.attrib;
)>
<!--end of interface.attlist-->
<!--end of interface.module-->

<!ENTITY % keycap.module "INCLUDE">
<![ %keycap.module; ]>
<!ENTITY % local.keycap.attrib "">
<!ENTITY % keycap.role.attrib "%role.attrib;">

<!ENTITY % keycap.element "INCLUDE">
<![ %keycap.element; ]>
<!ELEMENT KeyCap - - (%smallcptr.char.mix;)*>
<!--end of keycap.element-->

<!ENTITY % keycap.attlist "INCLUDE">
<![ %keycap.attlist; ]>
<!ATTLIST KeyCap
  %moreinfo.attrib;
  %common.attrib;
  %keycap.role.attrib;
  %local.keycap.attrib;
>
<!--end of keycap.attlist-->
<!--end of keycap.module-->

<!ENTITY % keycode.module "INCLUDE">
<![ %keycode.module; ]>
<!ENTITY % local.keycode.attrib "">
<!ENTITY % keycode.role.attrib "%role.attrib;">

<!ENTITY % keycode.element "INCLUDE">
<![ %keycode.element; ]>
<!ELEMENT KeyCode - - ((%smallcptr.char.mix;)+)>
<!--end of keycode.element-->

<!ENTITY % keycode.attlist "INCLUDE">
<![ %keycode.attlist; ]>
<!ATTLIST KeyCode
  %common.attrib;
  %keycode.role.attrib;
  %local.keycode.attrib;
>
<!--end of keycode.attlist-->
<!--end of keycode.module-->

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2017
Endterm IDREF #IMPLIED
%linkendreq.attrib; --to linked-to object--

Type: Freely assignable parameter

Type CDATA #IMPLIED
%common.attrib;
%link.role.attrib;
%local.link.attrib;
>
<!--end of link.attlist-->]]>
<!--end of link.module-->]]>

<!ENTITY % olink.module "INCLUDE">
<![ %olink.module; [  
<!ENTITY % local.olink.attrib "">
<!ENTITY % olink.role.attrib "%role.attrib;">

<!ENTITY % olink.element "INCLUDE">
<![ %olink.element; [ 
<!ELEMENT OLink - - (%para.char.mix;)+ %links.exclusion;> 
<!--end of olink.element-->]]>

<!ENTITY % olink.attlist "INCLUDE">
<![ %olink.attlist; [ 
<!ATTLIST OLink 
TargetDocEnt: Name of an entity to be the target of the link

TargetDocEnt ENTITY #IMPLIED

LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt

LinkMode IDREF #IMPLIED

LocalInfo: Information that may be passed to ModeSpec

LocalInfo CDATA #IMPLIED

Type: Freely assignable parameter

Type CDATA #IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
<!ELEMENT IndexTerm - O (Primary, ((Secondary, ((Tertiary, (See|SeeAlso+))?) | See | SeeAlso+)?) | See | SeeAlso+)?) %ubiq.exclusion;>
<!--end of indexterm.element-->

<!ENTITY % indexterm.attlist "INCLUDE">
<![ %indexterm.attlist; [ 
<!ATTLIST IndexTerm %pagenum.attrib; --
Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both)
--
Scope(All
|Global
|Local)#IMPLIED
--
Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default)
--
Significance(Preferred
|Normal)Normal
--
Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges
--
Class(Singular
|StartOfRange
|EndOfRange)#IMPLIED
--
StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm
--
StartRefIDREF#CONREF
--
Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs
--
ZoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
> 
<!--end of indexterm.attlist-->
<!--end of indexterm.module-->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2043
No license file was found, but licenses were detected in source scan.

Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbcent PUBLIC
```
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...

<!-- ENTITY % ISOamsa.module "INCLUDE"
<!-- ![ISOamsa.module;]
<!-- ENTITY % ISOamsa PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Arrow Relations//EN//XML" "ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->
]]>

<!-- ENTITY % ISOamso.module "INCLUDE"
<!-- ![ISOamso.module;]
<!-- ENTITY % ISOamso PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Ordinary//EN//XML"
"ent/iso-amso.ent">
%ISOamso;
<!--end of ISOamso.module-->
]]>
If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- This module contains the notation declarations used by DocBook. 

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ENTITY % dbnotn PUBLIC 
"-//OASIS//ENTITIES DocBook Notations V4.3//EN"
"dbnotnx.mod">
%
dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook. 

-->

<!-- ENTITY % local.notation.class "" -->
<!ENTITY % notation.class "BMP | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI |
EPS | EQN | FAX | GIF | GIF87a | GIF89a |
JPG | JPEG | IGES | PCX |
PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG |
SVG | PDF | SWF |
linespecific |
%local.notation.class;" -->

<!-- NOTATION BMPPUBLIC 
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC 
<!NOTATION EQNSYSTEM "EQN">
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2051

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.3.zip-cosi-expand-archive-m2Ir8YwA/dbnotnx.mod
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-xml-4.3.zip-cosi-expand-archive-ZzNQLcYF/dbnotnx.mod

No license file was found, but licenses were detected in source scan.

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, and the Organization for the Advancement of
Structured Information Standards (OASIS).

$Id: dbnotn.mod,v 1.7 2000/05/18 19:44:18 nwalsh Exp $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- This module contains the entity declarations for the standard notations used by DocBook. 

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC "-//OASIS//ENTITIES DocBook Notations V4.0//EN"> %dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook. -->

<!ENTITY % local.notation.class ""> 
ENTITY % notation.class "BMP | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | linespecific %local.notation.class;">
Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbk40.zip-cosi-expand-archive-TRC6Sw87/dbnotn.mod

No license file was found, but licenses were detected in source scan.
Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

No license file was found, but licenses were detected in source scan.
Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbk41.zip-cosi-expand-archive-tW1FAHYy/docbook.dtd
No license file was found, but licenses were detected in source scan.

License: Copyright only
- License: Copyright only
- Change Copyright: to License:

Found in path(s):
* /opt/cola/permits/1088339914_1607417029.94/0/docbook-dtds-1.0-69.el8.src.rpm-cosi-expand-archive-feKkMD47/docbook-dtds.spec
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook character entities module V4.5 ..................................... -->
<!-- File dbcentx.mod ............................................................... -->


$Id: dbcentx.mod 6340 2006-10-03 13:23:24Z nwalsh $

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

-->
<!-- ...................................................................... -->
<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.5//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
-->

<!-- ...................................................................... -->

<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [ 
<!ENTITY % ISOamsa PUBLIC "ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->
]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [ 
<!--end of ISOamsb.module-->
]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC "ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->
]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [ 
<!ENTITY % ISOamsn PUBLIC "ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->
]]>

<!ENTITY % ISOamso.module "INCLUDE">

<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.5//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
-->
The file
kbdrate.c
is Copyright (C) 1992 Rickard E. Faith.

The files
dumpkeys.c loadkeys.y loadkeys.analyze.l ksym.c ksym.h
showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
are Copyright (C) 1993 Risto Kankkunen.

The files
setfont.c setfont.8 mapscrn.c mapscrn.8
(and changes to loadkeys.y)
are Copyright (C) 1993 Eugene G. Crosser.

The files
psfaddtable.1 psfgettable.1 psfstriptable.1
are Copyright (C) 1994 H. Peter Anvin.
chvt.c clrunimap.c deallocvt.c fgconsole.c findfile.c
getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c
psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
(and changes to earlier mentioned programs)
are Copyright (C) 1994-1999 Andries E. Brouwer.

The file
openvt.c
is Copyright (C) 1994 by Jon Tombs <jon@gtex02.us.es>
portions also authors: Andries E. Brouwer <aeb@cwi.nl>
    Joshua Spoerri <josh@cooper.edu>
    Chuck Martin <cmartin@bigfoot.com>
    Alexey Gladkov <gladkov.alexey@gmail.com>

The file
kbdinfo.c
is Copyright (C) 2011 Alexey Gladkov.

The file
setvtrgb.c
is Copyright (C) 2011 Alexey Gladkov,
portions also Copyright (C) 2011 Canonical Ltd.
    Authors: Seth Forshee <seth.forshee@canonical.com>
            Dustin Kirkland <kirkland@canonical.com>

The files
    auth.c pam_auth.h pam.c parse.c screen.c username.c vlock.c vlock.h vt.c
is Copyright (C) 1994-1998 Michael K. Johnson <johnsonm@redhat.com>
    Copyright (C) 2002-2006 Dmitry V. Levin <ldv@altlinux.org>

All files in this package may be freely copied under the terms
of the GNU General Public License (GPL), version 2, or at your
option any later version - except possibly for the restrictions
mentioned in the directory consolefonts.

1.16 nettle 3.4.1-4.el8_3
1.16.1 Available under license :
    GNU GENERAL PUBLIC LICENSE
    Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of
technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users.
beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.
2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.17 libsigsegv 2.11 5.el8
1.17.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor,
Boston, MA 02110-1301, USA.
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.18 gdbm 1.18 1.el8
1.18.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007, 2011 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.
The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.
All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.
You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.19 dyninst 10.2.1-2.el8
1.19.1 Available under license:

Copyright (c) 2015 Microsoft Corporation. All rights reserved.

This code is licensed under the MIT License (MIT).
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

(This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.)

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

{description}
Copyright (C) {year} {fullname}

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob` (a library for tweaking knobs) written by James Random
Hacker.

{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Revised BSD License (non-advertising clause)

This software is distributed under the revised Berkeley Software Distribution
(BSD) license by Lawrence Livermore National Laboratory LLNL (managed by the
University of California). The revised BSD license is the same as the original
BSD license, but without the famous advertising clause that was a problem
historically (see www.gnu.org/philosophy/bsd.html for details). Our goal
has been to select as liberal a license as possible for the ROSE project.

Copyright (c) 2005, 2006, 2007, Regents of the University of California
All rights reserved.

Revised BSD License:

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the University of California nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.
IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

ROSE also contains a copy (with some modifications) of the Haru Free PDF
Library (http://libharu.org), which is subject to the following license:

Copyright (C) 1999-2006 Takeshi Kanno
Copyright (C) 2007-2008 Antony Dovgal
This software is provided 'as-is', without any express or implied warranty.

In no event will the authors be held liable for any damages arising from the
use of this software.

Permission is granted to anyone to use this software for any purpose,including
commercial applications, and to alter it and redistribute it freely, subject to
the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

ROSE also contains a binary copy of ANTLR 3.0, with the following license:

Copyright (c) 2003-2008, Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Paradyn is Copyright (c) 1996-2013 Barton P. Miller

Contributions to Paradyn were developed by LLNS and have the following copyright:
Copyright (c) 2012-2013, Lawrence Livermore National Security, LLC. Produced at the Lawrence Livermore National Laboratory. Written by Matthew LeGendre (legendre1 at llnl dot gov). LLNL-CODE-559291. All rights reserved.

Contributions to Paradyn were developed by Red Hat and have the following copyright:
Copyright (c) 2012-2013, Red Hat, Inc. Written by Josh Stone (jistone at redhat dot com). All rights reserved.

Contributions to Paradyn were written by Bull SAS and have the following copyright:
Copyright (c) 2013 Bull SAS. Written by Mouhamed Gueye (mouhamed dot gueye at bull dot net). All rights
Paradyn incorporates software from the Rose Compiler Project, whose full copyright information can be found in dataflowAPI/rose/COPYRIGHT.

1.20 x-xerrors v0.0.0-20191204190536-9bdfabe68543

1.20.1 Available under license:

Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.21 libidn 1.34-5.el8

1.21.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library "Frob" (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
      stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in
      whole or in part contains or is derived from the Program or any
      part thereof, to be licensed as a whole at no charge to all third
      parties under the terms of this License.

   c) If the modified program normally reads commands interactively
      when run, you must cause it, when started running for such
      interactive use in the most ordinary way, to print or display an
      announcement including an appropriate copyright notice and a
      notice that there is no warranty (or else, saying that you provide
      a warranty) and that users may redistribute the program under
      these conditions, and telling the user how to view a copy of this
      License.  (Exception: if the Program itself is interactive but
      does not normally print such an announcement, your work based
      on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision` (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.
To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.
"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.
If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:
a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third
However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if
You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
License below is copied from <http://www.unicode.org/copyright.html>,
last updated 7 July 2004, and claims to apply to all Unicode versions.

According to a post on emacs-devel,
RMS believe it is a free license:

This is a free license, and even compatible with the GPL (if
that ever matters). Yes, we can use it now.

EXHIBIT 1
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/ and
http://www.unicode.org/reports/. Unicode Software includes any source
code under the directories http://www.unicode.org/Public/ and
http://www.unicode.org/reports/.

NOTICE TO USER: Carefully read the following legal agreement. BY
DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU
UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND
CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD,
INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.
COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2004 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and associated documentation (the "Data Files") or Unicode software and associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear in all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.
As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

Libidn COPYING -- Explanation of licensing conditions.

Copyright (C) 2002-2015 Simon Josefsson

See the end for copying conditions.

The source code for the C library (libidn.a or libidn.so), the C# library (Libidn.dll) and the Java library (libidn-*-jar) are licensed under the terms of either the GNU General Public License version 2.0 or later (see the file COPYINGv2) or the GNU Lesser General Public License version 3.0 or later (see the file COPYING.LESSERv3), or both in parallel as here.

The author of the Java library has agreed to also distribute it under the Apache License Version 2.0 (see the file java/LICENSE-2.0).

The manual is licensed under the GNU Free Documentation License, Version 1.3 or any later.

The command line tool, self tests, examples, and other auxiliary files, are licensed under the GNU General Public License version 3.0 or later.

Other files are licensed as indicated in each file.

There may be exceptions to these general rules, see each file for precise information.

-----------------------------------------------------------------------------------------------------------------------------

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licenser" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
1.22 attr 2.4.48 3.el8

1.22.1 Available under license:

Most components of the "attr" package are licensed under
Version 2.1 of the GNU Lesser General Public License (see below).

Some components (as annotated in the source) are licensed
under Version 2 of the GNU General Public License (see COPYING).

-----------------------------------------------

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Most components of the "attr" package are licensed under Version 2.1 of the GNU Lesser General Public License (see COPYING.LGPL).

Some components (as annotated in the source) are licensed under Version 2 of the GNU General Public License (see below),

------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.23 symlinks 1.4 19.el8

1.23.1 Available under license:

From: http://packages.debian.org/changelogs/pool/main/s/symlinks/symlinks_1.2-4.2/symlinks.copyright

Copyright (c) Mark Lord, freely distributable

License clarification as found in Debian Bug #273338:

Hi,

My "symlinks" utility pre-dates the "open source licensing" fad by a number of years. Just to clarify, this is 100% freeware, written entirely by myself. The intent is to use it to detect missing/obsolete symlink targets on an installed distro, before creating the "gold" (or "final") release discs.

Use and distribute and modify as you (or anyone else) sees fit. There have no formal restrictions or requirements whatsoever regarding distribution of either binaries or source code, whether modified or original.

Cheers
--
Mark Lord
Real-Time Remedies Inc.
mlord@pobox.com

1.24 datadog-dd-trace-go v1.19.0

1.24.1 Available under license:

Copyright (c) 2016-Present, Datadog <info@datadoghq.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Datadog nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include
Copyright 2016 Datadog, Inc.
Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Datadog dd-trace-go
Copyright 2016-Present Datadog, Inc.

This product includes software developed at Datadog, Inc. (https://www.datadoghq.com/).

Component,Origin,License,Copyright
import,io.opentracing,Apache-2.0,Copyright 2016-2017 The OpenTracing Authors

## License

This work is dual-licensed under Apache 2.0 or BSD3.
You may select, at your option, one of the above-listed licenses.

'SDX-License-Identifier: Apache-2.0 OR BSD-3-Clause'

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016 Datadog, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

---

Copyright (c) 2016-Present, Datadog <info@datadoghq.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of Datadog nor the
names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.25 perl-http-tiny 0.074-1.el8

1.25.1 Available under license:
This software is copyright (c) 2018 by Christian Hansen.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
   Software Foundation; either version 1, or (at your option) any
   later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2018 by Christian Hansen.

This is free software, licensed under:

The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

   b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

   d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.
3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

   a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

   b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

   c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

   Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 2018 by Christian Hansen.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.
6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.26 bigdecimal 3.0.2

1.26.1 Available under license:

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>. You can redistribute it and/or modify it under either the terms of the 2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

   b) use the modified software only within your corporation or organization.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:
a) distribute the binaries and library files of the software, 
together with instructions (in the manual page or equivalent) 
on where to get the original distribution.

b) accompany the distribution with the machine-readable source of 
the software.

c) give non-standard binaries non-standard names, with 
instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other 
software (possibly commercial). But some files in the distribution 
are not written by the author, so that they are not under these terms.

For the list of those files and their copying conditions, see the 
file LEGAL.

5. The scripts and library files supplied as input to or produced as 
output from the software do not automatically fall under the 
copyright of the software, but belong to whomever generated them, 
and may be sold commercially, and may be aggregated with this 
software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR 
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED 
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR 
PURPOSE.

**1.27 libcomps 0.1.11-5.el8**

**1.27.1 Available under license :**

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
close compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program— to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.
An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.
The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstituted, you do not qualify to receive new licenses for the same
material under section 10.


You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.
Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement.
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
1.29 firewalld 0.8.2-7.el8_4

1.29.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.30 timedatex 0.5 3.el8
1.30.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.31 strscan 1.0.0
1.31.1 Available under license:
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.32 unbound 1.7.3-15.el8
1.32.1 Available under license:

Copyright (c) 2009, Zdenek Vasicek (vasicek AT fit.vutbr.cz)
Marek Vavrusa (xvavru00 AT stud.fit.vutbr.cz)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the organization nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2007, NLnet Labs. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the NLNET LABS nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, Dmitriy Demidov aka terminus. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Dmitriy Demidov nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

1.33 plymouth 0.9.4-9.20200615git1e36e30.el8
1.33.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.34 unzip 6.0-45.el8_4

1.34.1 Available under license:

This is version 2009-Jan-02 of the Info-ZIP license. The definitive version of this document should be available at ftp://ftp.info-zip.org/pub/infozip/license.html indefinitely and a copy at http://www.info-zip.org/pub/infozip/license.html.

Copyright (c) 1990-2009 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:


This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. Additional documentation is not needed for executables where a command line license option provides these and
3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.


This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
as a separate distribution (the restricted copyright of this code is
cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
* Portions copyright 1995 Jim Luther
* All rights reserved.
* The Package "More Files" is distributed under the following
* license terms:
*
* "You may incorporate this sample code into your
* applications without restriction, though the
* sample code has been provided "AS IS" and the
* responsibility for its operation is 100% yours.
* However, what you are not permitted to do is to
* redistribute the source as "DSC Sample Code" after
* having made changes. If you're going to
* redistribute the source, we require that you make
* it clear in the source that the code was descended
* from Apple Sample Code, but that you've made
* changes."
*
The usage terms of this copyright note are compatible with the
Info-ZIP license, they do not add further restrictions.

The following copyright applies to the Mac OS "machin3" decoding code
(extra field compatibility with ZiPlt):

* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* ______________________________________________________
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol  leonardr@netcom.com)
*
This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

------------------------------------------------------------------------------

The remaining copyright notes have been superseeded by the new
Info-ZIP license, with explicit permission from the respective
original authors. They are cited here for historical reasons, only:
The following copyright applies to the full-featured unreduce.c
(now distributed separately):

* Copyright 1989 Samuel H. Smith; All rights reserved
* Do not distribute modified versions without my permission.
* Do not remove or alter this notice or any other copyright notice.
* If you use this in your own program you must distribute source code.
* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?:) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

Note that the third and fourth stipulations still apply to any com-
pany that wishes to incorporate the unreduce code into its products;
if you wish to do so, you must contact Mr. Smith directly regarding
licensing.

-----

The following copyright applied to most of the VMS code in vms.c,
distributed with UnZip version 4.2 and later:

* Copyright (c) 1992-93 Igor Mandrichenko.
* Permission is granted to any individual or institution to use, copy,
  or redistribute this software so long as all of the original files
  are included unmodified and that this copyright notice is retained.

-----

The following copyright applied to the new version of unshrink.c,
distributed with UnZip version 5.2 and later:

* Copyright (c) 1994 Greg Roelofs.
* Permission is granted to any individual/institution/corporate
  entity to use, copy, redistribute or modify this software for
  any purpose whatsoever, subject to the conditions noted in the
* Frequently Asked Questions section below, plus one additional condition: namely, that my name not be removed from the source code. (Other names may, of course, be added as modifications are made.) Corporate legal staff (like at IBM :-)) who have problems understanding this can contact me through Zip-Bugs...

-----

The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

* Copyright (c) 1996 Mike White.
* Permission is granted to any individual or institution to use, copy, or redistribute this software so long as all of the original files are included, that it is not sold for profit, and that this copyright notice is retained.

-----

The following copyright applied to the Windows CE GUI port, "Pocket UnZip," distributed with UnZip version 5.3 and later:

* All the source files for Pocket UnZip, except for components written by the Info-ZIP group, are copyrighted 1997 by Steve P. Miller. The product "Pocket UnZip" itself is property of the author and cannot be altered in any way without written consent from Steve P. Miller.

-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

--------------------------------------------------------------------------
1.35 diffstat 1.61-7.el8

1.35.1 Available under license:

/******************************************************************************
* Copyright 1994-2012,2013 by Thomas E. Dickey                        *
* All Rights Reserved.                                                 *
*                                                                     *
* Permission to use, copy, modify, and distribute this software and its *
* documentation for any purpose and without fee is hereby granted, provided *
* that the above copyright notice appear in all copies and that both that *
* copyright notice and this permission notice appear in supporting *
* documentation, and that the name of the above listed copyright holder(s) *
* not be used in advertising or publicity pertaining to distribution of the *
* software without specific, written prior permission.                *
*                                                                     *
* THE ABOVE LISTED COPYRIGHT HOLDER(S) DISCLAIM ALL WARRANTIES WITH REGARD *
* TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND *
* FITNESS, IN NO EVENT SHALL THE ABOVE LISTED COPYRIGHT HOLDER(S) BE LIABLE *
* FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES *
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN *
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR *
* IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.          *
******************************************************************************/

Copyright 1994-2015,2016 by Thomas E. Dickey
All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of the above listed copyright holder(s)
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

THE ABOVE LISTED COPYRIGHT HOLDER(S) DISCLAIM ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE ABOVE LISTED COPYRIGHT HOLDER(S) BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Upstream source http://invisible-island.net/diffstat/diffstat.html

/******************************************************************************
* Copyright 1994-2015,2016 by Thomas E. Dickey                        *
* All Rights Reserved.                                                 *
******************************************************************************/
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the above listed copyright holder(s) not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. 

THE ABOVE LISTED COPYRIGHT HOLDER(S) DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE ABOVE LISTED COPYRIGHT HOLDER(S) BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Files: aclocal.m4
Licence: other-BSD
Copyright: 2003-2015,2016 by Thomas E. Dickey
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, distribute with modifications, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: other-BSD
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS’s install programs.

Files: debian/*
Copyright: 2010-2015,2016 Thomas E. Dickey
Licence: other-BSD
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the above listed
copyright holder(s) not be used in advertising or publicity pertaining
to distribution of the software without specific, written prior
permission.

THE ABOVE LISTED COPYRIGHT HOLDER(S) DISCLAIM ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL THE ABOVE LISTED COPYRIGHT HOLDER(S) BE
LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`

1.36 slang 2.3.2 3.el8

1.36.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License...
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.37 perl-text-tabs-wrap 2013.0523 395.el8
1.37.1 Available under license :
No license file was found, but licenses were detected in source scan.

---
abstract: 'Expand tabs and do simple line wrapping'
author:
- 'David Muir Sharnoff <muir@idiom.org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Tabs+Wrap
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/muir/Text-Tabs-Wrap
version: 2013.0523

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019676549_1591379882.87/0/perl-Text-Tabs+Wrap-2013.0523-395.el8.src.rpm-
License: TTWL

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019676549_1591379882.87/0/perl-Text-Tabs+Wrap-2013.0523-395.el8.src.rpm-
cosi-expand-archive-WoUTJPer/perl-Text-Tabs+Wrap.spec

1.38 python-slip 0.6.4 11.el8

1.38.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) 19yy name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.39 perl-carp 1.42-396.el8

1.39.1 Available under license:

No license file was found, but licenses were detected in source scan.

NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install
AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

COPYRIGHT

Copyright (C) 1994-2013 Larry Wall

Copyright (C) 2011, 2012, 2013 Andrew Main (Zefram) <zefram@fysh.org>

LICENSE

This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/README

No license file was found, but licenses were detected in source scan.

---
abstract: 'alternative warn and die for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Carp
no_index:
directory:
  - t
  - inc
requires:
  Config: '0'
  Exporter: '0'
  ExtUtils::MakeMaker: '0'
  IPC::Open3: '1.0103'
  Test::More: '0.47'
overload: '0'
strict: '0'
warnings: '0'
version: '1.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/META.yml
No license file was found, but licenses were detected in source scan.

License:          GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/perl-Carp.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";

# cluck, longmess and shortmess not exported by default
use Carp qw(cluck longmess shortmess);
cluck "This is how we got here!";
$long_message   = longmess( "message from cluck() or confess()" );
$short_message  = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like C<die()> or C<warn()> but with a message which is more likely to be useful to a user of your module. In the case of C<cluck()> and C<confess>(), that context is a summary of every call in the call-stack; C<longmess()> returns the contents of the error
message.

For a shorter message you can use C<carp()> or C<croak()> which report the error as being from where your module was called. C<shortmess()> returns the contents of this error message. There is no guarantee that that is where the error was, but it is a good educated guess.

C<Carp> takes care not to clobber the status variables C<$!> and C<$^E> in the course of assembling its error messages. This means that a C<$SIG{__DIE__}> or C<$SIG{__WARN__}> handler can capture the error information held in those variables, if it is required to augment the error message, and if the code calling C<Carp> left useful values there. Of course, C<Carp> can't guarantee the latter.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in C{@CARP_NOT}, or (if that array is empty) C{@ISA}. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C{@ISA} with C{@CARP_NOT}, then this trust relationship is identical to, "inherits from".

=item 4.
Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.

=head2 Stack Trace formatting

At each stack level, the subroutine's name is displayed along with its parameters. For simple scalars, this is sufficient. For complex data types, such as objects and other references, this can simply display C<'HASH(0x1ab36d8)'>.

Carp gives two ways to control this.

=over 4

=item 1. 
For objects, a method, C\textlangle\textsc{Carp}\_\textsc{Trace}\textrangle, will be called, if it exists. If this method doesn't exist, or it recurses into C\textlangle\textsc{Carp}\textrangle, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used. It is recommended that the object's type is part of the string to make debugging easier.

=item 2.

For any type of reference, C\textlangle\textsc{Carp}:\textsc{RefArgFormatter}\textrangle is checked (see below). This variable is expected to be a code reference, and the current parameter is passed in. If this function doesn't exist (the variable is undef), or it recurses into C\textlangle\textsc{Carp}\textrangle, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used.

=item 3.

Otherwise, if neither C\textlangle\textsc{Carp}\_\textsc{Trace}\textrangle nor C\textlangle\textsc{Carp}:\textsc{RefArgFormatter}\textrangle is available, stringify the value ignoring any overloading.

=back

=head1 GLOBAL VARIABLES

=head2 $\textsc{Carp}\_\textsc{MaxEvalLen}$

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of C\textlangle0\textrangle to show all text.

Defaults to C\textlangle0\textrangle.

=head2 $\textsc{Carp}\_\textsc{MaxArgLen}$

This variable determines how many characters of each argument to a function to print. Use a value of C\textlangle0\textrangle to show the full length of the argument.

Defaults to C\textlangle64\textrangle.

=head2 $\textsc{Carp}\_\textsc{MaxArgNums}$

This variable determines how many arguments to each function to show. Use a false value to show all arguments to a function call. To suppress all arguments, use C\textlangle-1\textrangle or C\textlangle0 but true\textrangle.

Defaults to C\textlangle8\textrangle.
=head2 $Carp::Verbose

This variable makes C<carp()> and C<croak()> generate stack backtraces just like C<cluck()> and C<confess()>. This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

=head2 $Carp::RefArgFormatter

This variable sets a general argument formatter to display references. Plain scalars and objects that implement C<CARP_TRACE> will not go through this formatter. Calling C<Carp> from within this function is not supported.

local $Carp::RefArgFormatter = sub {
    require Data::Dumper;
    Data::Dumper::Dump($_[0]); # not necessarily safe
};

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

    # These work
    our @CARP_NOT; # file scope
    use vars qw(@CARP_NOT); # package scope
    @My::Package::CARP_NOT = ... ; # explicit package variable

    # These don't work
    sub xyz { ... @CARP_NOT = ... } # w/o declarations above
    my @CARP_NOT; # even at top-level

Example of use:

    package My::Carping::Package;
    use Carp;
    our @CARP_NOT;
    sub bar { ... or _error('Wrong input') }
    sub _error {
        # temporary control of where'ness, __PACKAGE__ is implicit
        local @CARP_NOT = qw(My::Friendly::Caller);
        carp(@_)
    }
This would make \texttt{C\langle Carp\rangle} report the error as coming from a caller not in \texttt{C\langle My::Carping::Package\rangle}, nor from \texttt{C\langle My::Friendly::Caller\rangle}.

Also read the \texttt{L</DESCRIPTION>} section above, about how \texttt{C\langle Carp\rangle} decides where the error is reported from.

Use \texttt{C\langle @CARP\_NOT\rangle}, instead of \texttt{C\langle $Carp::CarpLevel\rangle}.

Overrides \texttt{C\langle Carp\rangle}'s use of \texttt{C\langle @ISA\rangle}.

\section*{\texttt{\%Carp::Internal}}

This says what packages are internal to Perl. \texttt{C\langle Carp\rangle} will never report an error as being from a line in a package that is internal to Perl. For example:

\begin{verbatim}
$Carp::Internal{ (__PACKAGE__) }++; 
# time passes... 
sub foo { ... or confess("whatever") };
\end{verbatim}

would give a full stack backtrace starting from the first caller outside of \texttt{__PACKAGE__}. (Unless that package was also internal to Perl.)

\section*{\texttt{\%Carp::CarpInternal}}

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in \texttt{C\langle\%Carp::CarpInternal\rangle}. But it is slightly different for the summary message generated by \texttt{C\langle carp\rangle} or \texttt{C\langle croak\rangle}. There errors will not be reported on any lines that are calling packages in \texttt{C\langle\%Carp::CarpInternal\rangle}.

For example \texttt{C\langle Carp\rangle} itself is listed in \texttt{C\langle\%Carp::CarpInternal\rangle}. Therefore the full stack backtrace from \texttt{C\langle confess\rangle} will not start inside of \texttt{C\langle Carp\rangle}, and the short message from calling \texttt{C\langle croak\rangle} is not placed on the line where \texttt{C\langle croak\rangle} was called.

\section*{\texttt{$Carp::CarpLevel}}

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of \texttt{C\langle Carp\rangle}'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that \texttt{C\langle Carp\rangle} goes all of
the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid C<$Carp::CarpLevel> . Instead use C<@CARP_NOT>, C<$%Carp::Internal> and C<$%Carp::CarpInternal>.

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

=head1 COPYRIGHT

Copyright (C) 1994-2013 Larry Wall

Copyright (C) 2011, 2012, 2013 Andrew Main (Zefram) <zefram@fysh.org>

=head1 LICENSE

This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/lib/Carp.pm

1.40 snowball-stemmer 0-10.585svn.el8
1.40.1 Available under license:

Copyright (c) 2001, Dr Martin Porter, and (for the Java developments)
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

All the software given out on this Snowball site is covered by the BSD License (see http://www.opensource.org/licenses/bsd-license.html), with Copyright (c) 2001, Dr Martin Porter, and (for the Java developments) Copyright (c) 2002, Richard Boulton.

Essentially, all this means is that you can do what you like with the code, except claim another Copyright for it, or claim that it is issued under a different license. The software is also issued without warranties, which means that if anyone suffers through its use, they cannot come back and sue you. You also have to alert anyone to whom you give the Snowball software to the fact that it is covered by the BSD license.

We have not bothered to insert the licensing arrangement into the text of the Snowball software.

(from: http://snowball.tartarus.org/license.php)

1.41 zlib 1.2.11

1.41.1 Available under license:

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.42 libmodman 2.0.1 17.el8

1.42.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.
When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices...
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.43 psutil 5.4.3-10.el8

1.43.1 Available under license:

psutil is distributed under BSD license reproduced below.

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola’
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the psutil authors nor the names of its contributors
  may be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.44 shared-mime-info 1.9 3.el8

1.44.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the 
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along 
with this program; if not, write to the Free Software Foundation, Inc., 
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this 
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author 
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. 
    This is free software, and you are welcome to redistribute it 
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate 
parts of the General Public License. Of course, the commands you use may 
be called something other than `show w' and `show c'; they could even be 
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your 
school, if any, to sign a "copyright disclaimer" for the program, if 
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program 
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989 
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into 
proprietary programs. If your program is a subroutine library, you may 
consider it more useful to permit linking proprietary applications with the 
library. If this is what you want to do, use the GNU Lesser General 
Public License instead of this License.

1.45 libksba 1.3.5 7.el8
1.45.1 Available under license:

GNU GENERAL PUBLIC LICENSE
    Version 3, 29 June 2007
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in
source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, selling, offering for sale, or importing the Program or any portion of it.
patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that oblige you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  2315
KSBA is distributed under mixed GPL and LGPL licenses. Please see the file AUTHOR for details. The text of the used licenses can be found in the files:

COPYING.LGPLv3
COPYING.GPLv3
COPYING.GPLv2

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:
a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)


You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.46 squashfs-tools 4.3-20.el8

1.46.1 Available under license:

**GNU GENERAL PUBLIC LICENSE**

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.47 xfsdump 3.1.8 2.el8
1.47.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It was downloaded from ftp://oss.sgi.com/projects/xfs/download/
Copyright:

Copyright (c) 2000-2002 Silicon Graphics, Inc. All Rights Reserved.

You are free to distribute this software under the terms of the GNU General Public License. On Debian systems, the complete text of the GNU General Public License can be found in /usr/share/common-licenses/GPL file.

<http://www.fsf.org/copyleft/gpl.txt>

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2339
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty: and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items—whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.48 pam 1.3.1-14.el8
1.48.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_policy.h : includes for onep pam related
 *      routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_policy.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
 * pam_client_typedef.h
 * 
 * Aug 2011, c3pl-dev
 * 
 * Copyright (c) 2011 by Cisco Systems, Inc.
No license file was found, but licenses were detected in source scan.

No license file was found, but licenses were detected in source scan.

No license file was found, but licenses were detected in source scan.
* Aug 2011, c3pl-dev
*
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------*/

Found in path(s):
/ /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_db_typedef.h
No license file was found, but licenses were detected in source scan.

##
## Sub-Component "c3pl/client/pam":
##
## C3PL Client Policy Abstraction Module
##
## Author: c3pl-dev
## Date: June 2011
##
## Copyright (c) 2011 by cisco Systems, Inc.
## All rights reserved.
##
syntax: 1.0.0

group: generic
{

   enum:
      internal_inc/enum/pam_class.enum
      internal_inc/enum/pam_client.enum
      internal_inc/enum/pam_obj.enum
      internal_inc/enum/pam_policy.enum
}

group: top
{
   includes: $(COMPONENT_ROOT)/posix/include
   sub: c3pl_pam
   {
      contains:
         pam/src/pam_app_data_db.c
         pam/src/pam_app_db.c
         pam/src/pam_hdl.c
         pam/src/pam_provision.c
   }
}
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/content.lst
No license file was found, but licenses were detected in source scan.

/*
* $Id$
* $Source$
* *------------------------------------------------------------------
* pam_app_data_db.c : pam app data db implementation routines
* *
* Aug 2011, c3pl-dev
* *
* Copyright (c) 2011 by cisco Systems, Inc.
* * All rights reserved.
* *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_app_data_db.c
No license file was found, but licenses were detected in source scan.

#------------------------------------------------------------------
# pam_client.enum -- PAM client type enumerations
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 by cisco Systems, Inc.
# All rights reserved.
#------------------------------------------------------------------

BEGIN PAM_CLIENT_ENUM

ENUM pam_client_type

  # String to dump for debug commands.
  ATTRIBUTE pam_client_debug
    TYPE char*
  END ATTRIBUTE

  # String to be reserved as name prefix.
  ATTRIBUTE pam_client_prefix
    TYPE char*
  END ATTRIBUTE

ITEM PAM_CLIENT_ONEP
  LONG "ONEP"
  SHORT "ONEP"
  ATTRIBUTE[pam_client_debug] "ONEP"
  ATTRIBUTE[pam_client_prefix] "ONEP"

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2344
/*Aug 2011, c3pl-dev*/

* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

/* January 2011, c3pl-dev
*"*/

* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

/* Branch:
*------------------------------------------------------------------
*/

/* $Id$
* $Source$
*/

/* $Id$
* $Source$
*/
BEGIN PAM_EXCEPTION_ENUM

ENUM pam_exception_type

    # String to dump for debug commands.
    ATTRIBUTE pam_exception_debug
        TYPE char*
    END ATTRIBUTE

ITEM PAM_OK
    LONG    ""
    SHORT   "OK 
    ATTRIBUTE[pam_exception_debug]    "OK"
END ITEM

ITEM PAM_INVLD_HDL
    LONG    ""
    SHORT   "INVLD_HDL 
    ATTRIBUTE[pam_exception_debug]    "INVALID_HANDLE"
END ITEM

ITEM PAM_INVLD_ATTR
    LONG    ""
    SHORT   "INVLD_ATTR 
    ATTRIBUTE[pam_exception_debug]    "INVALID_ATTRIBUTE"
END ITEM

ITEM PAM_APPID_NO_MATCH
ITEM PAM_SYS_NOMEM
LONG ""
SHORT "SYS_NOMEM"
ATTRIBUTE[pam_exception_debug] "SYSTEM_NO_MEMORY"
END ITEM

ITEM PAM_ADD_ACTION_FAIL
LONG ""
SHORT "ADD_ACTION_FAIL"
ATTRIBUTE[pam_exception_debug] "ADD_ACTION_FAILED"
END ITEM

ITEM PAM_RM_ACTION_FAIL
LONG ""
SHORT "RM_ACTION_FAIL"
ATTRIBUTE[pam_exception_debug] "REMOVE_ACTION_FAILED"
END ITEM

ITEM PAM_ATTACH_POL_FAIL
LONG ""
SHORT "ATTACH_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "ATTACH_POLICY_FAILED"
END ITEM

ITEM PAM_DETACH_POL_FAIL
LONG ""
SHORT "DETACH_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "DETACH_POL_FAILED"
END ITEM

ITEM PAM_STORE_POL_FAIL
LONG ""
SHORT "STORE_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "STORE_POLICY_FAILED"
END ITEM

ITEM PAM_DEL_POL_FAIL
LONG ""
SHORT "DEL_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "DELETE_POLICY_FAILED"
END ITEM

ITEM PAM_ADD_CLS_FAIL
ITEM PAM_ADD_CLS_FAIL
  LONG ""
  SHORT "ADD_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug] "ADD_CLASS_FAILED"
END ITEM

ITEM PAM_DEL_CLS_FAIL
  LONG ""
  SHORT "DEL_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug] "DELETE_CLASS_FAILED"
END ITEM

ITEM PAM_ERR_CLASS_IN_USE
  LONG ""
  SHORT "ERR_CLASS_IN_USE"
  ATTRIBUTE[pam_exception_debug] "ERR_CLASS_IN_USE"
END ITEM

ITEM PAM_STORE_CLS_FAIL
  LONG ""
  SHORT "STORE_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug] "STORE_CLASS_FAILED"
END ITEM

ITEM PAM_QUERY_CLS_FAIL
  LONG ""
  SHORT "QUERY_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug] "QUERY_CLASS_FAILED"
END ITEM

ITEM PAM_QUERY_POL_FAIL
  LONG ""
  SHORT "QUERY_POL_FAIL"
  ATTRIBUTE[pam_exception_debug] "QUERY_POLICY_FAILED"
END ITEM

ITEM PAM_POL_NOT_FOUND
  LONG ""
  SHORT "POL_NOT_FOUND"
  ATTRIBUTE[pam_exception_debug] "POLICY_NOT_FOUND"
END ITEM

ITEM PAM_ADD_FILTER_FAIL
  LONG ""
  SHORT "ADD_FILTER_FAIL"
  ATTRIBUTE[pam_exception_debug] "ADD_FILTER_FAIL"
END ITEM

ITEM PAM_RM_FILTER_FAIL
ITEM PAM_ADD_CLD_POL_FAIL
LONG ""
SHORT "ADD_CHILD_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "ADD_CHILD_POL_FAIL"
END ITEM

ITEM PAM_DTH_CLD_POL_FAIL
LONG ""
SHORT "DETACH_CHILD_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "DETACH_CHILD_POL_FAIL"
END ITEM

ITEM PAM_RETRV_CHLD_POL_FAIL
LONG ""
SHORT "RETRIEVE_CHILD_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "RETRIEVE_CHILD_POL_FAIL"
END ITEM

ITEM PAM_DEL_PARTIAL
LONG ""
SHORT "DELETE_PARTIAL"
ATTRIBUTE[pam_exception_debug] "DELETE_PARTIAL"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/enum/pam_exception.enum

No license file was found, but licenses were detected in source scan.

/------------------------------------------------------------------
* pam_app_data_db_typedef.h
* 
* Aug 2011, c3pl-dev
* 
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_hdl.c : pam hdl api implementation
 * routines
 * Aug 2011, c3pl-dev
 *
 * Copyright (c) 2011-2012 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_hdl.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_target.h : includes for onep pam related
 * routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_target.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
 * pam_class_typedef.h
 *
 * Aug 2011, c3pl-dev
 *
 * Copyright (c) 2011 by Cisco Systems, Inc.
 * All rights reserved
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_class_typedef.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *-----------------------------------------------------------------------
 * pam_types.h : includes for onep pam related
 *               routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_types.h

No license file was found, but licenses were detected in source scan.

/*
 * $Id$
 * $Source$
 *-----------------------------------------------------------------------
 * pam_app_db.c : pam app db api implementation
 *               routines
 * Aug 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_app_db.c

No license file was found, but licenses were detected in source scan.

/*
 * $Id$
 * $Source$
 *-----------------------------------------------------------------------
 * pam_provision.c : pam provision api implementation
 *               routines
 * Aug 2011, c3pl-dev
 *
 * Copyright (c) 2011, 2018 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------------------------------
 */
BEGIN PAM_POLICY_ENUM

ENUM pam_policy_type

# String to dump for debug commands.
ATTRIBUTE pam_policy_debug
    TYPE char*
END ATTRIBUTE

ITEM PAM_POLICY_QOS
    LONG ""
    SHORT "QOS"
    ATTRIBUTE[pam_policy_debug] "QOS"
END ITEM

ITEM PAM_POLICY_PSP
    LONG ""
    SHORT "PSP"
    ATTRIBUTE[pam_policy_debug] "PSP"
END ITEM

END ENUM

END
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_data_db_types.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_hdl.h: Function declarations for manipulating handles
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_hdl.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_app_db.h: Function delcarations for manipulating the PAM APP DB
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_db.h
No license file was found, but licenses were detected in source scan.

#-----------------------------
# pam_obj.enum -- PAM obj type enumerations
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 by cisco Systems, Inc.
# All rights reserved.
#-----------------------------

BEGIN PAM_OBJ_ENUM

ENUM pam_obj_type
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_obj_typedef.h
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_action.c
No license file was found, but licenses were detected in source scan.

BEGIN PAM_CLASS_ENUM

ENUM pam_class_type

# String to dump for debug commands.
ATTRIBUTE pam_class_debug
    TYPE char*
END ATTRIBUTE

ITEM PAM_CLASS_QOS
    LONG ""
    SHORT "QOS"
    ATTRIBUTE[pam_class_debug] "QOS"
END ITEM

END ENUM
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_class.enum
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_hdl_types.h: Pertaining to PAM handles
* Aug 2011, c3pl-dev
* Copyright (c) 2011-2012 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_hdl_types.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *-----------------------------------------------------------------------
* pam_ppm_shim.c : This file has routines which will be called
* to intercept the ppm invocation. These routines
* call the PAM apis which in turn call the PPM apis
* June 2011, c3pl-dev
* Copyright (c) 2011 by cisco Systems, Inc.
* All rights reserved.
 *-----------------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/src/pam_ppm_shim.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *-----------------------------------------------------------------------
* pam_class.c : pam class api implementation
* routines
* June 2011, c3pl-dev
* Copyright (c) 2011, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
 *-----------------------------------------------------------------------
1.49 fcntl 1.0.0

1.49.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.50 ocaml-srpm-macros 5-4.el8

1.50.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to 
exercise the right to control the distribution of derivative or 
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program 
with the Program (or with a work based on the Program) on a volume of 
a storage or distribution medium does not bring the other work under 
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, 
under Section 2) in object code or executable form under the terms of 
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable 
source code, which must be distributed under the terms of Sections 
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three 
years, to give any third party, for a charge no more than your 
cost of physically performing source distribution, a complete 
machine-readable copy of the corresponding source code, to be 
distributed under the terms of Sections 1 and 2 above on a medium 
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer 
to distribute corresponding source code. (This alternative is 
allowed only for noncommercial distribution and only if you 
received the program in object code or executable form with such 
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for 
making modifications to it. For an executable work, complete source 
code means all the source code for all modules it contains, plus any 
associated interface definition files, plus the scripts used to 
control compilation and installation of the executable. However, as a 
special exception, the source code distributed need not include 
anything that is normally distributed (in either source or binary 
form) with the major components (compiler, kernel, and so on) of the 
operating system on which the executable runs, unless that component 
itself accompanies the executable.

If distribution of executable or object code is made by offering 
access to copy from a designated place, then offering equivalent 
access to copy the source code from the same place counts as 
distribution of the source code, even though third parties are not 
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2365
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.51 perl-parent 0.237-1.el8

1.51.1 Available under license:

No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/perl-parent.spec

No license file was found, but licenses were detected in source scan.

---

abstract: 'Establish an ISA relationship with base classes at compile time'
author:
  - 'Max Maischein <corion@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: parent
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0.4'
  perl: '5.006'
resources:
  repository: https://github.com/Corion/parent
version: '0.237'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/parent-0.237/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from
those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
  require Foo;
  require Bar;
  push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you
can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within a differently named file:

package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that \texttt{C<require>} would not consider an eligible filename (that is, it does not end in either \texttt{C<.pm>} or \texttt{C<.pmc>}), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 HISTORY
This module was forked from L<base> to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO
L<base>

=head1 AUTHORS AND CONTRIBUTORS
Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER
Max Maischein C< corion@cpan.org >

Copyright (c) 2007-2017 Max Maischein C<< corion@cpan.org >>
Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

=head1 LICENSE
This module is released under the same terms as Perl itself.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/parent-0.237/lib/parent.pm

1.52 libteam 1.31 2.el8

1.52.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification"."

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

**1.53 json 2.1.0**

**1.53.1 Available under license :**

No license file was found, but licenses were detected in source scan.

Internet Engineering Task Force (IETF) T. Bray, Ed.
Request for Comments: 7159 Google, Inc.
Obsoletes: 4627, 7158 March 2014
Category: Standards Track
ISSN: 2070-1721

The JavaScript Object Notation (JSON) Data Interchange Format
Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.
1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future
changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.

The terms "object" and "array" come from the conventions of JavaScript.

JSON's design goals were for it to be minimal, portable, textual, and a subset of JavaScript.

1.1. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability
problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

JSON-text = ws value ws

These are the six structural characters:

  begin-array     = ws %x5B ws ; [ left square bracket
  begin-object    = ws %x7B ws ; { left curly bracket
  end-array       = ws %x5D ws ; ] right square bracket
  end-object      = ws %x7D ws ; } right curly bracket
  name-separator  = ws %x3A ws ; : colon
  value-separator = ws %x2C ws ; , comma

Insignificant whitespace is allowed before or after any of the six structural characters.

ws = *(  

<table>
<thead>
<tr>
<th>Bray</th>
<th>Standards Track</th>
<th>[Page 4]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFC 7159</td>
<td>JSON</td>
<td>March 2014</td>
</tr>
</tbody>
</table>
3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string

false = \x66.61.6c.73.65 ; false
null  = \x6e.75.6c.6c ; null
true  = \x74.72.75.65 ; true

4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

object = begin-object [ member *( value-separator member ) ]
        end-object

member = string name-separator value

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not
unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

array = begin-array [ value *( value-separator value ) ] end-array

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.

number = [ minus ] int [ frac ] [ exp ]
decimal-point = %x2E ; .
digit1-9 = %x31-39 ; 1-9
e = %x65 / %x45 ; e E
exp = e [ minus / plus ] 1*DIGIT
frac = decimal-point 1*DIGIT
int = zero / ( digit1-9 *DIGIT )
minus = %x2D ; -
plus = %x2B ; +
zero = %x30 ; 0

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range [-(2**53)+1, (2**53)-1] are interoperable in the sense that implementations will agree exactly on their numeric values.
7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as \\.

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark

char = unescaped / escape ( %x22 / ; " quotation mark U+0022
      %x5C / ; \ reverse solidus U+005C
      %x2F / ; / solidus U+002F
      %x62 / ; b backspace U+0008
      %x66 / ; f form feed U+000C
      %x6E / ; n line feed U+000A
      %x72 / ; r carriage return U+000D
      %x74 / ; t tab U+0009
      %x75 4HEXDIG ) ; uXXXX U+XXXX

escape = %x5C ; \n
quotation-mark = %x22 ; "

unescaped = %x20-21 / %x23-5B / %x5D-10FFFF
```
8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are
interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.

9.  Parsers

A JSON parser transforms a JSON text into another representation. A JSON parser MUST accept all texts that conform to the JSON grammar. A JSON parser MAY accept non-JSON forms or extensions.

An implementation may set limits on the size of texts that it accepts. An implementation may set limits on the maximum depth of nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10.  Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11.  IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.
Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:
JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.

Bray Standards Track [Page 10]
RFC 7159 JSON March 2014

Additional information:
Magic number(s): n/a
File extension(s): .json
Macintosh file type code(s): TEXT

Person & email address to contact for further information:
IESG
<iesg@ietf.org>

Intended usage: COMMON

Restrictions on usage: none

Author:
Douglas Crockford
<douglas@crockford.com>

Change controller:
IESG
<iesg@ietf.org>

Note: No "charset" parameter is defined for this registration.
Adding one really has no effect on compliant recipients.
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.

13. Examples

This is a JSON object:

```json
{
  "Image": {
    "Width": 800,
    "Height": 600,
    "Title": "View from 15th Floor",
    "Thumbnail": {
      "Url": "http://www.example.com/image/481989943",
      "Height": 125,
      "Width": 100
    },
    "Animated": false,
    "IDs": [116, 943, 234, 38793]
  }
}```
Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```json
[{
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
    "Zip": "94107",
    "Country": "US"
}, {
    "precision": "zip",
    "Latitude": 37.371991,
    "Longitude": -122.026020,
    "Address": "",
    "City": "SUNNYVALE",
    "State": "CA",
    "Zip": "94085",
    "Country": "US"
}
]
```

Here are three small JSON texts containing only values:

"Hello world!"

42

ture
14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


Bray Standards Track [Page 13]

RFC 7159 JSON March 2014

Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.
- Clarified the absence of a requirement that values in an array be of the same JSON type.
- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".
- Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.
- Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.
- Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".
- Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.
- Updated and tidied the "IANA Considerations" section.

- Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

- Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

- Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

- Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

- Changed "100" to 100 and added a boolean field, both in the first example.

- Added examples of JSON texts with simple values, neither objects nor arrays.

- Added a "Contributors" section crediting Douglas Crockford.

- Added a reference to RFC 4627.

- Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

**Author's Address**

Tim Bray (editor)
Google, Inc.

EMail: tbray@textuality.com
Bray Standards Track [Page 16]

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/references/rfc7159.txt
No license file was found, but licenses were detected in source scan.

* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.rl
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
 * Disclaimer
 * 
 * This source code is provided as is by Unicode, Inc. No claims are
 * made as to fitness for any particular purpose. No warranties of any
 * kind are expressed or implied. The recipient agrees to determine
 * applicability of information provided. If this file has been
 * purchased on magnetic or optical media from Unicode, Inc., the
 * sole remedy for any claim will be exchange of defective media
 * within 90 days of receipt.
 * 
 * Limitations on Rights to Redistribute This Code
 */
* Unicode, Inc. hereby grants the right to freely use the information
* supplied in this file in the creation of products supporting the
* Unicode Standard, and to make copies of this file in any form
* for internal or external distribution as long as this notice
* remains attached.
*/

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/ext/json/ext/generator/generator.c

No license file was found, but licenses were detected in source scan.

# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation.
  I changed these mentions to be consistent with the Ruby license setting in
the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafontune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make `serialize :some_attribute, `JSON::GenericObject` work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and `JSON::GenericObject`. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to be automatically deserialised, this has to be explicitly enabled by setting `JSON::GenericObject.json_creatable = true` as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.
## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix https://github.com/flori/json/issues#issue/119.
* Fix https://github.com/flori/json/issues#issue/117

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load()` return nil as well to make mysql text columns (default to `""`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize method. Just use:

        serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:

    https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue

    https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.
## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with 'to_json' method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <cl.github@niftybox.net> in order to allow building of json_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261ecb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a 'State[|]' method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.
## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of `/` characters in the generator's output. The parsers aren't affected by this change. Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the `max_nesting` feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `{ ... }` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (\t\n\r), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases generate and `pretty_generate` of unparse and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/-characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/CHANGES.md
No license file was found, but licenses were detected in source scan.

/* Portions of the Selector class are derived from Jack Slocum’s DomQuery,
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style
* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/data/prototype.js
No license file was found, but licenses were detected in source scan.

/*
* This code is copyrighted work by Daniel Luz <dev at mernen dot com>.
*
* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt
*/

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/RuntimeInfo.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/StringEncoder.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.java
1.54 iptstate 2.2.6 6.el8

1.54.1 Available under license:

IP Tables State (iptstate)

Copyright (C) 2002 - present Phil Dibowitz

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

-----------------------------------

NOTE: If you are planning on packaging and/or submitting my software for/to a Linux distribution, I would appreciate a heads up.

There is already an official maintainer for most popular distributions, see the
CONTRIB file for details.

Phil Dibowitz
phil AT ipom DOT com

1.55 fuse 2.9.7 12.el8
1.55.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

  e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.56 strscan 3.0.0

1.56.1 Available under license:

No license file was found, but licenses were detected in source scan.

/*
   $Id$

Copyright (c) 1999-2006 Minero Aoki

This program is free software.
You can redistribute this program under the terms of the Ruby's or 2-clause
BSD License. For details, see the COPYING and LICENSE.txt files.

*/

Found in path(s):
* /opt/cola/permits/1192561934_1631929609.55/0/strscan-3-0-0-gem/data-tar-gz/ext/strscan/strscan.c

1.57 hardlink 1.3 6.el8

1.57.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.58 readline 7.0 10.el8
1.58.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether
    gratis or for a fee, you must give the recipients all the rights that
    you have. You must make sure that they, too, receive or can get the
    source code. And you must show them these terms so they know their
    rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.

    Finally, any free program is threatened constantly by software
    patents. We wish to avoid the danger that redistributors of a free
    program will individually obtain patent licenses, in effect making the
    program proprietary. To prevent this, we have made it clear that any
    patent must be licensed for everyone's free use or not licensed at all.

    The precise terms and conditions for copying, distribution and
    modification follow.

    GNU GENERAL PUBLIC LICENSE
    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

    0. This License applies to any program or other work which contains
    a notice placed by the copyright holder saying it may be distributed
    under the terms of this General Public License. The "Program", below,
    refers to any such program or work, and a "work based on the Program"
    means either the Program or any derivative work under copyright law:
    that is to say, a work containing the Program or a portion of it,
    either verbatim or with modifications and/or translated into another
    language. (Hereinafter, translation is included without limitation in
    the term "modification".) Each licensee is addressed as "you".

    Activities other than copying, distribution and modification are not
    covered by this License; they are outside its scope. The act of
    running the Program is not restricted, and the output from the Program
    is covered only if its contents constitute a work based on the
    Program (independent of having been made by running the Program).
    Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it.
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.
"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section
7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object
If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under 
this License (including any patent licenses granted under the third 
paragraph of section 11).

However, if you cease all violation of this License, then your 
license from a particular copyright holder is reinstated (a) 
provisionally, unless and until the copyright holder explicitly and 
finally terminates your license, and (b) permanently, if the copyright 
holder fails to notify you of the violation by some reasonable means 
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is 
reinstated permanently if the copyright holder notifies you of the 
violation by some reasonable means, this is the first time you have 
received notice of violation of this License (for any work) from that 
copyright holder, and you cure the violation prior to 30 days after 
your receipt of the notice.

Termination of your rights under this section does not terminate the 
licenses of parties who have received copies or rights from you under 
this License. If your rights have been terminated and not permanently 
reinstated, you do not qualify to receive new licenses for the same 
material under section 10.


You are not required to accept this License in order to receive or 
rune a copy of the Program. Ancillary propagation of a covered work 
occurring solely as a consequence of using peer-to-peer transmission 
to receive a copy likewise does not require acceptance. However, 
nothing other than this License grants you permission to propagate or 
modify any covered work. These actions infringe copyright if you do 
do not accept this License. Therefore, by modifying or propagating a 
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically 
receives a license from the original licensors, to run, modify and 
propagate that work, subject to this License. You are not responsible 
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an 
anorganization, or substantially all assets of one, or subdividing an 
anorganization, or merging organizations. If propagation of a covered 
work results from an entity transaction, each party to that 
transaction who receives a copy of the work also receives whatever 
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to make such an agreement or commitment not to enforce a patent against the party.
license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
center Version 1.3, 3 November 2008
@c This file is intended to be included within another document,
c hence no sectioning command or @node.

center
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible
This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

**APPLICABILITY AND DEFINITIONS**

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain \texttt{ascii} without markup, Texinfo input format, \LaTeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'',

---

\textbf{Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2458}
"Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.
If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

Include an unaltered copy of this License.

Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.
Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.
The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}. Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the \`\`with@dots{}Texts.@text{" line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
1.59 libpaper 1.1.24-22.el8

1.59.1 Available under license:

Copyright (C) 1995, 1996, Yves Arrouye <yves@debian.org>
2000, 2001, Adrian Bunk <bunk@fs.tum.de>

Contributions during 2001-2006 are from Debian maintainers:
Stephen Zander
Fabio M. Di Nitto
Frank Lichtenheld
Giuseppe Sacco

This package and its included files may be redistributed under the terms of the GNU General Public License, a copy of which should be found in the file GPL of the source package, or in /usr/share/common-licenses/GPL in a Debian GNU/Linux system.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable
      source code, which must be distributed under the terms of Sections
      1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
      years, to give any third party, for a charge no more than your
      cost of physically performing source distribution, a complete
      machine-readable copy of the corresponding source code, to be
      distributed under the terms of Sections 1 and 2 above on a medium
      customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
      to distribute corresponding source code. (This alternative is
      allowed only for noncommercial distribution and only if you
      received the program in object code or executable form with such
      an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it.
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<s>signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.60 d-bus 1.12.8-12.el8_4.2
1.60.1 Available under license :

D-Bus is licensed to you under your choice of the Academic Free License version 2.1, or the GNU General Public License version 2 (or, at your option any later version).

Both licenses are included here. Some of the standalone binaries are under the GPL only; in particular, but not limited to, tools/dbus-cleanup-sockets.c and test/decode-gcov.c. Each source code file is marked with the proper copyright information - if you find a file that isn't marked please bring it to our attention.

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable
license to do the following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original Work;

c) to distribute copies of the Original Work and Derivative Works to the public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.
6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately proceeding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights
10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not
otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--
END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses.

* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice, but the BSD, MIT and UoI/NCSA licenses do not.

--
START OF GNU GENERAL PUBLIC LICENSE
--
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.61 python-lxml 4.2.3-2.el8

1.61.1 Available under license:
Zope Public License (ZPL) Version 2.0

This software is Copyright (c) Zope Corporation (tm) and Contributors. All rights reserved.

This license has been certified as open source. It has also been designated as GPL compatible by the Free Software Foundation (FSF).

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source code must retain the above copyright notice, this list of conditions, and the following
disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name Zope Corporation (tm) must not be used to endorse or promote products derived from this software without prior written permission from Zope Corporation.

4. The right to distribute this software or to use it for any purpose does not give you the right to use Servicemarks (sm) or Trademarks (tm) of Zope Corporation. Use of them is covered in a separate agreement (see http://www.zope.com/Marks).

5. If any files are modified, you must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

Disclaimer

THIS SOFTWARE IS PROVIDED BY ZOPE CORPORATION ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ZOPE CORPORATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of contributions made by Zope Corporation and many individuals on behalf of Zope Corporation. Specific attributions are listed in the accompanying credits file.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
The ElementTree / XML Toys Library is

Copyright (c) 1999-2003 by Secret Labs AB
Copyright (c) 1999-2003 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
associated documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appears in all
copies, and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of Secret Labs
AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

lxml is copyright Infrae and distributed under the BSD license (see
doc/licenses/BSD.txt), with the following exceptions:

Some code, such as selftest.py, selftest2.py and
src/lxml/_elementpath.py are derived from ElementTree and
cElementTree. See doc/licenses/elementtree.txt for the license text.

lxml.cssselect and lxml.html are copyright Ian Bicking and distributed
under the BSD license (see doc/licenses/BSD.txt).

test.py, the test-runner script, is GPL and copyright Shuttleworth
Foundation. See doc/licenses/GPL.txt. It is believed the unchanged
inclusion of test.py to run the unit test suite falls under the
"aggregation" clause of the GPL and thus does not affect the license
of the rest of the package.

The isoschematron implementation uses several XSL and RelaxNG resources:
* The (XML syntax) RelaxNG schema for schematron, copyright International
  Organization for Standardization (see
  src/lxml/isoschematron/resources/rng/iso-schematron.rng for the license
  text)
* The skeleton iso-schematron-xslt1 pure-xslt schematron implementation
  xsl stylesheets, copyright Rick Jelliffe and Academia Sinica Computing
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of Infrae nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INFRAE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.63 etc 1.0.0

1.63.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ,, AS IS,, AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.64 Isof 4.93.2-1.el8
1.64.1 Available under license:

Found license 'General Public License 2.0' in '# This program/include file is free software; you can redistribute it and/or # modify it under the terms of the GNU General Public License as published # by the Free Software Foundation; either version 2 of the License, or # (at your option) any later version. # useful, but WITHOUT ANY WARRANTY; without even the implied warranty # of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the # GNU General Public License for more details. # You should have received a copy of the GNU General Public License # along with this program (in the main directory of the Linux-NTFS' Found license 'General Public License 2.0' in '* 47907.  All rights reserved. * Permission is granted to anyone to use this software for any purpose on * 1. Neither the authors nor Purdue University are responsible for any * 2. The origin of this software must not be misrepresented, either by * 3. Altered versions must be plainly marked as such, and must not be * 4. This notice may not be removed or altered. The GNU C Library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version. The GNU C Library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details. You should have received a copy of the GNU Library General Public License along with the GNU C Library; see the file COPYING.LIB. If not, Boston, MA 02111-1307, USA. */

1.65 cryptography 3.4.7

1.65.1 Available under license:

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are made under the terms of *both* these licenses.

The code used in the OS random engine is derived from CPython, and is licensed under the terms of the PSF License Agreement.

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are made under the terms of *both* these licenses.

Copyright (c) Individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of PyCA Cryptography nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 2.7.12 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 2.7.12 alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright 2001-2016 Python Software Foundation; All Rights Reserved" are retained in Python 2.7.12 alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 2.7.12 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.
8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees to be bound by the terms and conditions of this License Agreement.

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[[]]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.66 pygobject 3.28.3 2.el8

1.66.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
   Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
   51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 2516
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
pygobject.svg and pygobject-small.svg are based on the GTK+ logo, created by
Andreas Nilsson, licensed under CC BY-SA 3.0. For more info see
https://commons.wikimedia.org/wiki/File:GTK%2B_logo.svg

1.67 libnfnetlink 1.0.1 13.el8
1.67.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

ONE LINE TO GIVE THE PROGRAM'S NAME AND A BRIEF IDEA OF WHAT IT DOES.

COPYRIGHT (C) 19yy NAME OF AUTHOR

THIS PROGRAM IS FREE SOFTWARE; YOU CAN REDISTRIBUTE IT AND/OR MODIFY IT UNDER THE TERMS OF THE GNU GENERAL PUBLIC LICENSE AS PUBLISHED BY THE FREE SOFTWARE FOUNDATION; EITHER VERSION 2 OF THE LICENSE, OR (AT YOUR OPTION) ANY LATER VERSION.

THIS PROGRAM IS DISTRIBUTED IN THE HOPE THAT IT WILL BE USEFUL, BUT WITHOUT ANY WARRANTY; WITHOUT EVEN THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SEE THE GNU GENERAL PUBLIC LICENSE FOR MORE DETAILS.

YOU SHOULD HAVE RECEIVED A COPY OF THE GNU GENERAL PUBLIC LICENSE ALONG WITH THIS PROGRAM; IF NOT, WRITE TO THE FREE SOFTWARE FOUNDATION, INC., 675 MASS AVE, CAMBRIDGE, MA 02139, USA.

ALSO ADD INFORMATION ON HOW TO CONTACT YOU BY ELECTRONIC AND PAPER MAIL.

IF THE PROGRAM IS INTERACTIVE, MAKE IT OUTPUT A SHORT NOTICE LIKE THIS WHEN IT STARTS IN AN INTERACTIVE MODE:

GNOMOVISION VERSION 69, COPYRIGHT (C) 19yy NAME OF AUTHOR
GNOMOVISION COMES WITH ABSOLUTELY NO WARRANTY; FOR DETAILS TYPE `SHOW W'.
THIS IS FREE SOFTWARE, AND YOU ARE WELCOME TO REDISTRIBUTE IT UNDER CERTAIN CONDITIONS; TYPE `SHOW C' FOR DETAILS.

THE HYPOTHETICAL COMMANDS `SHOW W' AND `SHOW C' SHOULD SHOW THE APPROPRIATE PARTS OF THE GENERAL PUBLIC LICENSE. OF COURSE, THE COMMANDS YOU USE MAY BE CALLED SOMETHING OTHER THAN `SHOW W' AND `SHOW C'; THEY COULD EVEN BE MOUSE-CLICKS OR MENU ITEMS--WHATEVER SUITS YOUR PROGRAM.

YOU SHOULD ALSO GET YOUR EMPLOYER (IF YOU WORK AS A PROGRAMMER) OR YOUR SCHOOL, IF ANY, TO SIGN A "COPYRIGHT DISCLAIMER" FOR THE PROGRAM, IF NECESSARY. HERE IS A SAMPLE; ALTER THE NAMES:

YOYODYNE, INC., HEREBY DISCLAIMS ALL COPYRIGHT INTEREST IN THE PROGRAM 'GNOMOVISION' (WHICH MAKES PASSES AT COMPILERS) WRITTEN BY JAMES HACKER.

SIGNATURE OF TY COON>, 1 APRIL 1989
TY COON, PRESIDENT OF VICE

THIS GENERAL PUBLIC LICENSE DOES NOT PERMIT INCORPORATING YOUR PROGRAM INTO
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.68 selinux-policy 3.14.3-67.el8_4.1
1.68.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.69 pinfo 0.6.10-18.el8
1.69.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
everyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
END OF TERMS AND CONDITIONS

1.70 builder 3.2.2

1.70.1 Available under license:

The MIT License (MIT)

Copyright (c) 2015-2016 Formidable Labs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.71 python-webencodings 0.5.1-6.el8

1.71.1 Available under license:

Copyright (c) 2012 by Simon Sapin.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.72 bash 4.4.20-1.el8_4
1.72.1 Available under license:

GNU Free Documentation License
Version 1.3, 3 November 2008

<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.
This License is a kind of “copyleft”, which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.
The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using
public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.
I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If
there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retile any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",
"Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.
"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users.
beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
@c The GNU Free Documentation License.  
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,  
@c hence no sectioning command or @node.

@display  
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
@end display

@enumerate 0
@item

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain
without markup, Texinfo input format, \TeX{} input format, \texttt{ascii} using a publicly available
\LaTeX{} input format, \texttt{SGML} or \texttt{XML} using a publicly available
\texttt{DTD}, and standard-conforming simple \texttt{HTML},
PostScript or \texttt{PDF} designed for human modification. Examples
of transparent image formats include \texttt{PNG}, \texttt{XCF} and
\texttt{JPG}. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, \texttt{SGML} or
\texttt{XML} for which the \texttt{DTD} and/or processing tools are
not generally available, and the machine-generated \texttt{HTML},
PostScript or \texttt{PDF} produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

\item Verbatim Copying

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item Preserve all the copyright notices of the Document.

@item Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item Include an unaltered copy of this License.

@item Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the `History` section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled `Acknowledgements` or `Dedications`, Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled `Endorsements`. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled `Endorsements` or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled `Endorsements`, provided it contains
nothing but endorsements of your Modified Version by various
parties—for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.
You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History’’ in the various original documents, forming one section Entitled ``History’’; likewise combine any sections Entitled “Acknowledgements”, and any sections Entitled “Dedications”. You must delete all sections Entitled “Endorsements.”

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.
You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",
"Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Document.
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU General Public License''.
Free Documentation License”.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `\`with@dots{ }Texts.” line with this:

@smallexample
@group
with the Invariant Sections being \var{list their titles}, with
the Front-Cover Texts being \var{list}, and with the Back-Cover Texts
being \var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Free Software Foundation, Inc.

See the file COPYING in the bash distribution root directory for copying and usage restrictions.

The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.

1.73 json 2.5.1
1.73.1 Available under license :

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the 2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

   b) use the modified software only within your corporation or organization.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

   a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

   b) accompany the distribution with the machine-readable source of the software.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
1.74 date 1.0.0

1.74.1 Available under license:

No license file was found, but licenses were detected in source scan.

// The MIT License (MIT)
// Permission is hereby granted, free of charge, to any person obtaining a copy
// of this software and associated documentation files (the "Software"), to deal
// to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
// furnished to do so, subject to the following conditions:
// The above copyright notice and this permission notice shall be included in all
// copies or substantial portions of the Software.

Found in path(s):
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/test/date_test/time_of_day_milliseconds.pass.cpp
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/test/date_test/op_div_month_month.fail.cpp
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/test/date_test/time_of_day_hours.pass.cpp
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/tz.h
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/tz_private.h
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/tz_h
* /opt/cola/permissions/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/tz_private.h
No license file was found, but licenses were detected in source scan.

# This work is licensed under a Creative Commons Attribution 4.0 International License.

Found in path(s):
1.75 lcms 2.9-2.el8

1.75.1 Available under license:

Little CMS
Copyright (c) 1998-2011 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

THIS LICENSE APPLIES ONLY TO iccjpeg.c file

-----

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
lntmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

1.76 kpatch 0.2-3.el8
1.76.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.77 npth 1.5 4.el8
1.77.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

---

1.78 talloc 2.3.1-2.el8

1.78.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:
a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

### 1.79 dos2unix 7.4.0 3.el8

#### 1.79.1 Available under license:

The dos2unix package is distributed under FreeBSD style license. See also http://www.freebsd.org/copyright/freebsd-license.html

---------

Copyright (C) 2009-2016 Erwin Waterlander
Copyright (C) 1998 Christian Wurll
Copyright (C) 1998 Bernd Johannes Wuebben
Copyright (C) 1994-1995 Benjamin Lin.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.80 copy-jdk-configs 3.7-4.el8

1.80.1 Available under license:

Copyright (c) 2015 Red Hat inc.
All rights reserved.

Redistribution and use in source and binary forms are permitted provided that the above copyright notice and this paragraph are duplicated in all such forms and that any documentation, advertising materials, and other materials related to such distribution and use acknowledge that the software was developed by the Red Hat inc. The name of the Red Hat inc. may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.81 builder 3.2.4-1.ph4

1.81.1 Available under license:

Copyright (c) 2003-2012 Jim Weirich (jim.weirich@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
1.82 openblas-srpm-macros 2-2.el8

1.82.1 Available under license:

No license file was found, but licenses were detected in source scan.

Name: openblas-srpm-macros
Version: 2
Release: 2%{?dist}
Summary: OpenBLAS architecture macros
Group: Development/Libraries
License: MIT
Source0: macros.openblas-srpm
BuildArch: noarch

%description
% {summary}.

%prep

%build

%install
%global macrosdir %(d=%{_rpmconfigdir}/macros.d; [ -d $d ] || d=%{_sysconfdir}/rpm; echo $d)
mkdir -p %{buildroot}%{macrosdir}
install -m0644 %SOURCE0 %{buildroot}%{macrosdir}/macros.openblas-srpm

%files
% {macrosdir}/macros.openblas-srpm

%changelog
* Thu Jul 27 2017 Fedora Release Engineering <releng@fedoraproject.org> - 2-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Mon May 29 2017 Dan Horik <dan[at]danny.cz> - 2-1
  - add s390x to supported arches

* Mon Mar 20 2017 Orion Poplawski <orion@cora.nwra.com> - 1-1
  - Initial package

Found in path(s):
* /opt/cola/permits/1139282575_1614507689.35/0/openblas-srpm-macros-2-2.el8-1.src.rpm-cosi-expand-archive-wqqYLEYG/openblas-srpm-macros.spec
1.83 grep 3.1 6.el8

1.83.1 Available under license:

@c The GNU Free Documentation License.
center Version 1.3, 3 November 2008

c This file is intended to be included within another document,
c hence no sectioning command or @node.

display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not
allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed,
as Front-Cover Texts or Back-Cover Texts, in the notice that says that
the Document is released under this License. A Front-Cover Text may
be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy,
represented in a format whose specification is available to the
general public, that is suitable for revising the document
straightforwardly with generic text editors or (for images composed of
pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG®. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS
You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@example
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
@endexample

@example
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
@endexample

@example
State on the Title page the name of the publisher of the Modified Version, as the publisher.
@endexample

@example
Preserve all the copyright notices of the Document.
@endexample

@example
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
@endexample

@example
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
@endexample

@example
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
@endexample

@example
Include an unaltered copy of this License.
@endexample

@example
Preserve the section Entitled "History", Preserve its Title, and add
@endexample
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ```Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an “aggregate” if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled “Acknowledgements”,
“Dedications”, or “History”, the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See \url{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

End}

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smlalexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled “GNU
Free Documentation License”.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the `"with@dots{ ]}Texts."@: line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permmissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.
You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.
When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.
Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.
If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, 
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR 
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM 
is WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF 
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING 
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS 
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY 
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE 
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF 
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD 
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), 
eVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF 
sUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided 
above cannot be given local legal effect according to their terms, 
reviewing courts shall apply local law that most closely approximates 
an absolute waiver of all civil liability in connection with the 
Program, unless a warranty or assumption of liability accompanies a 
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest 
possible use to the public, the best way to achieve this is to make it 
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest 
to attach them to the start of each source file to most effectively 
state the exclusion of warranty; and each file should have at least 
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.> 
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify 
it under the terms of the GNU General Public License as published by 
the Free Software Foundation, either version 3 of the License, or 
(at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```plaintext
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

---

1.84 libpng 1.6.34 5.el8
1.84.1 Available under license:

---

Copyright (c) 1998-2008 Greg Roelofs. All rights reserved.

This software is provided "as is," without warranty of any kind, express or implied. In no event shall the author or contributors be held liable for any damages arising in any way from the use of this software.

The contents of this file are DUAL-LICENSED. You may modify and/or
redistribute this software according to the terms of one of the following two licenses (at your option):

LICENSE 1 ("BSD-like with advertising clause"): 

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. Redistributions of source code must retain the above copyright notice, disclaimer, and this list of conditions.
2. Redistributions in binary form must reproduce the above copyright notice, disclaimer, and this list of conditions in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

   This product includes software developed by Greg Roelofs and contributors for the book, "PNG: The Definitive Guide," published by O'Reilly and Associates.

LICENSE 2 (GNU GPL v2 or later):

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author’s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

This copy of the libpng notices is provided for your convenience. In case of
any discrepancy between this copy and the notices in the file png.h that is
included in the libpng distribution, the latter shall prevail.
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

This code is released under the libpng license.

libpng versions 1.0.7, July 1, 2000 through 1.6.34, September 29, 2017 are Copyright (c) 2000-2002, 2004, 2006-2017 Glenn Randers-Pehrson, are derived from libpng-1.0.6, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu
Mandar Sahastribuddhe
Google Inc.
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without
fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

END OF COPYRIGHT NOTICE, DISCLAIMER, and LICENSE.

TRADEMARK:

The name "libpng" has not been registered by the Copyright owner as a trademark in any jurisdiction. However, because libpng has been distributed and maintained world-wide, continually since 1995, the Copyright owner claims "common-law trademark protection" in any jurisdiction where common-law trademark is recognized.

OSI CERTIFICATION:

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative. OSI has not addressed the additional disclaimers inserted at version 1.0.7.

EXPORT CONTROL:

The Copyright owner believes that the Export Control Classification Number (ECCN) for libpng is EAR99, which means not subject to export controls or International Traffic in Arms Regulations (ITAR) because it is open source, publicly available software, that does not contain any encryption software. See the EAR, paragraphs 734.3(b)(3) and 734.7(b).

Glenn Randers-Pehrson
glennrp at users.sourceforge.net
September 29, 2017

1.85 gzip 1.9-12.el8
1.85.1 Available under license:

GNU Free Documentation License
Version 1.3, 3 November 2008

<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, TeXinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of...
the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.
If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retile any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list.
of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and
distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION
You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Document.
11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.
If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.
A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.
A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program’s commands might be different; for a GUI interface, you would use an "about box".
You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.86 words 3.0 28.el8
1.86.1 Available under license:
No license file was found, but licenses were detected in source scan.

&c
'd
'em
'il
'm
'mid
'midst
'mongst
'prentice
're
's
'sblood
'sbodikins
'sdeath
'sfoot
'sheart
'shun
'slid
'slife
'slight
'snails
'streuth
't
'til
'tis
'twas
'tween
'twere
'twill
'twixt
abacate
abacaxi
abacay
abaci
abacinate
abacination
abacisci
abaciscus
abacist
aback
abaeli
abacot
abacterial
abactinal
abactinally
abaction
abactor
abaculi
abaculus
abacus
abacuses
abada
abaddon
abadejo
abadengo
abadia
abaff
abaft
abaisance
abaised
abaiser
abaisse
abaissed
abaka
abakas
abalation
abaliate
abalienate
abalienated
abalienating
abalienation
abalone
abalones
abamp
abampere
abamperes
abamps
aband
abandon
abd
abdal
abdali
abdaria
abdat
abdest
abdicable
abdicant
abdicate
abdictated
abdictates
abdicating
abdications
abdicative
abdictor
abdictive
abdictory
abdom
abdomen
abdomen's
abdomens
abdomina
abdominal
abdominales
abdominalia
abdominalian
abdominally
abdominals
abdominoanterior
abdominocardiac
abdominocentesis
abdominocystic
abdominogenital
abdominohysterectomy
abdominohysterotomy
abdominoposterior
abdominoscope
abdominoscopy
abdominothoracic
abdominous
abdominovaginal
abdominovesical
abduce
abduced
abduces
abducent
abducentes
aberrance
aberrancies
aberrancy
aberrant
aberrantly
aberrants
aberrate
aberrated
aberrating
aberration
aberrational
aberrations
aberrative
aberrator
aberrometer
aberroscope
aberuncate
aberuncator
abesse
abessive
abet
abetment
abetments
abets
abettal
abettals
abetted
abetter
abetters
abetting
abettor
abettors
abevacuation
abey
abeyance
abeyances
abeyancies
abeyancy
abeyant
abfarad
abfarads
abhennies
abhenry
abhenrys
abhinaya
abhiseka
abhominable
abhor
ability's
abilla
abilo
abime
abintestate
abiogeneses
abiogenesis
abiogenesist
abiogenetic
abiogenetical
abiogenetically
abiogenist
abiogenous
abiogeny
abiological
abiologically
abiology
abioses
abirosis
abiotic
abiotypical
abiotically
abiotrophic
abiotrophy
abir
abirritant
abirritate
abirritated
abirritating
abirritation
abirritative
abiston
abit
abiuret
abject
abjectedness
abjection
abjections
abjective
abjectly
abjectness
abjoint
abjudge
abjudged
abjudged
abjudging
abjudicate
abjudicated
abjudicating
abjudication
abjudicator
abjugate
abjunct
abjunction
abjunctive
abjuration
abjurations
abjuratory
abjure
abjured
abjurement
abjurer
abjurers
abjures
abjuring
abkar
abkari
abkary
abl
ablach
ablactate
ablactated
ablactating
ablactation
ablaqueate
ablare
ablasmatic
ablasmatic
ablatic
ablative
ablative
ablatively
ablatives
ablator
ablaut
ablauts
ablaze
able
ablegate
absolve
absolved
absolvent
absolver
absolvers
absolves
absolving
absolvitor
absolvitory
absonant
absonous
absorb
absorbability
absorbable
absorbance
absorbancy
absorbant
absorbed
absorbedly
absorbedness
absorbefacient
absorbencies
absorbency
absorbent
absorbents
absorber
absorbers
absorbing
absorbingly
absorption
absorbs
absorbtion
absorpt
absorptance
absorptiometer
absorptiometric
absorption
absorption's
absorptional
absorptions
absorptive
absorptively
absorptiveness
absorptivity
absquatulate
absquatulation
abstain
abstained
abucco
abuilding
abuleia
abulia
abulias
abulic
abulomania
abulyeit
abumbral
abumbrellar
abuna
abundance
abundances
abundancy
abundant
abundantly
abune
abura
aburabozu
aburagiri
aburban
aburst
aburton
abusable
abusage
abuse
abused
abusedly
abusee
abuseful
abusefully
abusefulness
abuser
abusers
abuses
abush
abusing
abusion
abusious
abusive
abusively
abusiveness
abut
abutilon
abutilons
abutment
abutments
abuts
academial
academian
academias
academic
academical
academically
academicals
academician
academicians
academicianship
academicism
academics
academie
academies
academise
academised
academising
academism
academist
academite
academization
academize
academized
academizing
academy
academy's
acadia
acadialite
academic
acaena
acaen
acajou
acajous
acalyculia
acale
acaleph
acalepha
acalephae
acalephan
acalephe
acalephes
acalephoid
acalephs
acalyca
acalycline
acalycinous
acalyculate
acalyptrate
acampsia
acana
acanaceous
acanonical
acanth
acantha
acanthaceous
acanthad
acanthi
acanthial
acanthin
acanthine
acanthion
acanthite
acanthocarpous
acanthocephalan
acanthocephalous
acanthoclados
acanthodean
acanthodian
acanthoid
acanthological
acanthology
acantholysis
acanthoma
acanthomas
acanthon
acanthophorous
acanthopod
acanthopodous
acanthopomatous
acanthopore
acanthopteran
acanthopterous
acanthopterygian
acanthoses
acanthosis
acanthotic
acanthous
acanthus
acanthuses
acanthuthi
acapnia
acapnial
acapnias
acappella
acapsular
acapu
acapulco
acate
acategorical
acater
acatery
acates
acatharsia
acatharsy
acatholic
acaudal
acaudate
acaudelescent
acaulescence
acaulescent
acauleine
acauleose
acaulous
acc
acca
accable
accademia
accadian
ace
accede
aceded
accedence
acceder
acceders
accedes
acceling
accel
accelerable
accelerando
accelerant
accelerate
accelerated
acceleratedly
accelerates
accelerating
acceleratingly
acceleration
accelerations
accelerative
accelerator
acceleratorh
accelerators
acceleratory
accelerograph
accelerometer
acclaimers
acclaiming
acclaims
acclamation
acclamations
acclamator
acclamatory
acclimatable
acclimatation
acclimate
acclimated
acclimatement
acclimates
acclimating
acclimation
acclimatisable
acclimatisation
acclimatise
acclimatised
acclimatiser
acclimatising
acclimatizable
acclimatization
acclimatize
acclimatized
acclimatizer
acclimatizes
acclimatizing
acclimature
acclinal
acclinate
acclivities
acclivitous
acclivity
acclivous
aceloy
accoast
accoil
accolade
accoladed
accolades
accolated
accolent
accoll
accolle
accolled
accollee
accombination
accountant
accountant's
accountants
accountantship
accounted
accounter
accounters
accounting
accountment
accountrement
accounts
accouple
accoulement
accourage
account
accouter
accoutered
accoutering
accouterment
accouterments
accouters
accoutre
accoutrred
accouterment
accoutrements
accoutries
accoutring
accoy
accoyed
accoying
accra
accrease
accredit
accreditable
accreditate
accreditation
accreditations
accredited
accreditee
accrediting
accreditment
accredits
acrementitial
acrementition
accresece
accrescence
accrescendi
accrescendo
accrecent
acretal
accrete
accreted
accretes
accreting
accretion
accretion's
accretionary
accretions
accretive
accremitate
accreoch
accroached
accroaching
accroachment
acroids
accriuable
acrual
acruals
accruce
accrued
accruement
accruer
accrues
accruing
acct
acts
accubation
accubita
accubitum
accubitus
accueil
accultural
acculturate
acculturated
acculturates
acculturating
acculturation
acculturational
acculturationist
acculturative
acculturize
acculturized
acculturizing
accum
accumb
accumbency
accumbent
accumber
accumable
accumulate
accumulated
accumulates
accumulating
accumulation
accumulations
accumulativ
accumulative
accumulatively
accumulativeness
accumulator
accumulator's
accumulators
accupy
accur
accuracies
accuracy
accurate
accurately
accurateness
accure
accurse
accursed
accursedly
accursedness
accursing
accurst
accurtation
accus
accusable
accusably
accusal
accusals
accusant
accusants
accusation
accusation's
accusations
accusatival
accusative
accusatively
accusativeness
accusatives
accusator
accusatorial
acerous
acerra
acertannin
acerval
acervate
acervately
acervatim
acervation
acervative
acervose
acervuli
acervuline
acervulus
aces
acescence
acescency
acescent
acescents
aceship
acesodyne
acesodynamous
acestoma
aceta
actable
acetabula
acetabular
acetabularia
acetabuliferous
acetabuliform
acetabulous
acetabulum
acetabulums
acetacetic
acetal
acetaldehydase
acetaldehyde
acetaldehydase
acetal
dol
acetalization
acetalize
acetals
acetamid
acetamide
acetamidin
acetamidine
acetamido
acetamids
acetaminol
acetaminophen
acetanilid
acetanilide
acetanion
acetaniside
acetanisidide
acetanisidine
acetannin
acetarious
acetars
acetarsone
acetary
acetate
acetated
acetates
acetation
acetazolamide
acetbromamide
acetyl
acetyldrazide
acetiam
acetic
acetification
acetified
acetifier
acetifies
acetify
acetifying
acetimeter
acetimetric
acetimetry
acetin
acetine
acetins
acetite
acetize
acetla
acetmethylanilide
acetnaphthalide
acetoaacetanilide
acetoacetate
acetoacetic
acetoamidophenol
acetoarsenite
acetobacter
acetobenzoic
acetobromanilide
acetochloral
acetocinnamene
acetoin
acetol
acetolysis
acetolytic
acetometer
acetometric
acetometrical
acetometrically
acetometry
acetomorphin
acetomorphine
acetonaemia
acetonaemic
acetonaphthone
acetonate
acetonation
acetone
acetonemia
acetonemic
acetones
acetic
acetonitrile
acetonization
acetonize
acetonuria
acetonurometer
acetonyl
acetonylacetone
acetonylidene
acetonilidene
acetoacetone
acetoacetetide
acetophenetide
acetophenetidin
acetophenetidine
acetophenin
acetophenine
acetophenone
acetopiperone
acetopyrin
acetopyrine
acetosalicylic
acetose
acetosity
acetosoluble
acetostearin
acetothienone
acetotoluid
acetotoluide
acetotoluidine
acetous
acetoveratrone
acetoxim
acetoxime
acetoxyl
acetoxyls
acetoxypthalide
acetophenetid
acetophenetidin
acetract
acetoluide
acetum
aceturic
acetyl
acetylacetonates
acetylacetone
acetylamine
acetylaminobenzene
acetylaniline
acetylasalicylic
acetylate
acetylated
acetylating
acetylation
acetylative
acetylator
acetylbenzene
acetylbenzoate
acetylbenzoic
acetylbiuret
acetylcarbazole
acetylcellulose
acetylicholine
acetylicholinesterase
acetylicholinic
acetylcyanide
acetylenation
acetylene
acetylenediurein
acetylenic
acetylenogen
acetylenyl
acetylfuoride
acetylglycin
acetylglycine
acetylhydrazine
acetylic
acetylid
acetylide
acetyliodide
acetylizable
acetylation
acetylene
acetylated
acetylizer
acetylizing
acetylmethylcarbinol
acetylperoxide
acetylphenol
acetylphenylhydrazine
acetylosamol
acetyls
acetylsalicylate
acetylsalicylic
acetylsalol
acetyltannin
acetyltolmol
acetyltropeine
acetylmurea
ach
achaenocarp
chaetous
achaete
achage
achalasia
achape
achaque
achar
acharne
acharnement
acharya
achate
achates
achatour
ache
acheat
achech
acheck
ached
acheer
acheilary
acheilia
acheilous
acheiria
acheirous
acheirus
achingly
achiote
achiotes
achira
achirite
achkan
achlamydate
achlamydeous
achlorhydria
achlorhydic
achlorophyllous
achloropsia
achluophobia
achoke
acholia
acholias
acholic
acholous
acholuria
acholuric
achondrite
achondritic
achondroplasia
achondroplastic
achoo
achor
achordal
achordate
achras
achree
achroocyte
achrodextrin
achrodextrinase
achroglobin
achroiocyaemia
achroiocytiaemia
achroite
achroma
achromacyte
achromasia
achromat
achromate
achromatic
achromatically
achromaticity
achromatin
achromatinic
achromatisation
achromatise
achromatised
achromatising
achromatism
achromatizable
achromatization
achromatize
achromatized
achromatizing
achromatocyte
achromatolyis
achromatope
achromatophil
achromatophile
achromatophilia
achromatophilic
achromatopia
achromatopsia
achromatopsy
achromatosis
achromatous
achromats
achromaturia
achromia
achromatic
achromobacter
achromoderma
achromophilous
achromotrichia
achromous
achronical
achronism
achronychous
achroodextrin
achroodextrinase
achrooous
achropsia
achtehalber
achtel
achtelthaler
achter
achterveld
achuete
achy
achylia
achylous
achymia
achymous
acotyledon
acotyledonous
acouasm
acouchi
acouchy
acoumeter
acoumetry
acounter
acoumeter
acouophonia
acoup
acoupa
acoupe
acousma
acousmas
acousmata
acousmatic
acoustic
acoustical
acoustically
acoustician
acousticolateral
acousticophobia
acoustics
acoustoelectric
acpt
acquaint
acquaintance
acquaintance's
acquaintances
acquaintanceship
acquaintanceships
acquaintancy
acquaintant
acquainted
acquaintedness
acquainting
acquaints
acquent
acqueruer
acquest
acquests
acquiesce
acquiesced
acquiescement
acquiescence
acquiescency
acquiescent
acrimoniously
acrimoniousness
acrimony
acrindolin
acrindoline
acrinyl
acrisia
acrisy
acrita
acritan
acrite
acritical
acritochromacy
acritol
acre
dude
acrity
acraesthesia
acraama
acroamata
acroamatic
acroamatical
acroamatics
acroanesthesia
acroarthritis
acroasis
acroasphyxia
acroataxia
acroartic
acrobacies
acrobacy
acrobat
acrobat's
acrobatholithic
acrobatic
acrobatical
acrobatically
acrobatics
acrobatism
acrobats
acroblast
acrobryous
acrobystitis
acrocarpous
acrocentric
acrocephalia
acrocephalic
acrocephalous
acrocephaly
acrochordon
acrock
acroconidium
acrocontracture
acrocortacoid
acrocyanosis
acrocyst
acrodactyla
acrodactylum
acrodematitis
acrodont
acrodontism
acrodonts
acrodrome
acrodromous
acrodynia
acroesthesias
acrogamous
acrogamy
acrogen
acrogenic
acrogenous
acrogenously
acrogen
acrogamy
acroglyphs
acrogyna
acrogynous
acrolein
acroleins
acrolith
acrolithan
acrolithic
acroliths
acrologic
acrologically
acrologies
acrologism
acrologue
acrology
acromania
acromastitis
acromegalia
acromegalie
acromegalies
acromegaly
acromelalgia
acrometer
acromia
acromial
acromicria
acromimia
acromioclavicular
acromiocoracoid
acromiodeltoid
acromiohumeral
acromiohyoid
acromion
acromioscapular
acromiosternal
acromiothoracic
acromonogrammatic
acromphalus
acromyodian
acromyodic
acromyodous
acromyotonia
acromyotonus
acron
acronal
acronarcotic
acroneurosis
acronic
acronical
acronically
acronichal
acronichally
acronomy
acronyc
acronycal
acronycally
acronych
acronychal
acronychally
acronychous
acronyctous
acronym
acronym's
acronymic
acronymically
acronymize
acronymized
acronymizing
acronymous
acronyms
acronymx
acrook
acroparalysis
acroparesthesia
acropathology
acropathy
acropetal
acropetally
acrophobia
acrophonic
acrophonically
acrophonies
acrophony
acropodia
acropodium
acropoleis
acropolis
acropolises
acropolitan
acropore
acrorhagus
acrorrhoea
acrosarc
acrosarca
acrosarcum
acroscleriasis
acroscleroderma
acrosclerotic
acrose
acrosome
acrosomes
acrophacelus
acrosphere
acrospered
acrospiring
acrosphere
acrosporous
across
acrostic
acrostical
acrostically
acrostichal
acrostichic
acrostichoid
acrosticism
acrostics
acrostolia
acrostolion
acrostolium
actiniarian
actinias
actinic
actinical
actinically
actinide
actinides
actiniferous
actiniform
actinine
actiniochrome
actiniohematin
actinism
actinisms
actinium
actiniums
actinobaccilli
actinobacilli
actinobacillosis
actinobacillotic
actinobacillus
actinoblast
actinobranch
actinobranchia
actinocarp
actinocarpic
actinocarpous
actinochemical
actinochemistry
actinocrinid
actinocrinite
actinocutitis
actinodermatitis
actinodielectric
actinodrome
actinodromous
actinoelectric
actinoelectrically
actinoelectricity
actinogonidiate
actinogram
actinograph
actinographic
actinography
actinoid
actinoids
actinolite
actinolitic
activists
activital
activities
activity
activity's
activize
activized
activizing
actless
actomyosin
acton
actor
actor's
actorish
actors
actorship
actory
actos
actress
actress's
actresses
actressy
acts
actu
actual
actualisation
actualise
actualised
actualising
actualism
actualist
actualistic
actualities
actuality
actualization
actualize
actualized
actualizes
actualizing
actually
actualness
actuals
actuarial
actuarially
actuarian
actuaries
actuary
actuaryship
actuate
actuated
actuates
actuating
actuation
actuator
actuator's
actuators
actuose
acture
acturience
actus
actuate
acuaesthesia
acuate
acuating
acuation
acuchi
acuclosure
acuductor
acuerdo
acuerdos
acuesthesia
acuities
acuity
aculea
aculeae
aculeate
aculeated
aculei
aculeiform
aculeolate
aculeolus
aculeus
acumble
acumen
acumens
acuminate
acuminated
acuminating
acumination
acuminose
acuminous
acuminulate
acupress
acupressure
acupuncture
acupuncture
addictively
addictiveness
addictives
addicts
addiment
adding
addio
addis
addison
addita
additament
additamentary
additiment
addition
addition's
additional
additionally
additionary
additionist
additions
addititious
additive
additive's
additively
additives
additivitiy
additory
additum
additur
addle
addlebrain
addlebrained
addled
addlehead
addleheaded
addleheadedly
addleheadedness
addlement
addleness
addlepate
addlepated
addlepatedness
addleplot
addles
addling
addlings
addlins
addn
adelarthrostomatous
adelaster
adeling
adelite
adelocerous
adelocodonic
adelomorphic
adelomorphous
adelopod
adelphic
adelphogamy
adelpholite
adelphophagy
adelphous
ademonist
adempt
adempted
ademption
aden
adenalgia
adenalgy
adenase
adenasthenia
adendric
adendritic
adenectomies
adenectomy
adenectopia
adenectopic
adenemphractic
adenemphraxis
adenia
adeniform
adenin
adenine
adenines
adenitis
adenitises
adenization
adenocanthoma
adenoblast
adenocancroid
adenocarcinoma
adenocarcinomas
adenocarcinomata
adenocarcinomatous
adenocele
adenocellulitis
adenochondroma
adenochondrosarcoma
adenochrome
adenocyst
adenocystoma
adenocystomatous
adenodermia
adenodiastasis
adenodynia
adenofibroma
adenofibrosis
adenogenesis
adenogenous
adenographer
adenographic
adenographical
adenography
adenohypersthenia
adenohypophyseal
adenohypophysial
adenohypophysis
adenoid
adenoidal
adenoidectomies
adenoidectomy
adenoidism
adenoiditis
adenoids
adenoliomyofibroma
adenolipoma
adenolipomatosis
adenologaditis
adenological
adenology
adenolymphocele
adenolymphoma
adenoma
adenomalacia
adenomas
adenomata
adenomatome
adenomatous
adenomeningeal
adenometritis
adenomycosis
adenomyofibroma
adenomyoma
adenomyxoma
adenomyxosarcoma
adenoncus
adenoneural
adenoneure
adenopathy
adenopharyngeal
adenopharyngitis
adenophlegmon
adenophore
adenophoreus
adenophorous
adenophthalmia
adenophyllous
adenophyma
adenopodous
adenosarcoma
adenosarcomas
adenosarcomata
adenosclerosis
adenose
adenoses
adenosine
adenosis
adenostemonous
adenotome
adenotomic
adenotomy
adenotyphoid
adenotyphus
adenous
adenoviral
adenovirus
adenoviruses
adenyl
adenylic
adenylpyrophosphate
adenyls
adephaga
adephagan
adephagia
adephagous
adeps
adep
adep
dep
dep
dep
dep
adep
dep
dep
dep
dep
dep
adep
adep
adepts
adeptship
adequacies
adequacy
adequate
adequately
adequateness
adequation
adequate
adermic
adermin
dermine
adesmy
adespota
adespoton
adessenarian
adessive
adeste
adet
adeuism
aevism
adjected
adffroze
adffrozen
adffixed
adfix
adfluxion
adfreeze
adfreezing
adfroze
adfrozed
adfrozen
adglutinate
adhaka
adhamant
adharma
adherent
adhere
adhered
adherence
adherences
adherency
adherend
adherends
adherent
adherent's
adherently
adherents
adherer
adiaphorous
adiaphory
adiapneustia
adiate
adiated
adiathermal
adiathermancy
adiathermanous
adiathermic
adiathetic
adiating
adiation
adibasi
adicity
adience
adient
adieu
adieus
adieux
adighe
adight
adigranth
adidan
adinoile
adinvention
adion
adios
adipate
adipescant
adiphenine
adipic
adipinic
adipocele
adipocellulose
adipocere
adipoceriform
adipocerite
adipocerous
adipocyte
adipofibroma
adipogenic
adipogenous
adipoid
adipolysis
adipolytic
adipoma
adipomata
adipomatous
adjuratory
adjure
adjured
adjurer
adjurers
adjudges
adjuring
adjuror
adjurers
adjust
adjustability
adjustable
adjustably
adjustage
adjustation
adjusted
adjuster
adjusters
adjusting
adjustive
adjustment
adjustment's
adjustmental
adjustments
adjustor
adjustor's
adjustores
adjustoring
adjustors
adjusts
adjustage
adjutancies
adjutancy
adjudant
adjudants
adjudantship
adjudator
adjute
adjutor
adjuditious
adjudory
adjutrice
adjuvix
adjuvant
adjuvants
adjuvants
adlay
adlegation
adlegiare
adlerian
adless
adlet
adlumidin
adlumidine
adlumin
adlumine
adm
adman
admarginate
admass
admaxillary
admeasure
admeasured
admeasurement
admeasurer
admeasuring
admedial
admedian
admen
admensuration
admerveylle
admetus
admi
admin
adminicle
adminicula
adminicular
adminiculary
adminiculate
adminiculation
adminiculum
administer
administered
administerial
administering
administerings
administrers
administrable
administrant
administrants
administrate
administrated
administrates
administrating
administration
adonite
adonitol
adonize
adonized
adonizing
adoors
adoperate
adoperation
adopt
adoptabilities
adoptability
adoptable
adoptant
adoptative
adopted
adoptedly
adoptee
adoptees
adopter
adopters
adoptian
adoptianism
adoptianist
adopting
adoption
adoption’s
adoptional
adoptionism
adoptionist
adoptions
adoptious
adoptive
adoptively
adopts
ador
adorability
adorable
adorableness
adorably
adoral
adorally
adorant
adoration
adoratory
adore
adored
adorer
adorers
adscititiously
adscript
adscripted
adscription
adscriptitious
adscriptitius
adscriptive
adscripts
adsessor
adsheart
adsignification
adsignify
adsmith
adsmithing
adsorb
adsorbability
adsorbable
adsorbate
adsorbates
adsorbed
adsorbent
adsorbens
adsorbing
adsorbs
adsorption
adsorptive
adsorptively
adsorptiveness
adspiration
adstipulate
adstipulated
adstipulating
adstipulation
adstipulator
adstrict
adstringe
adsum
adterminal
adtevac
aduana
adular
adularescence
adularescent
adularia
adularias
adulate
adulated
adulates
adulating
adulation
adulator
adulators
adulatory
adulatress
adulce
adullamite
adult
adult's
adulter
adulterant
adulterants
adulterate
adulterated
adulterately
adulterateness
adulterates
adulterating
adulteration
adulterator
adulterators
adulterer
adulterer's
adulterers
adulteress
adulteresses
adulteries
adulterine
adulterize
adulterous
adulterously
adulterousness
adultery
adulthood
adulticidal
adulticide
adultlike
adultly
adultness
adultoid
adultress
adults
adumbral
adumbrant
adumbrate
adumbrated
adumbrates
advocate
advocator
advocatory
advocatress
advocatrice
advocatrix
advvoke
advolution
advoteresse
advowee
advowry
advowsance
advowson
advowsons
advoyer
advt
adward
adwesch
ady
adynamia
adynamias
adynamic
adynamy
adyta
adyton
adytta
adytum
adz
adze
adzer
adzes
adzooks
ae
aecia
aecial
aecidia
aecidial
aecidioform
aecidiospore
aecidiostage
aecidium
aeciospore
aeciostage
aeciotelia
aecioteliospore
aeciotelium
aecium
aedeagal
aedeagi
aedeagus
aedegi
aedes
aedicula
aediculae
aedicule
aedile
aediles
aedileship
aedilian
aedilic
aedilitian
aedilities
aedility
aedine
aedoeagi
aedoeagus
aedoeology
aefald
aefaldness
aefaldy
aefauld
aegagri
aegagropila
aegagropilae
aegagropile
aegagropiles
aegagrus
aegean
aegemony
aeger
aegerian
aegerid
aegicrania
aegilops
aegir
aegirine
aegirinolite
aegirite
aegis
aegises
aegisthus
aegithognathism
aegithognathous
aegophony
aegritude
aegrotant
aegrotat
aegyptilla
aegyrite
aeipathy
aelodic
aeluroid
aelurophe
aelurophe
aeluropodous
aenach
aenean
aeneas
aeneid
aeneolithic
aeneous
aeneus
aenigma
aenigmatite
aeolharmonica
aeolian
aeolic
aeolid
aeolight
aeolina
aeoline
aeolipile
aeolipyle
aeolist
aeolistic
aeolodic
aeolodion
aeolomelodic
aeolopantalon
aeolotropic
aeolotropism
aeolotropy
aeolosklavier
aeolus
aeon
aeonial
aeonian
aeonic
aeonicaeonist
aeonist
aenos
aepyornis
aeq
aequor
aequoreal
aequorin
aequorins
aer
aerage
aeraria
aerarian
aerarium
aerate
aerated
aerates
aerating
aeration
aerations
aerator
aerators
aerenchyma
aerenterectasia
aerial
aerial's
aerialist
aerialists
aeriality
aerially
aerialness
aerials
aeric
aerical
aerides
aerie
aeried
aerier
aeries
aeriest
aerifaction
aeriferous
aerification
aerified
aerifies
aeriform
aerify
aerifying
aerily
aeriness
aero
aeroacoustic
aerobacter
aerobacteriological
aerobacteriologically
aerobacteriologist
aerobacteriology
aerobacters
aeroballistic
aeroballistics
aerobate
aerobated
aerobatic
aerobatics
aerobating
aerobe
aerobee
aerobes
aerobia
aerobian
aerobic
aerobically
aerobics
aerobiologic
aerobiological
aerobiologically
aerobiologist
aerobiology
aerobion
aerobiont
aerobioscope
aerobiosis
aerobiotic
aerobiotically
aerobious
aerobium
aeroboat
aerobranchiate
aerobus
aerocamera
aerocar
aerocartograph
aerocartography
aerocolpos
aerocraft
aerocurve
aerocyst
aerodermectasia
aerodone
aerodonetic
aerodonetics
aerodontalgia
aerodontia
aerodontic
aerodrome
aerodromes
aerodromics
aeroduct
aeroducts
aerodynamic
aerodynamical
aerodynamically
aerodynamicist
aerodynamics
aerodyne
aerodynes
aeroelastic
aeroelasticity
aeroelastics
aeroembolism
aeroenterectasia
aerofoil
aerofoils
aerogel
aerogels
aerogen
aerogene
aerogenes
aerogenesis
aerogenic
aerogenically
aerogenous
aerogeography
aerogeologist
aerogeology
aerognosy
aerogram
aerogramme
aerograms
aerograph
aerographer
aerographic
aerographical
aerographics
aerographies
aerography
aerogun
aerohydrodynamic
aerohydropathy
aerohydroplane
aerohydrotherapy
aerohydrous
aeroides
aerolite
aerolites
aerolith
aerolithology
aeroliths
aerolitic
aerolitics
aerologic
aerological
aerologies
aerologist
aerologists
aerology
aeromechanic
aeromagnetic
aeromancer
aeromancy
aeromantic
aeromarine
aeromechanic
aeromechanical
aeromechanics
aeromedical
aeromedicine
aerometeorograph
aerometer
aerometric
aerometry
aeromotor
aeron
aeronat
aeronaut
aeronautic
aeronautical
aeronautically
aeronautics
aeronautism
aeronauts
aeronef
aeroneurosis
aeronomer
aeronomic
aeronomical
aeronomics
aeronomies
aeronomist
aeronomy
aeropathy
aeropause
aeroperitoneum
aeroperitonia
aerophagia
aerophagist
aerophagy
aerophane
aerophilatelic
aerophilatelist
aerophilately
aerophile
aerophilia
aerophilic
aerophilous
aerophobia
aerophobic
aerophone
aerophor
aerophore
aerophoto
aerophotography
aerophotos
aerophysical
aerophysicist
aerophysics
aerophyte
aeroplane
aeroplaner
aeroplanes
aeroplanist
aeroplankton
aeropleustic
aeroporotomy
aeropulse
aerosat
aerosats
aeroscepsis
aeroscepsy
aeroscope
aeroscopic
aeroscopically
aeroscopy
aerose
aerosiderite
aerosiderolite
aerosinusitis
aerosol
aerosolization
aerosolize
aerosolized
aerosolizing
aerosols
aerospace
aerosphere
aerosporin
aerostat
aerostatic
aerostatical
aerostatics
aerostation
aerostats
aerosteam
aerotactic
aerotaxis
aerotechnical
aerotechnics
aerotherapeutics
aerotherapy
aerothermodynamic
aerothermodynamics
aeronometer
aeronometric
aeronometry
aerotow
aerotropic
aerotropism
aeroview
aeroyacht
aeruginous
aerugo
aerugos
aery
aes
aesc
aeschylean
aeschylus
aeschynite
aeschynomenous
aesculaceous
aesculapian
aesculapius
aesculetin
aesculin
aethers
aethogen
aethon
aethroscope
aetiogenic
aetiological
aetiologically
aetiologies
aetiologist
aetiologue
aetiology
aetiophyllin
aetiotropic
aetiotropically
aetites
aetosaur
aetosaurian
aettekees
aevia
aeviternal
aevum
af
afafe
afaced
afacing
afaint
afar
afara
afars
afb
afd
afdecho
afear
afeard
afeared
afebrile
afer
afernan
afetal
aff
affa
affability
affable
affableness
affably
affabrous
affair
affair's
affraying
affrays
affreight
affreighter
affreightment
affret
affrettando
affreux
affricate
affricated
affricates
affrication
affricative
affriended
affright
affrighted
affrightedly
affrighter
affrightful
affrightfully
affrighting
affrightingly
affrightment
affrights
affront
affronted
affrontedly
affrontedness
affrontee
affronter
affronting
affrontingly
affrontingness
affrontive
affrontiveness
affrontment
affronts
affronty
aft
affuse
affusedaffusing
affusion
affusions
affy
affydyavy
affying
afghan
afghanets
agalactic
agalactous
agalawood
agalaxia
agaxy
agalite
agalloch
agallochs
agallochum
agallop
agalma
agalmatolite
agalwood
agalwoods
agama
agamas
agamemnon
agamete
agametes
agami
agamian
agamic
agamically
agamid
agamis
agamist
agammaglobulinemia
agammaglobulinemic
agamobia
agamobium
agamogenesis
agamogenetic
agamogenetically
agamogony
agamoid
agamont
agamospermy
agamospore
agamous
agamy
aganglionic
aganippe
aganippe
aganipe
aganipe
aganipe
aganippe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
aganippe
aganipe
agapeically
agapetae
agapeti
agapetid
agaphite
agar
agaric
agaricaceae
agaricaceous
agaricic
agariciform
agaricin
agaricine
agaricinic
agaricoid
agarics
agarita
agaroid
agarose
agaroses
agars
agarwal
agas
agasp
agast
agastric
agastroneuria
agata
agate
agatelike
agates
agateware
agathin
agathism
agathist
agathodaemon
agathodaemonic
agathodemon
agathokakological
agathology
agatiferous
agatiform
agatine
agatize
agatized
agatizes
agatizing
agatoid
agitationist
agitations
agitative
agitato
agitator
agitator's
agitatorial
agitators
agitatrix
agitprop
agitpropist
agitprops
agitpunkt
agkistrodon
agla
aglaia
aglance
aglaozonia
aglare
agleaf
agleam
aglee
aglet
aglethead
aglets
agley
aglimmer
aglint
aglisten
aglitter
aglobulia
aglobulism
aglossal
aglossate
aglossia
aglow
aglucon
aglucone
aglutition
agly
aglycon
aglycone
aglycones
aglycons
aglycosuric
aglyphodont
aglyphous
agma
agnosy
agnus
agnuses
ago
agog
agoge
agogenic
agoing
agomensin
agomphiasis
agomphious
agomphosis
agon
agonal
agone
agones
agonia
agoniada
agoniadin
agoniatite
agonic
agonied
agonies
agonise
agonised
agonises
agonising
agonisingly
agonist
agonistarch
agonastic
agonistical
agonistically
agonistics
agonists
agonium
agonize
agonized
agonizedly
agonizer
agonizes
agonizing
agonizingly
agonizingness
agonothet
agonothete
agricultural
agriculturalist
agriculturalists
agriculturally
agriculture
agriculturer
agricultures
agriculturist
agriculturists
agrief
agrimonies
agrimony
agrimotor
agrin
agriological
agriologist
agriology
agronid
agriot
agriotype
agrise
agrised
agrising
agrito
agritos
agroan
agrobacterium
agrobiologic
agrobiological
agrobiologically
agrobiologist
agrobiology
agrodolce
agrogeological
agrogeologically
agrogeology
agrologic
agrological
agrologically
agrologies
agrologist
agrology
agrom
agromania
agromyzid
agron
agronome
agronomial
ahimsa
ahimsas
ahind
ahint
ahistoric
ahistorical
ahluwalia
ahmadi
ahmedi
aho
ahold
aholds
aholt
ahong
ahorse
ahorseback
ahoy
ahs
ahsan
ahu
ahuaca
ahuatle
ahuehuete
ahun
ahum
ahungered
ahungry
ahunt
ahura
ahurewa
ahush
ahuula
ahwal
ahypnia
ai
aiblins
aichmophobia
aid
aidable
aidance
aidant
aide
aided
aider
aiders
aides
aidful
aiding
ailment's
ailments
ails
ailsyte
ailuro
ailuroid
ailuromania
ailurophile
ailurophilia
ailurophilic
ailurophobe
ailurophobia
ailurophobic
ailweed
aim
aimable
aimak
aimara
aimed
aimer
aimers
aimful
aimfully
aiming
aimless
aimlessly
aimlessness
aims
aimworthiness
ain
ain't
ainaleh
aine
ainee
ainhum
ainoi
ains
ainsell
ainsells
aint
ainu
ainus
aioli
aiolis
aion
aionial
air
airable
airscapes
airscrew
airscrews
airshed
airsheds
airsheet
airship
airship's
airships
airsick
airsickness
airsome
airspace
airspaces
airspeed
airspeeds
airstream
airstrip
airstrip's
airstrips
airst
airted
airth
airthed
airthing
airths
airtight
airtighty
airtightness
airtime
airtimes
airting
airts
airview
airward
airwards
airwash
airwave
airwaves
airway
airway's
airwaybill
airwayman
airways
airwise
airwoman
airwomen
airworthier
ajivika
ajog
ajoint
ajonjoli
ajoure
ajourise
ajowan
ajowans
ajuga
ajugas
ajutment
ak
aka
akaakai
akala
akalimba
akamai
akamatsu
akan
akaroa
akasa
akasha
akazga
akazgin
akazgine
akcheth
ake
akeake
akebi
aked
akee
akees
akehorne
akeki
akela
akelas
akeley
akemboll
akenbold
akene
akenes
akenobeite
akepiro
akepiros
aker
akerite
aketon
akey
al
ala
alabama
alabamian
alabamians
alabamide
alabamine
alabandine
alabandite
alabarch
alabaster
alabastoi
alabastos
alabastra
alabastrian
alabastrine
alabastrites
alabastron
alabastrons
alabastrum
alabastrums
alabaster
alacha
alachah
alack
alackaday
alacran
alacreatine
alacreatinin
alacreatinine
alacrify
alacrious
alacriously
alacrities
alacritous
alacrity
alada
aladdin
alae
alagao
alagarto
alagau
alahee
alai
alaihi
alaite
alala
alalia
alarm
alarmable
alarmclock
alarmed
alarmedly
alarming
alarmingly
alarminess
alarmism
alarmisms
alarmist
alarmists
alarms
alarum
alarumed
alaruming
alarums
alary
alas
alasas
alaska
alaskaite
alaskan
alaskans
alaskas
alaskite
alastor
alastors
alastrim
alate
alated
alatern
alaternus
alation
alations
alaudine
alaund
alaunt
alay
alazor
alb
alba
albacea
albacora
albacore
albacores
albahaca
alban
albania
albanian
albanians
albanite
albany
albarco
albardine
albarelli
albarello
albarellos
albarium
albas
albaspidin
albata
albatas
albation
albatross
albatrosses
albe
albedo
albedograph
albedometer
albedos
albee
albeit
alberca
albergatrice
alberge
alberghi
albergo
alberich
albert
alberta
albertin
albertite
alberttype
albertustaler
albertype
albescence
albescent
albespine
albespyne
albeston
albetad
albicans
albicant
albication
albicore
albicores
albiculi
albification
albificative
albified
albiflorous
albify
albifying
albigenses
albin
albinal
albines
albiness
albinic
albinism
albinisms
albinistic
albino
albinoism
albinos
albinotic
albinuria
albion
albite
albites
albitic
albitical
albitite
albitization
albitophyre
albizia
albizias
albizzia
albizzias
albocarbon
albocinerous
albocracy
albocracy
albolite
albolith
albopannin
albopruinose
alborada
alborak
alboranite
albricias
albronze
albs
albuginea
albugineous
albugs
albuginitis
albugo
album
albumean
albumen
albumenizer
albumenisation
albumenise
albumenised
albumeniser
albumenising
albumenization
albumenize
albumenized
albumenizer
albumenizing
albumenoid
albumens
albumimeter
albumin
albuminate
albuminaturia
albuminiferous
albuminiform
albuminimeter
albuminimetry
albuminiparous
albuminise
albuminised
albuminising
albuminization
albuminize
albuminized
albuminizing
albuminocholia
albuminofibrin
albuminogenous
albuminoid
albuminoidal
albuminolysis
albuminometer
albuminometry
albuminone
albuminorrhea
albuminoscope
albuminose
albuminosis
albuminous
albuminousness
albumins
albuminuria
albuminuric
albuminurophobia
albumoid
albumoscope
albumose
albumoses
albumosuria
albums
albuquerque
alburn
alburnous
alburnum
alburnums
albus
albutannin
alc
alcabala
alcade
alcades
alcahest
alcahests
alcaic
alcaiceria
alcaics
alcaid
alcaide
alcaides
alcalde
alcaldes
alcaldeship
alcaldia
alcali
alcaligenes
alcalizate
alcamine
alcanza
alcantara
alcapton
alcaptonuria
alcargen
alcaraza
alcatras
alcavala
alcohol's
alcoholate
alcoholature
alcoholdom
alchohlema
alcoholic
alcoholic's
alcoholically
alcoholicity
alcoholics
alcoholometer
alcoholisation
alcoholise
alcoholised
alcoholising
alcoholism
alcoholist
alcoholizable
alcoholization
alcoholize
alcoholized
alcoholizing
alcoholometer
alcoholmetric
alcoholomania
alcoholometer
alcoholometric
alcoholometrical
alcoholometry
alcoholophilia
alcoholes
alcoholuria
alcoholysis
alcohotytic
alconde
alcoothionic
alcoran
alcornoco
alcornoque
alcosol
alcove
alcove's
alcoved
alcoves
alcovinometer
alcumy
alcyon
alcyonacean
alderwomen
aldide
aldim
aldine
aldimin
aldimine
aldine
alditol
aldm
aldoheptose
aldohexose
aldoketene
aldol
aldolase
aldolases
aldolization
aldolize
aldolized
aldolizing
aldols
aldononose
aldopentose
aldose
aldoses
aldoside
aldosterone
aldosteronism
aldoxime
aldrin
aldrins
ale
aleak
aleatoric
aleatory
alebench
aleberry
alebush
alec
alecithal
alecithic
alecize
aleconner
alecost
alecs
alectoria
alectoriae
alectoridine
alectorioid
alectoromachy
alectoromancy
alectoromorphous
alectoropodous
alectryomachy
alectryomancy
alectryon
alecup
alee
alef
alefnull
alefs
aleft
alefzero
alegar
alegars
aleger
alehoof
alehouse
alehouses
aleikoum
aleikum
aleiptes
aleiptic
aleknight
alem
alemana
alemannic
alembic
alembicate
alembicated
alembics
alembroth
alemite
alemmal
alemonger
alen
alencon
alencons
alenge
alength
alentours
alenu
aleph
alephs
alephzero
alepidote
alepine
alepole
alepot
alerce
alerion
alerse
alert
alerta
alerted
alertedly
alerter
alerters
alertest
alerting
alertly
alertness
alerts
ales
alesan
aleshot
alestage
aletap
aletaster
alethic
alethiologic
alethiological
alethiologist
alethiology
alethopteis
alethopteroid
alethoscope
aletocyte
alette
aleucaemic
aleucemic
aleukaemic
aleukemic
aleuritic
aleuromancy
aleurometer
aleur
aleuron
aleuronat
aleurone
aleurones
aleuronic
aleurons
aleuroscope
aleut
aleutian
aleutians
aleutite
alevin
alevins
alew
alewhap
alewife
alewives
alexander
alexanders
alexandria
alexandrian
alexandrine
alexandrines
alexandrite
alexia
alexias
alexic
alexin
alexine
alexines
alexinic
alexins
alexipharmacoon
alexipharmacum
alexipharmic
alexipharmical
alexipyretic
alexiteric
alexiterical
aleyard
aleyrodid
alezan
alf
alfa
alfaje
alfaki
alfakis
alfalfa
alfalfas
alfaquie
alfaquin
alfaquins
alfaquis
alfarga
alfas
alfenide
alferes
algebraists
algebraization
algebraize
algebraized
algebraizing
algebras
algebrization
algedo
algedonic
algedonics
algefacent
algeria
algerian
algerians
algerienne
algerine
algerines
algerita
algerite
algesia
algesic
algesimeter
algesiometer
algesireceptor
algiesis
algesthesia
algetic
algic
algicidal
algicide
algicides
algid
algidities
algidity
algidness
algiers
algific
algin
alginate
alginates
algine
alginic
algins
alginuresis
algiomuscular
algist
algivorous
algocyan
algodon
algodoncillo
algodonite
algoesthesiometer
algogenic
algoid
algol
algolagnia
algolagnic
algolagnist
algolagny
algological
algologically
algologies
algologist
algology
algometer
algometric
algometrical
algometrically
algometry
algonkian
algonquian
algonquians
algonquin
algonquins
algophagous
algophilia
algophilist
algophobia
algor
algorism
algorismic
algorisms
algorist
algoristic
algorithm
algorithm's
algorithmic
algorithmically
algorithmms
algors
algosis
algous
algovite
algraphic
algraphy
aluacil
alguazil
alguifou
algum
algums
alhacena
alhagi
alhambra
alhambresque
alhandal
alhenna
alhet
alia
aliamenta
alias
aliased
aliases
aliasing
alibangbang
alibi
alibi's
alibied
alibies
alibiing
alibility
alibis
alible
alican
talice
alichel
alicoche
alictisal
alicula
aliculae
alicyclic
alidad
alidada
alidade
alidades
alidads
alien
alien's
alienabilities
alienability
alienable
alienage
alienages
alienate
alienated
alkalinised
alkalinising
alkalinities
alkalinity
alkalinition
alkalinize
alkalinized
alkalinizes
alkalinizing
alkalinuria
alkalis
alkalisable
alkalisation
alkalise
alkalised
alkaliser
alkalises
alkalising
alkalizable
alkalizate
alkalization
alkalize
alkalized
alkalizer
alkalizes
alkalizing
alkaloid
alkaloid's
alkaloidal
alkaloids
alkalometry
alkalosis
alkalous
alkamin
alkamine
alkanal
alkane
alkanes
alkanet
alkanethiol
alkanets
alkanna
alkannin
alkanol
alkanol
alkapton
alkaptone
alkaponuria
alkaptonuric
all'italiana
all'ottava
allabuta
allachesthesia
allactite
allaeanthus
allagite
allagophyllous
allagostemonous
allah
allah's
allalinite
allamonti
allamoth
allamotti
allan
allanite
allanites
allanitic
allantiiasis
allantochorion
allantoic
allantoid
allantoidal
allantoidian
allantoin
allantoinase
allantoinuria
allantois
allantoxaidin
allanturic
allargando
allassotonic
allative
allatrare
allay
allayed
allayer
allayers
allaying
allayment
allays
allbone
allecret
allest
allect
allectory
allegata
allegate
allegation
allegation\'s
allegations
allegator
allegatum
allege
allegeable
alleged
allegedly
allegationment
allege
allegers
alleges
allegheny
allegiance
allegiance\'s
allegiances
allegiancy
allegiant
allegiantly
allegiare
alleging
allegoric
allegorical
allegorically
allegoricalness
allegories
allegorisation
allegorise
allegorised
allegoriser
allegorising
allegorism
allegorist
allegorister
allegoristic
allegorists
allegorization
allegorize
allegorized
allegorizer
allegorizing
allegory
allegory\'s
allegresse
allegretto
allegretto's
allegrettos
allegro
allegro's
allegros
allele
alleles
allelu
allelic
allelism
allelisms
allelocatalytic
allelomorph
allelomorphic
allelomorphism
allelopathy
allelotropic
allelotropism
allelotropy
alleluia
alleluiah
alleluias
alleluiaic
alleluja
allelvia
allemand
allemande
allemandes
allemands
allemontite
allen
allenarly
allene
alleniate
allentando
allentato
aller
allergen
allergenic
allergenicity
allergens
allergia
allergic
allergies
allergin
allergins
allergist
allergists
allobaric
allobars
allobrogical
allocability
allocable
allocaffeine
allocatable
allocate
allocated
allocatee
allocates
allocating
allocation
allocations
allocator
allocator's
allocators
allocatur
allocheiria
allochetia
allochetite
allochezia
allochiral
allochirally
allochiria
allochlorophyll
allochroic
allochroite
allochromatic
allochroous
allochthon
allochthonous
allocinnamic
alloclace
alloclasite
allococochick
allocrotonic
allocryptic
alloetthonous
allocate
allocution
 allocutive
allocyanine
alld
alldolphite
alldesmism
alldodge
allodia
allodial
allodialism
allodialist
allodiality
allodialy
allodian
allodiaries
allodiary
allodies
allodification
allodium
allods
allody
alloeosis
alloeostropha
alloeotic
alloerotic
alloerotism
allogamies
allogamous
allogamy
allogene
allogeneic
allogeneity
allogeneous
allogenic
allogenically
allograft
allograph
allographic
alloimmune
alloiogenesis
alloiometric
alloiometry
alloisomer
alloisomeric
alloisomerism
allokinesis
allokinetic
allokurtic
allolalia
allolalic
allomerism
allomerization
allomerize
allomerized
allomerizing
allomerous
allometric
allometry
allomorph
allomorphic
allomorphism
allomorphic
allomorphite
allomucic
allonge
allonges
allonomous
allonym
allonymous
allonymously
allonyms
alloo
allopalladium
allopath
allopathetic
allopathetically
allopathic
allopathically
allopathies
allopathist
allopaths
allopathy
allopatric
allopatrically
allopatry
allopelagic
allophanamid
allophanamide
allophanate
allophanates
allophane
allophanic
allophite
allophone
allophones
allophonic
allophonically
allophore
allophyle
allophylian
allophytic
allophytoid
alloplasm
alloplasmatic
alloplasmic
alloplast
alloplastic
alloplasty
alloplody
allopolyplloid
allopolyploidy
allopsychic
allopurinol
alloquial
alloquialism
alloquy
allorhythmia
allorrhymia
allorrh rhythmic
allosaur
allose
allosematic
allosome
alosteric
alostерically
allosyndesis
allosyndetic
allot
alloted
allotee
allotelluric
allotheism
allotheist
allotheistic
allothigene
allothigenetic
allothigenetically
allothetic
allothetic
allothrogenous
allothimorph
allothimorphic
allothimogenic
allothogenous
allotment
allotment's
allotments
allotransplant
allotransplantation
allotriodontia
allotriomorph
allotriomorphic
allotriophagia
allotriophagy
allotriuria
allotrope
allotropes
allotrophic
allotropic
allotropical
allotropically
allotropicity
allotropies
allotropism
allotropize
allotropous
allotropy
allotrylic
allots
allottable
allotted
allotee
allottees
allotter
allotters
allottery
allotting
allotype
allotypes
allotypic
allotypical
allotypically
allotypies
allotypy
allover
allover
allovers
allow
allowable
allowableness
allowably
allowance
allowance's
allowanced
allowances
allowancing
allowed
allowedly
allower
allowing
allows
alloxan
alloxanate
alloxanic
almose
almost
almous
alms
almsdeed
almsfolk
almsful
almsgiver
almsgiving
almshouse
almshouses
almsman
almsmen
almsmoney
almswoman
almswomen
almucantar
almuce
almuces
almud
almude
almudes
almuds
almuerzo
almug
almugs
almury
almuten
aln
alnage
alnager
alnagership
alnath
alnein
alnico
alnicoes
alniresinol
alniviridol
alnoite
alnuin
alnus
alo
alocasia
alochia
alod
aloddia
alodias
alodial
altaltissimo
altar
altar's
altarage
altered
altarist
altarlet
altarpiece
altarpieces
altars
altarwise
altazimuth
alter
alterability
alterable
alterableness
alterably
alterant
alterants
alterate
alteration
alteration's
alterations
alterative
alteratively
altercate
altercated
altercating
altercation
altercation's
altercations
altercative
altered
alteregoism
alteregoistic
alterer
alterers
altering
alterity
alterius
alterman
altern
alternacy
alternamente
alternance
alternant
alternariose
alternat
altilik
altiloquence
altiloquent
altimeter
altimeters
altimetre
altimetre
altimetry
altimetrically
altim
altincar
altinaceous
altininck
altiplane
altiplano
altiscope
altisonant
altisonous
altissimo
altitonen
alitude
altitudes
altitudinal
altitudinarian
altitudinous
alto
alto's
altocumulus
altogether
altogetherness
altoist
altimeter
altos
altostratus
altoun
altrices
altricial
altopathy
altrose
altruism
altruisms
altruist
altruistic
altruistically
altruists
alts
alschin
altumal
aluminotype
aluminous
alumins
aluminum
aluminums
aluminy
alumish
alumite
aluminium
alumna
alumna's
alumnae
alumnal
alumni
alumniate
alumnus
alumohydrocalcite
alumroot
alumroots
alums
alumstone
alundum
aluniferous
alunite
alunites
alunogen
alupag
alure
alurgite
alushtite
aluta
alutaceous
alvar
alvearies
alvearium
alveary
alveated
alvelos
alveloz
alveola
alveolae
alveolar
alveolariform
alveolarly
alveolars
alveolary
alveolate
alveolated
alveolation
alveole
alveoleectomy
alveoli
alveoliform
alveolite
alveolitis
alveoloclasia
alveolocondylean
alveolodental
alveololabial
alveololingual
alveolonasal
alveolosubnasal
alveolotomy
alveolus
alveus
alvia
alviducous
alvine
alvite
alvus
alw
alway
always
alwise
alwite
aly
alycompaine
alympphia
alymphopotent
alypin
alypine
alypum
alysson
alyssum
alyssums
alytarch
alzheimer
am
ama
amaas
amabile
amability
amable
amacratic
amacrinal
amacrine
amania
amanita
amanitas
amanitín
amanitine
amanitins
amanori
amanous
aman
amantadine
amante
amanillo
amanuenses
amanuensis
amapa
amar
amaracus
amarant
amarantaceous
amaranth
amaranthaceous
amaranthine
amaranthoid
amaranthas
amarantine
amarantite
amarelle
amareilles
amarettos
amarevole
amargosa
amargoso
amargosos
amarillo
amarillos
amarin
amarine
amaritude
amarity
amarna
amaroid
amaroidal
amarthritis
amarvel
amaryllid
amaryllidaceous
amaryllideous
amaryllis
ambassadorships
ambassadress
ambassage
ambassiate
ambassy
ambatch
ambatoarinite
ambay
ambe
ambeers
amber
amberfish
amberfishes
ambergrease
ambergris
amberies
amberiferous
amberina
amberite
amberjack
amberjacks
amberlike
amberoid
amberoids
amberous
ambers
ambery
ambiace
ambiances
ambicolorate
ambicoloration
ambidexter
ambidexterities
ambidexterity
ambidexterous
ambidextral
ambidextrous
ambidextrously
ambidextrousness
ambience
ambiaces
ambiency
ambiens
ambient
ambients
ambier
ambigenal
ambiguous
ambigu
ambiguities
ambiguity
ambiguity's
ambiguous
ambiguously
ambiguousness
ambilaevous
ambilateral
ambilaterallaterally
ambilaterality
ambilaterally
ambilevous
ambilian
ambiology
ambiopia
ambiparous
ambisextrous
ambisexual
ambisexualities
ambisexualty
ambisinister
ambisinistros
ambisporangiate
ambisyllabic
ambit
ambital
ambitendencies
ambitendency
ambitendent
ambition
ambition's
ambitioned
ambitioning
ambitionist
ambitionless
ambitionlessly
ambitions
ambitious
ambitiously
ambitiousness
ambits
ambitty
ambitus
ambivalence
ambivalency
ambivalently
ambivalent
ameboidism
amebous
amebula
ameed
ameen
ameer
ameerate
ameerates
ameers
ameiosis
ameiotic
amel
amelanchier
ameland
amelcorn
amelcorns
amelet
amelia
amelification
ameliorable
ameliorableness
ameliorant
ameliorate
ameliorated
ameliorates
ameliorating
amelioration
ameliorations
ameliorativ
ameliorative
amelioratively
ameliorator
amelioratory
amellus
ameloblast
ameloblastic
amelu
amelus
amen
amenability
amenable
amenableness
amenably
amenage
amenance
amend
amendable
amendableness
amidating
amidation
amide
amides
amidic
amidid
amidine
amidins
amidmost
amido
amidoacetal
amidoacetic
amidoacetophenone
amidoaldehyde
amidoazo
amidoazobenzene
amidoazobenzol
amidocaffeine
amidocapric
amidocyanogen
amidofluorid
amidofluoride
amidogen
amidogens
amidoguaiacol
amidohehexose
amidoketone
amidol
amidols
amidomyelin
amidon
amidone
amidophenol
amidophosphoric
amidoplast
amidoplastid
amidopyrine
amidosuccinamic
amidosulphonal
amidothiazole
amidoxime
amidoxy
amidoxyl
amidrazone
amids
amidship
amidships
amidst
amidstream
amidulin
amidward
amie
amies
amiga
amigas
amigo
amigos
amil
amildar
amimia
amimide
amin
aminase
aminate
aminated
aminating
amination
aminded
amine
amines
amini
aminic
aminish
aminities
aminity
aminization
aminize
amino
aminoacetal
aminoacetanilide
aminoacetic
aminoacetone
aminoacetophenetidine
aminoacetophenone
aminoacidemia
aminoaciduria
aminoanthraquinone
aminazo
aminoazobenzene
aminobarbituric
aminobenzaldehyde
aminobenzamide
aminobenzene
aminobenzine
aminobenzoic
aminocapric
aminodiphenyl
aminoethionic
aminoformic
aminogen
aminoglutaric
aminoguanidine
aminoid
aminoketone
aminolipin
aminolysis
aminolytic
aminomalonic
aminomyelin
aminopeptidase
aminophenol
aminopherase
aminophylline
aminoplast
aminoplastic
aminopolypeptidase
aminopropionic
aminopurine
aminopyrine
aminquin
aminoquinoline
aminosis
aminosuccinamic
aminosulphonic
aminothiophen
aminotransferase
aminotriazole
aminovaleric
aminoxylol
amins
amir
amiral
amirate
amirates
amiray
amire
amirs
amirship
amis
amish
amiss
amissibility
ammonization
ammono
ammonobasic
ammonocarbonic
ammonocarbonous
ammonoid
ammonoideal
ammonoids
ammonolitic
ammonolyses
ammonolysis
ammonolytic
ammonolyze
ammonolyzed
ammonolyzing
ammophilous
ammoresinol
ammoreslinol
ammos
ammotherapy
ammu
ammunition
amn't
amnmonic
amnesia
amnesiac
amnesiacs
amnesias
amnesic
amnesics
amnestied
amnesties
amnesty
amnestying
amnia
amniac
amniatic
amnic
amninia
amminions
amnioallantoic
amniocentesis
amniochorial
amniolepsis
amniomancy
amnion
amnionate
amnionia
amnionic
amnions
amniorrhea
amnios
amniota
amniote
amniotes
amniotic
amniotin
amniotitis
amniotome
amobarbital
amober
amobyrr
amoeba
amoeba's
amoebae
amoebaea
amoebaean
amoebaeum
amoebalike
amoeban
amoebas
amoebean
amoebum
amoebian
amoebiasis
amoebic
amoebicidal
amoebicide
amoebid
amoebiform
amoebocyte
amoeboid
amoeboidism
amoebous
amoebula
amoibite
amoinder
amok
amoke
amoks
amole
amoles
amolilla
amolish
amollish
amomal
amomum
among
amongst
amontillado
amontillados
amor
amora
amorado
amoraic
amoraïm
amoral
amoralism
amoralist
amorality
amoralize
amorally
amoret
amoretti
amoretto
amoretto
amorini
amorino
amorism
amorist
amoristic
amorists
amorite
amornings
amorosa
amorosity
amoroso
amorous
amorously
amorousness
amorph
amorpha
amorphi
amorphia
amorphic
amorphinism
amorphism
amorphophyte
amorphotae
amorphous
amorphously
amorphousness
amorphozoa
amphibiotic
amphibious
amphibiously
amphibiousness
amphibium
amphiblastic
amphiblastula
amphiblestritis
amphibole
amphiboles
amphibia
amphibolic
amphibolies
amphiboliferous
amphiboline
amphibolite
amphibolitic
amphibological
amphibologically
amphibologies
amphibologism
amphibology
amphibolostyloous
amphibolous
amphiboly
amphibrach
amphibrachic
amphibryous
amphicarpia
amphicarpic
amphicarpium
amphicarpogenous
amphicarpous
amphicarpus
amphicentric
amphichroic
amphichrom
amphichromatic
amphichrome
amphichromy
amphicoelian
amphicoelous
amphicome
amphicondyloous
amphicrania
amphicreatinine
amphicribral
amphictyon
amphictyonian
amphictyonic
amphictyonies
amphictyons
amphictyony
amphicyrtic
amphicyrtous
amphicytula
amphid
amphide
amphidesmous
amphidetic
amphidiarthrosis
amphidiploid
amphidiplody
amphidisc
amphidiscophoran
amphidisk
amphidromia
amphidromatic
amphierotic
amphierotism
amphigaean
amphigam
amphigamous
amphigastria
amphigastrium
amphigastrula
amphigean
amphigen
amphigene
amphigenesis
amphigenetic
amphigenous
amphigenously
amphigonia
amphigonic
amphigonamine
amphigonomous
amphigony
amphigoric
amphigories
amphigory
amphigouri
amphigouris
amphikaryon
amphikaryotic
amphilogism
amphilogy
amphimacer
amphimictic
amphimictical
amphimictically
amphimixes
amphimixis
amphimorula
amphimorulae
amphineurous
amphineucleus
amphion
amphioxi
amphioxis
amphioxus
amphioxuses
amphipeptone
amphiphythrya
amphiphloic
amphiplatyian
amphiploid
amphiploidy
amphipneust
amphipneustic
amphipod
amphipoda
amphipodal
amphipodan
amphipodiform
amphipodous
amphipods
amphiprostylar
amphiprostyle
amphiprotic
amphipyrenin
amphirhinal
amphirhine
amphisarca
amphisbaena
amphisbaenae
amphisbaenas
amphisbaenian
amphisbaenic
amphisbaenid
amphisbaenoid
amphisbaenous
amphiscians
amphiscii
amphispermous
amphisporangiate
amphispor
amphistomatic
amphistome
amphistomoid
amphistemous
amphistylar
amphistylic
amphistyly
amphitene
amphithalami
amphithalamus
amphithalmi
amphitheater
amphitheater's
amphitheatered
amphitheaters
amphitheatral
amphitheatre
amphitheatric
amphitheatrical
amphitheatrally
amphitheccia
amphithecia
amphithecial
amphitheci
amphithect
amphithere
amphithura
amphithuron
amphithurons
amphithuruthura
amphithyra
amphithyron
amphithyrons
amphitokal
amphitokous
amphitoky
amphitriaene
amphitricha
amphitrichate
amphitrichous
amphitrite
amphitron
amphitropical
amphitropous
amphitryon
amphiuna
amphivasal
amphivorous
amphodarch
amphodelite
amphodiplopia
amphogenic
amphogenous
amphogeny
ampholyte
ampholytic
amphopeptone
amphophil
amphophile
amphophilic
amphophilous
amphora
amphorae
amphoral
amphoras
amphore
amphorette
amphoric
amphoricity
amphoriloquy
amphoriskoi
amphoriskos
amphorophony
amphorous
amphoteric
amphotericin
ampicillin
ampitheater
ample
amplect
amplectant
ampleness
ampler
amplest
amplex
amplexation
amplexicaudate
amplexicaul
amplexicauline
amplexifoliate
amplexus
amplexuses
ampliate
amurcous
amus
amusable
amuse
amused
amusedly
amusee
amusement
amusement's
amusements
amuser
amusers
amuses
amusette
amusia
amusias
amusing
amusingly
amusingness
amusive
amusively
amusiveness
amutter
amuyon
amuyong
amuze
amuzzle
amvis
amy
amyatonic
amyctic
amydon
amyelencephalia
amyelencephalic
amyelencephalous
amyelia
amyelic
amyelinic
amyelonic
amyelotrophy
amyelous
amygdal
amygdala
amygdalaceous
amygdalae
amygdalase
amygdalate
amygdale
amygdalec-tomy
amygdales
amygdalic
amygdaliferous
amygdaliform
amygdalin
amygdaline
amygdalinic
amygdalitis
amygdaloid
amygdaloidal
amygdalolith
amygdaloncus
amygdalopathy
amygdalothripsis
amygdalotome
amygdalotomy
amygdonitrite
amygdophenin
amygdule
amygdules
amyl
amylaceous
amylamine
amylan
amylase
amylases
amylate
amylemia
amylene
amylenses
amylensol
amyllic
amylidene
amyliferous
amylin
amyllo
amylcellulose
amylloclastic
amylcoagulate
amylodextrin
amylodyspepsia
amylogen
amylogenesis
amylogenic
amylogens
amylhydrolysis
amylhydrolytic
amyloid
amyloidal
amyloidoses
amyloidosis
amyloids
amyloleucite
amylolysis
amyloytic
amyлом
amylose
amyloids
amyloleucite
amylolysis
amyloytic
amyлом
amylose
amyloids
amyloleucite
amylolysis
amyloytic
amyлом
amylose

anacamptics
anacamptometer
anacanth
anacanthine
anacanthous
anacara
anacard
anacardiaceous
anacardic
anacatadidymus
anacatharsis
anacathartic
anacephalaeosis
anacephalize
anacharis
anachoret
anachorism
anachromasis
anachronic
anachronical
anachronically
anachronism
anachronism's
anachronismatical
anachronisms
anachronist
anachronistic
anachronistical
anachronistically
anachronize
anachronous
anachronously
anachueta
anacid
anacidity
anack
anaclasis
anaelastic
anaelastics
anaclete
anaclética
anacleticum
anaclinal
anaclisis
anaclitic
anacoenoses
anacoenosis
anacolutha
anacoluthia
anacoluthic
anacoluthically
anacoluthon
anacoluthons
anacolutha
anaconda
anacondas
anacoustic
anacreontic
anacrisis
anacrogynae
anacrogynous
anacromyodian
anacrotic
anacrotism
anacruses
anacrusis
anacrustic
anacrustically
anaculture
anacusia
anacusic
anacusis
anadem
anadems
anadenia
anadesm
anadicrotic
anadicrotism
anadidymus
anadiplosis
anadipsia
anadipsic
anadrom
anadromous
anaematosis
anaemia
anaemias
anaemic
anaemotropy
anaeretic
anaerobation
anaerobe
anaerobes
anaerobia
anaerobian
anaerobic
anaerobically
anaerobies
anaerobion
anaerobiont
anaerobiosis
anaerobiotic
anaerobiologically
anaerobious
anaerobism
anaerobium
anaerophyte
anaeroplastic
anaeroplasty
anaesthetic
anaesthesia
anaesthesiant
anaesthesiologist
anaesthesiology
anaesthesia
anaesthetic
anaesthetically
anaesthetics
anaesthetist
anaestheticization
anaesthetize
anaesthetized
anaesthetizer
anaesthetizing
anaesthyl
anaetiological
anagalactic
anagap
anagenesis
anagenetic
anagenetical
anagennesis
anagep
anagnoskosomena
anaglyph
anaglyphic
anaglyphical
anaglyphics
anaglyphoscope
anaglyphs
anaglyphy
anaglypta
anaglyptic
anaglyptical
anaglyptics
anaglyptograph
anaglyptographic
anaglyptography
anaglypton
anagnorises
anagnorisis
anagnost
anagnostes
anagoge
anagoges
anagogic
anagogical
anagogically
anagogics
anagogies
anagogy
anagram
anagram's
anagrammatic
anagrammatical
anagrammatically
anagrammatise
anagrammatised
anagrammatising
anagrammatism
anagrammatist
anagrammatization
anagrammatize
anagrammatized
anagrammatizing
anagrammed
anagramming
anagrams
anagraph
anagua
anagyrin
anagyrine
anahao
anahau
anaheim
anakinesis
anakinetic
anakinetomer
anakinetomeric
anakoluthia
anakrousis
anakrousis
anaktoron
anal
analabos
analagous
analav
analcime
analcmes
analcimic
analcmite
analcite
analmites
analcitite
analecta
analectic
analects
analemma
analemmas
analemmata
analemmatic
analepses
analepsis
analesy
analetic
analeptical
analgen
analgene
analgesia
analgesic
analgesics
analgesis
analgesist
analgetic
analgia
analgtas
analgic
analglize
analties
anality
analkalinity
anallagmatic
anallagmatic
anallantoic
anallantoidean
anallergic
analloy
analog
anologa
analogal
analogia
analytic
analytical
analytically
analyticities
analyticity
analytics
analytique
analyzability
analyzable
analyze
analyzed
analyzer
analyzers
analyzes
analyzing
anam
anama
anamesite
anametadromous
anamirtin
anamite
anammonid
anammonide
anamneses
anamnesis
anamnestic
anamnestically
anamnionic
anamniote
anamniotic
anamorphic
anamorphism
anamorphoscope
anamorphose
anamorphoses
anamorphosis
anamorphote
anamorphous
anan
anana
anapanas
anapanples
ananas
ananda
anandrarious
anandria
anandrious
anandrous
ananepionic
angioioid
anangular
anamias
anankastic
ananke
anankes
ananter
ananderate
ananterous
anathous
ananthropic
ananym
anapaest
anapaestic
anapaestical
anapaestically
anapaests
anapaganize
anapaite
anapanapa
anapeiratic
anapes
anapest
anapestic
anapestically
anapests
anaphalantiasis
anaphase
anaphases
anaphasic
anaphia
anaphora
anaphoral
anaphoras
anaphoria
anaphoric
anaphorical
anaphorically
anaphrodisia
anaphrodisiac
anaphroditic
anaphroditious
anaphylactic
anaphylactically
anaphylactin
anaphylactogen
anaphylactogenic
anaphylactoid
anaphylatoxin
anaphylaxis
anaphyte
anaplasia
anaplasis
anaplasm
anaplasmoses
anaplasmosis
anaplastic
anaplasty
anapleroses
anaplerosis
anaplerotic
anapnea
anapneic
anapnoeic
anapnoograph
anapnoic
anapnometer
anapodeictic
anapophyses
anapophysial
anapophysis
anapsid
anapsidan
anapterygote
anapterygotism
anapterygotos
anaptotic
anaptychi
anaptychus
anaptyctic
anaptyctical
anaptyxies
anaptyxis
anaqua
anarcestean
anarch
anarchal
anarchial
anarchic
anarchical
anarchically
anarchies
anarchism
anarchist
anarchist's
anarchistic
anarchists
anarchize
anarcho
anarchoidividualist
anarchosocialist
anarchosyndicalism
anarchosyndicalist
anarchs
anarchy
anarcotin
anareta
anaretic
anaretical
anargyroi
anargyros
anarithia
anarithmia
anarthria
anarhric
anarthropod
anarthropodous
anarthrosis
anarthrous
anarthrously
anarthrousness
anartismos
anarya
anas
anasarca
anasarcas
anasarcous
anaschistic
anaseismic
anaspadias
anaspalin
anaspid
anastalsis
anastaltic
anastases
anastasimon
anastasimos
anastasis
anastate
anastatic
anastigmat
anastigmatic
anatomicals
anatomicobiological
anatomicochirurgical
anatomicomedical
anatomicopathologic
anatomicopathological
anatomicophysiological
anatomicophysicologic
anatomicosurgical
anatomies
anatomiless
anatomisable
anatomisation
anatomise
anatomised
anatomiser
anatomising
anatomism
anatomist
anatomists
anatomizable
anatomization
anatomicize
anatomized
anatomizer
anatomizes
anatomizing
anatomopathologic
anatomopathological
anatomy
anatopism
anatosaurus
anatox
anatoxin
anatoxins
anatreptic
anatripsis
anatripsology
anatriptic
anatron
anatropal
anatropia
anatropous
anatta
anatto
anattos
anaudia
anaudic
anchoretish
anchoretism
anchorets
anchorhold
anchoring
anchorite
anchorites
anchoritess
anchoritic
anchoritically
anchoritish
anchoritism
anchorless
anchorlike
anchorman
anchormen
anchors
anchorwise
anchory
anchoveta
anchovies
anchovy
anchusa
anchusas
anchusin
anchusine
anchusins
anchylose
anchylosed
anchylosing
anchylosis
anchylotic
ancien
ancience
anciency
anciennete
anciens
ancient
ancieter
ancientest
ancientism
anciently
ancientness
ancientry
ancients
ancienty
ancile
ancilia
ancilla
ancillae
ancillaries
ancillary
ancillas
ancille
ancipital
ancipitous
ancistrocladaceous
ancistrodon
ancistroid
ancle
ancodont
ancoly
ancome
ancon
ancona
anconad
anconagra
anconal
anconas
ancone
anconeal
anconei
anconeous
ancones
anconeus
anconitis
anconoid
ancony
ancor
ancora
ancoral
ancaerophobiya
ancre
anress
anresses
anctylopod
anctylose
anctylostome
anctylostomiasis
anctyroid
and
and/or
anda
andabata
andabatarian
andabatism
andalusanite
andamenta
andamento
andamentos
andante
andantes
andantini
andantino
andantinos
andean
anderson
anderun
andes
andesine
andesinite
andesite
andesites
andesitic
andesyte
andesytes
andia
anding
andirin
andirine
andiroba
andiron
andirons
andor
andorite
andoroba
andorra
andouille
andouillet
andouillette
andradite
andragogy
andranatomy
andrarchy
andre
andrena
andrenid
andrew
andrewartha
andrewsite
andric
andrite
anecdotalism
anecdotalist
anecdotally
anecdote
anecdote's
anecdotes
anecdotic
anecdotal
anecdotically
anecdotist
anecdotists
anecdysis
anechoic
anelace
anelastic
anelasticity
anele
anelectric
anelectrode
anelectrotonic
anelectrotonus
aneled
aneles
aneling
anelytrous
anematize
anematized
anematizing
anematosis
anemia
anemias
anemic
anemically
anemious
anemobiograph
anemochord
anemochore
anemochoric
anemochorous
anemoclastic
anemogram
anemograph
anemographic
anemographically
anemography
anemologic
anemological
anemology
angelfish
angelfishes
angelhood
angelic
angelica
angelical
angelically
angelicalness
angelicas
angelicic
angelicize
angelicness
angelico
angelim
angelin
angelina
angeline
angelinformal
angelique
angelito
angelize
angelized
angelizing
angellike
angelocracy
angelographer
angelolater
angelolatry
angelologic
angelological
angelology
angelomachy
angelon
angelophanic
angelophany
angelot
angels
angelship
angelus
angeluses
anger
angered
angering
angerless
angerly
angers
angevin
angeyok
angia
angiasthenia
angico
angiectasis
angiectopia
angiembryoscope
angietis
angild
angili
angilo
angina
anginal
anginas
anginiform
anginoid
anginophobie
anginose
anginous
angioasthenia
angioataxia
angioblast
angioblastic
angiocardiographic
angiocardiographies
angiocardiography
angiocardiitis
angiocarp
angiocarpian
angiocarpic
angiocarpous
angiocarp
angiocavernous
angiocholecystitis
angiocholitis
angiochondroma
angioclast
angiocyst
angiodermatitis
angiodiascopy
angioelephantiasis
angiofibroma
angiogenesis
angiogenic
angiogeny
angiogeny
angioglioma
angiogram
angiograph
angiographic
angiography
angiohemophilia
angiohyalinosis
angiohydrotomy
angiohypertonia
angiohypotonia
angioderma
angiokeratoma
angiolymphoma
angiomyoma
angiomalacia
angiomas
angiomatosis
angiomatosus
angiomegaly
angionieme
angiomyocardiac
angiomyomatosis
angiomyosarcoma
angioneoplasty
angioneurosis
angioneurotic
angioma
angioneurism
angioneurism
angionoisis
angionecrosis
angioparalysis
angioparalytic
angiopathy
angioplastic
angioplasty
angioplasty
angiopathic
angiopath
angiopathy
angiopathy
angiopathy
angiopathy
angiopathy
anglesite
anglesmith
angletoch
anglewitch
anglewing
anglewise
angleworm
angleworms
angliae
anglian
anglians
anglican
anglicanism
anglicanisms
anglicans
anglice
anglicisation
anglicism
anglicisms
anglicist
anglicization
anglicize
anglicized
anglicizes
anglicizing
anglify
anglimaniac
angling
anglings
anglish
anglo
angloid
angloman
anglomania
anglophil
anglophile
anglophiles
anglophilia
anglophiliac
anglophilic
anglophilism
anglophily
anglophobe
anglophobes
anglophobia
anglophobic
anglos
ango
angulate
angulated
angulately
angulateness
angulates
angulating
angulation
angulatogibbous
angulatosinuous
angule
anguliferous
angulinerved
angulodentate
angulometer
angulose
angulosity
angulosplenial
angulous
angulus
anguria
angus
anguses
angust
angustate
angustia
angusticlavé
angustifoliate
angustifolious
angustirostrate
angustisellate
angustisepetal
angustisepitate
angustura
angwantibo
angwich
anhaematopoiesis
anhaematosis
anhaemolytic
anhalamine
anhaline
anhalonidine
anhalonin
anhalonine
anhalouidine
anhang
anharmonic
anhedonia
anhedonic
anhedral
anhedron
anhelation
anhele
anhelose
anhelous
anhematopoiesis
anhematosis
anhemitonic
anhemolytic
anhidrosis
anhidrotic
anhima
anharga
anharga
anhistic
anhistous
anhungered
anhungry
anhyd
anhydraemia
anhydraemic
anhydrate
anhydrated
anhydrating
anhydration
anhydremia
anhydremic
anhydric
anhydride
anhydrides
anhydridization
anhydridize
anhydrite
anhydrization
anhydrte
anhydroglucose
anhydroglyceria
anhydrosis
anhydrotic
anhydrous
anhydrously
anhydroxime
anhystereotic
ani
anicca
aniconic
aniconism
anicular
anicut
anidian
anidiomatic
anidiomatical
anidrosis
aniente
anientise
anigh
anight
anights
anil
anilao
anilau
anile
anileness
anilic
anilid
anilide
anilidic
anilidoxime
aniliid
anilin
anilinctus
aniline
anilines
anilingus
anilinism
anilino
anilinophile
anilinophilous
anilins
anilities
anility
anilla
anilopyrin
anilopyrine
anils
anim
anima
animability
animable
animableness
animacule
animadversal
animadversion
animadversional
animadversions
anisodactyl
anisodactyle
anisodactylic
anisodactylous
anisodont
anisogamete
anisogametes
anisogametic
anisogamic
anisogamous
anisogamy
anisogenous
anisogeny
anisognathism
anisognathous
anisogynous
anisoiconia
anisoin
anisokonia
anisol
anisole
anisoles
anisoleucocytosis
anisomelia
anisomelus
anisomeric
anisomerous
anisometric
anisometrope
anisometropia
anisometropic
anisomyarian
anisomyodian
anisomyodous
anisopetalous
anisophyllous
anisophylly
anisopia
anisopleural
anisopleurous
anisopod
anisopodal
anisopodous
anisopogonous
anisopteran
anisopterous
anisosepalous
anisospore
anisostaminous
anisostemonous
anisosthenic
anisostichous
anisostomous
anisotonic
anisotropical
anisotropically
anisotropies
anisotropism
anisotropous
anisotropy
anisoyl
anisum
anisuria
anisyl
anisylidene
anither
anitinstitutionalism
anitos
anitrogenous
anjan
ankara
ankaramite
ankaratrite
anke
anker
ankerhold
ankerite
ankerites
ankh
ankhs
ankle
ankle's
anklebone
anklebones
anklejack
ankles
anklet
anklets
anklong
anklung
ankus
ankuses
ankush
annalia
annaline
annalism
annalist
annalistic
annalistically
annalists
annalize
annals
annaly
annamese
annapolis
annary
annas
annat
annates
annats
annatto
annattos
anne
anneal
annealed
annealer
annealers
annealing
anneals
annect
annectant
annectent
annection
annelid
annelida
annelidan
annelidian
annelidous
annelids
annelism
anneloid
annerodite
annerre
annet
annex
annexa
annexable
annexal
annexation
annexational
annexationism
annuluses
annum
annumerate
annunciable
annunciade
annunciate
annunciated
annunciates
annunciating
annunciation
annunciations
annunciative
annunciator
annunciators
annunciatory
annus
anea
aneas
anobing
anocarpous
anocathartic
anociassociation
anociation
anocithesia
anococcygeal
anolal
anodally
anode
anode's
anodendron
anodes
anodic
anodically
anodine
anodization
anodize
anodized
anodizes
anodizing
anodon
anodontia
anodos
anodyne
anodynes
anodynia
anodynic
anodynous
anoegenetic
anomia
anomic
anomie
anomies
anomite
anomocarpous
anomodont
anomoeomery
anomophyllous
anomorphomboid
anomorphomboidal
anomouran
anomphalous
anomural
anomuran
anomurous
anomy
anon
anonaceous
anonad
anonang
anoncillo
anonol
anonychia
anonym
anonyma
anonyme
anonymities
anonymity
anonymous
anonymously
anonymousness
anonyms
anonymuncule
anoopsia
anoopsias
anoperineal
anophele
anopheles
anopheline
anophoria
anophthalmia
anophthalmos
anophyte
anopia
anopias
anopisthograph
anopisthographic
anopisthographically
anoplocephalic
anoploneumertean
anoplothere
anoplotheroid
anoplotherioid
anopluriform
anopsia
anopsias
anopsy
anopubic
anorak
anoraks
anorchi
anorchia
anorchism
anorchous
anorchus
anorectal
anorectic
anorectous
anoretic
anorexia
anorexiant
anorexias
anorexic
anorexics
anorexies
anorexigenic
anorexy
anorgana
anorganic
anorganism
anorganology
anormal
anormality
anorn
anorogenic
anorth
anorthic
anorthite
anorthitic
anorthitite
anorthoclase
anorthographic
anorthographical
anorthographically
anorthography
anorthophyre
anorthopia
anorthoscope
anorthose
anorthosite
anoscope
anoscopy
anosmatic
anosmia
anosmias
anosmic
anosognosia
anosphasia
anospheresia
anospinal
anostosis
anoterite
another
another's
another's guess
anotherkins
anotia
anotropia
anotta
anotto
anotus
anounou
anour
anoura
anoure
anourous
anova
anovesical
anovulant
anovular
anovulatory
anoxaemia
anoxaemic
anoxemia
anoxemias
anoxemic
anoxia
anoxias
anoxic
anoxidative
anoxybiosis
anoxybiotic
anoxyscope
anquera
anre
ans
ansa
ansa
ansar
ansarian
ansate
ansated
ansation
anschauung
anschluss
anserated
anserin
anserine
anserines
anserous
ansi
anspessade
anstoss
anstosse
ansu
ansulatie
answer
answerability
answerable
answerableness
answerably
answered
answerer
answerers
answering
answeringly
answerless
answerlessly
answes
ant
ant's
anta
antacid
antacids
antacrid
antadiform
antae
antaean
antaeus
antagonisable
antagonisation
antagonise
antagonised
antagonising
antagonism
antagonisms
antagonist
antagonist's
antagonistic
antagonistical
antagonistically
antagonists
antagonizable
antagonization
antagonize
antagonized
antagonizer
antagonizes
antagonizing
antagony
antal
antalgesic
antalgic
antalgics
antalgol
antalkali
antalkalies
antalkaline
antalkalis
antambulacral
antanaclatharic
antanaclasis
antanagoge
antanemic
antapex
antapexes
antaphrodisiac
antaphroditic
antapices
antapochea
antapodosis
antapology
antapoplectic
antarala
antaranga
antarachism
antarachist
antarachistic
antarachistical
antecessor
antechamber
antechambers
antechapel
antechoir
antechoirs
antechurch
anteclassical
antecloset
antecolic
antecommunion
antecsonantantal
antecornu
antecourt
antecoxal
antecubital
antecurvature
anted
antedate
antedated
antedates
antedating
antedawn
antediluvial
antediluvially
antediluvian
antedonin
antedorsal
anteed
antefact
antefebreile
antefix
antefixa
antefixal
antefixes
anteflected
anteflexed
anteflexion
antefurca
antefurcae
antefurcal
antefuture
antegarden
antegrade
antehall
antehistoric
antehuman
antehypophysis
antennular
antennulary
antenule
antenodal
antenoon
antenumber
antenuptial
anteoccupation
anteocular
anteopercle
anteoperculum
anteorbital
antepagment
antepagmenta
antepagments
antepalatal
antepartum
antepaschal
antepaschel
antepast
antepasts
antepatriarchal
antepectoral
antepactus
antependia
antependium
antependiums
antepenuit
antepenult
antepenultima
antepenultimate
antepenults
antephalthic
antepileptic
antepirrhema
antepone
anteporch
anteport
anteportico
anteporticoes
anteporticos
anteposition
anteposthumous
anteprandial
antepredicament
antepredicamental
antepreterit
antepretonic
anteprohibition
anteprostatic
antepyretic
antequalm
antereformation
antereformational
anteresurrection
anterethic
anterevolutional
anterevolutionary
antergic
anteri
anteriad
anterin
anterior
anteriority
anteriorly
anteriorness
anteriors
anteriogancer
anteroclusion
anterodorsal
anteroexternal
anterofixation
anteroflexion
anterofrontal
anterograde
anteroinferior
anterointerior
anterointernal
anterolateral
anterolaterally
anteromedial
anteromedical
anteroom
anteroome
anteroparietal
anteroposterior
anteroposteriorly
anteropygal
anterospinal
anterosuperior
anteroventral
anteroventrally
antes
antescript
antesignani
antesignanus
antespring
antestature
antesternal
antesternum
antesunrise
antesuperior
antetemple
antethem
antetype
antetypes
antevenient
anteversion
antevert
anteverted
anteverting
anteverts
antevocalic
antewar
anthdia
anthecological
anthecologist
anthecology
anthela
anthelae
anthelia
anthelices
anthelion
anthelions
anthelix
anthelmintic
anthelmintic
anthem
anthem's
anthema
anthemas
anthemata
anthemed
anthemene
anthemia
antheming
anthemion
anthemis
anthems
anthemwise
anthemy
anther
antheral
antherid
antheridia
antheridal
antheridiophore
antheridium
antherids
antheriferous
antheriform
antherine
antherless
antherogenous
antheroid
antherozoid
antherozoidal
antherozooid
antherozooidal
anthers
antheses
anthesis
anthesterin
anthesterol
antheximeter
anthill
anthills
anthine
anthobian
anthobiology
anthocarp
anthocarpous
anthocepalous
anthocerote
anthochlor
anthochlorine
anthoclinium
anthocyan
anthocyanidin
anthocyanin
anthodia
anthodium
anthoecological
anthoecologist
anthoecology
anthogenesis
anthogenetic
anthogenous
anthography
anthoid
anthokyan
anthol
antholite
anthological
anthologically
anthologies
anthologion
anthologise
anthologised
anthologising
anthologist
anthologists
anthologize
anthologized
anthologizer
anthologizes
anthologizing
anthology
antholysis
anthomania
anthomaniac
anthomedusan
anthomyiid
anthony
anthood
anthophagous
anthophagy
anthophile
anthophilian
anthophilous
anthophobia
anthophore
anthophorous
anthophylite
anthophylitic
anthophyte
anthorine
anthos
anthosiderite
anthotaxis
anthotaxy
anthotropic
anthotropism
anthoxanthin
anthozoa
anthozoan
anthozoic
anthozooid
anthozooon
anthracemia
anthracemia
anthracene
anthraceniferous
anthraces
anthraclysone
anthracia
anthracic
anthraciferous
anthracin
anthracite
anthracitic
anthraciferous
anthracitious
anthracitism
anthracitization
anthracitous
anthracnose
anthracnosis
anthracocide
anthracoid
anthracolithic
anthracomancy
anthracomartian
anthracometer
anthracometric
anthraconecrosis
anthraconite
anthracosilicosis
anthracosis
anthracothere
anthracotic
anthracoxen
anthracyl
anthradiol
anthradiquinone
anthraflavic
anthragallol
anthrahydroquinone
anthralin
anthramin
anthramine
anthranil
anthranilate
anthranilic
anthranol
anthranone
anthranoyl
anthranyl
anthraphenone
anthrapurpurin
anthrapyridine
anthraquinol
anthraquinone
anthraquinonyl
anthrarufin
anthrasilicosis
anthratetrol
anthrathiophene
anthratriol
anthrax
anthraxolite
anthraxylon
anthribid
anthrohopobiological
anthroic
anthrole
anthrone
anthrop
anthrophore
anthropic
anthropical
anthropobiologist
anthropobiology
anthropocentric
anthropcentrically
anthropocentricity
anthropocentrism
anthropoclimatologist
anthropoclimatology
anthropocosmic
anthropodeoxycholic
anthropogenesis
anthropogenetic
anthropogenic
anthropogenist
anthropogenous
anthropogeny
anthropogeographer
anthropogeographic
anthropogeographical
anthropogeography
anthropoglott
anthropogy
anthropographic
anthropography
anthropoid
anthropoidal
anthropoidea
anthropoidean
anthropoids
anthropol
anthropolater
anthropolatric
anthropolatry
anthropolite
anthropolith
anthropolithic
anthropolitic
anthropologic
anthropological
anthropologically
anthropologies
anthropologist
anthropologist's
anthropologists
anthropology
anthropomancy
anthropomantic
anthropomantist
anthropometer
anthropometric
anthropometrical
anthropometrically
anthropometrist
anthropometry
anthropomophitism
anthropomorph
anthropomorphic
anthropomorphical
anthropomorphically
anthropomorphisation
anthropomorphise
anthropomorphised
anthropomorphising
anthropomorphism
anthropomorphisms
anthropomorphist
anthropomorphite
anthropomorphitic
anthropomorphitical
anthropomorphitism
anthropomorphization
anthropomorphize
anthroposophist
anthroposophy
anthropoteleoclogy
anthropoteleological
anthropotheism
anthropotheist
anthropotheistic
anthropotomical
anthropotomist
anthropotomy
anthropotoxin
anthropozoic
anthropurgic
anthroropolith
anthroxan
anthroxanic
anthryl
anthrylene
anththeridia
anthurium
anthypnotic
anthypophora
anthypophoretic
anti
antiabolitionist
antiaborótion
antiabrasion
antiabrin
antiabsolutist
antiacid
antiadiaphorist
antiaditis
antiadministration
antiae
antiaesthetic
antiaiger
antiagglutinant
antiagglutinating
antiagglutination
antiagglutinative
antiagglutinin
antiaggression
antiaggressionist
antiaggressive
antiaggressively
antiaggressiveness
antiarcraft
antialbumid
antialbumin
antialbumose
antialcoholic
antialcoholism
antialcoholist
antialdoxime
antialexin
antialien
antiamboceptor
antiamusement
antiamylase
antianaphylactogen
antianaphylaxis
antianarchic
antianarchist
antiangular
antiannexation
antiannexationist
antianopheline
antianthrax
antianthropocentric
antianthropomorphism
antiantibody
antiantidote
antiantienzyme
antiantitoxin
antiangiody
antiaphrodisiac
antiaphthic
antiapoplectic
antiapostle
antiaquatic
antiar
antiarin
antiarins
antiaristocracies
antiaristocracy
antiaristocrat
antiaristocratic
antiaristocratical
antiaristocratically
antiarrhythmic
antiars
antiarthritic
antiascetic
antiasthmatic
antiastronomical
antiatheism
antiatheist
antiatheistic
antiatheistical
antiatheisticaly
antiatom
antiatoms
antiatonement
antiattrition
antiauthoritarian
antiauthoritarianism
antiautolysin
antiauxin
antibacchic
antibacchii
antibacchius
antibacterial
antibacteriolytic
antiballistic
antiballooner
antibalm
antibank
antibaryon
antibasilican
antibenzaldoxime
antiberiberin
antibias
antibibiolatry
antibigotry
antibilious
antibiont
antibiosis
antibiotic
antibiologically
antibiotics
antibishop
antiblack
antiblackism
antiblastic
antiblenorrhagic
antiblock
antiblue
antibodies
antibody
antiboss
antiboxing
antibrachial
antibreakage
antibridal
antibromic
antibubonic
antibug
antiburgher
antibusing
antic
antic's
antica
anticachectic
antical
anticalcimine
anticalculeous
anticalligraphic
antically
anticamera
anticancer
anticancerous
anticapital
anticapitalism
anticapitalist
anticapitalistic
anticapitalistically
anticapitalists
anticar
anticardiac
anticardium
anticarious
anticarnivorous
anticaste
anticatalase
anticatalyst
anticatalytic
anticatalytically
anticatalyzer
anticatarrhal
anticathexis
anticathode
anticatholic
anticausotic
anticaustic
ant censorial
ant censorious
ant censoriously
ant censoriousness
ant censorship
ant centralism
ant centralist
ant centralization
anticephalalgic
anticeremonial
anticeremonialism
anticeremonialist
anticeremonially
anticeremonious
anticeremoniously
anticeremoniousness
antichamber
antichance
anticheater
antichlor
antichlorine
antichloristic
antichlorotic
anticholagogue
anticholinergic
anticholinesterase
antichoromanic
antichorus
antichreses
antichresis
antichretic
antichrist
antichrastic
antichristian
antichristianism
antichristianity
antichristianly
antichrists
antichrome
antichronical
antichronically
antichronism
antichthon
antichthones
antichurch
antichurchian
antichymosin
anticipant
anticipatable
anticipate
anticipated
anticipates
anticipating
anticipatingly
anticipation
anticipations
anticipative
anticoagulants
anticoagulate
anticoagulating
anticoagulation
anticoagulative
anticoagulator
anticoagulin
anticodon
anticogitative
anticoincidence
anticold
anticolic
anticomination
anticomet
anticomment
anticommercial
anticommercialism
anticommercialist
anticommercialistic
anticommerciality
anticommercially
anticommercialness
anticommunism
anticommunist
anticommunistic
anticommunistical
anticommunistically
anticommunists
anticommutative
anticompetitive
anticomplement
anticomplementary
anticomplex
anticonductor
anticonfederationism
anticonfederationist
anticonfederative
anticonformist
anticonformities
anticonformity
anticonsience
anticonscription
anticonscriptive
anticonservative
anticonservatively
anticonservativeness
anticonstitution
anticonstitutional
anticonstitutionalism
anticonstitutionalist
anticonstitutionally
anticontagion
anticontagionist
anticontagious
anticontagiously
anticontagiousness
anticonvallent
anticonvention
anticonventional
anticonventionalism
anticonventionalist
anticonventionally
anticonvulsant
anticonvulsive
anticor
anticorn
anticorona
anticorrosion
anticorrosive
anticorrosively
anticorrosiveness
anticorrosives
anticorset
anticosine
anticosmetic
anticosmetics
anticouncil
anticourt
anticourtier
anticous
anticovenanter
anticovenanting
anticreational
anticreational
anticreational
anticreationism
anticreationalist
anticreative
anticreatively
anticreativeness
anticreativity
anticreator
anticreep
anticreeper
anticreeping
anticrepuscular
anticrepuscule
anticrisis
anticritic
anticritical
anticritically
anticriticalness
anticritique
anticrochet
anticrotalic
anticryptic
anticryptically
antics
anticularia
anticult
anticum
anticus
anticyclic
anticyclical
anticyclically
anticyclogenesis
anticyclolysis
anticyclone
anticyclones
anticyclonic
anticyclonically
anticynic
anticynical
anticynically
anticynicism
anticytolysin
anticytotoxin
antidactyl
antidancing
antidecalogue
antideflation
antidemocracies
antidemocracy
antidemocrat
antidemocratic
antidemocratically
antidemoniac
antidepressant
antidepressants
antidepressive
antiderivative
antidetonant
antidetonating
antidiabetic
antidiastase
antidicomarianite
antidictionary
antidiffuser
antidinic
antidiphtheria
antidiphtheric
antidiphtherin
antidiphtheritic
antidisestablishmentarian
antidisestablishmentarianism
antidiuretic
antidivine
antidivorce
antidogmatic
antidogmatical
antidogmatically
antidogmatism
antidogmatist
antidomestic
antidomestically
antidominican
antidora
antidoron
antidotal
antidotally
antidotary
antidote
antidote's
antidoted
antidotes
antidotical
antidotically
antidoting
antidotism
antidraft
antidrag
antidromal
antidromic
antidromically
antidromous
antidromy
antidrug
antiduke
antidumping
antidynamic
antidynastic
antidynastical
antidynastically
antidynasty
antidyscratic
antidysenteric
antidysuric
antiecclesiastic
antiecclesiastical
antiecclesiastically
antiecclesiasticism
antiedemic
antieducation
antieducational
antieducationalist
antieducationally
antieducationist
antiegoism
antiegoist
antiegoistic
antiegoistical
antiegoistically
antiegotism
antiegotist
antiegotistic
antiegotistical
antiegotistically
antiejaculation
antielectron
antielectrons
antiemetic
antiemperor
antiempiric
antiempirical
antiempirically
antiempiricism
antiempiricist
antiendotoxin
antiendowment
antienergistic
antient
antienthusiasm
antienthusiast
antienthusiastic
antienthusiastically
antienvironmentalism
antienvironmentalist
antienvironmentalists
antienzymatic
antienzyme
antienzymic
antiepicenter
antiepileptic
antiepiscopal
antiepiscopist
antiepithelial
antierosion
antierosive
antierysipelas
antiestablishment
antiethnic
antieugenic
antievangelical
antievolution
antievolutional
antievolutionally
antievolutionary
antievolutionist
antievolutionistic
antiexpansion
antiexpansionism
antiexpansionist
antiexporting
antiexpressionism
antiexpressionist
antiexpressionistic
antiexpressive
antiexpressively
antiexpressiveness
antieyestrain
antiface
antifaction
antifame
antifanatic
antifascism
antifascist
antifascists
antifat
antifatigue
antifebrile
antifebrin
antifebral
antifederal
antifederalism
antifederalist
antifelon
antifelony
antifeminism
antifeminist
antifeministic
antiferment
antifermentative
antiferroelectric
antiferromagnet
antiferromagnetic
antiferromagnetism
antifertility
antifertilizer
antifeudal
antifeudalism
antifeudalist
antifeudalistic
antifeudalization
antifibrinolysin
antifibrinolysis
antifideism
antifire
antiflash
antiflattering
antiflatusent
antiflux
antifoam
antifoaming
antifoggant
antifogmatic
antiforeign
antiforeignism
antiformant
antiformin
antifouler
antifouling
antifowl
antifreeze
antifreezes
antifreezing
antifriction
antifrictional
antifrost
antifundamentalism
antifundamentalist
antifungal
antifungin
antigalactagogue
antigalactic
antigambling
antiganting
antigay
antigen
antigen's
antigene
antigenes
antigenic
antigenically
antigenicity
antigens
antighostism
antigigmanic
antiglare
antiglobulin
antiglyoxalase
antignostic
antignostical
antigod
antigone
antigonococcic
antigonorrhoeic
antigorite
antigovernment
antigovernmental
antigovernmentally
antigraft
antigrammatical
antigrammatically
antigrammaticalness
antigraph
antigrophy
antigravitate
antigravitation
antigravitational
antigravitationally
antigravity
antigropelos
antigrowth
antiguggler
antigun
antigyrous
antihalation
antiharmonist
antihectic
antihelices
antihelix
antihelixes
antihelminthic
antihemagglutinin
antihemisphere
antihemoglobin
antihemolysin
antihemolytic
antihemophilic
antihemorrhagic
antihemorrheidal
antihero
antiheroes
antiheroic
antiheroism
antiheterolysin
antihidrotic
antihierarchal
antihierarchic
antihierarchical
antihierarchically
antihierarchies
antihierarchism
antihierarchist
antihierarchy
antihistamine
antihistamines
antihistaminic
antihistorical
antiholiday
antihormone
antihuff
antihum
antihuman
antihumanism
antihumanist
antihumanistic
antihumbuggist
antihunting
antihydrophobic
antihydroptic
antihydropin
antihygienic
antihygienically
antihylist
antihypertensive
antihypertensives
antihypnotic
antihypnotically
antihypochondriac
antihypophora
antihysteric
antiinflammatories
antiinflammatory
antiinstitutionalist
antiinstitutionalists
antiinsurrectionally
antiinsurrectionists
antijam
antikathode
antikenotoxin
antiketogen
antiketogenesis
antiketogenic
antikinase
antiking
antikings
antiknock
antiknocks
antilabor
antilaborist
antilacrosse
antilacrosser
antilactase
antilapsarian
antilapse
antileague
antileak
antileft
antilegalist
antilegomena
antilemic
antilens
antilepsis
antileptic
antilepton
antilethargic
antileukemica
antileveling
antilevelling
antiliberal
antiliberalism
antiliberalist
antiliberalistic
antiliberally
antiliberalness
antiliberals
antilibration
antilife
antilift
antilipase
antilipoid
antiliquor
antilithic
antilitter
antiliturgic
antiliturgical
antiliturgically
antiliturgist
antiliturgy
antilles
antilobium
antiloemic
antilog
antilogarithm
antilogarithmic
antilogarithms
antilogic
antilogical
antilogies
antilogism
antilogistic
antilogistically
antilogous
antilogous
antilogs
antilogy
antiloemic
antilopine
antiloquy
antilottery
antiluetic
antiluetin
antilynching
antilysin
antilysis
antilyssic
antilytic
antimacassar
antimacassars
antimachination
antimachine
antimachinery
antimagistratical
antimagnetic
antimalaria
antimalarial
antimale
antimallein
antiman
antimaniac
antimaniacal
antimark
antimartyr
antimask
antimasker
antimasks
antimason
antimasque
antimasquer
antimasquerade
antimaterialism
antimaterialist
antimaterialistic
antimaterialistically
antimatrimonial
antimatrimonialist
antimatter
antimechanism
antimechanist
antimechanistic
antimechanistically
antimechanization
antimediaeval
antimediaevalism
antimediaevalist
antimediaevally
antimedical
antimedically
antimedication
antimedlicative
antimedicine
antimedieval
antimedievalism
antimedievalist
antimedievally
antimelancholic
antimellin
antimeningococcic
antimensia
antimension
antimensium
antimephitic
antinere
antimodernly
antimodernness
antimonarch
antimonarchal
antimonarchally
antimonarchial
antimonarchic
antimonarchically
antimonarchicalness
antimonarchism
antimonarchist
antimonarchistic
antimonarchists
antimonarchy
antimonate
antimonial
antimoniate
antimoniated
antimonic
antimonid
antimonide
antimonies
antimoniferous
antimonious
antimonite
antimonium
antimoniuret
antimoniureted
antimoniuretted
antimonopolism
antimonopolist
antimonopolistic
antimonopolization
antimonopoly
antimonous
antimonsoon
antimony
antimonyl
antimoral
antimoralism
antimoralist
antimoralistic
antimorality
antimosquito
antimusical
antimusically
antimusicalness
antihilist
antihilistic
antinion
antinodal
antinode
antinodes
antinoise
antinome
antinomian
antinomianism
antinomians
antinomic
antinomical
antinomies
antinomist
antinomy
antinoness
antinormal
antinormality
antinormalness
antinosarian
antinovel
antinovelist
antinovels
antinucleon
antinucleons
antinuke
antiodont
antiodontalgic
antiopełmous
antiophthalmic
antiopium
antiopiumist
antiopiumite
antioptimism
antioptimist
antioptimistic
antioptimistical
antioptimistically
antioptionist
antiorgastic
antiorthodox
antiorthodoxly
antiorthodoxy
antioxidant
antioxidants
antioxidase
antioxidizer
antioxidizing
antioxygen
antioxygenating
antioxygenation
antioxygenator
antioxygenic
antiozonant
antipacifism
antipacifist
antipacifistic
antipacifists
antipapacy
antipapal
antipapalist
antipapism
antipapist
antipapistic
antipapistical
antiparabema
antiparabemata
antiparagraphe
antiparagraphic
antiparallel
antiparallelogram
antiparalytic
antiparalytical
antiparasitic
antiparasitical
antiparastatitis
antiparliament
antiparlimental
antiparlimentarian
antiparlimentarians
antiparlimentarist
antiparlimentary
antiparliamenteer
antipart
antiparticle
antiparticles
antipass
antipasti
antipastic
antipasto
antipastos
antipatharian
antipathetic
antipathetical
antipathetically
antipatheticalness
antipathic
antipathies
antipathist
antipathize
antipathogen
antipathogene
antipathogenic
antipathy
antipatriarch
antipatriarchal
antipatriarchally
antipatriarchy
antipatriot
antipatriotic
antipatriotically
antipatriotism
antipedal
antipeduncular
antipellagric
antipendium
antipepsin
antipeptone
antiperiodic
antiperistalsis
antiperistaltic
antiperistasis
antiperistatic
antiperistatical
antiperistatically
antipersonnel
antiperspirant
antiperspirants
antiperthite
antipestilence
antipestilent
antipestilential
antipestilently
antipetalous
antipewism
antiphagocytic
antipharisaic
antipharmic
antiphase
antiphilosophic
antiphilosophical
antiphilosophically
antiphilosophies
antiphilosophism
antiphilosophy
antiphlogistian
antiphlogistic
antiphlogistin
antiphon
antiphona
antiphonal
antiphonally
antiphonaries
antiphonary
antiphoner
antiphonetic
antiphonic
antiphonical
antiphonically
antiphonies
antiphonon
antiphons
antiphony
antiphrases
antiphrasis
antiphrastic
antiphrastical
antiphrastically
antipththic
antiphthisical
antiphtlyloxxeric
antiphtysic
antiphtysical
antiphtysically
antiphtysicalness
antiphtysician
antipill
antiplague
antiplanet
antiplastic
antiplatelet
antipleion
antiplenist
antiplethoric
antipleuritic
antiplurality
antipneumococcic
antipodagric
antipodagron
antipodal
antipode
antipode's
antipodean
antipodeans
antipodes
antipodic
antipodism
antipodist
antipoetic
antipoetical
antipoetically
antipoints
antipolar
antipole
antipolemist
antipoles
antipolitical
antipolitically
antipolitics
antipollution
antipolo
antipolygamy
antipolyneuritic
antipool
antipooping
antipope
antipopery
antipopes
antipopular
antipopularization
antipopulationist
antipopulism
antiportable
antiposition
antipot
antipoverty
antipragmatic
antipragmatical
antipragmatically
antipragmaticism
antipragmatism
antipragmatist
antiprecipitin
antipredeterminant
antiprelate
antiprelatic
antiprelatism
antiprelatist
antipreparedness
antiprestidigitation
antipriest
antipriestcraft
antipriesthood
antiprime
antiprimer
antipriming
antiprinciple
antiprism
antiproductionist
antiproducitive
antiproducively
antiproduciveness
antiprodutivity
antiprofiteering
antiprogressive
antiprohibition
antiprohibitionist
antiprojectivity
antiprophet
antiprotein
antiprostatic
antiprotease
antiproteolysis
antiproton
antiprotons
antiprotozoal
antiprudential
antipruritic
antipsalmist
antipsoric
antipsychiatry
antipsychotic
antiptosis
antipudic
antipuritan
antiputrefaction
antiputrefactive
antiputrescent
antiputrid
antipyic
antipyics
antipyonin
antipyresis
antipyretic
antipyretics
antipyrin
antipyrine
antipyrotic
antipyryl
antiq
antiqua
antiquarian
antiquarian's
antiquarianism
antiquarianize
antiquarianly
antiquarians
antiquaries
antiquarism
antiquarium
antiquartan
antiquary
antiquate
antiquated
antiquatedness
antiquates
antiquating
antiquation
antique
antique's
antiqued
antiquely
antiqueness
antiquer
antiquers
antiques
antiquing
antiquist
antiquitarian
antiquities
antiquity
antiquum
antirabic
antirabies
antiracemate
antiracer
antirachitic
antirachitically
antiracial
antiracially
antiracing
antiracism
antiradiant
antiradiating
antirepublican
antirepublicanism
antireservationist
antiresonance
antiresonator
antirestoration
antireticular
antirevisionist
antirevolution
antirevolutionaries
antirevolutionary
antirevolutionist
antirheumatic
antiricin
antirickets
antiriot
antiritual
antiritualism
antiritualist
antiritualistic
antirobin
antiroll
antiromance
antiromantic
antiromanticism
antiromanticist
antiroyal
antiroyalism
antiroyalist
antirhinitis
antirhinitic
antirun
antirust
antirusts
antisabbatarian
antisacerdotal
antisacerdotalist
antisag
antisaloon
antisalooner
antisavage
antiscabious
antiscalar
antiscale
antisepsis
antisepsic
antisepsical
antisepsicism
antischolastic
antischolastically
antischolasticism
antischool
antiscia
antiscians
antiscience
antiscientific
antiscientifically
antisci
antiscion
antiscolic
antiscorbutic
antiscorbatical
antiscryptural
antiscrypturism
antiscrofulous
antiseismic
antiselene
antisemite
antisemitic
antisemitism
antisensitivity
antisensitizer
antisensitizing
antisensuality
antisensuous
antisensuously
antisensuousness
antisepalous
antiseptic
antiseptical
antiseptically
antisepticise
antisepticised
antisepticising
antisepticism
antisepticist
antisepticize
antisepticized
antisepticizing
antiseptics
antiseption
antiseptize
antisera
antiserum
antiserums
antiserumsera
antisex
antisexist
antiship
antishipping
antisialagogue
antisialic
antisiccative
antisideric
antisilverite
antisimoniacal
antisine
antisiphon
antisiphonal
antiskeptic
antiskeptical
antiskepticism
antiskid
antiskidding
antislavery
antislaveryism
antislickens
antislip
antismog
antismoking
antismut
antisnapper
antisnob
antisocial
antisocialist
antisocialistic
antisocialistically
antisociality
antisocially
antisolar
antisophism
antisophist
antisophistic
antisophistication
antisophistry
antisoporific
antiaspace
antispadix
antispasis
antispasmodic
antispasmodics
antispast
antispastic
antispectroscopic
antispeculation
antispermotoxin
antispiritual
antispiritualism
antispiritualist
antispiritualistic
antispiritually
antispirochetic
antisplasher
antisplenic
antisplitting
antispreader
antispreading
antisquama
antisquatting
antistadholder
antistadholderian
antistalling
antistaphylococcic
antistat
antistate
antistater
antistatic
antistatism
antistatist
antisteapsin
antisterility
antistes
antistimulant
antistimulation
antistock
antistreptococcal
antistreptococcic
antistreptococcin
antistreptococcus
antistrike
antistriker
antistrophic
antistrophe
antistrophic
antistrophically
antistrophize
antistrophon
antistrumatic
antistrumous
antisubmarine
antisubstance
antisudoral
antisudorific
antisuffrage
antisuffragist
antisun
antisupernatural
antisupernaturalism
antisupernaturalist
antisupernaturalistic
antisurplician
antisymmetric
antisymmetrical
antisymmetry
antisyndicalism
antisyndicalist
antisyndication
antisynod
antisyphilitic
antitabetic
antitabloid
antitangent
antitank
antitarnish
antitarnishing
antitartaric
antitax
antitaxation
antiteetotalism
antitegula
antitemperance
antitetanic
antitetanolysin
antithalian
antitheft
antitheism
antitheist
antitheistic
antitheistical
antitheistically
antithenar
antitheologian
antitheological
antitheologizing
antitheology
antithermic
antithermin
antitheses
antithesis
antithesism
antithesize
antithet
antithetic
antithetical
antithetically
antithetics
antithrombic
antithrombin
antithyroid
antitintinnabularian
antitobacco
antitobacconal
antitobacconist
antitonic
antitorpedo
antitoxic
antitoxin
antitoxin's
antitoxine
antitoxins
antitrade
antitrades
antitradition
antitradiational
antitradiationalist
antitradiationally
antitragal
antitragi
antitragic
antitragicus
antitragus
antitrinitarian
antitrismus
antitrochanter
antitropical
antitropical
antitropic
antitropy
antitrust
antitruster
antitrypsin
antitryptic
antitryptic
antitubercular
antituberculosis
antituberculotic
antituberculous
antitumor
antitumoral
antiturnpikeism
antitussive
antitwilight
antitypal
antitype
antitypes
antityphoid
antitypic
antityypical
antitypically
antitypous
antitypy
antityrosinase
antiuating
antiunion
antiunionist
antiuratic
antiurease
antiusurious
antiutilitarian
antiutilitarianism
antivaccination
antivaccinationist
antivaccinator
antivaccinist
antivariolous
antivenefic
antivenene
antivenereal
antivenin
antivenine
antivenins
antivenom
antivenomous
antivermicular
antivibrating
antivibrator
antivibratory
antivice
antiviral
antivirotic
antivirus
antivitalist
antivitalistic
antivitamin
antivivisection
antivivisectionist
antivivisectionists
antivolition
antiwar
antiwarlike
antiwaste
antiwear
antiwedge
antiweed
antiwhite
antiwhitism
antiwit
antiworld
antixerophthalmic
antizealot
antizoea
antizymic
antizymotic
antjar
antler
antlered
antlerite
antlerless
antlers
antlia
antliate
antlike
antling
antlion
antlions
antliphobia
antluetic
antocular
antodontalgic
antoeci
antoecian
antoecians
antoine
antoinette
antoniniani
antoninianus
antonio
antonomasia
antonomastic
antonomastical
antonomastically
antonomasy
antwise
anubin
anubing
anucleate
anucleated
anukabiet
anuloma
anunder
anura
anural
anuran
anurans
anureses
anuresis
anuretic
anuria
anurias
anuric
anurous
anury
anus
anuses
anusim
anusvara
anuraminosa
anvasser
anvil
anvil's
anviled
anviling
anvilled
anvilling
anvils
anvilsmith
anviltop
anviltops
anxieties
anxietude
anxiety
anxiolytic
anxious
anxiously
anxiousness
any
anybodies
anybody
anybody'd
anybodyd
anyhow
anymore
anyone
anyplace
anything
anythingarian
anythingarianism
anythings
anytime
anyway
anyways
anywhen
anywhence
anywhere
anywhereness
anywheres
anywhither
anywhy
anywise
anywither
anzac
aob
aogiri
aoli
aonach
aonian
aor
aorist
aoristic
aoristically
aorists
aorta
aortae
aortal
aortarctia
aortas
aortectasia
aortectasis
aortic
aorticorenal
aortism
aortitis
aortoclasia
aortoclasis
aortographic
aortographies
aortography
aortoiliac
aortolith
aortomalacia
aortomalaxis
aortopathy
aortoptosia
aortoptosis
aortorrhaphy
aortosclerosis
aortostenosis
aortotomy
aosmic
aouad
aouads
aoudad
aoudads
ap
apa
apabhrmsa
apace
apache
apaches
apachism
apachite
apadana
apaesthesia
apaesthetic
apaesthetize
apaestically
apagoge
apagoges
apagogic
apagogical
apagogically
apagogue
apaid
apair
apaise
apalit
apange
apanaged
apanages
apanaging
apandry
apanthropia
apanthropy
apar
aparaphysate
aparavidya
apardon
aparejo
aparejos
aparithmesis
apart
apartado
apartheid
aparthrosis
apartment
apartment's
apartmental
apartments
apartness
apasote
apass
apast
apastra
apastron
apastrra
apatan
apatetic
apathaton
apatheia
apathetic
apathetical
apathetically
apathia
apathic
apathies
apathism
apathist
apathistical
apathize
apathogenic
apathy
apatite
apatites
apatosaurus
apay
ape
apeak
apectomy
aped
apedom
apeek
apehood
apeiron
apeirophobia
apetaloid
apetalose
apetalous
apetalousness
apetaly
apex
apexed
apaxes
apexing
aph
aphacia
aphacial
aphacic
aphaeresis
aphaeretic
aphagia
aphagias
aphakia
aphakial
aphakic
aphanesite
aphaniptera
aphanipterous
aphanisia
aphanisis
aphanite
aphanites
aphanitic
aphanitism
aphanophyre
aphanozygous
aphasia
aphasic
aphasiacs
aphasias
aphasic
aphasics
aphasiology
aphelia
aphelian
aphelilia
aphelilions
aphelion
apheliotropic
apheliotropically
apheliotropism
aphemia
aphemic
aphronitre
aphrosiderite
aphtha
aphthae
aphthic
aphthitalite
aphthoid
aphthong
aphthongal
aphthongia
aphthonite
aphthous
aphydrotropic
aphydrotropism
aphyllies
aphyllose
aphyllous
aphylly
aphyric
apiaceous
apian
apiararies
apiarian
apiarians
apiaries
apiarist
apiarists
apiary
apiator
apicad
apical
apically
apices
apicial
apician
apicifixed
apicil
apicular
apicillary
apicitus
apickaback
apickback
apickpack
apicoectomy
apicolysis
apicola
apicular
apiculate
apiculated
apiculation
apiculi
apicultural
apiculture
apiculturist
apicus
apiege
apiece
apieces
apigenin
api
apin
apikores
apikoros
apikorsim
apilary
apili
apimania
apimanias
apinch
apin
apinoid
apio
apiocrinite
apioid
apioidal
apiol
apiole
apiolin
apiologies
apiologist
apiology
apionom
apiose
apiphobia
apis
apish
apishamore
apishly
apishness
apism
apitong
apitpat
apium
apivorous
apjohnite
apl
aplace
aplacental
aplacophoran
aplacophorous
aplanat
aplanatic
aplanatically
aplanatism
aplanogamete
aplanospore
aplasia
aplasias
aplastic
aplenty
aplite
aplites
aplitic
aplobasalt
aplodiorite
aplomb
aplombs
aplome
aploperistomatous
aplostemonous
aplotaxene
aplotomy
aplustra
aplustre
aplustria
apnea
apneal
apneas
apneic
apneumatic
apneumatosis
apneumonous
apneusis
apneustic
apnoea
apnoeal
apnoeas
apnoec
apoaconitine
apoapsides
apoapsis
apoatropine
apobiotic
apoblast
apocaffeine
apocalypse
apocryphate
apocryphon
apocynaceous
apocyneous
apocynthion
apocynthions
apocyte
apod
apodal
apodal
apodeipna
apodeictic
apodeictical
apodeictically
apodeipna
apodeipnon
apodeixis
apodema
apodemal
apodemas
apodemata
apodematal
apodeme
apodia
apodiabolosis
apodictic
apodictical
apodictically
apodictive
apodioxis
apodixis
apodoses
apodosis
apodous
apods
apodyteria
apodyterium
apoembryony
apoenzyme
apofenchene
apoferritin
apogaeic
apogaic
apogalacteum
apogamic
apogamically
apogamies
apogamous
apogamously
apogamy
apogeal
apogean
apogees
apogeic
apogenous
apogeny
apogeotropic
apogeotropically
apogeotropism
apogonid
apograph
apographal
apographic
apographical
apoharmine
apohyal
apokia
apoious
apoise
apojove
apokatastasis
apokatastatic
apokrea
apokreos
apolar
apolarity
apolaustic
apolegamic
apolitical
apolitically
apolinarian
apolinian
apollo
apollonian
apollonion
apollonicon
apollos
apollyon
apolog
apologal
apologer
apologete
apologetic
apologetical
apologetically
apologetics
apologia
apologiae
apologias
apological
apologies
apologise
apologised
apologiser
apologising
apologist
apologist's
apologists
apologize
apologized
apologizer
apologizers
apologizes
apologizing
apologs
apologue
apologies
apology
apology's
apolousis
apolune
apolunes
apolusis
apolysis
apolytikion
apomecometer
apomecometry
apometabolic
apometabolism
apometabolous
apometaboly
apomict
apomictic
apomictical
apomictically
apomicts
apomixes
apomixis
apomorphia
apomorphin
apomorphine
aponeurology
aponeurorrhaphy
aponeuroses
apoplex
apoplexies
apoplexious
apoplexy
apopyle
apoquinamine
apoquinine
aporetic
aporetical
aporhyolite
aporia
aporiae
aporias
aporobranchian
aporose
aporphin
aporphine
aporrhaooid
aporrhea
aporrhegma
aporrhiemga
aporrhoea
aport
aportlast
aportoise
aposafranine
aposatum
aposaturnium
aposelene
aposematic
aposematically
aposepalous
aposia
aposiopeses
aposiopesis
aposiopestic
aposiopetic
apositia
apositic
aposoro
aposporic
apospories
aposporogony
aposporous
apospory
apostacies
apostacize
apostacy
apostasies
apostasis
apostasy
apostate
apostates
apostatic
apostatical
apostatically
apostatise
apostatised
apostatising
apostatism
apostatize
apostatized
apostatizes
apostatizing
apostaxis
apostem
apostemate
apostematic
apostemation
apostematous
aposteme
aposteriori
aposthia
aposthume
apostil
apostille
apostils
apostle
apostle's
apostlehood
apostles
apostleship
apostleships
apostole
apostolate
apostoless
apostoli
apostolian
apostolic
apostolical
apostolically
apostolicalness
apostolicism
apostolicity
apostolize
apostrophal
apprentice
appenzell
appercieve
appercieved
apperceiving
apperception
apperceptionism
apperceptionist
apperceptionistic
appercceptive
appercpectively
appercipient
appere
appertil
appersonation
appersonification
appert
appertain
appertained
appertaining
appertainment
appertains
appertinent
appertise
appestat
appestats
appet
appete
appetence
appetencies
appetency
appetent
appetently
appetibility
appetible
appetibleness
appetiser
appetising
appetisse
appetit
appetite
appetite's
appetites
appetition
appetitional
appetitious
appettive
appetitiveness
appraisal
appraisal's
appraisals
appraise
appraised
appraisement
appraiser
appraisers
appraises
appraising
appraisingly
appraisive
appricate
appreciable
appreciably
appreciant
appreciate
appreciated
appreciates
appreciating
appreciatingly
appreciation
appreciational
appreciations
appreciativ
appreciative
appreciatively
appreciativeness
appreciator
appreciatorily
appreciators
appreciatory
appredicate
apprehend
apprehendable
apprehended
apprehender
apprehending
apprehendingly
apprehends
apprehensibility
apprehensible
apprehensibly
apprehension
apprehension's
apprehensions
apprehensive
apprehensively
apprehensiveness
apprend
apprense
apprentice
apprenticed
apprenticehood
apprenticement
apprentices
apprenticeship
apprenticeships
apprenticing
appress
appressed
appressor
appressoria
appressorial
appressorium
apprest
appreteur
appreve
apprise
apprised
appriser
appisers
apprises
apprising
apprizal
apprize
apprized
apprizement
apprizer
apprizers
apprizes
apprizing
appro
approach
approachability
approachable
approachableness
approached
approacher
approachers
approaches
approaching
approachless
approachment
approbate
approximable
approximal
approximant
approximants
approximate
approximated
approximately
approximates
approximating
approximation
approximations
approximative
approximatively
approximateness
approximator
appt
apptd
apptd
appui
appulse
appulses
appulsion
appulsive
appulsively
appunctionation
appurtenance
appurtenances
appurtenant
apr
apractic
apraxia
apraxias
apraxic
aprendiz
apres
apreynte
apricate
aprication
apriccle
apricot
apricot's
apricots
april
apriori
apriorism
apriorist
aprioristic
aprioristically
apriority
aptest
aptitude
aptitudes
aptitudinal
aptitudinally
aptly
aptness
aptnesses
aptote
aptotic
apts
aptyalia
aptyalism
aptuchus
apulmonic
apulse
apurpose
apx
apyonin
apyrase
apyrases
apyrene
apyretic
apyrexia
apyrexial
apyrexy
apyrotype
apyrous
aq
aqua
aquabelle
aquabib
aquacad
aquacades
aquacultural
aquaculture
aquadag
aquaduct
aquaducts
aqua
aquaemanale
aquaemanalia
aquafer
aquafortis
aquafortist
aquage
aquagreen
aquake
aquintocubitalism
aquiparous
aquiver
aquo
aquocapsulitis
aquocarbonic
aquocellulitis
aquopentamminecobaltic
aquose
aquosity
aquotization
aquotize
ar
ar'n't
ara
arab
arab's
araba
araban
arabana
arabesk
arabesks
arabesque
arabesquely
arabesquerie
arabesques
arabia
arabian
arabians
arabic
arabica
arabizize
arability
arabin
arabine
arabinic
arabinose
arabinosic
arabinoside
arabis
arabist
arabit
arabite
arabitol
arabiyyeh
arabize
arabized
arabizes
arabizing
arable
arables
arabs
araby
araca
aracanga
aracari
arace
araceous
arach
arache
arachic
arachide
arachidic
arachidonic
arachin
arachis
arachnactis
arachne
arachnean
arachnephobia
arachnid
arachnid's
arachnidan
arachnidial
arachnidism
arachnidium
arachnids
arachnism
arachnitis
arachnoid
arachnoidal
arachnoidea
arachnoidean
arachnoiditis
arachnological
arachnologist
arachnology
arachnophagous
arachnopia
arad
aradid
arado
araeometer
araeostyle
araeosystyle
araeotic
arage
aragonite
aragonitic
aragonspath
araguane
araguato
araignee
arain
araire
araise
arak
arakawaite
arake
araks
aralia
araliaceous
araliad
aralie
aralkyl
aralkylated
aramaean
aramaic
aramayoite
aramid
aramids
aramina
araneid
araneidal
araneidan
araneids
araneiform
aranein
araneologist
araneology
araneose
araneous
aranga
arango
arangoes
arank
aranzada
arapahite
arapaho
arapahos
arapaima
arapaimas
araphorostic
araphostic
arbitragist
arbitral
arbitrament
arbitraments
arbitraries
arbitrarily
arbitrariness
arbitrary
arbitrate
arbitrated
arbitrates
arbitrating
arbitration
arbitrational
arbitrationist
arbitrations
arbitrative
arbitrator
arbitrator's
arbitrators
arbitratorship
arbitratrix
arbitre
arbitrement
arbitrer
arbitress
arbitry
arblast
arboloco
arbor
arbor's
arboraceous
arboreal
arboreal
arboreal
arboreally
arborean
arbored
arboreous
arborer
arbores
arborescence
arborescent
arborescently
arboresque
arboret
arbutes
arbutin
arbutinase
arbutus
arbutuses
arc
area
arcabucero
arcade
arcade's
arcaded
arcades
arcadia
arcadian
arcadians
arcadias
arcading
arcadings
arcady
arcae
arcana
arcanal
arcane
arcanist
arcanite
arcanum
arcate
arcato
arcature
arcatures
arcboultant
arecos
arccosine
arced
arcella
arces
arceuthobium
arcform
arch
archabomination
archae
archaean
archaeocraniate
archaeocyte
archaeogeology
archaeographic
archaeographical
archaeography
archdeacon
archdeaconate
archdeaconess
archdeacons
archdeaconies
archdeaconry
archdeacons
archdeaconship
archdean
archdeanery
archdefender
archdemon
archdepredator
archdespot
archdetective
archdevil
archdiocesan
archdiocese
archdioceses
archdiplomatist
archdiissembler
archdisturber
archdivine
archdogmatist
archdolt
archdruid
archducal
archduchess
archduchesses
archduchies
archduchy
archduke
archdukedom
archdukes
archduxe
arche
archheal
archhean
archhearl
archheban
archhebons
archhebiosis
archheeclesiastic
archhecentric
arched
archegay
archegone
archegonia
archegonial
archegoniate
archegoniophore
archegonium
archegony
archeion
archelogy
archelon
archemastry
archemperor
archencephalic
archenemies
archenemy
archengineer
archenia
archenteric
archenteron
archeocyte
archeol
archeolithic
archeologist
archeological
archeologically
archeologist
archeology
archeopteryx
archeostome
archeozoic
archer
archeress
archerfish
archerfishes
archeries
archers
archership
archery
arches
archespore
archespores
archesporia
archesporial
archesporium
archespsporia
archest
archetto
archettos
archetypal
archetypally
archetype
archetypes
archetypic
archetypical
archetypically
archetypist
archeunuch
archeus
archexorcist
archfelon
archfiend
archfiends
archfire
archflamen
archflatterer
archfoe
archfool
archform
archfounder
archfriend
archgenethliac
archgod
archgomeral
archgovernor
archgunner
archhead
archheart
archheresy
archheretic
archhost
archhouse
archhumbug
archhypocrisy
archhypocrite
archiater
archibenthal
archibenthic
archibenthos
archiblast
archiblastic
archiblastoma
archiblastula
archical
archicantor
archicarp
archicerebra
archicerebrum
archichlamydeous
archicleistogamous
archicleistogamy
archicoele
archicontinent
archicyte
archicytula
archidiaconal
archidiaconate
archididascalian
archididascals
archidome
archidoxis
archie
archiepiscopacy
archiepiscopal
archiepiscopality
archiepiscopally
archiepiscopate
archiereus
archigaster
archigastrula
archigenses
archigonic
archigonocyte
archigony
archiharmonic
archikaryon
archil
archilithic
archilla
archilochian
archilowe
archils
archilute
archimage
archimagus
archimidrion
archimandrite
archimandrites
archimedean
archimedes
archimime
archimorphic
archimorula
archimperial
archimperialism
archimperialist
archimperialistic
archimpressionist
archin
archine
archines
archineuron
archinfamy
archinformer
arching
archings
archipallial
archipallium
archipelagian
archipelagic
archipelago
archipelagoes
archipelagos
archiphoneme
archipin
archiplasm
archiplasmic
archiplastical
archipresbyter
archipterygial
archipterygium
archisperm
archisphere
archispore
archistome
archisupreme
archisymbolical
archisynagogue
archit
architect
architect's
architective
architectonic
architectonically
architectonics
architectress
architects
architectural
architecturalist
architecturally
architecture
architecture's
architectures
architecturesque
architecure
archness
archnesses
archoele
archoecele
archocystosyrinx
archology
archon
archons
archonship
archonships
archont
archontate
archontic
archoplasm
archoplasmic
archopoma
archoptosis
archorrhagia
archorrhea
archostegnosis
archostenosis
archosyrinx
archoverseer
archpall
archpapist
archpastor
archpatriarch
archpatron
archphilosopher
archphyllarch
archpiece
archpilferer
archpillar
archpirate
archplagiariast
archplagiary
archplayer
archplotter
archplunderer
archplutocrat
archpoet
archpolitician
archpontiff
archpractice
archprelate
archprelatic
archprelatical
archpresbyter
archpresbyterate
archpresbytery
archpretender
archpriest
archpriesthood
archpriestship
archprimacy
archprimate
archprince
archprophet
archprotopope
archprototype
archpublican
archpuritan
archradical
archrascal
archreactionary
archrebel
archregent
archrepresentative
archrobber
archrogue
archruler
archsacrificator
archsacrificer
archsaint
archsatrap
archsoutherner
archseducer
archsee
archsewer
archshepherd
archsine
archsnob
archspirit
archspy
archsteward
archswindler
archsynagogue
arch
archtempter
archthief
archtraitor
archtreasurer
archtreasurership
archturncoat
archtyrant
archwasher
archvagabond
archvampire
archvestryman
archvillain
archvillainy
archvisitor
archwag
archway
archways
archwench
archwife
archwise
archworker
archworkmaster
archy
arciferous
arcifinious
arciform
arcing
arked
arcking
arclength
arclike
arco
arcocentrous
arcocentrum
arcograph
arcose
arcosolia
arcosoliulalia
arcosolium
arc
aresin
arcsine
arcines
arctan
arctangent
arctation
arctian
arctic
arctically
arctician
arcticize
arcticized
arcticizing
arcticologist
arcticology
arctics
arcticward
areology
areometer
areometric
areometrical
areometry
areopagist
areopagite
areopagitic
areopagus
areopagy
areostyle
areosystyle
areotectonics
arere
arerola
areroscope
ares
arest
aret
aretaiics
aretalogy
arete
aretes
arethusa
arethusas
arette
arew
arf
arfillite
arfvedsonite
arg
argaile
argal
argala
argalas
argali
argalis
argals
argan
argand
argans
argasid
argeers
argel
argema
argemone
argemony
argenol
argent
argental
argentamid
argentamide
argentamin
argentamine
argentan
argentarii
argentarius
argentate
argonation
argenteous
argenter
argonetum
argent
argenticyanide
argentide
argentiferous
argentin
argentina
argentine
argentinean
argentineans
argentines
argentinitrate
argentino
argon
argentite
argentojarosite
argentol
argentometer
argentometric
argentometrically
argentometry
argenton
argentoproteinum
argentose
argentous
argentry
args
erg
argentum
argentums
arqh
arghan
arghel
arghool
argify
argil
argillaceous
argillic
argilliferous
argillite
argillitic
argilloarenaceous
argillocalcareous
argillocalcite
argilhoferruginous
argilloid
argillomagnesian
argillous
argils
argin
arginase
arginases
argine
arginine
argininephosphoric
arginines
argive
argle
arglebargle
arglebargled
arglebargling
argled
argles
argling
argo
argolet
argoletier
argols
argon
argonaut
argonautic
argonautid
argonauts
argonon
argons
argos
argosies
argosine
argosy
argot
argotic
argots
argyrocephalous
argyrodite
argyrose
argyrosis
argyrythrose
arhar
arhat
arhats
arhatship
arhythmia
arhythmic
arhythmical
arhythmically
aria
ariadne
arian
arianism
arianist
arianists
arias
aribus
aribine
ariboflavinosis
aricin
aricine
arid
arider
aridest
aridge
aridian
aridities
aridity
aridly
aridness
aridnesses
ariegite
ariel
ariels
ariezo
aries
arietate
arietation
arietinous
arietta
ariettas
ariette
ariettes
aright
arithmic
arithmocracy
arithmocratic
arithmogram
arithmograph
arithmography
arithmomancy
arithmomania
arithmometer
arithromania
arizona
arizonan
arizonans
arizonian
arizonians
arizonite
arjun
ark
arkansan
arkansans
arkansas
arkansawyer
arkansite
arkie
arkite
arkose
arkoses
arkosic
arks
arksuitite
arkwright
arle
arlequinade
arles
arless
arling
arlington
arloup
arm
armada
armadas
armadilla
armadillo
armadillos
armageddon
armagnac
armagnacs
armament
armorica
armorican
armoried
armories
armoring
armorist
armorless
armorplated
armorproof
armors
armorwise
armory
armour
armourbearer
armoured
armourer
armourers
armouries
armouring
armours
armoury
armoiseen
armozine
armpad
armpiece
armpit
armpit's
armpits
armplate
armrack
armrest
armrests
arms
armscye
armseye
armsful
armsize
armstrong
armure
armures
army
army's
armyworm
armyworms
arn
arna
arnatta
arnatto
arnatts
arnberry
arnee
arnement
arni
arnica
arnicas
arnold
arnotta
arnotto
arnottos
arnut
aroar
aroast
arock
aroëira
aroïd
aroïdeous
aroïds
aroïnt
aroïnted
aroïnting
aroïnts
aroïlia
aroïlium
aroïlla
aroïma
aroïmacity
aroïmadendrin
aroïmal
aroïmas
aroïmata
aroïmatic
aroïmatical
aroïmatically
aroïmaticcity
aroïmaticness
aroïmatics
aroïmatisé
aroïmatised
aroïmatiser
aroïmatising
aroïmatitae
aroïmatite
aroïmatites
aroïmatization
aroïmatize
aroïmatized
arrhythmias
arrhythmic
arrhythmical
arrhythmically
arrhythous
arrhythmly
arri
arriage
arriba
arribadas
arricci
arricciati
arricciato
arricciatos
arriccio
arriccioci
arriccios
arride
arrided
arridge
arriding
arrie
arriere
arriero
arrimby
arris
arrises
arrish
arrisways
arriswise
arrivage
arrival
arrival's
arrivals
arrivance
arrive
arrived
arrivederci
arrivederla
arriver
arrivers
arrives
arriving
arrivism
arrivisme
arrivist
arriviste
arrivistes
arsenism
arsenite
arsenites
arsenium
arseniuret
arseniureted
arseniuretted
arsenization
arseno
arsenobenzene
arsenobenzol
arsenobismite
arsenoferratin
arsenofuran
arsenohemol
arsenolite
arsenophagy
arsenophen
arsenophenol
arsenophenyglycin
arsenopyrite
arsenostyracol
arsenotherapy
arsenotungstates
arsenotungstic
arsenosious
arsenoxide
arsenyl
arses
arsesmart
arsheen
arshin
arshine
arshins
arsine
arsines
arsinic
arsino
arsis
arsle
arsmetik
arsmetrik
arsmetrike
arsmetry
arsnicker
arsoite
arson
arsonate
arthrocace
arthrocarcinoma
arthrocele
arthrochondritis
arthroclasia
arthrocleisis
arthroclisis
arthrodern
arthrodosis
arthrodia
arthrodiae
arthrodial
arthrodic
arthrodiran
arthrodire
arthrodirosus
arthrodymic
arthrodynia
arthrodynmic
arthroempyema
arthroempyesis
arthroendoscopy
arthrogastran
arthrogenous
arthrography
arthrogyposis
arthrolite
arthrolith
arthrolithiasis
arthrology
arthromeningitis
arthromere
arthromeric
arthrometer
arthrometry
arthron
arthroncus
arthroneuralgia
arthropathic
arthropathology
arthropathy
arthrophlogosis
arthrophyma
arthroplastic
arthroplasty
arthropleura
arthropleure
arthropod
arthropod's
arthropodal
arthropodan
arthropodous
arthropods
arthropody
arthropomatous
arthropterous
arthropyosis
arthrorheumatism
arthrorrhagia
arthrosclerosis
arthroses
arthrosia
arthrosis
arthrospore
arthrosporic
arthrosporous
arthrosteitis
arthrosterigma
arthrostome
arthrostomy
arthrosynovitis
arthrosyrinx
arthrotome
arthrotomies
arthrotomy
arthrotrauma
arthrotropic
arthrotyphoid
arthrous
arthroxerosis
arthrozoan
arthrozoic
arthur
arthurian
artiad
artic
artichoke
artichoke's
artichokes
article
article's
articled
articles
articling
articulability
articulable
articulacy
articulant
articular
articulare
articularly
articualrs
articulary
articulata
articulate
articulated
articulately
articulateness
articulates
articulating
articulation
articulationes
articulationist
articulations
articulative
articulator
articulatorily
articulators
articulatory
articulite
articulus
artier
artiest
artifact
artifact's
artifactitious
artifacts
artifactual
artifactually
artifex
artifice
artificer
artificers
artificership
artifices
artificial
artificialism
artificialities
artificiality
artificialize
artificially
artificialness
artificious
artilize
artiller
artilleries
artillerist
artillerists
artillery
artilleryman
artillerymen
artilleryship
artily
artiness
artinesses
artinite
artiodactyl
artiodactylous
artiphylous
artisan
artisan's
artisanal
artisanry
artisans
artisanship
artist
artist's
artistdom
artiste
artistes
artistess
artistic
artistical
artistically
artistries
artistry
artists
artize
artless
artlessly
artlessness
artlet
artlike
artly
artmobile
artocarpad
artocarpeous
artocarpous
artolater
artolatry
artophagous
artophophobia
artophoria
artophorion
artotype
artotypony
artotyrite
artou
arts
artsman
artsy
artus
artware
artwork
artworks
arty
aru
arugola
arugolas
arugula
arugulas
arui
aruke
arum
arumin
arumlike
arums
arundiferous
arundinaceous
arundineous
arupa
arusa
arusha
aruspex
aruspice
aruspices
aruspicy
arustle
arval
arvejon
arvel
arvicone
arvicoline
arvicolous
arviculture
arvo
arvos
arx
ary
aryan
asarotum
asarata
asarum
asarums
asb
asbest
asbestic
asbestiform
asbestine
asbestinize
asbestoid
asbestoidal
asbestos
asbestoses
asbestosis
asbestous
asbestus
asbestuses
asblan
asbolane
asbolin
asbolite
ascan
ascape
ascare
ascared
ascarias
ascaricidal
ascarcide
ascarid
ascarides
ascaridiasis
ascaridol
ascaridole
ascarids
ascaris
ascaron
ascebc
ascelli
ascellus
ascence
ascend
ascendable
ascendance
ascendancy
ascendant
ascendantly
ascendants
ascended
ascendence
ascendency
ascendent
ascender
ascenders
ascendible
ascending
ascendingly
ascends
ascenseur
ascension
ascensional
ascensionist
ascensions
ascensive
ascensor
ascent
ascents
ascertain
ascertainability
ascertainable
ascertainableness
ascertainably
ascertained
ascertainer
ascertaining
ascertainment
ascertains
ascenscency
ascenscent
ascenses
ascesis
ascetic
ascetic's
ascetical
ascetically
asceticism
ascetics
aschaffite
ascham
ascher
aschistic
asci
ascian
ascians
ascididia
ascidia
ascidian
ascidians
ascidiate
ascidicolous
ascidiferous
ascidiform
ascidia
ascidioid
ascidiozooid
ascidium
asciferous
ascigerous
ascii
ascill
ascitan
ascitb
ascite
ascites
ascitic
ascitical
ascititious
asclelent
asclepiad
asclepiadaceous
asclepiadeous
asclepias
asclepidin
asclepidoid
asclepin
asclepius
ascocarp
ascocarpous
ascocarps
ascogenous
ascogone
ascogonia
ascogonial
ascgonial
ascgonidia
ascgonidium
ascgonium
ascolichen
ascoma
ascomata
ascomycetal
ascomycete
ascomycetes
ascomycetous
ascon
asconia
asconoid
ascophore
ascophorous
ascorbate
ascobic
ascospore
ascosporic
ascosporous
ascot
ascots
ascrivable
ascribe
ascribed
ascrites
ascribing
ascript
ascription
ascriptions
ascriptitii
ascriptitious
ascriptitius
ascriptive
ascribe
asery
ascula
asculae
ascus
ascyphous
asdie
asdics
ase
asea
asearch
asecretory
aseethe
aseismatic
aseismic
aseismicity
aseitas
aseity
aselar
aselgeia
asellate
aselline
asellus
asem
asemasia
asemia
asemic
asepalous
asepses
asepsis
aseptate
aseptic
aseptically
asepticism
asepticize
asepticized
asepticizing
aseptify
aseptol
aseptolin
asexual
asexualisation
asexualise
asexualised
asexualising
asexuality
asexualization
asexualize
asexualized
asexualizing
asexually
asexuals
asfast
asfetida
asg
asgard
asgd
asgmt
ash
ashake
ashame
ashamed
ashamedly
ashamedness
ashamnu
ashanti
ashberry
ashcake
ashcan
ashcans
ashed
ashen
asparaginic
asparaginous
asparagus
asparaguses
asparagyl
asparamic
asparkle
aspartame
aspartate
aspartic
aspartokinase
asparty
aspca
aspect
aspect's
aspectable
aspectant
aspection
aspects
aspectual
aspen
aspens
asper
asperate
asperated
asperates
asperating
asperation
aspergation
asperge
asperger
asperges
aspergilla
aspergilli
aspergil
aspergill
aspergilla
aspergilli
aspergilliform
aspergilliform
aspergilloses
aspergillosis
aspergillum
aspergillums
aspergillus
asperfoliate
asperifolious
asperite
aspheterize
asphodel
asphodels
asphyctic
asphyctous
asphyxia
asphyxial
asphyxiant
asphyxias
asphyxiate
asphyxiated
asphyxies
asphyxiating
asphyxiation
asphyxiative
asphyxiator
asphyxed
asphyxies
asphyxy
aspic
aspics
aspiculate
aspiculous
aspidate
aspide
aspidiaria
aspidinol
aspidistra
aspidistras
aspidium
aspidobranchiate
aspidomancy
aspidospermine
aspiquee
aspirant
aspirant's
aspirants
aspirata
aspiratae
aspirate
aspirated
aspirates
aspirating
aspiration
aspiration's
aspirations
aspirator
aspirators
aspiratory
aspire
aspired
aspiree
aspirer
aspirers
aspires
aspirin
aspiring
aspiringly
aspiringness
aspirins
aspis
aspires
aspish
asplanchnic
asplenioid
asplenium
asporogenic
asporogenous
asporous
asport
asportation
asporulate
aspout
asprawl
aspread
asprete
aspring
asprout
asps
aspy
asquare
asquat
asqueal
asquant
asquirm
asrama
asramas
ass
ass's
assacu
assafetida
assafaetida
assafaetida
assagai
assagaied
assagaiing
assagais
assaultive
assaults
assasive
assaut
assay
assayable
assayed
assayer
assayers
assaying
assays
assbaa
asse
asseal
assecuration
assecurator
assecure
assecution
assedat
assedation
assegai
assegaied
assegaing
assegaing
assegaings
assegaig
asseize
asself
assembl
assemblable
assemblage
assemblage's
assemblages
assemblagit
assemblance
assemble
assembled
assemblee
assemblemont
assembler
assemblers
assembles
assemblies
assembling
assembly
assembly's
assemblyman
assemblymen
assemblywoman
associableness
associate
associated
associatedness
associates
associateship
associating
association
associational
associationalism
associationalist
associationism
associationist
associationistic
associations
associative
associatively
associativeness
associativity
associate
associator
associator's
associators
associatory
associe
assoil
assoiled
assoiling
assoilment
assoils
assoilzie
assoin
assoluto
assonance
assonanced
assonances
assonant
assonantal
assonantic
assonantly
assonants
assonate
assoria
assort
assortative
assortatively
assorted
assortedness
assorter
asteroids
asterophyllite
asterospondylic
asterospondyloous
asters
astert
asterwort
asthmatic
asthenia
asthenias
asthenic
asthenical
asthenics
asthenies
asthenobiosis
asthenobiotic
asthenolith
asthenology
asthenope
asthenophobia
asthenopia
asthenopic
asthenosphere
astheny
asthma
asthmas
asthmatic
asthmatical
asthmatically
asthmatics
asthmaticoid
asthmogenic
asthore
asthorin
astichous
astigmat
astigmatic
astigmatical
astigmatically
astigmatism
astigmatizer
astigmatometer
astigmatometry
astigmatoscope
astigmatoscopies
astigmatoscopy
astigmia
astigmias
astigmatic
astigmism
astigmometer
astigmometry
astigmoscope
astilbe
astint
astipulate
astipulation
astir
astite
astogeny
astomatal
astomatous
astomia
astomous
astond
astone
astonished
astonishedly
astonisher
astonishes
astonishing
astonishingly
astonishingness
astonishment
astonishments
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astonishingly
astonishment
astonishments
astonishingness
astonishment
astonishments
astonishing
astraean
astraeid
astraeiform
astragal
astragalar
astragalectomy
astragali
astragalocalcaneal
astragalocentral
astragalomancy
astragalonavicular
astragaloscaphoid
astragalotibial
astragals
astragalus
astrain
astrakanite
astrakhian
astral
astrally
astrals
astrand
astraphobia
astrapophobia
astray
astre
astream
astrean
aster
astrict
astricted
astricting
astriction
astrictive
astrictively
astrictiveness
astricts
astride
astrier
astriferous
astrild
astringe
astringed
astringence
astringency
astringent
astringently
astringents
astringer
astringes
astringing
astrion
astrionics
astroalchemist
astrobiological
astrobiologically
astrobiologies
astrobiologist
astrobiologists
astrobiology
astroblast
astrobotany
astrochemist
astrochemistry
astrochronological
astrocompass
astrocyte
astrocytic
astrocytoma
astrocytomas
astrocytomata
astrodiagnosis
astrodome
astrodynamical
astrodynamics
astrofel
astrofell
astrogate
astrogated
astrogating
astrogation
astrogational
astrogator
astrogeny
astrogeologist
astrogeology
astroglia
astrognosy
astrogonic
astrogony
astrograph
astrographer
astrographic
astrography
astrophase
astron
astroite
astrol
astrolabe
astrolabes
astrolabical
astrolater
astrolatry
astroliolithology
astrolog
astrologaster
astrologe
astrologer
astrologers
astrologian
astrologic
astrological
astrologically
astrologist
astrologistic
astrologists
astrologize
astrologous
astrology
astromancer
astromancy
astromantic
astromeda
astrometeorological
astrometeorologist
astrometeorology
astrometer
astrometric
astrometrical
astrometry
astron
astronaut
astronaut's
astronautic
astronautical
astronautically
astronautics
astronauts
astronavigation
astronavigator
astronomer
astronomer's
astronomers
astronomic
astronomical
astronomically
astronomics
astronomien
astronomize
astronomy
astrophel
astrophil
astrophobia
astrophotographer
astrophotographic
astrophotography
astrophotometer
astrophotometrical
astrophotometry
astrophyllite
astrophysical
astrophysicist
astrophysicists
astrophysics
astroscope
astroscoopy
astrose
astrospectral
astrospectroscopic
astrosphere
astrospherecentrosomic
astrotheology
astructive
astrut
astucious
astuously
astucity
astute
astutely
astuteness
astutious
astyanax
astylar
astyleen
asuang
asudden
asunder
aswail
aswarm
aswash
asway
asweat
asynchronous
asynchronously
asynchrony
asynesis
asyneta
asynetic
asynetically
asyneton
asynetons
asynergia
asynergy
asynergic
asynamy
asynaptic
asynthetic
asystematic
asystole
asystolic
asystolism
aszygetic
at
atabal
atabals
atabeg
atabek
atabrine
atacamite
atactic
atactiform
atafter
ataghan
ataghans
atake
atalanta
atalantis
atalaya
atalayas
ataman
atamans
atamasco
atamascos
atame
atangle
atap
atar
ataractic
ataraxia
ataraxias
ataraxic
ataraxics
ataraxies
ataraxy
atatschite
ataunt
ataunto
atavi
atavic
atavism
atavisms
atavist
atavistic
atavistically
atavists
atavus
ataxaphasia
ataxia
ataxiagram
ataxiograph
ataxiometer
ataxiaphasia
ataxias
ataxic
ataxics
ataxies
ataxinomic
ataxite
ataxonomic
ataxophobia
ataxy
atazir
atbash
atchison
ate
atebrin
atechnic
atechnical
atechny
ated
atees
ateeter
atef
ateknia
atelectasis
atelectatic
ateleiosis
atelene
atheisticalness
atheisticness
atheists
atheize
atheizer
athel
athelia
atheling
athelings
athematic
athena
athenaeum
athenaeums
athenee
atheneum
atheneums
athenian
athenians
athenor
athens
atheological
atheologically
atheology
atheous
athericeran
athericerous
atherine
athermancy
athermanous
athermic
athermous
atherogenesis
atherogenic
atheroma
atheromas
atheromasia
atheromata
atheromatosis
atheromatous
atheroscleroses
atherosclerosis
atherosclerotic
atherosclerotically
athetesis
atheticize
athetize
athetized
athetizing
atomechanics
atomerg
atomic
atomical
atomically
atomician
atomicism
atomicity
atomics
atomies
atomiferous
atomisation
atomise
atomised
atomises
atomising
atomism
atomisms
atomist
atomistic
atomistical
atomistically
atomistics
atomists
atomy
atomisation
atomize
atomized
atomizer
atomizers
atomizes
atomizing
atomology
atoms
atony
atonable
atonal
atonalism
atonalist
atonalistic
atonality
atonally
atone
atoneable
atoned
atonement
atonements
atoneness
atrophoderma
atrophous
atrophy
atrophying
atropia
atropic
atropin
atropine
atropines
atropinism
atropinization
atropinize
atropins
atropism
atropisms
atropos
atropous
atrorubent
atrosanguineous
atrosceine
atrous
atry
atrypoid
atsara
att
atta
attababy
attabal
attaboy
attacca
attacco
attach
attachable
attachableness
attache
attached
attachedly
attacher
attachers
attaches
attacheship
attaching
attachment
attachment’s
attachments
attack
attackable
attacked
attentions
attentive
attentively
attentiveness
attently
attenuable
attenuant
attenuate
attenuated
attenuates
attenuating
attenuation
attenuations
attenuative
attenuator
attenuator's
attenuators
atter
attercop
attercrop
atterminal
attermine
attermined
atterminement
attern
atterr
atterrate
attery
attest
attestable
attestant
attestation
attestations
attestative
attestator
attested
attester
attesters
attesting
attestive
attestor
attesters
attests
attic
attic's
attice
atticism
atticisms
attorneyism
attorneys
attorneyship
attorning
attornment
attorns
attouchement
attour
attourne
attract
attractability
attractable
attractableness
attractance
attractancy
attractant
attractants
attracted
attractor
attractile
attracting
attractingly
attraction
attraction's
attractionally
attractions
attractive
attractively
attractiveness
attractivity
attractor
attractor's
attractors
attracts
attrahent
attrap
attrectation
attrib
attributable
attributal
attribute
attributed
attributer
attributes
attributing
attribution
attributional
attributions
attributive
attributively
attributiveness
attributives
attributor
attrist
attrite
attributed
attriteness
attribiting
attrition
attritional
attribitive
attribitus
attributively
attoooperation
attoooperation
attoo
attune
attuned
attunely
attunement
attunes
attuning
atturn
atty
atua
atuale
atumble
atune
atveen
atwain
atweel
atween
atwin
atwind
atwirl
atwist
atwitch
atwite
atwitter
atwixt
atwo
atypic
atypical
atypicality
atypically
atypy
audaciousness
audacities
audacity
audad
audads
audibility
audible
audibleness
audibles
audibly
audience
audience's
audiencer
audiences
audiencia
audiencier
audient
audients
audile
audiles
auding
audings
audio
audioemission
audiogenic
audiogram
audiogram's
audiograms
audiological
audiologies
audiologist
audiologist's
audiologists
audiology
audiometer
audiometers
audiometric
audiometrically
audiometries
audiometrist
audiometry
audion
audiophile
audiophiles
audios
audiotape
audiotapes
audiotypist
auriculately
auriculo
auriculocranial
auriculoid
auriculoparietal
auriculotemporal
auriculoventricular
auriculovertical
auricyanhydric
auricyanic
auricyanide
auride
auriferous
aurifex
aurific
aurification
aurified
auriflamme
auriform
aurify
aurifying
auriga
aurigal
aurigation
aurigerous
aurignacian
aurigo
aurigraphy
aurilave
aurin
aurinasal
aurine
auriphone
auriphrygia
auriphrygiate
auripigment
auripuncture
aurir
auris
auriscalp
auriscalpia
auriscalpium
auriscope
auriscopic
auriscopically
auriscopy
aurist
aurists
authorities
authority
authority's
authorize
authorized
authorizer
authorizers
authorizes
authorizing
authorless
authoring
authorly
authors
authorship
authotype
autism
autisms
autist
autistic
auto
auto's
autoabstract
autoactivation
autoactive
autoaddress
autoagglutinating
autoagglutination
autoagglutinin
autoalarm
autoalkylation
autoallogamous
autoallogamy
autoanalysis
autoanalytic
autoantibody
autoanticomplement
autoantitoxin
autoasphyxiation
autoaspiration
autoassimilation
autobahn
autobahns
autobasidia
autobasidiomycetous
autobasidium
autobiographal
autobiographer
autobiographers
autobiographic
autobiographical
autobiographically
autobiographies
autobiographist
autobiography
autobiography's
autobiology
autoblast
autoboat
autoboating
autobolide
autobus
autobuses
autobusses
autocab
autocade
autocades
autocall
autocamp
autocamper
autocamping
autocar
autocarist
autocarp
autocarpian
autocarpic
autocarpous
autocatelepsy
autocatalyses
autocatalysis
autocatalytic
autocatalytically
autocatalyze
autocatharsis
autocathetherism
autocephalia
autocephalic
autocephality
autocephalous
autocephaly
autoceptive
autochanger
autochemical
autocholecystectomy
autochrome
autochromy
autochronograph
autochthon
autochthonal
autochthones
autochthonic
autochthonism
autochthonous
autochthonously
autochthonousness
autochthons
autochthony
autochton
autocide
autocinesis
autoclasis
autoclastic
autoclave
autoclaved
autoclaves
autoclaving
autocoder
autozoenobium
autozoerher
autocoid
autocoids
autocollimate
autocollimation
autocollimator
autocollimators
autocolony
autocombustible
autocombustion
autocomplexes
autocondensation
autoconduction
autoconvection
autoconverter
autocopist
autocoprophagous
autocorrelate
autocorrelation
autocorrosion
autocosm
autocracies
autocracy
autocrat
autocrat's
autocratic
autocratical
autocratically
autocraticalness
autocrat
autocratic
autocratical
autocratrix
autocrats
autocratship
autocremation
autocriticism
autocross
autocue
autocycle
autocystoplasty
autocytolysis
autocytolytic
autodecomposition
autodecrement
autodecremented
autodecrements
autodepolymerization
autodermic
autodestruction
autodetector
autodiagnosis
autodiagnostic
autodiagrammatic
autodial
autodialed
autodialer
autodialers
autodialing
autodialled
autodialling
autodialls
autodidact
autodidactic
autodidactically
autodidacts
autodifferentiation
autodiffusion
autodigestion
autodigestive
autoimmunized
autoimmunizing
autoincrement
autoincremented
autoincrements
autoindex
autoindexing
autoinduction
autoinductive
autoinfection
autoinfusion
autoing
autoinhibited
autoinoculable
autoinoculation
autointellectual
autointoxicant
autointoxicating
autoionization
autoirrigation
autoist
autojigger
autojuggernaut
autokinesis
autokinesy
autokinetic
autokrator
autolaryngoscope
autolaryngoscopic
autolaryngoscopy
autolater
autolatry
autolavage
autolesion
autolimnetic
autolith
autolithograph
autolithographer
autolithographic
autolithography
autoloader
autoloaders
autoloading
autological
autologist
autologous
autology
autoluminescence
autoluminescent
autolysate
autolyse
autolysin
autolysis
autolytic
autolyzate
autolyze
autolyzed
autolyzes
autolyzing
automa
automacy
automaker
automan
automania
automanipulation
automanipulative
automanual
automat
automata
automatable
automate
automated
automates
automatic
automatical
automatically
automaticity
automatics
automatixaccessing
automation
automatism
automatist
automative
automatization
automatize
automatized
automatizes
automatizing
automatograph
automaton
automatonlike
automatons
automatonta
automatontons
automatous
automats
automechanical
automechanism
automelon
automen
autometamorphosis
autometric
autometry
automobile
automobile's
automobilized
automobiles
automobiling
automobilism
automobilist
automobilistic
automobilists
automobility
automolite
automonstration
automorph
automorphic
automorphically
automorphism
automotive
automotor
automower
autompne
automysophobia
autonavigator
autonavigator's
autonavigators
autonegation
autonephrectomy
autonephrotoxin
autonetics
autoneurotoxin
autonitridation
autonoetic
autonomasy
autonomic
autonomical
autonomically
autonomies
autonomist
autonomize
autonomous
autonomously
autonomousness
autonomy
autonym
autooxidation
autoparasitism
autopathic
autopathography
autopathy
autopelagic
autopepsia
autophage
autophagia
autophagous
autophagy
autophobia
autophoby
autophon
autophone
autophonoscope
autophonous
autphony
autophotoelectric
autophotograph
autophotometry
autophthalmoscope
autophylogeny
autophyte
autophytic
autophytically
autophytograph
autophytography
autopilot
autopilot's
autopilots
autopista
autoplagiarism
autoplasmotherapy
autoplast
autoplastic
autoplastically
autoplasties
autoplastic
autopneumatic
autopoint
autopoiidous
autopolar
autopolo
autopoloist
autopolyid
autopolyploidy
autopore
autoportrait
autoportraiture
autopositive
autopotamic
autopotent
autoprotive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autopotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis
autoprothesis
autopositive
autapotamic
autopotent
autoprogressive
autoproteolysis

autorotation
autorotational
autoroute
autorrhaphy
autos
autoschediasm
autoschediastic
autoschediastical
autoschediastically
autoschediaze
autoscience
autoscope
autoscopic
autoscopy
autosender
autosensitization
autosensitized
autosepticemia
autoserotherapy
autoserum
autosexing
autosight
autosign
autosite
autositic
autoskeleton
autosled
autoslip
autosomal
autosomally
autosomatognosis
autosomatognostic
autosome
autosomes
autosoteric
autosoterism
autospore
autosporic
autospray
autostability
autostage
autostandardization
autostarter
autostethoscope
autostoper
autostrada
autostradas
autostylic
autostylism
autostyly
autosuggest
autosuggestibility
autosuggestible
autosuggestion
autosuggestionist
autosuggestions
autosuggestive
autosuppression
autosymbiotic
autosymbolic
autosymbolical
autosymbolically
autosymnoia
autosyn
autosyndesis
autota
autotelegraph
autotelic
autotelism
autotetraploid
autotetraploidy
autothaumaturgist
autotheater
autotheism
autotheist
autotherapeutic
autotherapy
autothermy
autotimer
autotomic
autotomies
autotomise
autotomised
autotomising
autotomize
autotomized
autotomizing
autotomous
autotomy
autotoxaemia
autotoxemia
autotoxic
autotoxication
autotoxicity
autotoxicosis
autotoxin
autotoxis
autotractor
autotransformer
autotransfusion
autotransplant
autotransplantation
autotrepanation
autotriplold
autotriploidy
autotroph
autotrophic
autotrophically
autotrophy
autotropic
autotropically
autotropism
autotruk
autotuberculin
autoturning
autotype
autotypes
autotypization
autotypic
autotypies
autotypography
autotypy
autourine
autovaccination
autovaccine
autovalt
autovalve
autovivisection
autoxen
autoxidation
autoxidator
autoxidizability
autoxidizable
autoxidize
autoxidizer
autozooid
autre
autrefois
autumn
autumn's
autumnal
autumnally
autumnian
autumnity
auxometer
auxospore
auxosubstance
auxotonic
auxotox
auxotroph
auxotrophic
auxotrophy
av
ava
avadana
avadavat
avadavats
avadhuta
avahi
avail
available
availabilities
availability
available
availableness
availably
availed
availer
availers
availing
availingly
availment
avails
aval
avalanche
avalanched
avalanches
avalanching
avale
avalent
avalon
avalvular
avance
avania
avanious
avant
avantage
avanters
avantgarde
avantlay
avanturine
avanyu
aventail
aventails
aventayle
aventine
aventre
aventure
aventurin
aventurine
avenue
avenue's
avenues
aveny
aver
avera
average
averaged
averagely
averageness
averager
averages
averaging
averah
averaia
averil
averin
averish
averment
averments
avern
avernal
avernus
averrable
averral
 averred
averrer
averring
averroist
averruncate
averruncation
averruncator
avers
aversant
aversation
averse
aversely
averseness
aversion
aversion's
aviatory
aviatress
aviatrice
aviatrice
aviatrix
aviatrixes
avichi
avicide
avick
avicolous
avicular
avicularia
avicularian
avicularium
aviculture
aviculturist
avid
avidin
avidins
avidious
avidiously
avidities
avidity
avidly
avidness
avidnesses
avidous
avidya
avie
aview
avifauna
avifaunae
avifaunal
avifaunally
avifaunas
avifaunistic
avigate
avigation
avigator
avigators
avijja
avilaria
avile
avilement
avilion
avine
aviolite
avion
avionic
avionics
avions
avirulence
avirulent
avis
avision
aviso
avisos
avital
avitaminoses
avitaminosis
avitaminotic
avitic
avives
avizandum
avn
avo
avocado
avocadoes
avocados
avocat
avocate
avocation
avocation's
avocational
avocationally
avocations
avocative
avocatory
avocet
avocets
avodire
avodies
avogadrite
avogadro
avogram
avoid
avoidable
avoidably
avoidance
avoidances
avoidant
avoided
avoider
avoiders
avoiding
avoidless
avoidment
avoids
avoir
avoirdupois
avoke
avolate
avolation
avolitional
avondbloem
avos
avoset
avosets
avouch
avouchable
avouched
avoucher
avouchers
avouches
avouching
avouchment
avoue
avour
avoure
avourneen
avouter
avoutry
avow
avowable
avowableness
avowably
avowal
avowals
avowance
avowant
avowe
avowed
avowedly
avowedness
avower
avowers
avowing
avowersies
avowry
avows
avowter
avoy
avoyer
avoyership
awnings
awnless
awnlike
awns
awny
awoke
awoken
awol
awols
awonder
awork
aworry
aworth
awreck
awrist
awrong
awry
awunctive
ax
axal
axanthopsia
axbreaker
axe
axbreaker
axed
axel
axels
axeman
axemaster
axemen
axenic
axenically
axer
axerophthol
axers
axes
axfetch
axhammer
axhammered
axhead
axial
axialities
axiality
axially
axiate
axiation
axiferous
axiform
axifugal
axil
axile
axilemma
axilemmas
axilemmata
axilla
axillae
axillant
axillar
axillaries
axillars
axillary
axillas
axils
axin
axine
axing
axiniform
axinite
axinomancy
axiolite
axiolitic
axiological
axiologically
axiologies
axiologist
axiology
axiom
axiom's
axiomatic
axiomatical
axiomatically
axiomatization
axiomatization's
axiomatizations
axiomatize
axiomatized
axiomatizes
axiomatizing
axioms
axion
axiopisty
axis
axised
axises
axisymmetric
axisymmetrical
axisymmetrically
axisymmetry
axite
axites
axle
axle's
axled
axles
axlesmith
axletree
axletrees
axlike
axmaker
axmaking
axman
axmanship
axmaster
axmen
axminster
axodendrite
axofugal
axogamy
axoid
axodean
axolemma
axolotl
axolotl's
axolotls
axolysis
axometer
axometric
axometry
axon
axon's
axonal
axone
axonemal
axoneme
axonemes
axones
axoneure
axoneuron
axonic
axonolipous
axonometric
axonometry
axonophorous
axonost
axons
axopetal
axophyte
axoplasm
axoplasmic
axoplasms
axopodia
axopodium
axospermy
axostyle
axotomous
axseed
axseeds
axstone
axtree
axunge
axweed
axwise
axwort
ay
ayacahuite
ayah
ayahuasca
ayah
ayahuasca
ayapana
ayatollah
ayatollahs
aye
ayegreen
ayelp
ayen
ayenbite
ayens
ayenst
ayes
ayield
ayin
ayins
ayless
aylet
ayllu
aymara
ayme
ayne
ayond
ayont
ayous
ayre
ayrshire
ays
ayu
ayudante
ayuntamiento
ayuntamientos
ayurveda
ayurvedas
ayuyu
aywhere
az
azadirachta
azadrachta
azafran
azafrin
azalea
azalea's
azaleamum
azaleas
azan
azans
azarole
azaserine
azathioprine
azazel
azedarac
azedarach
azelaic
azelate
azeotrope
azeotropic
azeotropism
azeotropy
azide
azides
azido
aziethane
azilut
azimene
azimethyline
azimide
azimin
azime
azimino
aziminobenzene
azimuth
azimuth’s
azimuthal
azimuthally
azimuths
azine
azines
azinphosmethyl
aziola
azlactone
azlon
azlons
azo
azobacter
azobenzene
azobenzil
azobenzoic
azobenzol
azoback
azoch
azocochineal
azocoralline
azocorinth
azocyanide
azocyclic
azodicarboxylic
azodiphenyl
azodisulphonic
azoeosin
azoerythrin
azofication
azofier
azoflavine
azoformamide
azoformic
azofy
azogallein
azogreen
azogrenadine
azohumic
azoic
azoimide
azoisobutyronitrile
azoile
azoles
azolitmin
azomethine
azon
azonal
azygoses
azygosperm
azygospor
azygote
azygous
azyme
azymite
azyamous
b
b'hoy
b's
b/l
b/s
ba
baa
baaed
baahling
baaing
baal
baalim
baalism
baalisms
baals
baar
baas
baaskaap
baaskaaps
baaskap
bab
baba
babacoote
babai
babajaga
babakoto
babas
babasco
babassu
babassus
babasu
babaylan
babaylanes
babbage
babbie
babbishly
babbit
babbitt
babbitted
babbitter
babylike
babylon
babylonia
babylonian
babylonians
babylonish
babylatry
babysat
babyship
babysit
babysitter
babysitting
bac
bacaba
bacach
bacalao
bacalaos
bacao
bacauan
baebakiri
bacca
baccaceous
baccae
baccalaurean
baccalaureat
baccalaureate
baccalaureates
baccalaureus
baccar
baccara
baccaras
baccarat
baccarats
baccare
baccate
baccated
bacchae
bacchanal
bacchanalia
bacchanalian
bacchanalianism
bacchanalianly
bacchanalias
bacchanalism
bacchanalization
bacchanalize
bacchanals
bacchant
backbiters
backbites
backbiting
backbitingly
backbitten
backblocks
backblow
backboard
backboards
backbone
backbone's
backboned
backboneless
backbonelessness
backbones
backbrand
backbreaker
backbreaking
backcap
backcast
backcasts
backchain
backchat
backchats
backcloth
backcomb
backcountry
backcourt
backcourtman
backcross
backdate
backdated
backdates
backdating
backdoor
backdown
backdrop
backdrop's
backdrops
backed
backen
backened
backening
backer
backers
backet
backfall
backfatter
backfield
backfields
backfill
backfilled
backfiller
backfilling
backfills
backfire
backfired
backfireds
backfiring
backflap
backflash
backflip
backflow
backflowing
backfold
backframe
backfriend
backfurrow
backgame
backgammon
backgeared
background
background's
backgrounds
backhand
backhanded
backhandedly
backhandedness
backhander
backhanding
backhands
backhatch
backhaul
backhauled
backhauling
backhauls
backheel
backhoe
backhoes
backhooker
backhouse
backhouses
backie
backiebird
backing
backings
backspaced
backspacefile
backspacer
backspaces
backspacing
backspang
backspare
backseer
backspier
backspierer
backspin
backspins
backsplice
backspliced
backsplicing
backspread
backspringing
backstab
backstabbed
backstabber
backstabbing
backstaff
backstage
backstair
backstairs
backstamp
backstay
backstays
backster
backstick
backstitch
backstitched
backstitches
backstitching
backstone
backstop
backstopped
backstopping
backstops
backstrap
backstrapped
backstreet
backstretch
backstretches
backstring
backstrip
backstroke
bacterin
bacterins
bacterioagglutinin
bacterioblast
bacteriochlorophyll
bacteriocidal
bacteriocin
bacterioocyte
bacteriodiagnosis
bacteriofluorescin
bacteriogenic
bacteriogenous
bacteriohemolysin
bacterioid
bacterioidal
bacteriol
bacteriologic
bacteriological
bacteriologically
bacteriologies
bacteriologist
bacteriologists
bacteriology
bacteriolytic
bacteriolyze
bacteriopathology
bacteriophage
bacteriophages
bacteriophagia
bacteriophagic
bacteriophagous
bacteriophagy
bacteriophobia
bacterioprecipitin
bacterioprotein
bacteriopsonic
bacteriopsonin
bacteriopurpurin
bacteriorhodopsin
bacterioscopic
bacterioscopical
bacterioscopically
bacterioscopist
bacterioscopy
bacteriosis
bacteriosolvent
bacteriostasis
bacteriostat
bacteriostatic
bacteriostatically
bacteriotherapeutic
bacteriotherapy
bacteriotoxic
bacteriotoxin
bacteriotropic
bacteriotropin
bacteriotrypsin
bacterious
bacteririum
bacteritic
bacterium
bacteriuria
bacterization
bacterize
bacterized
bacterizing
bacteroid
bacteroidal
bacteroides
bactetiophage
bactriticone
bactritoid
bacubert
bacula
bacule
baculere
baculi
baculiferous
baculiform
baculine
baculite
baculitic
baculiticone
baculoid
baculum
baculums
baculus
bacury
bad
badan
badarrah
badass
badasses
bagio
bagios
bagle
bagleaves
baglike
bagmaker
bagmaking
bagman
bagmen
bagne
bagnes
bagnet
bagnette
bagnio
bagnios
bagnut
bago
bagonet
bagong
bagoong
bagpipe
bagpipe's
bagpiped
bagpiper
bagpipers
bagpipes
bagpiping
bagplant
bagpod
bagg pudding
bagrationite
bagre
bagreef
bagroom
bags
bagsful
bagtikan
baguet
baguets
baguette
baguettes
baguio
baguios
bagwash
bagwig
bagwigged
bagwigs
bagwoman
bakshished
bakshishes
bakshishing
baktun
baku
bakula
bakupari
bal
balaam
balabos
balachan
balachong
balaclava
balada
baladine
balaenid
balaenoid
balaenoidenan
balafon
balagan
balaghat
balaghaut
balai
balalaika
balalaika's
balalaikas
balance
balanceable
balanced
balancedness
balancelle
balanceman
balancement
balancer
balancers
balances
balancewise
balancing
balander
balandra
balandran
balaneutics
balangay
balanic
balanid
balaniferous
balanism
balanite
balanitis
balanoblenorrhrea
balanocele
balanoid
balanophoraceous
balanophore
balanophorin
balanoplasty
balanoposthitis
balanopreputial
balanops
balanorrhagia
balant
balantidial
balantidiasis
balantidic
balantidiosis
balao
balaos
balaphon
balarao
balas
balases
balat
balata
balatas
balate
balatong
balatron
balatronic
balatte
balau
balausta
balaustine
balaustre
balayeuse
balboa
balboas
balbriggan
balbusard
balbutiate
balbutient
balbuties
balche
balcon
balcone
balconet
balconette
balkan
balkanization
balkanize
balkanized
balkanizing
balkans
balked
balker
balkers
balkier
balkiest
balkily
balkiness
balking
balkingly
balkish
balkline
balklines
balks
balky
ball
ballad
ballad's
ballade
balladeer
balladeers
ballader
balladeroyal
ballades
balladic
balladical
balladier
balladise
balladised
balladising
balladism
balladist
balladize
balladized
balladizing
balladlike
balladling
balladmonger
balladmongering
balladries
balladromic
balladry
ballads
ballyhoo
ballyhooed
ballyhooer
ballyhooing
ballyhoos
ballyrag
ballyragged
ballyragging
ballyrags
ballywack
ballywrack
balm
balm's
balmacaan
balmier
balmiest
balmily
balminess
balmlike
balmonies
balmony
balmoral
balmorals
balms
balmy
balnea
balneae
balneal
balneary
balneation
balneatory
balneographer
balneography
balneologic
balneological
balneologist
balneology
balneophysiology
balneotechnics
balneotherapeutics
balneotherapia
balneotherapy
balneum
balon
balonea
baloney
baloneys
baloo
balopticon
balotade
balourdise
balow
balr
bals
balsa
balsam
balsamaceous
balsamation
balsameaceous
balsamed
balsamer
balsamic
balsamical
balsamically
balsamiferous
balsamina
balsaminaceous
balsamine
balsaming
balsamitic
balsamiticism
balsamize
balsamo
balsamous
balsamroot
balsams
balsamum
balsamweed
balsamy
balsas
balsawood
baltei
balter
baltei
balteus
baltheus
baltic
baltimore
baltimorite
balu
baluchi
baluchithere
baluchitheria
baluchitherium
balun
balushai
banality
banalize
banally
banalness
banana
banana's
bananaquit
bananas
bananist
bananivorous
banat
banate
banatite
banausic
banbury
banc
banca
bancal
bancales
bancha
banchi
banco
bancos
bancus
band
banda
bandage
bandaged
bandager
bandagers
bandages
bandaging
bandagist
bandaid
bandaite
bandaka
bandala
bandalore
bandana
bandanaed
bandanas
bandanna
bandannaed
bandannas
bandar
bandarlog
bandbox
bandboxes
bandit
bandit's
banditism
banditries
banditry
bandits
banditti
bandle
bandleader
bandless
bandlessly
bandlessness
bandlet
bandlimit
bandlimited
bandlimiting
bandlimits
bandman
bandmaster
bandmasters
bando
bandobust
bandog
bandogs
bandoleer
bandoleered
bandoleers
bandolerismo
bandolero
bandoleros
bandolier
bandoliered
bandoline
bandon
bandonion
bandora
bandoras
bandore
bandores
bandos
bandpass
bandrol
bands
bandsaw
bandsawed
bandsawing
bandsawn
bandsman
bandmen
bandspreading
bandstand
bandstand's
bandstands
bandster
bandstop
bandstring
bandura
bandurria
bandurrias
bandwagon
bandwagon's
bandwagons
bandwidth
bandwidths
bandwork
bandworm
bandy
bandyball
bandying
bandylegged
bandyman
bane
baneberries
baneberry
baned
baneful
banefully
banefulness
banes
banewort
bang
banga
bangalay
bangalow
bangboard
bange
banged
banger
bangers
banghy
bangiaceous
banging
bangkok
bangkoks
bangladesh
bangle
banshee
banshee's
banshees
banshie
banshies
banstickle
bant
bantam
bantamize
bantams
bantamweight
bantamweights
bantay
bantayan
banteng
banter
bantered
banterer
banterers
bantering
banteringly
banters
bantery
bantin
banting
bantingize
bantings
bantling
bantlings
bantu
bantus
banty
banus
banuyo
banxring
banya
banyan
banyans
banzai
banzaïs
baobab
baobabs
bap
baphomet
bapistery
bapt
baptise
baptised
barbarous
barbarously
barbarousness
barbary
barbas
barbasco
barbascoes
barbascos
barbastel
barbastelle
barbate
barbated
barbatimao
barbe
barbeau
barbecue
barbecued
barbecueing
barbecuer
barbecues
barbecuing
barbed
barbedness
barbeiro
barbel
barbeled
barbell
barbell's
barbellate
barbells
barbellula
barbellulae
barbellulate
barbels
barbeque
barbequed
barbequing
barber
barbera
barbered
barberess
barberfish
barbering
barberish
barberite
barbermonger
barbero
barberries
barbules
barbulyie
barbut
barbute
barbuts
barbwire
barbwires
barcarole
barcaroles
barcarolle
barcas
barcella
barcelona
barcelonas
barchan
barchans
barche
barcolongo
barcone
bard
bard's
bardane
bardash
bardcraft
barde
barded
bardee
bardel
bardelle
bardes
bardess
bardic
bardie
bardier
bardiest
bardiglio
bardily
bardiness
barding
bardings
bardish
bardism
bardlet
bardlike
bardling
bardo
bardocucullus
bardolater
bardolatry
bards
hardship
bardy
bare
bareback
barebacked
bareboat
bareboats
barebone
bareboned
barebones
bareca
bared
barefaced
barefacedly
barefacedness
barefisted
barefit
barefoot
barefooted
barege
bareges
barehanded
barehead
bareheaded
bareheadedness
bareka
bareknuckle
bareknuckled
barelegged
barely
barenecked
bareness
barenesses
barer
bares
baresark
baresarks
baresma
barest
baresthesia
baret
bareta
barf
barfed
barff
barfing
barkevikite
barkevikitic
barkey
barkhan
barkier
barkiest
barking
barkingly
barkle
barkless
barklyte
barkometer
barkpeel
barkpeeler
barkpeeling
barks
barksome
barkstone
barky
barlafulmble
barlafulmnil
barleduc
barleducs
barless
barley
barleybird
barleybrake
barleybreak
barleycorn
barleyhood
barleymow
barleys
barleysick
barling
barlock
barlow
barlows
barly
barm
barmaid
barmaids
barman
barmaster
barmbrack
barmcloth
barmecidal
barmecide
barmen
barmfel
barmie
barmier
barmiest
barning
barmkin
barnote
bars
barnskin
barny
barnybrained
barn
barn's
barnabas
barnabite
barnaby
barnacle
barnacled
barnacles
barnacling
barnage
barnard
barnbrack
barndoor
barney
barneys
barnful
barnhardtite
barnier
barniest
barnlike
barnman
barnmen
barns
barnstorm
barnstormed
barnstormer
barnstormers
barnstorming
barnstorms
barnumize
barny
barnyard
barnyard's
barnyards
barocco
baroclinicity
baroclinit
barrator
barrators
barratries
barratrous
barratrously
barratry
barre
barred
barrel
barrel's
barrelage
barreled
barreler
barrelet
barreleye
barreleyes
barrelfish
barrelfishes
barrelful
barrelfuls
barrelhead
barrelhouse
barrelhouses
bareling
barrelled
barrelling
barrelmaker
barrelmaking
barrels
barrelsful
barrelwise
barren
barrener
barrenest
barrenly
barrenness
barrens
barrenwort
barrer
barrera
barres
barret
barretor
barretors
barretries
barrety
barrets
barrette
barwood
barycenter
barycentre
barycentric
barye
baryecoia
baryes
baryglossia
barylalia
barylite
baryon
baryonic
baryons
baryphonia
baryphonic
baryphony
barysilite
barysphere
baryta
barytas
baryte
barytes
barythymia
barytic
barytine
barytocalcite
barytocelestine
barytocelestite
baryton
barytone
barytones
barytons
barytophyllite
barytostrontianite
barytosulphate
bas
basad
basal
basale
basalia
basally
basalt
basaltes
basaltic
basaltiform
basaltine
basaltoid
basalts
basaltware
basan
basanite
basaree
basat
bascinet
basculation
bascule
bascules
bascunan
base
baseball
baseball's
baseballdom
baseballer
baseballs
baseband
baseboard
baseboard's
baseboards
baseborn
basebred
baseburner
basecoat
basecourt
based
basehearted
baseheartedness
baselard
baseless
baselessly
baselessness
baselevel
baselike
baseline
baseline's
baseliner
baselines
basella
basellaceous
basely
baseman
basemen
basement
basement's
basementless
basements
basementward
basename
baseness
basenesses
basenet
basenji
basenjis
baseplate
baseplug
basepoint
baser
baserunning
bases
basest
bash
bashalick
bashara
bashaw
bashawdom
bashawism
bashaws
bashawship
bashed
basher
bashers
bashes
bashful
bashfully
bashfulness
bashibazouk
bashing
bashless
bashlik
bashlyk
bashlyks
bashment
bashyle
basial
basialveolar
basiarachnitis
basiarachnoiditis
basiate
basiated
basiating
basiation
basibranchial
basibranchiate
basibregmatic
basic
basic's
basically
basicerite
basichromatic
basichromatin
basichromatinic
basichromiole
basicities
basicity
basicranial
basics
basicytoparaplastin
basidia
basidial
basidigital
basidigitale
basidigitalia
basidiocarp
basidiogenetic
basidiolichen
basidiomycete
basidiomycetes
basidiomycetous
basidiophore
basidiospore
basidiosporous
basidium
basidorsal
basifacial
basification
basified
basifier
basifiers
basifies
basifixed
basifugal
basify
basifying
basigamous
basigamy
basigenic
basigenous
basiglandular
basigynium
basihyal
basihyoid
basil
basilar
basiophthalmite
basiophthalmous
basiotribe
basiotripsy
basiparachromatin
basiparaplástin
basipetal
basipetally
basiphobia
basipodite
basipoditic
basipterygial
basipterygium
basipterygoid
basiradial
basirhinal
basirostral
basis
basiscopico
basisidia
basisolute
basisphenoid
basisphenoidal
basitemporal
basititting
basiventral
basivertebral
bask
baske
basked
basker
basket
basket's
basketball
basketball's
basketballer
basketballs
basketful
basketfuls
basketeting
basketlike
basketmaker
basketmaking
basketries
basketry
baskets
basketware
basketweaving
basketwoman
basketwood
basketwork
basketworm
basking
basks
basnat
basnet
basocyte
basoid
basommatophorous
bason
basophil
basophile
basophilia
basophilic
basophilous
basophils
basophobia
basos
basote
basotho
basque
basqued
basques
basquine
bass
bass's
bassan
bassanello
bassanite
bassara
bassarid
bassarisk
basses
basset
basseted
basseting
bassetite
bassets
bassetta
bassette
bassetted
bassetting
bassi
bassia
bassie
bassine
bathhouses
bathic
bathinette
bathing
bathkol
bathless
bathman
bathmat
bathmats
bathmic
bathmism
bathmotropic
bathmotropism
bathochromatic
bathochromatism
bathochrome
bathochronic
bathochromy
bathoflore
bathofloric
batholite
batholith
batholithic
batholiths
batholitic
bathomania
bathometer
bathometry
bathool
bathophobia
bathorse
bathos
bathoses
bathrobe
bathrobe's
bathrobes
bathroom
bathroom's
bathroomed
bathrooms
bathroot
baths
bathtub
bathtub's
bathtubful
bathtubs
bathukolpian
bathukolpic
batiks
bating
batino
batiste
batistes
batitinan
batlan
batler
batlet
batlike
batling
batlon
batman
batmen
batoid
baton
baton's
batoneer
batonist
batonistic
batonne
batonnier
batons
batoon
batophobia
batrachia
batrachian
batrachians
batrachiate
batrachite
batrachoid
batrachophagous
batrachophobia
batrachoplasty
batrachotoxin
bats
batsman
batsmanship
batsmen
batster
batswing
batt
batta
battable
battailant
battailous
battalia
battalias
battled
battledore
battledored
battledores
battledoring
battlefield
battlefield's
battlefields
battlefront
battlefront's
battlefronts
battleful
battleground
battleground's
battlegrounds
battlement
battlement's
battlemented
battlements
battlepiece
battleplane
battler
battlers
battles
battleship
battleship's
battleships
battlesome
battlestead
battlewagon
battleward
battlewise
battling
battological
battologise
battologised
battologising
battologist
battologize
battologized
battologizing
battology
batton
batts
battu
battue
battues
batture
bchs
bd
bde
bdellatomy
bdellid
bdellium
bdelliums
bdelloid
bdellometer
bdellotomy
bdellovibrio
bdft
bdl
bdle
bdls
bdrm
bds
be
beach
beachboy
beachboys
beachcomb
beachcomber
beachcombers
beachcombing
beachdrops
beached
beacher
beaches
beachfront
beachhead
beachhead's
beachheads
beachie
beachier
beachiest
beaching
beachlamar
beachless
beachman
beachmaster
beachmen
beachside
beachward
beachwear
beachy
beacon
beacon's
beaconage  
beaconed  
beaconing  
beaconless  
beacons  
beaconwise  
bead  
beaded  
beader  
beadeye  
beadeyes  
beadflush  
beadhouse  
beadhouses  
beadier  
beadiest  
beadily  
beadiness  
beading  
beadings  
beadle  
beadle's  
beadledom  
beadlehood  
beadleism  
beadlery  
beadles  
beadleship  
beadlet  
beadlike  
beadman  
beadmen  
beadroll  
beadrolls  
beadrow  
beads  
beadsman  
beadsmen  
beadswoman  
beadswomen  
beadwork  
beadworks  
beady  
beagle  
beagle's  
beagles  
beagling  
beak
bearwoods
bearwort
beast
beastbane
beastdom
beasthood
beastie
beasties
beastily
beastings
beastish
beastishness
beastlier
beastliest
beastlike
beastlily
beastliness
beastling
beastlings
beastly
beastman
beasts
beastship
beat
beata
beatable
beatably
beatae
beatas
beatee
beaten
beater
beaterman
beatermen
beaters
beath
beati
beatific
beatificall
beatifically
beatificate
beatification
beatified
beatifies
beatify
beatifying
beatille
beatinest
beating
beatings
beatitude
beatitude's
beatitudes
beatles
beatless
beatnik
beatnik's
beatnikism
beatniks
beatrice
beats
beatster
beatus
beatuti
beau
beau's
beauclerk
beaucoup
beaued
beauetry
beaufet
beaufin
beaufort
beaugregories
beaugregory
beaung
beauish
beauism
beaujolais
beaume
beaumont
beaupere
beaupers
beaus
beauseant
beauship
beausire
beaut
beauteous
beauteousness
beauti
beautician
beauticians
beautied
beauties
beautification
beautifications
beautified
beautifier
beautifiers
beautifies
beautiful
beautifully
beautifulness
beautify
beautifying
beautihood
beautiless
beauts
beauty
beauty's
beautydom
beautyship
beaux
beauxite
beaver
beaver's
beaverboard
beavered
beaverette
beaveries
beavering
beaverish
beaverism
beaverite
beaverize
beaverkin
beaverlike
beaverpelt
beaverroot
beavers
beaverskin
beaverteen
beaverwood
beavery
beback
bebait
beballed
bebanged
bebanned
bebanned
bebarn
bebaste
becall
becalm
becalmed
becalming
becalmment
becalms
became
becap
becapped
becapping
becaps
becard
becarpet
becarpeted
becarpeting
becarpets
becarve
becasse
becassine
becassoed
becater
because
beccabunga
beccaccia
beccafico
beccaficoes
beccaficos
becchi
becco
becense
becrowned
bechained
bechalk
bechalked
bechalking
bechalks
bechamel
bechamels
bechance
bechanced
bechances
bechancing
becharm
becharmed
becharming
becharms
bechase
bechatter
bechauffeur
bedabble
bedabbled
bedabbles
bedabbling
bedad
bedaff
bedaggered
bedaggle
bedamn
bedammed
bedamning
bedamns
bedamp
bedangled
bedare
bedark
bedarken
bedarkened
bedarkening
bedarkens
bedash
bedaub
bedaubed
bedaubing
bedaubs
bedawee
bedawn
beday
bedaze
bedazed
bedazement
bedazzle
bedazzled
bedazzlement
bedazzles
bedazzling
bedazzlingly
bedboard
bedbug
bedbug's
bedbugs
bedcap
bedcase
bedchair
bedchairs
bedchamber
bedclothes
bedclothing
bedevils
bedew
bedewed
bedewer
bedewing
bedewoman
bedews
bedfast
bedfellow
bedfellows
bedfellowship
bedflower
bedfoot
bedfordshire
bedframe
bedframes
bedgery
bedgoer
bedgown
bedgowns
bediademed
bediamonded
bediaper
bediapered
bediapering
bediapers
bedight
bedighted
bedighting
bedights
bedikah
bedim
bedimmed
bedimming
bedimple
bedimples
bedimplies
bedimpling
bedims
bedin
bedip
bedirt
bedirter
bedirtied
bedirties
bedirty
bedirtying
bedismal
bedivere
bedizen
bedizened
bedizening
bedizenment
bedizens
bedkey
bedlam
bedlamer
bedlamise
bedlamised
bedlamising
bedlamism
bedlamite
bedlamitish
bedlamize
bedlamized
bedlamizing
bedlamp
bedlamps
bedlams
bedlar
bedless
bedlids
bedlight
bedlike
bedmaker
bedmakers
bedmaking
bedman
bedmate
bedmates
bednighted
bednights
bedoctor
bedog
bedolt
bedot
bedote
bedotted
bedouin
bedouins
bedouse
bedown
bedoyo
bedpad
bedpan
bedpans
bedplate
bedplates
bedpost
bedpost's
bedposts
bedquilt
bedquilts
bedrabbble
bedrabbled
bedrabbbling
bedraggle
bedraggled
bedragglement
bedraggles
bedraggling
bedrail
bedrails
bedral
bedrape
bedraped
bedrapes
bedraping
bedravel
bedread
bedrel
bedrench
bedrenched
bedrenches
bedrenching
bedress
bedribble
bedrid
bedridden
bedriddenness
bedrift
bedright
bedrip
bedrite
bedrivel
bedriveled
bedriveling
bedrivelled
bedrivelling
bedrivels
bedrizzlle
bedrock
bedrock's
bedrocks
bedroll
bedrolls
bedroom
bedroom's
bedrooms
bedrop
bedrown
bedrowse
bedrug
bedrugged
bedrugging
bedrugs
beds
bedscrew
bedsheet
bedsheets
bedsick
bedside
bedsides
bedsit
bedsite
bedsitter
bedsock
bedsonia
bedsonias
bedsore
bedsores
bedspread
bedspread's
bedspreads
bedspring
bedspring's
bedsprings
bedstaff
bedstand
bedstands
bedstaves
bedstead
bedstead's
bedsteads
bedstock
bedstraw
bedstraws
bedstring
bedswerver
bedtick
bedticking
beechnut
beechnuts
beechwood
beechwoods
beechy
beedged
beedi
beedom
beef
beefalo
beefaloes
beefalos
beefburger
beefburgers
beefcake
beefcakes
beefeater
beefeaters
beefed
beefer
beefers
beefhead
beefheaded
beefier
beefiest
beefily
beefin
beefiness
beefing
beefish
beefishness
beefless
beeflower
beefs
beefsteak
beefsteaks
beeftongue
beefwood
beefwoods
beefy
beegerite
beehed
beecheaded
beecherd
beehive
beehive's
beehives
beehouse
bees
beest
beesting
beestings
beestride
beeswax
beeswaxes
beeswing
beeswinged
beeswings
beet
beet's
beetewk
beetfly
beeth
beethoven
beetiest
beetle
beetle's
beetled
beetlehead
beetleheaded
beetleheadedness
beetler
beetlers
beetles
beetlestock
beetlestone
beetleweed
beetlike
beetling
beetmister
beetrave
beetroot
beetroots
beetrooty
beets
beety
beeve
beeeves
beevish
beeware
beeway
beeweed
beewinged
beewise
beewort
beeyard
beezer
deen
beezer
bef
befall
befallen
befalling
befalls
befame
befamilied
befamine
befan
befancy
befanned
befathered
befavor
befavour
befather
befell
beferned
befetished
befetter
befezzed
befroy
befiddle
befilch
befile
befilleled
befilmed
befilth
befinger
befingered
befingering
befingers
befire
befist
befit
befit's
befits
befitted
befitting
befittingly
befittingness
beflag
beflagged
beflagging
beflags
beflannel
beflap
beflatter
beflea
befleaed
befleaing
befleas
befleck
beflecked
beflecking
beflecks
beflounce
beflour
beflout
beflower
beflowered
beflowering
beflowers
beflum
befluster
befoam
befog
befogged
befogging
befogs
befool
befoolable
befooled
befooling
befoolment
befools
befop
before
beforehand
beforehandedness
beforementioned
beforeness
beforesaid
beforesaid
beforest
beforested
befertime
beforetimes
befortune
befoul
befouled
befouler
befoulers
befoulier
befouling
befoulment
befouls
behave
behaved
behaver
behavers
behaves
behaving
behavior
behavioral
behaviorally
behaviored
behaviorism
behaviorist
behavioristic
behavioristically
behaviorists
behaviors
behaviour
behavioural
behaviourally
behaviourism
behaviourist
behaviours
behead
beheadal
beheaded
beheader
beheading
beheadlined
beheads
behear
behears
behearse
behedge
beheira
beheld
behelp
behemoth
behemopathic
behemoths
behen
behenate
behenic
behest
behests
behew
belight
behind
behinder
bekinkinite
bekiss
bekissed
bekisses
bekissing
bekko
beknave
beknight
beknighted
beknighting
beknights
beknit
beknived
beknot
beknots
beknotted
beknottedly
beknottedness
beknotting
beknow
beknown
bel
bela
belabor
belabored
belaboring
belabors
belabour
belaboured
belabouring
belabours
belace
belaced
beladied
beladies
beladle
belady
beladying
belage
belah
belam
belamour
belamy
belanda
belander
belap
belar
belard
belash
belast
belat
belate
belated
belatedly
belatedness
belating
belatticed
belaud
belauded
belauder
belauding
belauds
belavendered
belay
delayed
belayer
belaying
belays
belch
belched
belcher
belchers
belches
belching
beld
beldam
beldame
beldames
beldams
beldamship
belder
beldroot
belduque
beleaf
beleaguer
beleaguered
beleaguerer
beleaguering
beleaguerment
beleaguers
beleap
beleaped
beleaping
beleaps
beleapt
beleave
believableness
believably
believe
believed
believer
believers
believes
believeth
believing
believingly
belight
beliing
belike
beliked
belike
belime
belimousined
belion
beliquor
beliquored
beliquoring
beliquors
belite
belitter
belittle
belittled
belittlement
belittler
belittlers
belittles
belittling
belive
belk
belknap
bell
bell's
belladonna
bellarmine
bellbind
bellbinder
bellbine
bellbird
bellbirds
bellbottle
bellboy
bellboy's
bellboys
belle
belle's
belled
belledom
belleek
belleeks
bellehood
belleric
bellerophon
belles
belleter
belletrist
belletristic
belletrists
bellevue
bellflower
bellhanger
bellhanging
bellhop
bellhop's
bellhops
bellhouse
belli
bellibone
bellic
bellical
bellicism
bellicist
bellicose
bellicosely
bellicoseness
bellicosities
bellicosity
bellied
bellies
belliferous
belligerence
belligerencies
belligerency
belligerent
belligerent's
belligerently
belligerents
belling
bellipotent
bellite
bellmaker
bellmaking
bellman
bemadams
bemadden
bemaddened
bemaddening
bemaddens
bemail
bemaim
bemajesty
beman
bemangle
bemannle
bemar
bemartyr
bemas
bemask
bemaster
bemat
bemata
bemaul
bemazed
beme
bemeal
bemean
bemeaned
bemeaning
bemeans
bemedaled
bemedalld
bemeet
bementite
bemercy
bemete
bemingle
beminged
bemingles
bemingling
beminstrel
bemire
bemired
bemirement
bemires
bemiring
bemirror
bemirrorment
bemist
bemisted
bemisting
bemistress
bemusement
bemuses
bemusing
bemusk
bemuslined
bemuzzle
bemuzzled
bemuzzles
bemuzzling
ben
bena
benab
benadryl
bename
benameed
benamee
benamees
benami
benamidar
benaming
benasty
benben
bench
benchboard
benched
bencher
benchers
benchership
benches
benchfellow
benchful
benching
benchland
benchless
benchlet
benchman
benchmar
benchmark
benchmark's
benchmarked
benchmarking
benchmarks
benchmen
benchwarmer
benchwork
benchy
bencite
bend
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  3292

benisons
benitier
benitoite
benj
benjamin
benjaminite
benjamins
benjoin
benjy
benmost
benn
benne
bennel
bennes
bennet
bennets
bennettitaceous
bennetweed
benni
bennies
bennis
benniseed
benny
beno
benomyl
benomyls
benorth
benote
bens
bensail
bensall
bensel
bensell
bensh
benshea
benshee
benshi
bensil
bent
bentang
bentgrass
benthal
benthamism
benthic
benthon
benthonic
benthopelagic
benthos
benthoscope
benthoses
bentinck
bentiness
benting
bentlet
bentonite
bentonitic
bents
bentstar
bentwood
bentwoods
benty
benumb
benumbed
benumbedness
benumbing
benumbingly
benumbment
benumbs
benvenuto
benward
benweed
benzacridine
benzal
benzalacetone
benzalacetophenone
benzalaniline
benzalazine
benzalcohol
benzalcyanhydrin
benzaldehyde
benzaldiphenyl
benzaldoxime
benzalethylamine
benzalhydrazine
benzalphenylhydrazone
benzalphthalide
benzamide
benzamido
benzamine
benzaminic
benzamino
benzanalgen
benzanilide
benzanthrace
benzanthrone
benzantaldoxime
benzazide
benzazimide
benzazine
benzazole
benzbtriazole
benzdiazine
benzdifuran
benzdioxazine
benzdiox Diazine
benzdiox triazine
benzedrine
benzein
benzene
benzene azobenzene
benzenediazonium
benzenes
benzenoid
benzenyl
benzydrol
benzydroxamic
benzidin
benzidine
benzidino
benzidins
benzil
benzilic
benzimidazole
benziminazole
benzin
benzinduline
benzine
benzines
benzins
benzo
benzoate
benzoated
benzoates
benzoazurine
benzobis
benzocaime
benzocoumaran
benzdiazine
benzdiazole
benzfloxaline
benzofluorene
benzofulvene
benzofuran
benzofuroquinoxaline
benzofuryl
benzoglycolic
benzoglyoxaline
benzohydrol
benzoic
benzoid
benzoin
benzoinated
benzoins
benzoiodohydrin
benzol
benzolate
benzole
benzoles
benzoline
benzolize
benzols
benzomorpholine
benzonaphthol
benzonitrile
benzonitrol
benzoperoxide
benzophenanthrazine
benzophenanthroline
benzophenazine
benzophenol
benzophenone
benzophenothiazine
benzophenoxazine
benzophloroglucinol
benzophosphinic
benzophthalazine
benzopinacone
benzopyran
benzopyranyl
benzopyrazolone
benzopyrene
benzopyrylium
benzoquinoxaline
benzoquinoline
benzoquinone
benzoquinoxaline
benzosulphimide
benzotetrazine
benzotetrazole
benzothiazine
benzothiazole
benzothiazoline
benzothiodiazole
benzothiofuran
benzothiophene
benzothiopyran
benzotoluide
benzotriazine
benzotriazole
benzotrichloride
benzotrifluoride
benzotrifuran
benzoxate
benzoxy
benzoxyacetic
benzoxyacamphor
benzoxyphenanthrene
benzoyl
benzoylate
benzoylated
benzoylating
benzoylation
benzoylformic
benzoylglycine
benzoyls
benzpinacone
benzpyrene
benzthiophen
benzthioxazine
benzyl
benzylamine
benzylic
benzylidene
benzylpenicillin
benzyls
beode
beowulf
bepaid
bepaint
bepainted
bepainting
bepaints
bepale
bepaper
beparch
beparody
beparse
bepart
bepaste
bepastured
bepat
bepatched
bepaw
bepearl
bepelt
bepen
bepepper
beperiwigged
bepester
bepewed
bephilter
bephrase
bepicture
bepiece
bepierce
bepile
bepill
bepillared
bepimple
bepimpled
bepimples
bepimpling
bepinch
bepistoled
bepity
beplague
beplaided
beplaster
beplumed
bepommel
bepowder
bepraise
bepraisement
bepraiser
beprank
bepranked
bepray
bepreach
bepress
bepretty
bepride
beprose
bepuddle
bepuff
bepuffed
bepun
bepurple
bepuzzle
berberry
berbers
berbery
bercaneau
berceau
berceauette
bercelet
berceuse
berceuses
berdache
berdaches
berdash
bere
berearef
bereason
bereave
bereaved
bereavement
bereavevements
bereaven
bereaver
bereavers
bereaves
bereaving
berede
bereft
berend
berendo
berengelite
berengena
beresite
beret
beret's
berets
beretta
berettas
berewick
berg
bergalith
bergall
bergamasca
bergamasche
bergamask
bergamiol
bergamot
bergamots
bergander
bergaptene
berger
berrichonne
berried
berrier
berries
berrigan
berrugate
berry
berry's
berrybush
berrying
berryless
berrylike
berriman
berrypicker
berrypicking
bersagliere
bersaglieri
berseem
berseems
berserk
berserker
berserks
bersim
berskin
berstel
berth
bertha
berthage
berthas
berthed
berther
berthierite
berthing
berths
bertillonage
bertin
bertram
bertrandite
bertrum
beruffed
beruffled
berun
berust
bervie
berwick
berycid
beryiform
beryicine
berycoid
berycoidean
beryl
berylate
beryline
beryllate
beryllia
berylline
berylliosis
beryllum
berrylloid
beryllonate
beryllonite
beryllosis
berylys
beryx
berzelianite
berzeliiite
bes
besa
besagne
besague
besaiel
besaile
besaint
besan
besanctify
besand
besant
besauce
besayle
bescab
bescarf
bescatter
bescent
bescorch
bescorched
bescorches
bescorching
bescorn
bescoundrel
bescour
bescoured
bescourge
bescouring
bescours
bescramble
bescrape
bescratch
bescrawl
bescreen
bescreened
bescreening
besccreens
bescribble
bescribbled
bescribbling
bescurf
bescurry
bescutcheon
beseam
bese
ceseech
beseech
beseeched
beseecher
beseechers
beseeches
beseeching
beseechingly
beseechingness
beseechment
beseek
beseem
beseemed
beseeming
beseemingly
beseemingness
beseemliness
beseemly
beseems
beseen
beseige
beseet
beseatement
besets
besetter
besetters
besetting
besew
beshackle
beshade
beshadow
beshadowed
beshadowing
beshadows
beshag
besit
beslab
beslabber
beslap
beslash
beslave
beslaved
beslaver
besleeve
beslime
beslimed
beslimer
beslimes
besliming
beslings
beslipper
beslobber
beslow
beslubber
besluit
beslur
beslushed
besmear
besmeared
besmearer
besmearing
besmears
besmell
besmile
besmiled
besmiles
besmilting
besmirch
besmirched
besmircher
besmirchers
besmirches
besmirching
besmirchment
besmoke
besmoked
besmokes
besmoking
besmooth
besmoothed
besmoothing
bessmooths
besmother
besmottered
besmouch
besmudge
besmudged
besmudges
besmudging
besmut
besmutch
besmuts
besmuttered
besmutted
besmutting
besnare
besneer
besnivel
besnow
besnowed
besnowing
besnows
besnuff
besodden
besogne
besognier
besoil
besoin
besom
besomer
besoms
besonio
besonnet
besoot
besoothe
besoothed
besoothedness
besoothement
besoothes
besoothing
besort
besot
besotment
besots
besotted
besottedly
besotting
besottingly
besought
besoul
besour
betelgeuse
betell
betelnut
betelnuts
betels
beterschap
betes
beth
bethabara
benthank
benthanked
benthanking
benthankit
benthalks
bethel
bethels
bethesda
bethesdas
bethflower
bethink
bethinking
bethinks
bethlehem
bethlehemite
bethorn
bethorned
bethorning
bethorns
bethought
betherall
betheaten
betheroot
beths
bethumb
bethump
bethumped
bethumping
bethumps
betheunder
bethewack
bethwine
bethylid
betide
betided
betides
betiding
betimber
betime
betimes
betinge
betipple
betire
betis
betise
betises
betitle
betocsin
betoil
betoken
betokened
betokener
betokening
betokenment
betokens
beton
betone
betongue
betonica
betonies
betons
betony
betook
betorcin
betorcinol
betorn
betoss
betowel
betowered
betr'aying
betrace
betrail
betraise
betrample
betrap
betavel
betray
betrayal
betrayals
betrayed
betrayer
betrayers
betraying
betrayment
betrays
betread
betrend
betwattled
between
betweenbrain
betweenity
betweenmaid
betweenness
between
betweentimes
betweenwhiles
betwine
betwit
betwixen
betwixt
beudanite
beudantite
beulah
beuncled
beuniformed
beurre
bevaring
bevatron
bevatrons
beveil
bevel
beveled
beveler
bevelers
beveling
bevelled
beveller
bevellers
bevelling
bevelment
bevels
bevenom
bever
beverage
beverage's
beverages
beverse
bevesseled
bevesselled
beveselled
beveto
bevies
bevil
bevillain
bevilled
bevined
bezetta
bezette
bezil
bezils
bezique
beziques
bezoar
bezoardic
bezoars
bezonian
bezzant
bezzants
bezzi
bezzle
bezzled
bezzling
bezzo
bf
bg
bhabar
bhagat
bhagavat
bhagavata
bhaiachara
bhaiachari
bhaiyachara
bhajan
bhakta
bhaktas
bhakti
bhaktimarga
bhaktis
bhalu
bhandar
bhandari
bhang
bhangi
bhangs
bhora
bharal
bharti
bhat
bhava
bhavan
bhd
bheestie
bheesties
bheesty
biannual
biannually
biannulate
biarchy
biarcuate
biarcuated
biarticular
biarticulate
biarticulated
bias
biased
biasedly
biases
biasing
biasness
biasnesses
biassed
biassedly
biasses
biassing
biastic
biyastic
biasways
biaswise
biathlon
biathlons
biatomic
biaural
biauricular
biauriculate
biaxal
biaxial
biaxiality
biaxially
biaxillary
bib
bib's
bibacious
bibaciousness
bibacity
bibasic
bibation
bibb
bibbed
bibber
bibberies
bibbers
bibbery
bibbing
bible
bibbled
bibbler
bibbling
bibbons
bibbs
bibby
bibcock
bibcocks
bibelot
bibelots
bibenzyl
biberon
bibi
bibionid
bibiri
bibiru
bibitory
bibl
bible
bible's
bibles
bibless
biblical
biblically
biblicism
biblicist
biblike
biblioclasm
biblioclast
bibliofilm
bibliog
bibliogenesis
bibliognost
bibliognostic
bibliogony
bibliograph
bibliographer
bibliographers
bibliographic
bibliographical
bibliographically
bibliographies
bibliographize
bibliography
bibliography's
bibliokelpt
biblioklept
bibliokleptomania
bibliokleptomaniac
bibiolater
bibiolatrist
bibiolatrous
bibiolatry
bibiological
bibliologies
bibiologist
bibiology
bibliomancy
bibliomane
bibliomania
bibliomaniac
bibliomaniacal
bibliomanian
bibliomanianism
bibliomanism
bibliomanist
bibliopecic
bibliopecically
bibliopecist
bibliopecistic
bibliopecistical
bibliopecy
bibliophage
bibliphagic
bibliophagist
bibliophagous
bibliophil
bibliophile
bibliophiles
bibliophilic
bibliophilism
bibliophilist
bibliophilistic
bibliophilily
bibliophobe
bibliophobia
bibliopolar
bibliopole
bibliopole
bibliopolery
bibliopolic
bibliopolical
bibliopolically
bibliopolism
bibliopolist
bibliopolistic
bibliopoly
bibiosoph
bibliotaph
bibliotaphe
bibliotaphic
bibliothec
bibliotheca
bibliothecae
bibliothecaire
bibliothecal
bibliothecarial
bibliothecarian
bibliothecary
bibliothecas
biblioteke
bibliotcheque
bibliotherapeutic
bibliotherapies
bibliotherapist
bibliotherapy
bibliothetic
bibliothque
bibliotic
bibliotics
bibliotist
biblist
biblists
biblos
biblus
bibrorate
bibracteate
bibracteolate
bibracts
bibulosities
bibulosity
bibulous
bibulously
bibulousness
bicalcarate
bicalvous
bicameral
bicameralism
bicameralist
bicamerist
bicapitate
bicapsular
bicarb
bicarbide
bicarbonate
bicarbonates
bicarbs
bicarbureted
bicarburetted
bicarinate
bicarpellary
bicarpellate
bicaudal
bicaudate
bicched
bice
bicellular
bicentenaries
bicentenarnaries
bicentenary
bicentennial
bicentennially
bicentennials
bicentral
bicentric
bicentrically
bicentricity
bicep
bicep's
bicephalic
bicephalous
biceps
bicepses
bies
bicetyl
bichir
bichloride
bichlorides
bidhord
bichos
bichromate
bichromated
bichromatic
bichromatize
bichrome
bichromic
bichy
biciliate
biciliated
bicipital
bicipitous
bicircular
bicirrose
bick
bicker
bickered
bickerer
bickerers
bickering
bickern
bickers
bickiron
biclavate
bielinia
biclinium
bicollateral
bicollaterality
bicolligate
bicolor
bicolored
bicolorous
bicolors
bicollour
bicoloured
bicolourous
bicolours
biconmact
biconcave
biconcavity
biconditional
bicondylar
bicone
biconic
biconical
biconically
biconjugate
biconnected
biconsonantal
biconvex
biconvexity
bicorn
bicornate
bicorne
bicorned
bicornes
bicornous
bicornuate
bicornuous
bicornute
bicorporal
biffing
bifins
biffs
biffy
bifid
bifidate
bifidated
bifidities
bifidity
bifidly
bifilar
bifilarly
bifistular
biflabellate
biflagelate
biflagellate
bijective
deflected
deflex
deflorate
deflorous
defluorid
defluoride
defocal
defocals
defoil
defold
defolia
defolate
defoliolate
defoliolate
defollicular
deforate
deforin
deforine
deforked
deforking
deform
deformal
deformality
deforous
defront
defrontal
defronted
defrost
defreck
defunctional
defurcal
biker
bikers
bikes
bikeway
bikeways
bik
bikhaconitine
bikie
biking
bikini
bikini's
bikinied
bikinis
bikkurim
bilabe
bilabial
bilabials
bilabiate
bilacinate
bilalo
bilamellar
bilamellate
bilamellated
bilaminar
bilaminate
bilaminated
biland
bilander
bilanders
bilateral
bilateralism
bilateralistic
bilateralities
bilaterality
bilateralally
bilateralness
bilayer
bilberries
bilberry
bilbi
bilbie
bilbies
bilbo
bilboa
bilboas
bilboes
bilboquet
bilbos
bilingualism
bilinguality
bilingually
bilinguair
bilinguist
bilinigrin
bilinite
bilio
bilious
biliously
biliousness
biliprasin
bilipurpurin
bilipyrrhin
bilirubin
bilirubinemia
bilirubinic
bilirubinuria
biliteral
biliteralism
bilith
bilithon
biliverdic
biliverdin
bilixanthin
bilk
bilked
bilker
bilkers
bilking
bilkis
bilks
bill
billa
billable
billabong
billage
billard
billback
billbeetle
billbergia
billboard
billboard's
billboards
billbroking
billbug
billbugs
billed
billow
billowed
billowier
billowiest
billowness
billowing
billows
billowy
billposter
billposting
bills
billsticker
billsticking
biltong
billy
billyboy
billycan
billycans
billycock
billyer
billyhood
billyo
billywix
bilo
bilobate
bilobated
bilobe
bilobed
bilobiate
bilobular
bilocation
bilocellate
bilocular
biloculate
bilocaline
bilophodont
biloquist
bilos
bilsh
bilsted
bilsteds
biltong
biltongs
biltongue
bim
bima
bimaculate
bimaculated
bimah
bimahs
bimalar
bimana
bimanal
bimane
bimanous
bimanual
bimanually
bimarginate
bimarine
bimas
bimastic
bimastism
bimastoid
bimasty
bimaxillary
bimbashi
bimbil
bimbo
bimboes
bimbos
bimeby
bimedial
bimensal
bimester
bimesters
bimestrial
bimetal
bimetalic
bimetalism
bimetallic
bimettallism
bimetallist
bimetallistic
bimetallists
bimetals
bimethyl
bimethyIs
bimillenary
bimillenial
bimillenium
bimillennia
bimillennium
bimillenniums
bimillionaire
bimilllennia
bimodal
bimodality
bimodule
bimodulus
bimolecular
bimolecularly
bimong
bimonthlies
bimonthly
bimorph
bimorphemic
bimorphs
bimotor
bimotored
bimotors
bimucronate
bimuscular
bin
bin's
binal
binaphthyl
binaphyl
binaries
binarium
binary
binate
binately
bination
binational
binaural
binaurally
binauricular
binbashi
bind
bindable
binder
binderies
binders
bindery
bindheimite
bindi
binding
bindingly
bindingness
bindings
bindis
bindle
bindles
bindlet
bindoree
binds
bindweb
bindweed
bindweeds
bindwith
bindwood
bine
binervate
bines
bineweed
binful
bing
binge
bingee
binges
bingey
bingeys
binghi
bingies
bingle
bingo
bingos
bingy
binh
biniodide
biniou
binit
binites
bink
binnman
binnmen
binna
binnacle
binnacles
binned
binning
binnite
binnogue
binny
bino
binocle
binocles
binocs
binocular
binocularly
binocularly
binoculars
binoculate
binodal
binode
binodose
binodous
binomen
binomenclature
binomial
binomialism
binomially
binomials
binominal
binominated
binominous
binomy
binormal
binotic
binotonous
binous
binoxalate
binoxide
bins
bint
bintangor
hints
binturong
binuclear
binucleate
binucleated
binucleolate
binukau
bio
bioaccumulation
bioacoustics
bioactivities
bioactivity
bioassay
bioassayed
bioassaying
bioassays
bioastronautical
bioastronautics
bioavailability
biobibliographer
biobibliographic
biobibliographical
biobibliographies
biobibliography
bioblast
bioblastic
biocatalyst
biocatalytic
biocellate
biocenology
biocenosis
biocenotic
biocentric
biochemic
biochemical
biochemically
biochemist
biochemistries
biochemistry
biochemists
biochemy
biochore
biochron
biocidal
biocide
biocides
bioclean
bioclimatic
bioclimatician
bioclimatological
bioclimatologically
bioclimatologies
bioclimatologist
bioclimatology
biocoenose
biocoenoses
biocoenosis
biocoenotic
biocontrol
biocycle
biocycles
biod
biodegradability
biodegradable
biodegradation
biodegrade
biodegraded
biodegrading
biodynamic
biodynamical
biodynamics
biogeographically
biogeography
biognosis
biograph
biographee
biographer
biographer's
biographers
biographic
biographical
biographically
biographies
biographist
biographize
biography
biography's
biohazard
bioherm
bioherms
bioinstrument
bioinstrumentation
biokinetics
biol
biolinguistics
biolite
biolith
biologese
biologic
biological
biologically
biologicohumanistic
biologics
biologies
biologism
biologist
biologist's
biologist's
biologistic
biologists
biologize
biology
bioluminescence
bioluminescent
biolyces
biolytic
biomagnetic
biomagnetism
biomass
biophysical
biophysically
biophysicist
biophysicists
biophysicochemical
biophysics
biophysiography
biophysiological
biophysiologist
biophysiology
biophyte
biopic
bioplasm
bioplasmic
bioplasms
bioplast
bioplastic
biopoesis
biopoiesis
biopotential
bioprecipitation
biopsic
biopsies
biopsy
biopsychic
biopsychical
biopsychological
biopsychologies
biopsychologist
biopsychology
bioptic
biopyribole
bioral
biorbital
biordinal
bioreaction
bioresearch
biorgan
biorhythm
biorhythmic
biorhythmicities
biorhythmicity
biorhythmic
bios
biosatellite
biosatellites
bioscience
biosciences
bipartition
bipartizan
biparty
bipaschal
bipectinate
bipected
biped
bipedal
bipedality
bipedism
bipeds
bipeltate
bipennate
bipennated
bipenniform
biperforate
bipersonal
bipetalous
biphase
biphasic
biphenol
biphenyl
biphenylene
biphenyals
bipinnaria
bipinnariae
bipinnarias
bipinnate
bipinnated
bipinnately
bipinnatifid
bipinnatiparted
bipinnatipartite
bipinnatisect
bipinnatisected
biplace
biplanal
biplanar
biplane
bipline's
biplanes
biplicate
biplicity
biplosion
biplosive
bipod
bipods
bipolar
bipolarity
bipolarization
bipolarize
bipont
biporose
biporous
bipotentialities
bipotentiality
biprism
biprong
bipropellant
bipunctal
bipunctate
bipunctual
bipupillate
bipyramid
bipyramidal
bipyridine
bipyridyl
biquadrantal
biquadrate
biquadratic
biquarterly
biquartz
biquintile
biracial
biracialism
biradial
biradiate
biradiated
biramous
birational
birch
birchbark
birched
birchen
bircher
birchers
birches
birching
birchism
birchman
birchwood
bird
bird's
birdbander
birdbanding
birlers
birles
birlie
birliman
birling
birlings
birlinn
birls
birma
birmingham
bim
bime
binny
birodo
birostrate
birostrated
birota
birotation
birotatory
birr
birred
birretta
birrettas
birri
birring
birs
birus
birse
birses
birsit
birsle
birsy
birt
birth
birthbed
birthday
birthday's
birthdays
birthdom
birthed
birthing
birthland
birthless
birthmark
birthmarks
birthmate
birthnight
birthplace
birthplaces
birthrate
birthrates
birthright
birthright's
birthrights
birthroot
births
birthstone
birthstones
birthstool
birthwort
birthy
bis
bisabol
bisaccate
bisacromial
bisagre
bisalt
bisannual
bisantler
bisaxillary
bisayan
bisbeeite
biscacha
biscayan
biscayen
bischofite
biscot
biscotin
biscuit
biscuit's
biscuiting
biscuitlike
biscuitmaker
biscuitmaking
biscuitroot
biscuiry
biscuits
biscutate
bisdiapason
bisdimethylamino
bise
bisect
bisected
bisecting
bisection
bisection's
bishopscap
bishopship
bishopstool
bishopweed
bishydroxycoumarin
bisie
bisiliac
bisilicate
bisiliquous
bisimine
bisinuate
bisinuation
bisischiadic
bisischiatic
bisk
biskop
bisks
bislings
bismanol
bismar
bismarck
bismarine
bismark
bisme
bismer
bismerpund
bismethyl
bismillah
bismite
bismuth
bismuthal
bismuthate
bismuthic
bismuthide
bismuthiferous
bismuthine
bismuthinite
bismuthite
bismuthous
bismuths
bismuthyl
bismutite
bismutoplagionite
bismutosmalite
bismutosphaerite
bisnaga
bisnagas
bisognio
bitemate
bitemately
biters
bites
bitesheep
bitewing
bitewings
bitheism
biti
biting
bitingly
bitingness
bitless
bitmap
bitmapped
bitnet
bito
bitolyl
bitonal
bitonalities
bitonality
bitore
bitreadle
bitripartite
bitripinnatifid
bitriseptate
bitrochanteric
bits
bitser
bitstalk
bitstock
bitstocks
bitstone
bitsy
bitt
bittance
bitten
bitter
bitterbark
bitterblain
bitterbloom
bitterbrush
bitterbump
bitterbur
bitterbush
bittered
bituminisation
bituminise
bituminised
bituminising
bituminization
bituminize
bituminized
bituminizing
bituminoid
bituminosis
bituminous
bitwise
bityte
bitypic
biune
biunial
biunique
biuniquely
biuniqueness
biunity
biunivocal
biurate
biurea
biuret
bivalence
bivalencies
bivalency
bivalent
bivalents
bivalve
bivalve's
bivalved
bivalves
bivalvian
bivalvous
bivalvular
bivane
bivariant
bivariate
bivascular
bivaulted
bivector
biventer
biventral
biverb
biverbal
bivial
bivinyl
bivinyls
bivious
bivittate
bivium
bivocal
bivocalized
bivoltine
bivoluminous
bivouac
bivouaced
bivouacked
bivouacking
bivouacks
bivouacs
bivvy
biwa
biweekly
biwinter
bixa
bixaceous
bixyte
bixin
biyearly
biz
bizant
bizardite
bizarre
bizarrely
bizarreness
bizarrie
bizarres
biczacha
bize
bizel
bizes
bizet
biznaga
biznagas
bizonal
bizone
bizones
bizygomatic
bizz
bizzarro
bk
bkbndr
bkey
blackneb
blackneck
blackness
blacknob
blackout
blackout's
blackouts
blackpatch
blackplate
blackpoll
blackpot
blackprint
blackrag
blackroot
blacks
blackseed
blackshirt
blackshirted
blacksmith
blacksmithing
blacksmiths
blacksnake
blackstick
blackstrap
blacktail
blackthorn
blackthorns
blacktongue
blacktop
blacktopped
blacktopping
blacktops
blacktree
blackware
blackwash
blackwasher
blackwashing
blackwater
blackweed
blackwood
blackwork
blackwort
blacky
blad
bladder
bladder's
bladderet
bladderless
bladderlike
bladdernose
bladdernut
bladderpod
bladders
bladderseed
bladderweed
bladderwort
bladderwrack
bladdery
blade
blade's
bladebone
bladed
bladeless
bladelet
bladelike
blader
blades
bladesmith
bladewise
blading
bladish
blady
bladygrass
blae
blaeberries
blaeberry
blaeness
blaewort
blaff
blaffert
blaflum
blaggard
blague
blagueur
blah
blahlaut
blahs
blain
blains
blair
blaismorite
blake
blakeberyed
blakeite
blam
blamability
blaoners
blare
blared
blares
blarina
blaring
blarney
blarneyed
blarneyer
blarneying
blarneys
blarnid
blarny
b lar
t
blas
d
t
t
blaseness
blash
blasly
blason
blaspheme
blasphemed
blasphemer
blasphemers
blasphemes
blasphemies
blaspheming
blasphemous
blasphemously
blasphemousness
blasphemy
blast
blastaea
blasted
blastema
blastemal
blastemas
blastemata
blastematic
blastemic
blaster
blasters
blastful
blasthole
blastid
blastide
blastie
blastier
blastoporal
blastopore
blastoporic
blastoporphyritic
blastosphere
blastospheric
blastostylar
blastostyle
blastozooid
blastplate
blasts
blastula
blastulae
blastular
blastulas
blastulation
blastule
blasty
blat
blatancies
blatancy
blatant
blatantly
blatch
blatchang
blate
blately
blateness
blateration
blateroon
blather
blathered
blatherer
blathering
blathers
blatherskite
blatherskites
blathery
blatiform
blatjang
blats
blatta
blatted
blatter
blattered
blatterer
blattering
blatters
blatti
blattid
blattiform
blatting
blattoid
blaubok
blauboks
blaunner
blautok
blauwbok
blayer
blaw
blawed
blawing
blawn
blawort
blaws
blay
blayk
blaze
blazed
blazer
blazers
blazes
blazing
blazingly
blazon
blazoned
blazoner
blazoners
blazoning
blazonment
blazonries
blazonry
blazons
blazy
bld
bldg
bldr
blea
bleaberry
bleach
bleachability
bleachable
bleached
bleacher
bleacheries
bleacherite
blenk
blennadenitis
blennemesis
blennenteria
blennenteritis
blennies
blenniid
blenniiform
blennioid
blennocele
blennocystitis
blennomesis
blennogenic
blennogenous
blennoid
blennoma
blennometritis
blennophlogisma
blennophlogosis
blennophobia
blennophthalmia
blennoptysis
blennorhea
blennorrhagia
blennorrhagic
blennorrhea
blennorrheal
blennorrhinia
blennorrhoea
blennosis
blennostasis
blennostatic
blennothorax
blennotorrhea
blennuria
blenny
blennymenitis
blens
blent
bleo
blephara
blepharadenitis
blepharal
blepharanthracosis
blepharedema
blepharelcosis
blepharemphysema
blepharism
blepharitic
blepharitis
blepharoadenitis
blepharoadenoma
blepharoatheroma
blepharoblenorrhea
blepharocarcinoma
blepharochalasis
blepharochromidrosis
blepharocon
blepharoclonus
blepharocoloboma
blepharoconjunctivitis
blepharodiastasis
blepharodyschroia
blepharohe
tidrosis
blepharolithiasis
blepharomelasma
blepharoncisis
blepharoncus
blepharophimosis
blepharophryoplasty
blepharophthalmia
blepharophyma
blepharoplast
blepharo
de
blepharoplasty
blepharoplegia
blepharoptosis
blepharopyorhea
blepharorrhaphy
blepharospasm
blepharospa
blepharospincterectomy
blepharostat
blepharostenosis
blepharo symphysis
blepharosyn
desmatis
blepharosynechiae
blepharotomy
blepharydatis
ble
ter
ters
blesbok
blesboks
blesbuck
blesbucks
blesmol
bles
ters
blesse
blessed
blesseder
blessedest
blessedly
blessedness
blessier
blessiers
blesses
blessing
blessingly
blessings
blest
blet
blethe
blether
bletheration
blethered
blethering
blethers
bletherskate
bletonism
blets
bletted
bletting
bleu
blew
blewits
bleymes
bliaut
blibe
blick
blickey
blickeys
blickie
blickies
blicky
blier
bliest
blight
blightbird
blighted
blighter
blighters
blighties
blightings
blightingly
blights
blightly
bloodedness
bloodfin
bloodfins
bloodflower
bloodguilt
bloodguiltiness
bloodguiltless
bloodguilty
bloodhound
bloodhound's
bloodhounds
bloodied
bloodier
bloodies
bloodiest
bloodily
bloodiness
blooding
bloodings
bloodleaf
bloodless
bloodlessly
bloodlessness
bloodletter
bloodletting
bloodletttings
bloodlike
bloodline
bloodlines
bloodlust
bloodlusting
bloodmobile
bloodmobiles
bloodmonger
bloodnoun
bloodred
bloodripe
bloodripeness
bloodroot
bloodroots
bloods
bloodshed
bloodshedder
bloodshedding
bloodshot
bloodshotten
bloodspiller
bloodspilling
bloodstain
bloodstain's
bloodstained
bloodstainedness
bloodstains
bloodstanch
bloodstock
bloodstone
bloodstones
bloodstream
bloodstreams
bloodstroke
bloodsuck
bloodsucker
bloodsuckers
bloodsucking
bloodtest
bloodthirst
bloodthirster
bloodthirstier
bloodthirstiest
bloodthirstily
bloodthirstiness
bloodthirsting
bloodthirsty
bloodweed
bloodwit
bloodwite
bloodwood
bloodworm
bloodwort
bloodworthy
bloody
bloodybones
bloodying
blooey
blooie
bloom
bloomage
bloomed
bloomer
bloomeries
bloomerism
bloomers
bloomery
bloomfell
bloomier
bloomiest
blubbered
blubberer
blubberers
blubberhead
blubbering
blubberingly
blubberman
blubberous
blubbers
blubbery
blubbing
blucher
bluchers
bludge
bluged
bludgeon
bludgeoned
bludgeoneer
bludgeoner
bludgeoning
bludgeons
bludger
bludging
blue
blueback
blueball
blueballs
bluebead
bluebeard
bluebell
bluebelled
bluebells
blueberries
blueberry
blueberry's
bluebill
bluebills
bluebird
bluebird's
bluebirds
blueblack
blueblaw
blueblood
blueblossom
bluebonnet
bluebonnet's
bluebonnets
bluebook
bluenoses
bluepoint
bluepoints
blueprint
blueprint's
blueprinted
blueprinter
blueprinting
blueprints
bluer
blues
bluesides
bluesman
bluesmen
bluest
bluestem
bluestems
bluestocking
bluestockingish
bluestockingism
bluestockings
bluestone
bluestoner
bluesy
bluet
blueth
bluethroat
bluetick
bluetit
bluetongue
bluetop
bluetops
bluets
blueweed
blueweeds
bluewing
bluewood
bluewoods
bluey
blueys
bluff
bluffable
bluffed
bluffer
bluffers
bluffest
bluffing
bluffly
blunting
bluntish
bluntishness
bluntly
bluntness
blunts
blup
blur
blur's
blurb
blurbist
blurbs
blurping
blurred
blurredly
blurredness
blurrer
blurrier
blurriest
blurrily
blurriness
blurring
blurringly
blurry
blurs
blurt
blurted
blurted
blurters
blurting
blurts
blush
blushed
blusher
blushers
blushes
blushet
blushful
blushfully
blushfulness
blushiness
blushing
blushingly
blushless
blasht
blushwort
blushy
bluster
bodysurf
bodysurfed
bodysurfer
bodysurfing
bodysurfs
bodywear
bodyweight
bodywise
bodywood
bodywork
bodyworks
boe
boehmenism
boehmite
boehmites
boeing
boecotarch
boeotia
boeotian
boer
boers
boettner
boff
boffin
boffins
boffo
boffola
boffolas
boffos
boffs
bog
bog's
boga
bogach
bogan
bogans
bogard
bogart
bogaty
bogbean
bogbeans
bogberries
bogberry
boget
bogey
bogeyed
bogeying
bogeyman
bold
boldacious
bolded
bolden
bolder
boldest
boldface
boldfaced
boldfacedly
boldfacedness
boldfaces
boldfacing
boldhearted
boldheartedly
boldheartedness
boldin
boldine
bolding
boldly
boldness
boldnesses
boldo
boldoine
boldos
bole
bolection
bolectioned
boled
boleite
bolelike
bolero
boleros
boles
boletaceous
bolete
boletes
boleti
boletic
boletus
boletuses
boleweed
bolewort
boliche
bolide
bolides
bolimba
bolis
bolita
bolometer
bolometric
bolometrically
boloney
boloneys
boloroot
bolos
bolshevik
bolshevik's
bolsheviks
bolshevism
bolshevist
bolshevistic
bolshevistically
bolshevists
bolshevize
bolsheved
bolsheveding
bolshie
bolshies
bolshy
bolson
bolsons
bols
bolstered
bolsterer
bolsterers
bolstering
bolsters
bolsterwork
bolt
boltage
boltant
boltcutter
bolted
bolte
bolter
bolters
bolthead
bolthead
bolthead
bolthole
boltholes
boli
bolting
boltings
bondholder
bondholders
bondholding
bondieuserie
bonding
bondland
bondless
bondmaid
bondmaids
bondman
bondmanship
bondmen
bondminder
bondoc
bondon
bonds
bondservant
bondship
bondslave
bondsman
bondsmen
bondstone
bondswoman
bondswomen
bonduc
bonducnut
bonducs
bondwoman
bondwomen
bone
boneache
bonebinder
boneblack
bonebreaker
boned
bonedog
bonedry
boneen
bonefish
bonefishes
boneflower
bonehead
boneheaded
boneheadedness
boneheads
boneless
bonelessly
bonelessness
bonelet
bonelike
boner
boners
bones
boneset
bonesets
bonesetter
bonesetting
boneshaker
boneshave
boneshaw
bonetail
bonete
bonetta
bonewood
bonework
bonewort
boney
boneyard
boneyards
bonfire
bonfire's
bonfires
bong
bongar
bonged
bonging
bongo
bongoes
bongoist
bongoists
bongos
bongrace
bongs
bonhomie
bonhomies
bonhomme
bonhommie
bonhomous
bonhomously
boniata
bonier
boniest
boniface
bonifaces
bonification
boniform
boobs
booby
boobyalla
boobyish
boobyism
bood
boodh
boodie
boodle
boodled
boodledom
boodleism
boodleize
boodler
boodlers
boodles
boodling
boody
booded
boof
boogaloo
booger
boogerman
boogers
boogeyman
boogeymen
boogie
boogies
boogiewoogie
boogum
boogyman
boogymen
boohoo
boohooed
boohooing
boohoos
booking
boojum
book
bookable
bookbind
bookbinder
bookbinderies
bookbinders
bookbindery
bookbinding
bookboard
bookcase
boondoggled
boondoggler
boondoggler
boondoggles
boondoggling
boonfellow
boong
boongary
boonies
boonk
boonless
boons
boopic
boopis
boor
boor's
boordly
boorga
boorish
boorishly
boorishness
boors
boort
boos
boose
boosies
boost
boosted
booster
boosterism
boosters
boosting
boosts
boosy
boot
bootable
bootblack
bootblacks
boothboy
booted
bootee
bootees
booter
booteries
bootery
bootes
bootful
booth
borders
bordman
bordrag
bordrage
bordroom
bordun
bordure
bordured
bordures
bore
boreable
boread
boreal
borealis
borean
boreas
borecole
borecoles
bored
boredness
boredom
boredoms
boree
boreen
boreens
boregat
borehole
boreholes
boreism
borel
borele
borer
borers
bores
boresight
boresome
boresomely
boresomeness
borg
borgh
borghalpenny
borghi
borh
bori
boric
borickite
borid
boride
borides
borine
boring
boringly
boringness
borings
borish
borism
borith
borities
bority
borize
borlase
borley
born
bornan
bornane
borne
borneo
borneol
borneols
borning
bornite
bornites
bornitic
bornyl
boro
borocalcite
borocarbide
borocitrate
borofluohydric
borofluoric
borofluoride
borofluorin
boroglycerate
boroglyceride
boroglycerine
borohydride
borolanite
boron
boronatrocalkite
boronia
boronic
borons
borophenol
borophenylic
borosalicylate
borosalicylic
bos'n  
boscage  
boscages  
bosch  
boschbok  
boschboks  
boschvark  
boschveld  
bose  
boser  
bosey  
bosh  
boshbok  
boshboks  
boshel  
boshes  
boshvark  
boshvarks  
bosjesman  
bosk  
boskage  
boskages  
bosker  
bosket  
boskets  
boskier  
boskies  
boskiness  
boskopoid  
bosks  
bosky  
bosn  
bosom  
bosom's  
bosomed  
bosomer  
bosominess  
bosoming  
bosoms  
bosomy  
boson  
bosonic  
bosons  
bosporus  
bosque  
bosques  
bosquet  
bosquets
boss
bosa
bossage
bossboy
bossdom
bossdoms
bossed
bosselated
bosselation
bosser
bosses
bosset
bosseyed
bossier
bossies
bossiester
bossily
bossiness
bossing
bossism
bossisms
bosslet
bossship
bossy
bostal
bostangi
bostanji
bosthoon
boston
bostonian
bostonian's
bostonians
bostonite
bostons
bostrichid
bostrychoiid
bostrychoideal
bostryx
bosun
bosuns
boswell
boswellian
boswellism
boswellize
boswellized
boswellizing
bot
bota
botry
botrycymose
botrylle
botryogen
botryoid
botryoidal
botryoidally
botryolite
botryomycoma
botryomycosis
botryomycotic
botryopterid
botryose
botryotherapy
botytis
botrytises
bots
botsswana
bott
botte
bottega
bottegas
bottege
bottekin
botticelli
bottier
bottine
bottle
bottled
bottlebird
bottlebrush
bottlenest
bottlenose
bottler
bottlers
bottles
bottlesful
bottlestone
bottling
bottom
bottomchrome
bottomed
bottomer
bottomers
bottoming
bottomland
bottomless
bottomlessly
bottomlessness
bottommost
bottomried
bottomries
bottomry
bottomrying
bottoms
bottonhook
botts
bottstick
bottu
botuliform
botulin
botulinal
botulins
botulimum
botulinus
botulinuses
botulism
botulisms
botulismus
boubas
boubou
boubous
boucan
bouch
bouchal
bouchaleen
boucharde
bouche
bouchee
bouchees
boucher
boucherism
boucherize
bouchette
bouchon
bouchons
boucl
boucle
boucles
boud
bouderie
boudeuse
boudin
boudoir
boudoiresque
boudoirs
bouet
bouffage
bouffancy
bouffant
bouffante
bouffants
bouffe
bouffes
bouffon
bougainvillaea
bougainvillaeas
bougainvillea
bougar
bouge
bougee
bougeron
bouget
bough
bough's
boughed
boughless
boughpot
boughpots
boughs
bought
boughten
boughy
bougie
bougies
bouillabaisse
bouilli
bouillon
bouillone
bouillons
bouk
boukit
boweries
bowering
bowerlet
bowerlike
bowerly
bowermaiden
bowermay
bowers
bowerwoman
bowery
bowess
bowet
bowfin
bowfins
bowfront
bowge
bowgrace
bowhead
bowheads
bowie
bowiefull
bowing
bowingly
bowings
bowk
bowkail
bowker
bowknot
bowknots
bowl
bowlala
bowlder
bowlderhead
bowldering
bowlders
bowldery
bowle
bowled
bowleg
bowlegged
bowleggedness
bowlegs
bowler
bowlers
bowles
bowless
bowful
bowfuls
braced
bracelet
bracelet's
braceleted
bracelets
bracer
bracero
braceros
bracers
bracery
braces
brach
brache
brachelytrous
bracherer
brachering
braches
brachat
brachets
brachia
brachial
brachialgia
brachialis
brachials
brachiate
brachiated
brachiating
brachiation
brachiator
brachiiferous
brachigerous
brachiocephalic
brachioceural
brachiocular
brachiocystosis
brachiofacial
brachiofaciolingual
brachiogonoid
brachiolaria
brachiolarian
brachiopod
brachiopode
brachiopodist
brachiopodous
brachioradial
brachioradialis
brachiorrhachidian
brachiorheuma
brachiosaur
brachiosaurus
brachiostrophosis
brachiotomy
brachistocephali
brachistocephalic
brachistocephalous
brachistocephaly
brachistochrone
brachistochronic
brachistochronous
brachium
brachman
brachtmema
brachyaxis
brachycardia
brachycalectic
brachycephal
brachycephales
brachycephali
brachycephalic
brachycephalies
brachycephalism
brachycephalization
brachycephalize
brachycephalous
brachycephaly
brachyceral
brachyceric
brachycerous
brachychronic
brachynemich
brachycranial
brachycranic
brachycrany
brachydactyl
brachydactyly
brachydactylia
brachydactylic
brachydactylism
brachydactylous
brachydactyly
brachydiagonal
brachydodrome
brachydromous
brachydomal
brachydomatic
brachydome
brachydont
brachydontism
brachyfacial
brachyglossal
brachyglossia
brachyglossism
brachyglossous
brachygrapher
brachygraphic
brachygraphical
brachygraphy
brachyhieric
brachylogies
brachylogy
brachymetropia
brachymetropic
brachyphalangia
brachyphalangia
brachypiaconoid
brachypiaconoidal
brachypleural
brachypnea
brachypodine
brachypodous
brachyprism
brachyprosopic
brachypterous
brachyptery
brachypymatic
brachyrhinia
brachysclereid
brachyscleral
brachyscleral
brachyscleral
brachyscleral
brachyscleral
brachytype
brachytypous
brachyural
brachyural
brachyuran
brachyuranic
brachyuranic
brachyure
brachyurous
bracing
bracingly
bracingness
bracings
braciola
braciolas
bradyacousia
bradyauxesis
bradyauxetic
bradyauxetically
bradycardia
bradycardic
bradycardia
bradycinesia
bradycrotic
bradydactyli
bradydactylia
bradyesthesia
bradyglossia
bradykinesia
bradykinesis
bradykinetic
bradykinin
bradylalia
bradylexia
bradylogia
bradynosis
bradyno
gia
bradypnea
bradyno
eoa
bradypod
bradypode
bradypodoid
bradyseism
bradyseismal
bradyseismic
bradyseismical
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismism
bradyseismis
brae
brae's
braeface
braehead
braeman
braes
braeside
brag
bragas
brager
braggadocian
braggadocianism
braggadocio
braggadocios
braggardism
braggart
braggartism
braggartly
braggartry
braggarts
braggat
bragged
bragger
bragers
braggery
braggest
braggable
braggier
braggiest
bragging
braggingly
braggish
braggishly
braggite
braggle
braggy
bragi
bragite
bragless
bragly
bragozzo
brags
braguette
bragwort
brahm
brahma
brahmachari
brahman
brancher
branchery
branches
branchful
branchi
branchia
branchiae
branchial
branchiate
branchicolous
branchier
branchiest
branchiferous
branchiform
branchihyal
branchiness
branching
branchings
branchiocardiac
branchiogenous
branchiomere
branchiomerich
branchiomerism
branchiopallial
branchiopneustic
branchiopod
branchiopodan
branchiopodous
branchiopoo
branchiopulmonate
branchiosaur
branchiosaurian
branchiostegal
branchiostegian
branchiostege
branchiostegite
branchiostegous
branchiostomid
branchiostomous
branchireme
branchiurous
branchless
branchlet
branchlike
branchling
branchman
branchstand
branchway
branchy
brand
brandade
branded
brandenburgh
brandenburgs
brander
brandering
branders
brandied
brandies
brandify
branding
brandiron
brandise
brandish
brandished
brandisher
brandishers
brandishes
brandishing
brandisite
brandle
brandless
brandling
brandon
brandreth
brandrith
brands
brandsolder
brandy
brandyball
brandying
brandyman
brandywine
brangle
brangled
branglement
brangler
brangling
branial
brank
brankie
brankier
brankiest
branks
brankursine
branky
branle
branles
branned
branner
brannerite
branners
brannier
branniest
brannigan
branniness
branning
branny
brans
bransle
bransles
bransolder
brant
brantail
brantails
brantcorn
brantle
brantness
brants
branular
braquemard
brarow
bras
brasen
brasero
braseros
brash
brasher
brashes
brashest
brashier
brashiest
brashiness
brashly
brashness
brashy
brasier
brasiers
brasil
brasilein
brasilete
brasiletto
brasilia
brasilin
brasils
brasils
brasque
brasqued
brasquing
brass
brassage
brassages
brassard
brassards
brassart
brassarts
brassate
brassbound
brassbounder
brasse
brassed
brasser
brasserie
brasseries
brasses
brasset
brassey
brasseys
brassic
brassica
brassicaceous
brassicas
brassidic
brassie
brassier
brassiere
brassieres
brassies
brassiest
brassily
brassiness
brassish
brassish
brasslike
brassware
brasswork
brassworker
brassworks
brassy
brassyllic
brat
brat's
bratchet
bratina
bratling
brats
bratstva
bratstvo
brattach
brattice
bratticed
bratticer
brattices
bratticing
brattie
brattier
brattiest
brattiness
brattish
brattishing
brattle
brattled
brattles
brattling
bratty
bratwurst
braula
brauna
braunite
braunites
braunschweiger
brava
bravade
bravado
bravadoed
bravadoes
bravadoing
bravadoism
bravados
bravas
brave
braved
bravehearted
bravely
braveness
braver
braveries
bravers
bravery
braves
break
breakability
breakable
breakableness
breakables
breakably
breakage
breakages
breakaway
breakax
breakaxe
breakback
breakbone
breakbones
breakdown
breakdown's
breakdowns
breaker
breakerman
breakermen
breakers
breakfast
breakfasted
breakfaster
breakfasters
breakfasting
breakfastless
breakfasts
breakfront
breakfronts
breaking
breakings
breakless
breaklist
breakneck
breakoff
breakout
breakouts
breakover
breakpoint
breakpoint's
breakpoints
breaks
breakshugh
breakstone
breakthrough
breakthrough's
breakthroughes
breakthroughs
breakup
breakups
breakwater
breakwater's
breakwaters
breakweather
breakwind
bream
breamed
breaming
breams
breards
breast
breastband
breastbeam
breastbone
breastbones
breasted
breaster
breastfast
breastfeeding
breastful
breastheight
breasthook
breastie
breasting
breastless
breastmark
breastpiece
breastpin
breastplate
breastplates
breastplough
breastplow
breastrail
breastrope
breasts
breaststroke
breaststroker
breaststrokes
breastsummer
breastweed
breastwise
breastwood
breastwork
breastwork's
breastworks
breath
breathability
breathable
breathableness
breathalyse
breathe
breatheableness
breathed
breather
breathers
breathes
breathful
breathier
breathiest
breathily
breathiness
breathing
breathingly
breathless
breathlessly
breathlessness
breaths
breathseller
breathtaking
breathtakingly
breathy
breba
breccia
breccial
breccias
brecciate
brecciated
brecciating
brecciation
brecham
brechams
brechan
brechans
brecht
brechtian
breccia
breck
brecken
bred
bredbergite
brede
bredes
bredestitch
bredi
bredstitch
bree
breech
breech's
breechblock
breechcloth
breechcloths
breechclout
breeched
breeches
breechesflower
breechesless
breeching
breechless
breechloader
breechloading
breed
breedable
breedbate
breeder
breeders
breediness
breeding
breedings
breedling
breeds
breedy
breek
breekless
breeks
breekums
breenge
breenger
brees
breeze
breeze's
breezed
breezeful
breezless
breezelike
breezes
breezeway
breezeways
breezier
breeziest
breezily
breeziness
breezing
breezy
bregma
bregmata
bregmate
bregmatic
brehon
brehonia
brehonship
brei
breird
breislakite
breithauptite
brekkle
brekky
brelan
brelaw
breloque
brember
breme
bremely
bremeness
bremsstrahlung
bren
brended
brendice
brennage
brennschluss
brens
brent
brents
brephic
brerd
brere
bressomer
bressummer
brest
bret
bretelle
bretesse
breth
brethel
brethren
brethrenism
breton
bretons
brett
brettice
briefer
briefers
briefest
briefing
briefing's
briefings
briefless
brieflessly
brieflessness
briefly
briefness
briefs
brier
brierberry
briered
brierroot
briers
brierwood
briery
bries
briefe
brig
brig's
brigade
brigade's
brigaded
brigades
brigadier
brigadier's
brigadiers
brigadiership
brigading
brigalow
brigand
brigandage
brigander
brigandine
brigandish
brigandishly
brigandism
brigands
brigantine
brigantinebrigantines
brigantines
brigatry
brigbote
brigetty
bright
brisked
brisken
briskened
briskening
brisker
briskest
brisket
briskets
brisking
briskish
briskly
briskness
brisks
brisky
brisling
brislings
brisque
briss
brisses
brist
bristle
bristlebird
bristlecone
bristled
bristleless
bristlelike
bristlemouth
bristlemouths
bristler
bristles
bristletail
bristlewort
bristlier
bristliest
bristliness
bristling
bristy
bristol
bristols
brisure
brit
britain
britannia
britannic
britannica
britany
britchel
britches
broadaxes
broadband
broadbill
broadbrim
broadcast
broadcasted
broadcaster
broadcasters
broadcasting
broadcastings
broadcasts
broadcloth
broaden
broadened
broadener
broadeners
broadening
broadenings
broadens
broader
broadest
broadgage
broadhead
broadhearted
broadhorn
broadish
broadleaf
broadleaves
broadling
broadlings
broadloom
broadlooms
broadly
broadmincedly
broadmouth
broadness
broadpiece
broads
broadshare
broadsheet
broadside
broad-sided
broad sider
broad sides
broad siding
broadsp read
broad sword
broad swords
broils
brokage
brokages
broke
broken
brokenhearted
brokenheartedly
brokenheartedness
brokenly
brokenness
broker
brokerage
brokerages
brokereress
brokerly
brokers
brokership
brokery
brokes
broking
broletti
broletto
brolga
broll
brollyes
brolly
broma
bromacetanilide
bromacetate
bromacetic
bromacetone
bromal
bromalbumin
bromals
bromamide
bromamid
bromargyr
de
bromate
bromated
bromates
bromating
bromatium
bromatology
bromaurate
bromauric
brombenzamide
brombenzene
brombenzyl
bromcamphor
brom cresol
brome
brome grass
bromeignon
bromeikon
bromeliaceous
bromeliad
bromelin
bromelins
bromellite
bromeosin
bromes
brom ethyl
brom ethylene
brom gelatin
brom hidrosis
brom hydrate
brom hydric
bromic
bromid
bromide
bromide's
bromides
bromidic
bromidically
bromidrosiphobia
bromidrosis
bromids
bromin
brominate
brominated
brominating
bromination
brom indigo
bromine
bromines
brominism
brominize
bromins
bromiodide
bromisation
bromise
bromised
bromising
bromism
bromisms
bromite
bromization
bromize
bromized
bromizer
bromizes
bromizing
bromlite
bromo
bromoacetone
bromoaurate
bromoaurates
bromoauric
bromobenzene
bromobenzyl
bromocamphor
bromochloromethane
bromochlorophenol
bromocresol
bromocyanid
bromocyanidation
bromocyanide
bromocyanogen
bromodeoxyuridine
bromoethylene
bromoform
bromogelatin
bromohydrate
bromohydrin
bromoil
bromoiidid
bromoioidide
bromoioidism
bromoiiodized
bromoketone
bromol
bromomania
bromomenorrhea
bromomethane
bromometric
bromometrical
bromometrically
bromometry
bromonaphthalene
bromophenol
bromopicrin
bromopikrin
bromopnea
bromoprotein
bromos
bronchoegophony
bronchoesophagoscopy
bronchogenic
bronchographic
bronchography
bronchohemorrhagia
broncholeummitis
broncholith
broncholithiasis
bronchomotor
bronchomucormycosis
bronchomyosisis
bronchopathy
bronchophonic
bronchophon
bronchophthisis
bronchoplastic
bronchoplegia
bronchopleurisy
bronchopneumonia
bronchopneumonic
bronchopulmonary
bronchorrhagia
bronchorrhaphy
bronchorrhhea
bronchosc
bronchoscope
bronchoscopic
bronchoscopically
bronchoscopist
bronchscopy
bronchospasm
bronchostenosis
bronchostomies
bronchostomy
bronchotetany
bronchotome
bronchotomist
bronchotomy
bronchotracheal
bronchotyphoid
bronchotyphus
bronchovesicular
bronchus
bronco
broncobuster
broncobusters
broncobusting
broncos
broncs
brongniardite
bronk
bronstrops
bronteco
brontephobia
bronteum
brontide
brontides
brontogram
brontograph
brontolite
brontolith
brontology
brontometer
brontophobia
brontops
brontosaur
brontosauri
brontosaurs
brontosaurus
brontosaurus
brontosaurus
brontosaurus
brontosaurus
brontosaurus
brontosaurus
brontospheres
brontoscope
brontothere
bronx
bronze
bronzed
bronzelike
brzenen
broner
bronzers
brones
bronzesmith
bronzewing
bronzier
bronziest
bronzify
bronazine
bronzing
bronzings
bronzite
bronzitite
bronzzy
broo
brooch
brooch's
brooched
broomier
broomiest
brooming
broommaker
broommaking
broomrape
broomroot
brooms
broomshank
broomsquire
broomstaff
broomstick
broomstick's
broomsticks
broomstraw
broomtail
broomweed
broomwood
broomwort
broomy
broon
broos
bros
broses
brosot
brosse
brosy
brot
brotan
brotany
brotchen
brotel
broth
brothe
brothel
brothel's
brotheler
brothelike
brothelry
brothels
brother
brother's
brothered
brotherhood
brothering
brotherless
brotherlike
brotherliness
brotherly
brotherred
brothers
brothership
brotherwort
brothier
brothiest
broths
brothy
brotocrystal
brott
brotula
brotulid
brotuliform
brouette
brough
brougham
broughams
brought
broughta
broughtas
brouhaha
brouhahas
brouille
brouillon
brouze
brow
brow's
browache
browallia
browband
browbands
browbeat
browbeaten
browbeater
browbeating
browbeats
browbound
browd
browden
browed
browet
browis
brunt
brunts
bruscha
bruscus
brush
brushability
brushable
brushback
brushball
brushbird
brushbush
brushcut
brushed
brusher
brushers
brushes
brushet
brushfire
brushfire's
brushfires
brushful
brushier
brushiest
brushiness
brushing
brushite
brushland
brushless
brushlessness
brushlet
brushlike
brushmaker
brushmaking
brushman
brushmen
brushoff
brushoffs
brushpopper
brushproof
brushup
brushups
brushwood
brushwork
brushy
brusk
brusker
bruskest
bruskly
bucare
bucayo
bucca
buccal
buccally
buccan
buccaned
buccaneer
buccaneering
buccaneerish
buccaneers
buccaning
buccanned
buccanning
buccar
buccate
buccero
buccberos
buccin
buccina
buccinae
buccinal
buccinator
buccinatory
bucciniform
buccinoid
buccinum
buccobranchial
buccocervical
buccogingival
buccolabial
buccolingual
bucconasal
buccopharyngeal
buccula
bucculae
buccelas
bucentaur
bucentur
bucephalus
buchanan
bucheast
bucheite
buchnerite
buchonite
buchu
buck
buckaroo
buckjumper
buckland
bucklelandite
buckle
buckled
buckleless
buckler
bucklered
bucklering
bucklers
buckles
buckling
bucklum
bucko
buckoes
buckone
buckplate
buckpot
buckra
buckram
buckramed
buckraming
buckrams
buckras
bucks
bucksaw
bucksaws
buckshee
buckshees
buckshot
buckshots
buckskin
buckskinned
buckskins
buckstall
buckstay
buckstone
bucktail
bucktails
buckteeth
buckthorn
bucktooth
bucktoothed
bucku
buckwagon
buckwash
buckwasher
buckwashing
bulbuls
bulbus
bulby
bulchin
bulder
bulgar
bulgaria
bulgarian
bulgarians
bulge
bulged
bulger
bulgers
bulges
bulgier
bulgiest
bulginess
bulging
bulgingly
bulgur
bulgurs
bulgy
bulies
bulimia
bulimiac
bulimias
bulimic
bulimiform
bulimoid
bulimus
bulimy
bulk
bulkage
bulkages
bulked
bulker
bulkhead
bulkhead's
bulkheaded
bulkheading
bulkheads
bulkier
bulkiest
bulkily
bulkin
bulkiness
bulking
bulkish
bulksulky
bull
bulla
bullace
bullaces
bullae
bullalaria
bullamacow
bullan
bullaria
bullaries
bullarium
bullary
bullate
bullated
bullation
bullback
bullbaiting
bullbat
bullbats
bullbeggar
bullberry
bullbird
bullboat
bullcart
bullcomber
bulldog
bulldog's
bulldogged
bulldoggedness
bulldogger
bulldogging
bulldoggish
bulldoggishly
bulldoggishness
bulldoggy
bulldogism
bulldogs
bulldoze
bulldozed
bulldozer
bulldozers
bulldoizes
bulldozing
bulldust
bulled
buller
bumboatmen
bumboats
bumboatwoman
bumclock
bumf
bumfeg
bumfs
bumfuzzle
bumicky
bumkin
bumkins
bummack
bummalo
bummalos
bummaree
bummed
bummel
bummer
bummerish
bummers
bummery
bumnest
bummie
bummil
bumming
bummile
bummler
bummock
bump
bumped
bumpee
bumper
bumpered
bumperette
bumpering
bumpers
bumph
bumpier
bumpiest
bumply
bumpiness
bumping
bumpingly
bumpty
bumpkin
bumpkinet
bumpkinish
bumpkinly
bumpkins
bumpoff
bumpology
bumps
bumpy
bumptious
bumptiously
bumptiousness
bumper
bums
bumsucking
bumtrap
bumwood
bun
bun's
buna
buncal
bunce
bunch
bunchbacked
bunchberries
bunchberry
bunched
buncher
bunches
bunchflower
bunchier
bunchiest
bunchily
bunchiness
bunching
bunchy
bunco
buncoed
buncoing
buncombe
buncombes
buncos
bund
bunder
bundh
bundies
bundist
bundists
bundle
bundled
bundler
bundlerooted
bundlers
bundles
bundlet
bundling
bundlings
bundobust
bundoc
bundocks
bundook
bunds
bundt
bundts
bundu
bundweed
bundy
bunemost
bung
bungaloid
bungalow
bungalow's
bungalows
bungarum
bunged
bungee
bunger
bungerly
bungey
bungfu
bungfull
bunghole
bungholes
bunging
bungle
bungled
bungler
bunglers
bungles
bunglesome
bungling
bunglingly
bunglings
bungmaker
bungo
bungos
bungs
bungstarter
bungtown
bungwall
burnets
burnettize
burnettized
burnettizing
burnewin
burnfire
burnie
burniebee
burnies
burning
burningly
burnings
burnish
burnishable
burnished
burnisher
burnishers
burnishes
burnishing
burnishment
burnoose
burnoosed
burnooses
burnous
burnoused
burnouses
burnout
burnouts
burnover
burns
burnside
burnsides
burnt
burntly
burntness
burntweed
burnup
burnut
burnweed
burnwood
burny
buro
buroo
burp
burped
burping
burps
burr
bursaries
bursars
bursarship
bursary
bursas
bursate
bursati
bursattee
bursautee
bursch
burse
bursectomy
burseed
burseeds
bursera
burseraceous
burses
bursicle
bursiculate
bursiform
bursitis
bursitises
bursitos
burst
bursteed
burster
bursters
burstiness
bursting
burstone
burstones
bursts
burstwort
bursty
bursula
burt
burthen
burthened
burthening
burthenman
burthens
burthensome
burton
burtonization
burtonize
burtons
burtree
burucha
bushwalking
bushed
bushwhacks
bushwhacked
bushwhacker
bushwhackers
bushwhacking
bushwhacks
bushwife
bushwoman
bushwood
bushy
busied
busier
busies
busiest
busily
busine
business
business's
businesses
businessese
businesslike
businesslikeness
businessman
businessmen
businesswoman
businesswomen
busing
busings
busk
busked
busker
buskers
busket
buskin
buskined
busking
buskins
buskle
busks
busky
busload
busman
busmen
buss
bussed
busser
busses
bussing
bussings
bussock
bussu
bussy
bust
bustard
bustard's
bustards
busted
bustee
buster
busters
busthead
busti
bustian
bustic
busticate
bustics
bustier
bustiest
busting
bustle
busted
bustler
bustlers
bustles
bustling
bustlingly
busto
busts
busty
busulfan
busulfans
busuuti
busway
busy
busybodied
busybodies
busybody
busybodyish
busybodyism
busybodyness
busyhead
busying
busyish
busyness
busynesses
busywork
busyworks
but
butacaine
butadiene
butadiyne
butanal
butane
butanes
butanoic
butanol
butanolide
butanolides
butanone
butanones
butat
butch
butcha
butcher
butcher's
butcherbird
butcherbroom
butcherdom
butchered
butcherer
butcheress
butcheries
butchering
butcherless
butcherliness
butcherly
butcherous
butchers
butchery
butches
butein
butene
butenes
butenyl
buteo
buteonine
buteos
butic
butin
butine
butle
buttwood
butty
buttyman
butut
bututs
butyl
butylamine
butylate
butylated
butylates
butylating
butylation
butylene
butylenes
butylic
butyls
butyne
butyr
butyraceous
butyr
butyraldehyde
butyral
butyraldehydes
butyrals
butyrate
butyrates
butyric
butyrically
butyrin
butyrinase
butyrins
butyrochloral
butyrochlorals
butyrochlorella
butyrochlorellae
butyrochlorella
butyrolactone
butyrometer
butyrometric
butyron
butyrous
butyrousness
butyr
butyryls
buvette
buxaceous
buxeous
buxerries
buxerry
buxine
buxom
buxomer
buxomest
buxomly
buxomness
buy
buyable
buyback
buybacks
buyer
buyer's
buyers
buying
buyout
buyouts
buys
buz
buzane
buzuki
buzukia
buzukis
buzylene
buzz
buzzard
buzzard's
buzzardlike
buzzardly
buzzards
buzzbomb
buzzed
buzzer
buzzphone
buzzers
buzzes
buzzgloak
buzzier
buzzies
buzziest
buzzing
buzzingly
buzzle
buzzsaw
buzzwig
buzzwigs
buzzword
buzzword's
buzzwords
buzzy
bv
bvt
bwana
bwanas
byssal
byssi
byssiferous
byssin
byssine
byssinosis
byssogenous
byssoid
byssolite
byssus
byssuses
bystander
bystander's
bystanders
bystreet
bystreets
bytalk
bytalks
byte
byte's
bytes
byth
bytime
bytownite
bytownitite
bywalk
bywalker
bywalking
byward
byway
byways
bywoner
byword
byword's
bywords
bywork
byworks
byzant
byzantian
byzantine
byzantium
byzants
hz
c
c's
c/d
c/f
c/m
cabas
cabasa
cabasset
cabassou
cabbage
cabbage's
cabbaged
cabbagehead
cabbageheaded
cabbageheadedness
cabbagelike
cabbages
cabbagetown
cabbagewood
cabbageworm
cabbaging
cabbagy
cabbala
cabbalah
cabbalahs
cabbalas
cabbalism
cabbalist
cabbalistic
cabbalistical
cabbalistically
cabbalize
cabbed
cabber
cabbie
cabbies
cabbing
cabble
cabbled
cabbler
cabbling
cabby
cabda
cabdriver
cabdriving
cabecera
cabecudo
cabecera
cabeliau
cabellerote
caber
cabernet
cabernets
cabers
cableways
cabling
cablish
cabman
cabmen
cabob
cabobs
caboceer
caboche
caboched
cabochon
cabochons
cabocle
caboclo
caboclos
cabomba
cabombas
caboodle
caboodles
cabook
caboose
cabooses
caboshed
cabossed
cabot
cabotage
cabotages
cabotin
cabotinage
cabots
cabouca
cabre
cabree
cabrerite
cabresta
cabrestas
cabresto
cabrestos
cabret
cabretta
cabrettas
cabreuva
cabrie
cabrilla
cabrillas
cabriole
cabrioles
cabriole
cackling
cackle
cackled
cackler
cacklers
cackles
cackling
cacks
cacocholia
cacochroia
cacochylia
cacochymia
cacochymic
cacochymical
cacochymy
cacocnemia
cacodaemon
cacodaemoniac
cacodaemonial
cacodaemonic
cacodemon
cacodemonia
cacodemoniac
cacodemonial
cacodemonic
cacodemonize
cacodemonomania
cacodontia
cacodorous
cacodoxian
cacodoxical
cacodoxy
cacodyl
cacodylate
cacodylic
cacodyls
cacoeconomy
cacoenthes
cacoepist
cacoepistic
cacoepy
cacoethes
cacoethic
cacogalactia
cacogastric
cacogenesis
cacogenic
cacogenics
cacogeusia
cacoglossia
cacographer
cacographic
cacographical
cacography
cacolet
cacolike
cacological
cacology
acomagician
cacomelia
cacomistle
cacomixl
cacomixle
cacomixls
cacomorphia
cacomorphosis
caconychia
caconym
caconymic
cacon
cacopathy
acopharyngia
acophonia
acophonie
acophonical
cacophonically
cacophonically
cacophonies
cacophonist
cacophonists
acaphonize
acophonous
acophonously
acacphony
acophthalmia
acoplasia
acoplastic
acoproteia
cacorhythmic
acorrhachis
acorrhinia
acosmia
acospermia
acospplanchnia
acostomia
acothansia
acothelin
cacotheline
cacothes
cacothesis
cacothy mia
cacotopia
cacotrichia
cacotrophia
cacotrophic
cacotrophy
cacotype
cacoxene
caco xenite
cacozeal
cacozealous
cacozyme
cacqueteuse
cacqueteuses
cactaceous
cactal
cacti
cactiform
cactoid
cactus
cactuses
cactuslike
cacumen
cacuminal
cacuminate
cacumination
cacuminous
cacur
cad
cad alene
cadamba
cadaster
cadasters
cadastral
cadastrally
cadastration
cadastre
cadastres
cadaver
cadaveric
cadaverin
cadaverine
cadaverize
cadaverous
cadaverously
cades
cadesse
cadet
cadetcy
cadets
cadetship
cadette
cadettes
cadew
cadge
cadged
cadger
cadgers
cadges
cadgily
cadginess
cadging
cadgy
cadi
cadie
cadilesker
cadillac
cadillacs
cadillo
cadinene
cadis
cadish
cadism
cadieuio
cadjan
cadlock
cadmean
cadmia
cadmic
cadmide
cadmiferous
cadmium
cadmiumize
cadmiums
cadmiums
cadmus
cados
cadouk
cadrans
cadre
cadres
cads
cadua
caduac
caduca
caducary
caducean
caducecaducean
caducecei
caducei
caduceus
caduciaries
caduciary
caducibranth
caducibranchiate
caducicorn
caducities
caducity
caducous
caduke
cadus
cadweed
cadwell
cady
cadying
ciaea
ciaecal
ciaecally
ciaecectomy
ciaecias
ciaeciform
ciaecilian
ciaecitis
ciaecity
ciaeocolic
ciaeostomy
ciaeotemy
ciaecum
ciaelometer
ciaelum
ciaenogenesis
ciaenogenetic
ciaenogenetically
ciaenostylic
ciaenostyly
ciaenozoic
ciaeoma
ciaeomas
ciaeremoniatorius
ciaesalpiniaceous
casaur
caeareas
caesareans
caesarian
caesarism
caesarists
caesaropapacy
caesaropapism
caesaropapist
caesaropopism
caeious
caesium
caesiums
caespitose
caespitosely
caeastus
caeastuses
caesura
caesurae
caesural
caesuras
caesuric
caf
cafard
cafardise
cafe
cafe's
cafeleh
cafenet
cafes
cafetal
cafeteria
cafeterias
cafetiere
cafetorium
caff
caffa
caffeate
caffeic
caffein
caffeina
caffeine
caffeines
caffeinic
caffeinism
caffeins
caffeism
caffeol
caffeone
caffetannic
caffetannin
caffiaceous
caffiso
caffle
caffled
caffling
caffoline
caffoy
caffre
cafh
cafila
cafi
cafo
caht
caftan
cuftan
cafts
cafuso
cag
cagayan
cagayans
cage
caged
cageful
cagefuls
cageless
cagelike
cageling
cagelings
cageman
cageot
cager
cagers
cages
cagester
cagework
cagye
cageyness
caggy
cagier
cagiest
cagily
caginess
caginiesses
caging
cagit
cagmag
cagot
cagoule
cairo
caisse
caisson
caissoned
caissons
caitif
caitiff
caitiffs
caitify
caixinha
cajan
cajang
cajaput
cajaputs
cajava
cajeput
cajeputol
cajeputole
cajeputs
cajeta
cajole
cajoled
cajolement
cajolements
cajoler
cajoleries
cajolers
cajolery
cajoles
cajoling
cajolingly
cajon
cajones
cajou
cajuela
cajun
cajuns
cajuput
cajuputene
cajuputol
cajuputs
cake
cakebox
cakebread
caked
cakehouse
cakemaker
cakemaking
caker
cakes
cakette
cakewalk
cakewalked
cakewalker
cakewalking
cakewalks
cakey
cakier
cakiest
caking
cakra
cakravartin
eaky
cal
calaba
calabar
calabash
calabashes
calabaza
calabazilla
calaber
calaboose
calabooses
calabozo
calabrasella
calabrese
calabrian
calabrians
calabur
calade
caladium
caladiums
calahan
calais
calaite
calalu
calamanco
calamancoes
calamancos
calamander
calamansi
calamar
calamariaceous
calamarian
calamaries
calamarioid
calamarmar
calaroid
calamars
calamary
calambac
calambour
calami
calamiferious
calamiferous
calamiform
calaminaris
calaminary
calamine
calamined
calamines
calamining
calamint
calamints
calamistral
calamistrate
calamistrum
calamite
calamitean
calamites
calamities
calamitoid
calamitous
calamitously
calamitousness
calamity
calamity's
calamondin
calamumi
calamus
calander
calando
calandre
calandria
calangay
calanid
calanque
calantas
calanthe
calapite
calapitte
calascione
calash
calashes
calastic
calathea
calathi
calathian
calathidia
calathidium
calathiform
calathisci
calathiscus
calathos
calaththi
calathus
calavance
calaverite
calbroben
calc
calcaemia
calcaire
calcanea
calcanenal
calcanean
calcanei
calcaneoastragalar
calcaneoastragaloid
calcaneocuboid
calcaneofibular
calcaneonaviccular
calcaneoplantar
calcaneoscapphoid
calcaneotibial
calcaneum
calcaneus
calcannea
calcannei
calcar
calcarate
calcarated
calcareoargillaceous
calcareobituminous
calcareocorneous
calcareosiliceous
calcareosulphurous
calcareous
calcareously
calcareousness
calcaria
calcariferous
calcariform
calcarine
calcarium
calcars
calcate
calcaella
calceate
calced
calcedon
calcedony
calceiform
calcemia
calceolaria
calceolate
calceolately
calces
calceus
calchas
calche
calci
calcic
calciclase
calcirole
calciolous
calcirosis
calcirosol
calcirosous
calciacic
calciification
calcified
calciifies
calciiform
calciugual
calciugue
calciuguous
calciify
calciifying
calciogenous
calciigerous
calciimeter
calcimeter
calcmine
calcmined
calcmimer
calcmimines
calcmining
calcinable
calcination
calcinator
calcinatory
calcine
calcined
calcer
calcines
calcering
calcinize
calcino
calcinosis
calciobiotite
calciocarnotite
calcioferrite
calciocene
calciocarni
calcinothite
calciocalcine
calcite
calctibscous
calciphilous
calciophilic
calciophilous
calciophobous
calciophylactic
calciophylactically
calciophyaxis
calciophyre
calcioprivic
calciopsponge
calciote
calcites
calcitestaceous
calcitic
calcitonin
calcitran
calcitrater
calcitration
calcitreation
calciun
calciuns
calciious
calciograde
calciographic
calciographic
calciograph
calciograph
calcomp
calcrete
calcsinter
calcspar
calcspars
caleche
caleches
caledonian
caledonite
calef
calefacient
calefaction
calefactive
calefactor
calefactories
calefactory
calefy
calelectric
calelectrical
calelectricity
calemboeur
calenda
calendal
calendar
calendar's
calendared
calendarer
calendarial
calendarian
calendaric
calendaring
calendarist
calendars
calendas
calender
calendered
calenderer
calendering
calenders
calendric
calendrical
calendry
calends
calendula
calendulas
calendulin
calentural
calenture
calentured
calenturing
calenturish
calenturist
calepin
calicoback
 calicoed
 calicoes
 calicos
 calicular
 caliculate
 caliculi
 caliculus
 calid
 calidity
 caliduct
 calif
 califate
 califates
 california
 californian
 californiana
 californians
 californicus
 californite
 californium
 califs
 caliga
 caligate
 caligated
 caligation
 caliginosity
 caliginous
 caliginously
 caliginousness
 caligo
 caligrapher
 caligraphy
 caligulism
 calili
 calimanco
 calimancos
 calín
 calina
 calinda
 calindas
 caline
 calinut
 caliological
 caliologist
 caliology
 calipash
 calipashes
callback
callbacks
callboy
callboys
called
caller
callers
calles
callet
callets
calli
callid
callidity
callidness
calligram
calligraph
calligrapha
calligrapher
calligraphers
calligraphic
calligraphical
calligraphically
calligraphist
calligraphy
calling
callings
calliope
calliopean
calliopes
calliophone
calliopsis
callipash
callipee
callipees
calliper
callipered
calliperer
callipering
callipers
calliphorid
calliphorine
callippic
callipygian
callipygous
callisection
callisteia
callisthenic
callisthenics
calmiest
calming
calmingly
calmly
calmness
calmnesses
calms
calmy
calodaemon
calodemon
ocalodemonial
calogram
calography
calomba
calombigas
calombo
calomel
calomels
calomorphic
calool
calor
caloreceptor
calorescence
calorescent
caloric
calorically
caloricity
calorics
caloriduct
calorie
calorie's
calories
calorifacient
calorific
calorifical
calorifically
calorification
calorifics
calorifier
calorify
calorigenic
calorimeter
calorimeters
calorimetric
calorimetrical
calorimetrically
calorimetry
calorimotor
calycanthey
calycanthin
calycanthine
calycanthus
calycate
calyceal
calyceraceous
calyces
calyceiferous
calycifloral
calyciflorate
calyciflorous
calyciform
calyccinal
calyccine
calycle
calyccled
calyccles
calycli
calyccoid
calycoideal
calycoideous
calycohoan
calycozoan
calycozoic
calycozoon
calyccular
calyculate
calyculated
calyccule
calyculi
calyculus
calymma
calyon
calypyphyomy
calypsist
calypso
kalypsoes
calypsonian
calypsos
calypter
calypters
calypсобlastic
calyptra
calyptras
calypstrate
calyptriform
calyptrimorphous
calyptro
camogie
camois
camomile
camomiles
camooch
camoodi
camoodie
camorra
camorras
camorrism
camorrista
camorrsti
camote
camoudie
camouflage
camouflageable
camouflaged
camouflager
camouflagers
camouflages
camouflagic
camouflaging
camoulet
camoufleur
camoufleurs
camp
campagi
campagna
campagne
campagnol
campagnols
campagus
campaign
campaigned
campaigner
campaigners
campaigning
campaigns
campal
campana
campane
campanella
camanero
campania
campaniform
campanile
campaniles
campanili
campanilliform
campanilla
campanini
campanist
campanistic
campanologer
campanological
campanologically
campanologist
campanologists
campanology
campanula
campanulaceous
campanular
campanularian
campanulate
campanulated
campanulous
campbell
campbellism
campbellisms
campbellite
campbellites
campcraft
campeche
camped
campelement
campephagine
camper
campers
campership
campesino
campesinos
campestral
campestrian
campfight
campfire
campfires
campground
campgrounds
camphane
camphanic
camphanone
camphanyl
camphene
camphenes
camphine
camphines
camphire
camphires
campho
camphocarboxylic
camphoid
camphol
campholic
campholide
camphols
campholytic
camphor
camphoraceous
camphorate
camphorated
camphorates
camphorating
camphoric
camphorize
camphorone
camphoronic
camphoroyl
camphorphorone
camphors
camphorweed
camphorwood
camphory
camphoryl
camphylene
campi
campier
campiest
campilan
campily
campimeter
campimetical
campimetry
campiness
camping
campings
campion
campions
campit
cample
campman
campmaster
campo
campodean
campodeid
cancerweed
cancerwort
canch
cancha
canchalagwa
canchas
canchito
cancion
cacionero
caciones
cancid
cancriform
cancrine
cancrinite
cancrisocial
cancrivoros
cancritos

cancroid
cancroids
cancrophagous
cancrum
cancrums
cand

candareen
candela
candelabra
candelabras
candelabrum
candelabrum's
candelas
candelilla
candency

candent
candescence
candescent
candescently

candid

candida

candidacies

candidacy

candidas

candidate

candidate's

candidated

candidates

candidateship

candidating

candidature
canids
canikin
canikins
canille
caninal
canine
canines
caning
caniniform
caninities
caninity
caninus
canion
canioned
canions
canistel
canister
canisters
canities
canjac
cank
canker
cankerberry
cankerbird
cankereat
cankered
cankeredly
cankeredness
cankerflower
cankerfret
cankerfret
canker
cankerous
cankerroot
cankers
cankerweed
cankerworm
cankerworms
cankerwort
cankery
canli
canmaker
canmaking
canman
cann
canna
cannabic
cannabidiol
cannabin
cannibally
cannibals
cannie
 cannier
 canniest
 kannikin
 kanniks
 kannily
 kanniness
 kanning
 kannings
 kannister
 kannister's
 kannisters
 cannoli
 cannon
 cannon's
 cannonade
 cannonaded
 cannonades
 cannonading
 cannonarchy
 cannonball
 cannonballed
 cannonballing
 cannonballs
 cannoned
 cannoneer
 cannonereing
 cannoners
 cannonier
 cannoning
 cannonism
 cannonproof
 cannonries
 cannonry
 cannons
 cannophori
 cannot
 cannula
 cannulae
 cannular
 cannulas
 cannulate
 cannulated
 cannulating
 cannulation
 canny
canonizing
canonlike
canonries
canonry
cans
 canonship
canooodle
canooolded
canoolder
canooodles
canooding
canopic
canopid
canopied
canopies
canopus
canopy
canopying
canorous
canously
canousness
canos
canotier
canreply
canroy
canroyer
cans
cansful
canso
cansos
canst
canstick
cant
cantab
cantabank
cantabile
cantabrigian
cantador
cantala
cantoras
cantalever
cantalite
cantaliver
cantaloup
cantaloupe
cantaloupes
cantando
cantankerous
cantankerously
cantankerousness
cantar
cantara
cantare
cantaro
cantata
cantatas
cantate
cantation
cantative
cantator
cantatory
cantatrice
cantatrices
cantatrici
cantboard
cantdog
cantdogs
canted
canteen
canteens
cantefable
cantel
canter
canterburian
canterburies
canterbury
cantered
canterelle
canterer
cantering
canters
canthal
canthari
cantharic
cantharidal
cantharidate
cantharidated
cantharidating
cantharidean
cantharides
cantharidian
cantharidin
cantharidism
cantharidize
cantharidized
cantharidizing
cantharis
cantharophilous
cantharus
canthathari
canthectomy
canthi
canthitis
cantholysis
canthoplasty
canthorrhaphy
canthotomy
canthus
canthuthi
cantic
canticle
canticles
cantico
cantiga
cantil
cantilated
cantilating
cantilena
cantilene
cantilenes
cantilever
cantilevered
cantilevering
cantilevers
cantillate
cantillated
cantillating
cantillation
cantily
cantina
cantinas
cantiness
canting
cantingly
cantingness
cantinier
cantino
cantion
cantish
cantile
cantiles
cantlet
cantline
cantling
capableness
capabler
capablest
capably
capacify
capacious
capaciously
capaciousness
capacitance
capacitances
capacitate
capacitated
capacitates
capacitating
capacitation
capacitations
capacitative
capacitatively
capacitator
capacities
capacitive
capacitively
capacitor
capacitor's
capacitors
capacity
capanna
capanne
caparison
caparisoned
caparisoning
caparisons
capatices
capataz
capax
capcase
cape
capeador
capeadores
capeadors
caped
capel
capelan
capelans
capelet
capelets
capelin
capeline
capelins
capella
capellane
capellet
capelline
capelocracy
caper
caperbush
capercaillie
capercailye
capercaulzie
capercally
capercut
caperdewsie
capered
caperer
caperers
capering
caperingly
caperneite
capernoited
capernoitie
capernoity
capermutie
capers
capersome
capersomeness
caperwort
capes
capeskin
capeskins
capetian
capetown
capette
capeweeds
capewise
capework
capeworks
capful
capfuls
caph
caphar
capharnaism
caphite
caphs
capias
capiases
capiatur
capibara
capicha
capilaceous
capillaceous
capillaire
capillament
capillarectasia
capillaries
capillarily
capillarimeter
capillariness
capillariomotor
capillarities
capillaritis
capillarity
capillary
capillation
capillatus
capilli
capilliculture
capilliform
capillitia
capillitial
capillitium
capillose
capillus
capilotade
caping
capistrate
capita
capital
capitaldom
capitaled
capitaling
capitalisable
capitalise
capitalised
capitaliser
capitalising
capitalism
capitalist
capitalist's
capitalistic
capitalistically
capitalists
capitalizable
capitalization
capitalizations
capitulator
capitulatory
capituliform
capitulum
capiturlary
capivi
capkin
caplan
capless
caplet
caplets
caplin
capling
caplins
caplock
capmaker
capmakers
capmaking
capman
capmint
capnomancy
capnomor
capo
capoc
capocchia
capoch
capomo
capon
caponata
caponatas
capone
caponette
caponier
caponiere
caponiers
caponisation
caponise
caponised
caponiser
caponising
caponization
caponize
caponized
caponizer
caponizes
caponizing
caponniere
capons
capricious
capriciously
capriciousness
capricorn
capricorns
caprid
capristate
capristation
capristator
capristig
capristigs
capristoil
capristole
capristotic
capristoticness
capristoticus
capristoticusness
capristostic
capristostics
capristotic
capristotics
capristotic

capricorn
capricorns
capristate
capristation
capristator
capristig
capristigs
capristoil
capristole
capristotic
capristoticness
capristoticus
capristoticusness
capristoticus

capristotic
capristoticics
capristotic

capsulotome
capsulotomy
capsumin
captacula
captaculum
captain
captaincies
captaincy
captained
captainness
captaining
captainly
captainries
captainry
captains
captainship
captainships
captan
captance
captandum
captans
captate
captation
caption
caption's
captioned
captioning
captionless
captions
captious
captiously
captiousness
captivance
captivate
captivated
captivately
captivates
captivating
captivatingly
captivation
captivative
captivator
captivators
captivatrix
captive
captive's
captived
captives
caraipi
carajo
carajura
caramba
carambola
carambole
caramboled
caramboling
caramel
caramelan
caramelen
caramelin
caramelisation
caramelise
caramelised
caramelising
caramelization
caramelize
caramelized
caramelizes
caramelizing
caramels
caramoussal
carancha
carancho
caranda
caranday
carane
carangid
carangids
carangin
carangoid
caranna
caranx
carap
carapa
carapace
carapaced
carapaces
carapacial
carapacic
carapato
carapax
carapaxes
carapine
carapo
carassow
carassows
carbaryls
carbasus
carbazic
carbazide
carbazin
carbazine
carbazole
carbazyclic
carbeen
carbene
carberry
carbethoxy
carbethoxyl
carblide
carblides
carbinide
carbin
carbine
carbineer
carbineers
carbines
carbinol
carbinols
carbinyl
carbo
carboazotine
carbocer
carbocinhomeronic
carbocyclic
carboiimidide
carbodynamite
carbgelatin
carbohemoglobin
carbohydrase
carbohydrate
carbohydrates
carbohydraturia
carbohydrazide
carbohydride
carbohydrogen
carboolate
carbolated
carbolating
carbolfsuin
carbolic
carbolics
carboline
carbolineate
carbolise
carbolised
carbolising
carbolize
carbolized
carbolizes
carbolizing
carboluria
carbolxylol
carbomethene
carbomethoxy
carbomethoxyl
carbomycin
carbon
carbon's
carbona
carbonaceous
carbonade
carbonado
carbonadoed
carbonadoes
carbonadoing
carbonados
carbonari
carbonatation
carbonate
carbonated
carbonates
carbonating
carbonation
carbonatization
carbonator
carbonators
carbondale
carbone
carboned
carbonemia
carbonero
carbones
carbonic
carbonide
carboniferous
carbonification
carbonify
carbonigenous
carbonimeter
carbonimide
carbonisable
carbonisation
carbonise
carbonised
carboniser
carbonising
carbonite
carbonitride
carbonium
carbonizable
carbonization
carbonize
carbonized
carbonizer
carbonizers
carbonizes
carbonizing
carbonless
carbonometer
carbonometry
carbonous
carbons
carbonuria
carbonyl
carbonylate
carbonylated
carbonylating
carbonylation
carbonylene
carbonylic
carbons
carboraphilous
carboraphora
carboras
carborundum
carbosilicate
carboisotyle
carboxide
carboxy
carboxyhemoglobin
carboxyl
carboxylase
carboxylate
carboxylated
carboxylating
carboxylation
carboxylic
carboxyls
carboxypeptidase
carboy
carboyed
carboys
carbro
carbromal
carbuilder
carbuncle
carbuncled
carbuncles
carbuncular
carbunculation
carbungi
carbaran
carburant
carburate
carburated
carburating
carburation
carburator
carburc
carburct

carburetant
carbureted
carbureter
carburetest
carbureting
carburetion
carburetor
carburetors
carburets
carburetted
carburetter
carburetting

carburer
carbureri
carbureris

carburisation
carburise
carburised
carburiser
carburising
carburization
carburize
carburized
carburizer

carburizes
carburizing

carburometer
carby

carbyl
carcinomatoid
carcinomatosis
carcinomatous
carcinomorphic
carcinophage
carcinophobia
carcinopolypus
carcinosarcoma
carcinosarcomas
carcinosarcomata
carcinosis
carcinus
carcoons
card
cardaisin
cardamine
cardamom
cardamoms
cardamon
cardamons
cardamum
cardamums
cardanol
cardboard
cardcase
cardcases
cardcastle
cardecu
carded
cardel
carder
carders
cardholder
cardholders
cardhouse
cardia
cardiac
cardiacal
cardiacean
cardiacle
cardiacs
cardiae
cardiagra
cardiagram
cardiagraph
cardiography
cardial
cardialgia
cardialgic
cardalg
cardiameter
cardiamorphia
cardianesthesia
cardianeuria
cardiact
cardiaplegia
cardiactia
cardias
cardiasthenia
cardiasthma
cardiataxia
cardiatomy
cardiatrophia
cardiauxe
cardicentesis
cardiectasis
cardiectomize
cardiectomy
cardiocosis
cardiemphraxia
cardiform
cardigan
cardigans
cardin
cardinal
cardinalate
cardinalated
cardinalates
cardinalfish
cardinalfishes
cardinalic
cardinalism
cardinalist
cardinalitial
cardinalitian
cardinalities
cardinality
cardinality's
cardinally
cardinals
cardinalship
cardines
carding
cardings
cardioaccelerator
cardioarterial
cardioblast
cardiocarpum
cardiocele
cardiocentesis
cardiocirrhosis
cardioclasis
cardioclasia
cardiocline
cardiodyne
cardiodynamic

cardiodynamics
cardiodynea

cardiographic
cardiograph
cardiographer
cardiographies
cardiographs
cardiography

cardiogenesis
cardiogenic
cardiologist
cardiologists
cardiology

cardiokinetic
cardiolith

cardiologic
cardiological
cardiologies
cardiologist

cardiologist

cardiology

cardiolytic
cardiomyalacia

cardiomegaly
cardiomegalia

cardiopathy
cardiomatosis

cardiomyolysis
cardiomyoliposis
cardiomyomalacia

cardiomyopathy
cardioncous

cardionecrosis
cardionephric
cardioneural
cardioneurosis
cardinosus
cardioparplasis
cardiopath
cardiopathic
cardiopathy
cardiopericarditis
cardiophobe
cardiophobia
cardiophrenia
cardioplasty
cardioplegia
cardiopneumatic
cardiopneumograph
cardioplasia
cardiopulmonary
cardiopuncture
cardiopyloric
cardiorenal
cardioperiscope
cardiorespiratory
cardiorrhaphy
cardiorrhema
cardioschisis
cardiosclerosis
cardioscope
cardiospasms
cardiosphygmogram
cardiosphygmograph
cardiosymphysis
cardiotherapies
cardiotherapy
cardiotomy
cardiotoxic
cardiopath
cardiopathy
cardipaludism
cardipericarditis
cardisophistical
cardita
carditic
carditis
carditises
caridoid
caried
carien
caries
cariform
carillon
carillonneur
carillonné
carillonné
ncarillonneurs
carillonnings
carillons
carina
carinæ
carinal
carinaria
carinas
carinate
carinated
carination
caring
cariniform
carinula
carinulate
carinule
carioca
cariocas
cariogenic
cariole
carioles
carioling
cariosity
carious
cariousness
caripeta
carisoprodol
caritas
caritative
carites
caritive
carity
cark
carked
ckarking
carking
carkingly
carkled
carks
carl
carminite
carminophilous
carmoisin
carmot
carn
carnac
carnage
carnaged
carnages
carnal
carnalism
carnalite
carnalities
carnality
carnalize
carnalized
carnalizing
carnallite
carnally
carnalness
carnaptious
carnary
carnassial
carnate
carnation
carnationed
carnationist
carnations
carnauba
carnaubas
carnaubic
carnaubyl
carne
carneau
carnegie
carnel
carnelian
carnelians
carneol
carneole
carneous
carnet
carnets
carney
carneyed
carneys
carnic
carnie
caroche
caroches
caroigne
carol

carol's
carole
carolean
caroled
caroler
carolers
caroli
carolin
carolina
carolina's
carolinas
caroline
carolines
caroling
carolingian
carolinian
carolinians
carolitic
carolled
caroller
carollers
carolling
carols
carolus
caroluses
carolyn
carom
carombolette
caromed
caramel
caroming
caroms
carone
caronic
caroome
caroon
carosella
carosse
carot
caroteel
carotene
carotenes
carotenoid
carotic
carotid
carotidal
carotidean
carotids
carotin
carotinaemia
carotinemia
carotinoid
carotins
carotol
carotte
carouba
caroubier
carousal
carousals
carouse
caroused
carousel
carousels
carouser
carousers
carouses
carousing
carousingly
carp
carpaine
carpal
carpale
carpalia
carpals
carpe
carped
carpel
carpellary
carpellate
carpellum
carpets
carpent
carpenter
carpenter's
carpentered
carpentering
carpenters
carpentership
carpenterworm
carpentry
carper
carpers
carpogone
carpogonia
carpogonial
carpogonium
carpolite
carpolith
carpological
carpologically
carpologist
carpology
carponmania
carpometacarpal
carpometacarpi
carpometacarpus
carpompi
carpool
carpoools
carpopedal
carophobic
carphalangeal
carphore
carpophyl
carpophyll
carphophyte
carpopodite
carpopeditic
carpoptosis
carport
carports
carpos
carposperm
carposporangia
carposporangial
carposporangium
carpospore
carposporic
carposporous
carpostome
carps
carpsucker
carpus
carpuapi
carquaise
carr
carrack
carracks
carrageen
carrageenan
 carrageenin
carragheen
 carragheenin
 carrat
 carraway
 caraways
 carreau
 carree
 carrefour
 carrel
 carrell
 carrells
 carrels
 carreta
 carretela
 carretera
 carreton
 carretta
 carri
 carriable
 carriage
 carriage's
 carriageable
 carriageful
 carriageless
 carriages
 carriagesmith
 carriageway
 carrick
 carried
 carrier
 carriers
 carries
 carrigeen
 carriole
 carrioles
 carrion
 carrions
 carritch
 carritches
 carriwitchet
 carrizo
 carrocci
 carroccio
 carroch
 carroches
 carroll
cartilaginoid
cartilaginous
carting
cartisane
cartload
cartloads
cartmaker
cartmaking
cartman
cartobibliography
cartogram
cartograph
cartographer
cartographers
cartographic
cartographical
cartographically
cartographies
cartography
cartomancies
cartomancy
carton
carton's
cartoned
cartoner
cartonful
cartoning
cartonnage
cartonnier
cartonniers
cartons
cartoon
cartoon's
cartooned
cartooning
cartoonist
cartoonists
cartoons
cartop
cartopper
cartouch
cartouche
cartouches
cartridge
cartridge's
cartridges
carts
cartsale
carvomenthene
carvone
carvy
carvyl
carwash
carwashes
carwitchet
caryatic
caryatid
caryatidal
caryatidean
caryatides
caryatidic
caryatids
caryl
caryocaraceous
caryophyllaceous
caryophyllene
caryophyleous
caryophyllin
caryophyllous
caryopilite
caryopses
caryopsides
caryopsis
caryotin
caryotins
carzey
casa
casaba
casabas
casabe
casablanca
casal
casalty
casanova
casanovas
casaque
casaques
casaquin
casas
case
casaun
casava
casavas
case
casavi
casbah
casehardening
casehardens
caseic
casein
caseinate
caseine
caseinogen
caseins
casekeeper
caseless
caselessly
caseload
caseloads
casely
casemaker
casemaking
casemate
casemated
casemates
casement
casement's
casemented
casements
caseolysis
caseose
caseoses
caseous
caser
caserio
caserios
casern
caserne
casernes
caserns
cases
casette
casettes
caseum
caseweed
casewood
casework
caseworker
caseworkers
caseworks
caseworm
caseworms
cash
casha
cashable
cashableness
cashaw
cashaws
cashbook
cashbooks
cashbox
cashboxes
cashboy
cashcuttee
cashdrawer
cashed
casheen
cashel
casher
cashers
cashes
cashew
cashews
cashgirl
cashier
cashier's
cashiered
cashierer
cashiering
cashierment
cashiers
cashing
cashkeeper
cashless
cashment
cashmere
cashmeres
cashmerette
cashoo
cashoos
cashou
casimere
casimeres
casimire
casimires
casina
casinet
casing
casings
casino
casinos
casiri
castigate
castigated
castigates
castigating
castigation
castigations
castigative
castigator
castigators
castigatory
castile
castilian
castillo
casting
castings
castle
castled
castelike
castelry
castles
castlet
castleward
castlewards
castlewise
castling
castock
castoff
castoffs
castor
castoreum
castorial
castorin
castorite
castorized
castors
castory
ciastra
ciastral
ciastralmetation
ciastrate
ciastrated
ciastrate
ciastrates
ciastrati
ciastrating
ciastration
ciastrations
castrato
castrator
castrators
castratory
castrenzial
castrensian
castro
castrum
casts
castuli
casual
casualism
casualist
casuality
casually
casualness
casuals
casualties
casuality
casualty's
casuarina
casuarinaceous
casuary
casuist
casuistess
casuistic
casuistical
casuistically
casuistries
casuistry
casuists
casula
casule
casus
casusistry
caswellite
cat
cat's
catabaptist
catabases
catabasion
catabasis
catabatic
catabibazon
catabiotic
catabolic
catabolically
catabolin
catabolism
catabolite
catabolize
catabolized
catabolizing
catacaustic
catachreses
catachresis
catachresti
catachrestic
catachrestical
catachrestically
catachthonian
catachthonic
catalasism
cataclasm
cataclasmic
cataclastic
cataclinal
cataclysm
cataclysmal
cataclysmatic
cataclysmatist
cataclysmic
cataclysmically
cataclysmist
cataclysms
catacomb
catacombic
catacombs
catacorner
catacorolla
catacoustics
catacromyodian
catacrotic
catacrotism
catacumba
catacumbral
catacrotic
catacrotism
catadioptric
catadioptrical
catadioptrics
catadrome
catatromous
catadupe
catafalco
catafalque
catafalques
catagenesis
catagenetic
catagmatic
catagories
cataian
catakinesis
catakinecic
catakinetomer
catakinomic
catalan
catalase
catalases
catalatic
catalecta
catalectic
catalecticant
cataleicts
catalepsies
catalepsis
catalepsy
cataleptic
cataleptically
cataleptics
cataleptiform
cataleptize
cataleptoid
catalexes
catalexis
catalin
catalina
catalineta
catalinite
cattalactic
cattallactically
cattallactics
cattallum
catalo
cataloes
catalog
cataloged
cataloger
catalogers
catalogia
catalogic
catalogical
cataloging
catalogist
catenulate
catepuce
cater
cateran
caterans
caterbrawl
catercap
catercorner
catercornered
catercornerways
catercousin
catered
caterer
caterers
caterership
cateress
cateresses
catering
cateringly
caterpillar
caterpillar's
caterpillared
caterpillarlike
caterpillars
caters
caterva
caterwaul
caterwaulled
caterwauler
caterwauling
caterwauls
catery
cates
catesbeiana
cateye
catface
catfaced
catfaces
catfacing
catfall
catfalls
catfight
catfish
catfishes
catfoot
catfooted
catgut
catguts
cath
cathar
catharan
catharine
catharist
catharization
catharize
catharized
catharizing
catharses
catharsis
cathartic
cathartical
cathartically
catharticalness
cathartics
cathartin
cathead
catheads
cathect
cathected
cathectic
cathecting
cathection
cathects
cathedra
cathedrae
cathedral
cathedral's
cathedraled
cathedralesque
cathedratic
cathedrallike
cathedrals
cathedralwise
cathedras
cathedrated
cathedratic
cathedratica
cathedratical
cathedratically
cathedraticum
cathepsin
catheptic
catheretic
catherine
cathern
catheter
catheterisation
catheterise
catheterised
catheterising
catheterism
catheterization
catheterize
catheterized
catheterizes
catheterizing
catheters
catheti
cathetometer
cathetometric
cathetus
cathetusti
cathexes
cathexion
cathexis
cathidine
cathin
cathine
cathinine
cathion
cathisma
cathismata
cathodal
cathode
cathode's
cathodegraph
cathodes
cathodic
cathodical
cathodically
cathodofluorescence
cathodograph
cathodography
cathodoluminescence
cathodoluminescent
cathograph
cathography
cathole
catholic
catholic's
catholical
catholically
catholicalness
catholicate
caudillos
caudle
caudles
caudocephalad
caudodorsal
caudofemoral
caudolateral
caudotibial
caudotibialis
ciauf
caulf
caught
cauk
cauked
cauking
caul
cauld
cauldrife
cauldrifeness
cauldron
cauldrons
caulds
caulerpaceous
cauls
caulescent
cauli
caulicle
caulicles
caulicole
caulicolous
caulicule
cauliculi
cauliculus
cauliferous
cauliflorous
cauliflory
cauliflower
cauliflowers
cauliform
cauligenous
caulinar
caulinary
cauline
caulis
caulivorous
caulk
caulked
caulker
cavillingly
cavillingness
cavilous
cavils
cavin
caving
cavings
cavish
cavitary
cavitate
cavitated
cavitates
cavitating
cavitation
cavitations
cavitero
cavited
cavities
cavity
cavity's
caviya
cavort
cavorted
cavorter
cavorters
cavorting
cavorts
cavu
cavum
cavus
cavy
cavyyard
caw
cawed
cawing
cawk
cawker
cawkly
cawl
cawney
cawnie
cawny
cawquaw
caws
caxiri
caxiri

caxton
cay
cebids  
cebil  
cebine  
ceboid  
ceboids  
cebollite  
cebur  
cebus  
ceca  
cecal  
cecally  
cecca  
cecchine  
cecidiologist  
cecidiology  
cecadium  
cecidogenous  
cecidologist  
cecidence  
cecidity  
cecidomyian  
cecidomyiid  
cecidomyiidous  
cecil  
ceciliate  
cecils  
cecitis  
cecity  
cecograph  
cecomorphic  
cecopexy  
cecostomy  
cecotomy  
cecortopia  
cecum  
cecums  
cecutiency  
cedar  
cedarbird  
cedared  
cedarn  
cedars  
cedarware  
cedarwood  
cedary  
cede  
ceded  
cedens  
cedent
celerities
celerity
celery
celesta
celestas
celeste
celestes
celestial
celestiality
celestialize
celestialized
celestially
celestialness
celestify
celestina
celestine
celestite
celestitude
celeusma
celiac
ceiadelphus
celiagra
celialgia
celibacies
celibacy
celibataire
celibatarian
celibate
celibates
celibatic
celibatist
celibatory
celidographer
celidography
ceiectasia
ceiectomy
celiemia
celiitis
celiocele
celiocentesis
celiocolpotomy
celiocyesis
celiodynia
celioelytrotomy
celiocolpotomy
celiocystotomy
celiogastroscopy
celiohysterotomy
celiohysterotomy
ceiolymph
cellifugal
celling
cellipetal
cellist
cellist's
cellists
cellmate
cellmates
cello
cellobiose
cellocut
celloid
cellodin
celloist
cellophane
cellos
cellose
cells
cellular
cellularity
cellularly
cellulase
cellulate
cellulated
cellulating
cellulation
cellule
cellules
cellulicidal
celluliferous
cellulifugal
cellulifugally
cellulin
cellulipetal
cellulipetally
cellulitis
cellulocutaneous
cellulofibrous
celluloid
celluloided
cellulolytic
cellulose
cellulosed
celluloses
cellulosic
cellulosing
cellulosities
cellulosity
cellulotoxic
cellulous
celom
celomata
celoms
celoscope
celosia
celosias
celotomies
celotomy
celsian
celsitude
celsius
celt
celtic
celticist
celtiform
celtium
celts
celtuce
celure
cembali
cembalist
cembalo
cembalon
cembalos
cement
cementa
cemental
cementation
cementatory
cemented
cementer
cementers
cementification
cementing
cementite
cementitious
cementless
cementlike
cementmaker
cementmaking
cementoblast
cementoma
cements
cementum
cementwork
cemetaries
cemetary
cemeterial
cemeteries
cemetery
cemetery's
cen
cenacle
cenacles
cenaculum
cenantheous
cenanthy
cenation
cenatory
cenarro
cenarros
cendre
cene
cenesthesia
cenesthesia
cenesthetic
cenizo
cenobe
cenobian
cenobies
cenobite
cenobites
cenobitic
cenobitical
cenobitically
cenobitism
cenobium
cenoby
cenogamy
cenogenesis
cenogenetic
cenogenetically
cenogonous
cenosite
cenosity
cenospecies
cenospecific
cenospecifically
cenotaph
cenotaphic
cenotaphies
cenotaphs
cenotaphy
cenote
cenotes
cenozoic
cenozoology
cense
censed
censer
censerless
censers
censes
censing
censitaire
censive
censor
censorable
censorate
censored
censorial
censorian
censoring
censorious
censoriously
censoriousness
censors
censorship
censual
censurability
censurable
censurableness
censurably
censure
censured
censureless
censurer
censurers
censure
censureships
censuring
census
census's
censused
censuses
censusing
cent
centage
centai
cental
centals
centare
centimo
centimolar
centimos
centinel
centinody
centinormal
centipedal
centipede
centipede's
centipedes
centiplume
centipoise
centistere
centistoke
cennter
centners
cento
centon
centones
centonical
centonism
centonization
centos
centra
centrad
central
centrale
centraler
centrales
centralest
centralia
centralisation
centralise
centralised
centraliser
centralising
centralism
centralist
centralistic
centralists
centralities
centrality
centralization
centralize
centralized
centralizer
centralizers
centralizes
centriole
centrifugal
centrifugalism
centrifugally
centrifugence
centrifugency
centriscid
centrisciform
centriscoid
centrism
centrisms
centrist
centrists
centro
centroacinar
centrobaric
centrobarical
centroclinal
centrode
centrodesmose
centrodesmus
centrodorsal
centrodorsally
centroid
centroidal
centroids
centrolecithal
centrolepidaceous
centrolepinead
centrolepineal
centromere
centromeric
centronote
centronucleus
centroplasm
centrosome
centrosomic
centrosphere
centrosymmetric
centrosymmetrical
centrosymmetry
centrum
centrums
centrutra
centry
cents
centum
centums
centumvir
centumviral
centumvirate
centuple
centupled
centuples
centuplicate
centuplicating
centuplication
centupling
centuply
centre
centuria
centurial
centuriate
centuriation
centuriator
centuried
centuries
centurion
centurions
centurist
century
century's
ceonocyte
ceorl
ceorlish
ceorls
cep
cepa
cepaceous
cepe
cepes
cephadia
cephaeline
cephala
cephalad
cephalagra
cephalalgia
cephalalgic
cephalalgy
cephalanthium
cephalanthous
cephalaspid
cephalate
cephaldemae
cephalemia
cephaletron
cephalexin
cephalhematoma
cephalhydrocele
cephalic
cephalically
cephalin
cephaline
cephalins
cephalism
cephalitis
cephalization
cephaloauricular
cephalob
cephalobranchiate
cephalocathartic
cephalocaudal
cephalocele
cephalocentesis
cephalocerecal
cephalochord
cephalochordal
cephalochordate
cephaloclasia
cephaloclast
cephalocone
cephaloconic
cephalocyst
cephalodia
cephalodiscid
cephalodium
cephalodymia
cephalodymus
cephalodynia
cephalofacial
cephalogenesis
cephalogram
cephalograph
cephalohumeral
cephalohumeralis
cephaloid
cephalology
cephalom
cephalomancy
cephalomant
cephalomelus
cephalomenia
cephalomeningitis
cephalomere
cephalometer
cephalometric
cephalometry
cephalomotor
cephalomyitis
cephalon
cephalonasal
cephalopagus
cephalopathy
cephalopharyngeal
cephalophine
cephalophorous
cephalophyma
cephaloplegia
cephaloplegic
cephalopod
cephalopoda
cephalopodan
cephalopodic
cephalopodous
cephalorachidian
cephalorhachidian
cephaloridine
cephalosome
cephalospinal
cephalosporin
cephalostyle
cephalotaceous
cephalotheca
cephalothecal
cephalothoraces
cephalothoracic
cephalothoracopagus
cephalothorax
cephalothoraxes
cephalotome
cephalotomy
cephalotractor
cephalotribe
cephalotripsy
cephalotrocha
cephalous
cepheid
cepheids
cephen
cepheus
cepheid
cepous
ceps
cepter
ceptor
cequi
cera
ceraceous
cerago
ceral
ceramal
ceramals
cerambycid
ceramiaceous
ceramic
ceramicist
ceramicists
ceramicite
ceramics
ceramidium
ceramist
ceramists
cerarium
ceramographic
ceramography
cerargyrite
ceras
cerasein
cerasin
cerastes
cerat
cerata
cerate
ceratectomy
cerated
cerates
ceratiasis
ceratiid
ceratin
ceratinous
ceratins
ceratioid
ceration
ceratite
ceratitic
ceratitoid
ceratium
ceratoblast
ceratobranchial
ceratocricoid
ceratocystis
ceratodus
ceratoduses
ceratofibrous
ceratoglossal
ceratoglossus
ceratohyal
ceratohyoid
ceratoid
ceratomandibular
ceratomania
ceratophyllaceous
ceratophyte
ceratopsian
ceratopsid
ceratopteridaceous
ceratorhine
ceratosaurus
ceratospongian
ceratotheca
ceratothecae
ceratothecal
ceraunia
ceraunics
ceraunite
ceraunogram
ceraunograph
ceraunomancy
ceraunophone
ceraunoscope
ceraunoscopy
cerberean
cerberus
cercal
cercaria
cercariae
cercarial
cercarian
cercarias
cercariform
cercelee
cerci
cercis
cercises
cercle
cercomonad
cercopid
cercopithecid
cercopithecoid
cercopithecus
cercopod
cercus
cere
cereal
cereal's
cerealian
cerealin
cerealism
cerealist
cerealose
cereals
cerebbella
cerebella
cerebellar
cerebellifugal
cerebellipetal
cerebellitis
cerebellocortex
cerebellopontile
cerebellopontine
cerebellorubral
cerebellospinal
cerebellum
cerebellums
cerebra
cerebral
cerebralgia
cerebralism
cerebralist
cerebralization
cerebralize
cerebrally
cerebrals
cerebrasthenia
cerebrasthenic
cerebrate
cerebrated
cerebrates
cerebrating
cerebration
cerebrational
cerebrations
cerebri
cerebric
cerebricity
cerebriform

cerebriformly

cerebrifugal

cerebrin

cerebriptal

cerebritis

cerebrize

cerebrocardiac

cerebrogalactose

cerebroganglion

cerebroganglionic

cerebroid

cerebrology

cerebroma

cerebromalacia

cerebromedullary

cerebromeningeal

cerebromeningitis

cerebrometer

cerebron

cerebronic

cerebroparietal

cerebropathy

cerebropedal

cerebrophysiology

cerebropontile

cerebropsychosis

cerebrorachidian

cerebrosclerosis

cerebroscope

cerebroscopy

cerebrose

cerebrosensorial

cerebroside

cerebrosis

cerebrospinal

cerebrospinant

cerebrosuria

cerebrotomy

cerebrotonia

cerebrotonic

cerebrovascular

cerebrovisceral

cerebrum

cerebrums

cerecloth

cerecloths

cered
ceruleite
ceruleolactite
ceruleous
ceruleus
cerulescent
ceruleum
cerulific
cerulignol
cerulignone
ceruloplasmin
cerumen
cerumens
ceruminal
ceruminiferous
ceruminous
ceruminiparous
ceruse
ceruses
cerusite
cerusites
cerussite
cervalet
cervantes
cervantic
cervantite
cervelas
cervelases
cervelat
cervelats
cerveliere
cervelliere
cervical
cervicaprine
cervicectomy
cervices
cervicocardiac
cervicide
cervicimplex
cervicispinal
cervicis
cervicoauricular
cervicoaxillary
cervicobasilar
cervicobrachial
cervicobregmatic
cervicobuccal
cervicodorsal
cervicodynia
cervicofacial
cervicohumeral
cervicolabial
cervicolingual
cervicolumbar
cervicomuscular
cerviconasal
cervicorhinal

cervicolumbar
cervicorhinal
cervicovesical
cervid

cervine
cervisia
cervisia
cervix
cervixes
cervoid
cervuline
ceryl
cesar
cesare

cesarean
cesareans
cesarevitch
cesarian
cesarians
cesarolite
cesious
cesium
cesiums
cespititious
cespititious
cespitose
cespitosely
cespitulose
cess

cessant
cessantly
cessation
cessation's
cessations
cessative
cessavit
cessed
cesser
cesses
cessible
cete
cetene
ceteosaur
cetera
ceterach
cetes
ceti
cetic
ceticide
cetin
cetiosaurian
cetiosaurus
cetological
cetologies
cetologist
cetology
cetomorphic
cetonian
cetorhinid
cetorhinoid
cetotolite
cetraric
cetrarin
cetus
cetyl
cetylene
cetylic
cevadilla
cevadilline
cevadine
cevian
ceviche
ceviches
cevine
cevitamic
ceylanite
ceylon
ceylonese
ceylonite
ceyssatite
cf
cfd
cfh
cfi
cfm
cfs
cg
cgm
chaffless
chafflike
chaffman
chaffron
chaffs
chaffseed
chaffwax
chaffweed
chaffy
chafing
chaft
chafted
chagal
chagan
chagigah
chagoma
chagrin
chagrined
chagrining
chagrinned
chagrinning
chagrins
chaguar
chagul
chahar
chahars
chai
chain
chainage
chainbearer
chainbreak
chaine
chained
chainer
chaines
chainette
chaining
chainless
chainlet
chainlike
chainmaker
chainmaking
chainman
chainmen
chainomatic
chainon
chainplate
chains
chainsman
chainsmen
chainsmith
chainsstitch
chainwale
chainwork
chair
chairborne
chaired
chairer
chairing
chairladies
chairlady
chairless
chairlift
chairmaker
chairmaking
chairman
chairmaned
chairmaning
chairmanned
chairmanning
chairmans
chairmanship
chairmanships
chairmen
chairmender
chairmending
chairperson
chairperson's
chairpersons
chairs
chairwarmer
chairway
chairwoman
chairwomen
chais
chaise
chaiseless
chaises
chaïtra
chaitya
chaityas
chaja
chaka
chakar
chakari
chakazi
chalked
chalker
chalkier
chalkiest
chalkiness
chalking
chalklike
chalkline
chalkography
chalkone
chalkos
chalkosideric
chalkotheke
chalkpit
chalkrail
chalk
chalkstone
chalkstony
chalkworker
chalky
challa
challah
challahs
challas
challengable
challenge
challengeable
challenged
challengee
challengeful
challenger
challengers
challenges
challenging
challengingly
challie
challies
challiho
challihoes
challis
challises
challot
challote
challoth
chally
chalmer
chalon
chalone
chambrays
chambre
chambrel
chambul
chamecephalic
chamecephalous
chamecephalus
chamecephaly
chameleon
chameleonic
chameleonzize
chameleonlike
chameleons
chametz
chamfer
chamfered
chamferer
chamfering
chamfers
chamfrain
chamfron
chamfrons
chamusal
chamise
chamises
chamiso
chamisos
chamite
chamlet
chamm
chamma
chammied
chammies
chammy
chammying
chamos
chamoised
chamoises
chamoising
chamoisite
chamoix
chamoline
chamomile
chamosite
chamotte
champ
champac
champaca
changeful
changefully
changefulness
changeless
changelessly
changelessness
changeling
changelings
changeling
chagemaker
changement
changeover
changeovers
changepocket
changer
changers
changes
changing
changs
chank
chankings
channel
channelbill
channeled
channeler
channeling
channelization
channelize
channelized
channelizes
channelizing
channelled
channeller
channeller's
channellers
channelling
channelly
channels
channelure
channelwards
channe
chanoyu
chanson
chansonette
chansonnette
chansonnier
chansonniers
chansons
chanst
chaperoned
chaperoning
chaperonless
chaperons
chapes
chapfallen
chapfallenly
chapin
chapiter
chapiters
chapitle
chapitral
chaplain
chaplain's
chaplaincies
chaplaincy
chaplainry
chaplains
chaplainship
chaplanry
chapless
chaplet
chapleted
chaplets
chaplin
chapman
chapmanship
chapmen
chapon
chapote
chapourn
chapournet
chapournetted
chappal
chappaule
chappe
chapped
chapper
chappie
chappies
chappin
chapping
chappow
chappy
chaprasi
chaprassii
chaps
chapstick
characterist
characteristic
characteristic's
characteristical
characteristically
characteristicalness
characteristicness
characteristics
characterizable
characterization
characterization's
characterizations
characterize
characterized
characterizer
characterizers
characterizes
characterizing
characterless
characterlessness
characterological
characterologically
characterologist
characterology
characters
characterstring
charactery
charactonym
charade
charades
charadriiform
charadrine
charadroid
charango
charangos
chararas
charas
charases
charbocle
charbon
charbonnier
charbroil
charbroiled
charbroiling
charbroils
charcia
charco
charcoal
charlatanistic
charlatanries
charlatanry
charlatans
charlatanship
charlemagne
charles
charleston
charlestons
charlesworth
charlet
charley
charleys
charlie
charlies
charlock
charlocks
charlotte
charlottesville
charm
charmed
charmedly
charmel
charmer
charmers
charmeuse
charmful
charmfully
charmfulness
charming
charminger
charmingest
charmingly
charmingness
charmless
charmlessly
charmonium
charms
charmwise
charneco
charnel
charnels
charnockite
charnockites
charnu
charon
charoses
charoset
chartism
cartist
cartists
cartless
cartlet
cartographer
cartographic
cartographical
cartographically
cartographist
cartography
cartology
cartometer
cartophylacia
cartophylacium
cartophylax
cartophylaxes
cartreuse
cartreux
cartroom
charts
chartula
chartulae
chartularies
chartulary
chartulas
charuk
charvet
charwoman
charwomen
chary
charybdis
chasable
chase
chaseable
chased
chaser
chasers
chases
chashtsu
chasid
chasing
chasings
chasm
chasm's
chasma
chasmal
chasmed
chasuble
chasubled
chasubles
chat
chataka
chatchka
chatchkas
chatche
chatckhes
chateau
chateau's
chateaubriand
chateaugray
chateaus
chateaux
chatelain
chatelaine
chatelaines
chatelainry
chatelains
chatelet
chatellany
chateus
chathamite
chathamites
chati
chaton
chatons
chatoyance
chatoyancy
chatoyant
charts
chatsome
chatta
chattable
chattack
chattah
chattanooga
chattation
chatted
chattel
chattelhood
chattelism
chattelization
chattelize
chattelized
chattelizing
chattels
chattelship
chatter
chatteration
chatterbag
chatterbox
chatterboxes
chattered
chatterer
chatterers
chattererz
chattering
chatteringly
chattermag
chattermagging
chatters
chattery
chattier
chatties
chattiest
chattily
chattiness
chatting
chattingly
chatty
chatwood
chaucer
chaucerian
chaudfroid
chaudron
chauffer
chaufers
chauffage
chauffer
chauffers
chauffeur
chauffeured
chauffeuring
chauffeurs
chauffeurship
chauffeuse
chauffeuses
chauck
chaukidari
chauldron
chaule
chaulmaugra
chaulmoogra
chaulmoograte
chaulmoogric
chaulmugra
chaum
chaumer
chaumiere
chaumontel
chaunoprockt
chant
chanted
chaunter
chaunters
chanting
chaunts
chauri
chaus
chausse
chaussee
chausseemeile
chaussees
chausses
chaussure
chaussures
chautaqua
chaute
chauth
chauve
chaupin
chauvinism
chaupinist
chaupinistic
chaupinistically
chaupinists
chave
chavel
chavender
chaver
chavibetol
chavicin
chavicene
chavicol
chavish
chaw
chawan
chawbacon
chawbone
chawbuck
chawdron
chawed
checkrows
checks
checkstone
checkstrap
checkstring
checksum
checksum's
checksummed
checksumming
checksums
checkup
checkups
checkweigher
checkweighman
checkweighmen
checkwork
checkwriter
checky
chedar
cheddar
cheddaring
cheddars
cheddite
cheddites
cheder
cheders
chedite
chedites
chedlock
chedreux
chee
cheecha
cheechaco
cheechako
cheechakos
cheeful
cheefuller
cheefullest
cheek
cheek's
cheekbone
cheekbones
cheeked
cheeker
cheekful
cheekfuls
cheekier
cheekiest
cheekily
cheekiness
cheeking
cheekish
cheekless
cheekpiece
cheeks
cheeky
cheeney
cheep
cheeped
cheeper
cheepers
cheepier
cheepiest
cheepily
cheepiness
cheeping
cheeps
cheepy
cheer
cheered
cheerer
cheerers
cheerful
cheerfulize
cheerfuller
cheerfullest
cheerfully
cheerfulness
cheerfulsome
cheerier
cheeriest
cheerily
cheeriness
cheering
cheeringly
cheerio
cheerios
cheerlead
cheerleader
cheerleaders
cheerleading
cheerled
cheerless
cheerlessly
cheerlessness
cheerly
chef's
chefdom
chefdoms
chefs
chego
chegoe
chegoes
chegre
cheiceral
cheilion
cheilitis
cheiloplasties
cheiloplasty
cheilostomatous
cheilotomies
cheilotomy
cheimaphobia
cheimatophobia
cheir
cheiragra
cheirognomy
cheirography
cheirolin
cheiroline
cheirology
cheiroancy
cheiromegaly
cheiropatagium
cheiropod
cheiropodist
cheiropody
cheiropompholyx
cheiroptera
cheiropterygium
cheiroosophy
cheirospasm
cheirotherium
cheka
chekan
cheke
cheken
chekhov
cheki
chekker
chekmak
chela
chelae
chelas
chelaship
chelatable
chelate
chelated
chelates
chelating
chelation
chelator
chelators
chelim
chelerythrin
chelerythrine
chelicer
chelicera
chelicerae
cheliceral
chelicerate
chelicere
chelide
chelidon
chelidinate
chelidonian
chelidonic
chelidonin
chelidonine
chelifer
cheliferous
cheliform
chelinga
chelings
chelingo
chelingos
cheliped
chlelean
chello
chelodine
cheloid
cheloids
chelone
chelonian
chelonid
cheloniid
cheloniin
chelophore
chelp
chelydre
chelydroid
chelys
chem
chemasthenia
chemawinite
chemesthesia
chemiatric
chemiatrist
chemiatry
chemic
chemical
chemicalization
chemicalize
chemically
chemicals
chemick
chemicked
chemicker
chemicking
chemicoastrological
chemicobiologic
chemicobiological
chemicobiology
chemicocautery
chemicodynamic
chemicoengineering
chemicoluminescence
chemicoluminescent
chemicomechanical
chemicominalogical
chemicopharmaceutical
chemicophysical
chemicophysics
chemicophysiological
chemicovital
chemics
chemiculture
chemigraph
chemigrapher
chemigraphic
chemigraphically
chemigraphy
chemiloon
chemiluminescence
chemiluminescent
chemin
cheminee
chemins
chemiotactic
chemiotaxic
chemiotaxis
chemiotropic
chemiotropism
chemiphotic
chemis
chemise
chemises
chemisette
chemism
chemisms
chemisorb
chemisorption
chemisorptive
chemist
chemist's
chemistries
chemistry
chemists
chemitype
chemitypies
chemitypy
chemizo
chemmy
chemoautotrophic
chemoautotrophically
chemoautotrophy
chemoceptor
chemokinesis
chemokinetic
chemolysis
chemolytic
chemolyze
chemonite
chemopallicidectomies
chemopallicidectomy
chemopause
chemophysiological
chemophysiology
chemoprophylactic
chemoprophylactic
chemoprophylaxis
chemoreception
chemoreceptive
chemoreceptivities
chemoreceptivity
chemoreceptor
chemoreflex
chemoresistance
chemurgical
chemurgically
chemurgies
chemurgy
chena
chenar
chende
cheneau
cheneaus
cheneaux
chenet
chenevixite
chenfish
cheng
chengal
chenica
chenier
chenille
cheniller
chenilles
chenopod
chenopodiaceous
chenopods
cheongsam
cheoplastic
chepster
cheque
chequebook
chequeen
chequer
chequerboard
chequered
chequering
chequers
chequerwise
chequerwork
cheques
chequin
chequinn
chequy
cher
cherchez
chercock
chere
cherely
cherem
cherenkov
chergui
cherubimic
cherubimical
cherubin
cherublike
cherubs
cherup
chervil
chervils
chervonei
chervonets
chervonetz
chervontsi
chesapeake
chesboil
chesboll
chese
cheselip
cheshire
chesil
cheskey
cheskeys
cheslep
cheson
chesoun
chess
chessart
chessboard
chessboards
chessdom
chessel
chesser
cheses
chesset
chessist
chessman
chessmen
chessner
chessom
chesstree
chessylite
chest
cheded
chesteine
chester
chesterbed
chesterfield
chesterfields
chesterlite
chibinite
chibol
chibouk
chibouks
chibouque
chibrit
chic
chica
chicadee
chicago
chicagoan
chicagoans
chicalote
chicane
chicaned
chicaner
chicaneries
chicaners
chicanery
chicanes
chicaning
chicano
chicanos
chicaric
chicayote
chiccories
chicory
chicer
chicest
chich
chicha
chicharra
chichévache
chichi
chichicast
chichili
chichimecan
chichipate
chichipe
chichis
chichituna
chichling
chick
chickabiddly
chickadee
chickadee's
chickadees
chickaree
chiliaedron
chiliagon
chiliakhedron
chiliarch
chiliarchia
chiliarchy
chiliasm
chiliasms
chiliast
chiliastic
chiliasts
chilicote
chilicothe
chilidium
chilidog
chilidogs
chilies
chilindre
chiliomb
chilipepper
chilitis
chill
chilla
chillagite
chilled
chiller
chillers
chillest
chilli
chillier
chillies
chilliest
chillily
chilliness
chilling
chillingly
chillis
chillish
chillness
chillo
chilloes
chillroom
chills
chillsome
chillum
chillumchee
chillums
chilly
chilodon
chilognath
chilognathan
chilognathous
chilogrammo
chiloma
chilomata
chiloncus
chiloplasty
chilopod
chilopodan
chilopodous
chilopods
chilostomatous
chilostome
chilotomies
chilotomy
chilte
chiltern
chilver
chimachima
chimaera
chimaeras
chimaerid
chimaeroid
chimango
chimar
chimars
chimb
chimbe
chimble
chimbley
chimbleys
chimblies
chimbly
chimbs
chime
chime's
chimed
chimer
chimera
chimeral
chimeras
chimere
chimeres
chimeric
chimerical
chimerically
chinaware
chinawoman
chinband
chinbeak
chinbone
chinbones
chincapin
chinch
chincha
chinchayote
chinche
chincher
chincherinchee
chincherinchees
chinches
chinchier
chinchiest
chinchilla
chinchillas
chinchillette
chinchiness
chinching
chinchona
chinchy
chincloth
chincof
chincora
chincough
chindee
chindi
chine
chined
chinela
chineses
chines
chinese
chinifest
ching
chingma
chink
chinki
chinkiks
chinin
chining
chiniofon
chink
chinkapin
chinkara
chinked
chinker
chinkerinchee
chinkers
chinkier
chinkiest
chinking
chinkle
chinks
chinky
chinles
chinless
chinnam
chinned
chinner
chinners
chinnier
chinniest
chinning
chinnny
chino
chinoa
chinoidin
chinoidine
chinois
chinoiserie
chinol
chinoeleine
chinoleine
chinologist
chinone
chinones
chinook
chinoookan
chinoooks
chinos
chinoctoxine
chinotti
chinotto
chinovnik
chinopiece
chinquapin
chins
chinse
chinsed
chinsing
chint
chints
chintses
chintz
chintze
chintzes
chintzier
chintziest
chintziness
chintzy
chinwag
chinwood
chiococcine
chiolite
chionablepsia
chionodoxa
chionophobia
chiopin
chiotilla
chip
chip's
chipboard
chipchap
chipchop
chiplet
chipling
chimuck
chipmucks
chipmunk
chipmunk's
chipmunks
chipolata
chippable
chippage
chipped
chippendale
chipper
chippered
chippering
chippers
chippewa
chippewas
chippie
chippier
chippies
chippiest
chipping
chippings
chipproof
chippy
chips
chitters
chitties
chitting
chitty
chiule
chiurm
chiv
chivachee
chivage
chivalresque
chivalric
chivalries
chivalrous
chivalrously
chivalrousness
chivalry
chivaree
chivareed
chivareeing
chivarees
chivareing
chivari
chivaried
chivariing
chivaring
chivaris
chivarra
chivarras
chivarro
chive
chiver
chiveret
chives
chivey
chiviatite
chivied
chivies
chivvied
chivvies
chivvy
chivvying
chivw
chivy
chivying
chizz
chizzel
chkalik
chkfil
chkfile
chladnite
chlamyd
chlamydate
chlamydeous
chlamydes
chlamydyobacteriaceous
chlamydomonas
chlamydophore
chlamydispora
chlamydomsporic
chlamydozoan
chlamyphore
chlamys
chlamyses
chloanthite
chloasma
chloasmata
chloe
chlor
chloracetate
chloracne
chloraemia
chloragen
chloragogen
chloragogue
chloral
chloralformamide
chloralide
chloralism
chloralization
chloralize
chloralized
chloralizing
chloralose
chloralosed
chlorals
chloralum
chlorambucil
chloramide
chloramin
chloramine
chloramphenicol
chloranaemia
chloranemia
chloranemic
chloranhydride
chloranil
chloranthaceous
chloranthus
chloranthy
chlorapatite
chlorargyrite
chlorastrolite
chlorate
chlorates
chlorazide
chlorcosane
chloridan
chlorodane
chlorodans
chlorodiazepoxide
chlore
chlorered
chlorella
chlorellaceous
chloremia
chloremic
chlorenchyma
chloroguanide
chlorhexidine
chlorhydrate
chlorhydric
chloriamb
chloriambus
chloric
chlorid
chloridate
chloridated
chloridation
chloride
chlorider
chlorides
chloridic
chloridize
chloridized
chloridizing
chlorids
chlorimeter
chlorimetric
chlorimetry
chlorin
chlorinate
chlorinated
chlorinates
chlorinating
chloroethylene
chlorofluorocarbon
chlorofluoromethane
chloroform
chloriformate
chloroformed
chloroformic
chloroforming
chloroformism
chloroformist
chloroformization
chloroformize
chloroforms
chlorogenic
chlorogenine
chloroguanide
chlorohydrin
chlorohydrocarbon
chlorohydroquinone
chloroid
chloroiodide
chloroleucite
chloroma
chloromata
chloromelanite
chlorometer
chloromethane
chlorometric
chlorometry
chloromycetin
chloronaphthalene
chloronitrate
chloropal
chloropalladates
chloropalladic
chlorophaeite
chlorophane
chlorophenol
chlorophenothane
chlorophenicite
chlorophyceous
chlorophyl
chlorophyll
chlorophyllaceous
chlorophyllan
chlorophyllase
chlorophyllian
chlorophyllide
chlorophylliferous
chlorophylligenous
chlorophylligerous
chlorophyllin
chlorophyllite
chlorophyllloid
chlorophyllose
chlorophyllous
chloropia
chloropicrin
chloroplast
chloroplast's
chloroplastic
chloroplasticid
chloroplasts
chloroplattice
chloroplaticin
chloroplastin
chloroplastinous
chloroprene
chloropsia
chloroquine
chlorosilicate
chlorosis
chlorospinel
chlorosulphonic
chlorothiazide
chlorotic
chlorotically
chlorotrifluoroethylene
chlorotrifluoromethane
chlorous
chlorozincate
chlorpheniramine
chlorphenol
chloropicrin
chlorpiokin
chlorpromazine
chlorpropamide
chlorprophenpyridamine
chlorosalol
chlorotetracycline
chloronyl
chm
chmn
chn
cho
choachyte
choice
choiceful
choiceless
choicelessness
choicely
choiceness
choicer
choices
choicest
choiciest
choicy
choil
choile
choiler
choir
choir's
choirboy
choirboys
choired
choirgirl
choiring
choirlike
choirman
choirmaster
choirmasters
choirs
choirwise
choise
chok
chokage
choke
chokeable
chokeberries
chokeberry
chokebore
chokecherries
chokecherry
choked
chokedamp
choker
chokered
chokerman
chokers
chokes
chokestrap
chokeweed
chokey
cholecystogram
cholecystography
cholecystoileostomy
cholecystojejunostomy
cholecystokinin
cholecystolithiasis
cholecystolithotripsy
cholecystonephrostomy
cholecystopexy
cholecystorrhaphy
cholecystostomies
cholecystostomy
cholecystotomies
cholecystotomy
choledoch
choledochal
choledocheectomy
choledochitis
choledochoenterostomy
choledocholithiasis
choledocholithotomy
choledocholithotripsy
choledochoplasty
choledochorrhaphy
choledochostomies
choledochostomy
choledochotomies
choledochotomy
choledography
cholee
cholehematin
cholec
choleine
choleinic
cholelith
cholelithiasis
cholelithic
cholelithotomy
cholelithotripsy
cholelithotritry
choleemia
cholent
cholents
choleokinase
cholepoietic
choler
cholera
choleraic
choleras
choleric
cholerically
cholericly
cholericness
choleriform
cholerogenous
cholerine
choleroid
choleromania
cholerophobia
cholerrhagia
cholers
cholestane
cholestanol
cholesteatoma
cholesteatomatous
cholestene
cholesterate
cholesteremia
cholesteric
cholesterin
cholesterinemia
cholesterinic
cholesterinuria
cholesterol
cholesterolemia
cholesteroluria
cholesterosis
cholesteryl
choletelin
choletherapy
choleuria
choli
choliamb
choliambic
choliambist
cholic
cholick
choline
cholinergic
cholines
cholinesterase
cholinic
cholinolytic
cholla
chollas
chondrioma
chondriome
chondriomere
chondriomite
chondriosomal
chondriosome
chondriosomes
chondriosphere
chondrite
chondrites
chondritic
chondritis
chondroadenoma
chondroalbuminoid
chondroangioma
chondroarthritis
chondroblast
chondroblastoma
chondrocarcinoma
chondrocele
chondroclasis
chondroclast
chondrocoracoid
chondrocostal
chondrocranial
chondrocranium
chondrocyte
chondrodite
chondroidic
chondrodynia
chondrodystrophia
chondrodystrophy
chondroendothelioma
chondroepiphyseis
chondrofetal
chondrofibroma
chondrofibromatous
chondrogen
chondrogenesis
chondrogenetic
chondrogenous
chondrogeny
chondroglossal
chondroglossus
chondrography
chondroid
chondroitic
chondroitin
chondrolipoma
chondrology
chondroma
chondromalacia
chondromas
chondromata
chondromatous
chondromucoid
chondromyoma
chondromyxoma
chondromyxosarcoma
chondropharyngeal
chondropharyngeus
chondrophore
chondrophyte
chondroplast
chondroplastic
chondroplasty
chondroprotein
chondropterygian
chondropterygious
chondrosamine
chondrosarcoma
chondrosarcomas
chondrosarcomata
chondrosarcomatous
chondroseptum
chondrosin
chondrosis
chondroskeleton
chondrostean
chondrosteoma
chondrosteous
chondrosternal
chondrotome
chondrotomy
chondroxiphoid
chondrule
chondrules
chondrus
chonicrite
chonk
chonolith
chonta
chontawood
choochoo
chook
chookie
choreographer
choreographic
choreographically
choreography
choregus
choreguses
choregy
chorei
choreic
choreiform
choreman
choremen
choreodrama
choreograph
choreographed
choreographer
choreographers
choreographic
choreographical
choreographically
choreographing
choreographs
choreography
choreoid
choreomania
choreepiscopal
choreepiscope
choreepiscopus
choreos
choreus
choreutic
chorgi
chorial
choriamb
choriambi
choriambic
choriambize
choriambs
choriambus
choriambuses
choribi
choric
chorically
chorine
chorines
choring
chorio
chorioadenoma
chorusses
corussing
choryos
chose
chosen
chooses
chosing
chott
chotts
chou
chouan
choucroute
chouette
choufluer
chough
choughs
chouka
choule
choultries
choultry
chounce
choup
choupic
chouquette
chous
chouse
choused
chouser
chousers
chouses
choush
chouses
choush's
chousing
chousingha
chout
choux
chow
chowchow
chowchows
chowder
chowdered
chowderhead
chowderheaded
chowderheadedness
chowdering
chowders
chowed
chowhound
chowing
chowk
chowries
chowry
chows
chowse
chowsed
chowses
chowsing
chowtime
chowtimes
choy
choya
choyaroot
choyroot
chrematheism
chrematist
chrematistic
chrematistics
chremsel
chremzel
chremzlach
chreotechnics
chresard
chresards
chresmology
chrestomathic
chrestomathics
chrestomathies
chrestomathy
chria
chrimsel
chrism
chrisma
chrismal
chrismale
chrismary
chrismatine
chrismation
chrismatite
chrismatize
chrismatories
chrismatory
chrismon
chrismons
chrisms
chrismomloosing
chrisoms
chrisroot
christ
christcross
christdom
christed
christen
christendom
christened
christener
christeners
christenhead
christening
christens
christhood
christian
christian's
christiania
christianism
christianite
christianity
christianization
christianize
christianized
christianizes
christianizing
christians
christie
christies
christine
christless
christlike
christly
christmas
christmases
christmastide
christological
christology
christophany
christopher
christs
christward
christy
chroatol
chroma
chromaffin
chromaffinic
chromamamin
chromammine
chromaphil
chromaphore
chromas
chromascope
chromate
chromates
chromatic
chromatical
chromatically
chromatician
chromaticism
chromaticity
chromaticness
chromatics
chromatid
chromatin
chromatinic
chromatism
chromatist
chromatize
chromatocyte
chromatodysopia
chromatogenous
chromatogram
chromatograph
chromatographic
chromatographically
chromatography
chromatoid
chromatologies
chromatology
chromatolysis
chromatolytic
chromatometer
chromatone
chromatopathia
chromatopathic
chromatopathy
chromatophil
chromatophile
chromatophilia
chromatophilic
chromatophilous
chromatophobia
chromatophore
chromatophoric
chromatophorous
chromizing
chromo
chromoblast
chromocenter
chromocentral
chromochalcographic
chromochalcography
chromocollograph
chromocollographic
chromocollography
chromocollotype
chromocollotypy
chromocratic
chromocyte
chromocytometer
chromodermatosis
chromodiascope
chromogen
chromogene
chromogenesis
chromogenetic
chromogenic
chromogenous
chromogram
chromograph
chromoisomer
chromoisomeric
chromoisomerism
chromoleucite
chromolipoid
chromolith
chromolithic
chromolithograph
chromolithographer
chromolithographic
chromolithography
chromolysis
chromomere
chromomeric
chromometer
chromone
chromonema
chromonemal
chromonemata
chromonematal
chromonematic
chromonemic
chromoparous
chromophage
chromophane
chromophil
chromophile
chromophilia
chromophilic
chromophilous
chromophobe
chromophobia
chromophobic
chromophor
chromophore
chromophoric
chromophorous
chromophotograph
chromophotographic
chromophotography
chromophotolithograph
chromophyl
chromophyll
chromoplasm
chromoplasmic
chromoplast
chromoplastid
chromoprotein
chromopsia
chromoptometer
chromoptometrical
chromos
chromosantonin
chromoscope
chromoscopic
chromoscopy
chromosomal
chromosomally
chromosome
chromosomes
chromosomic
chromosphere
chromospheres
chromospheric
chromotherapist
chromotherapy
chromotrope
chromotropic
chromotropism
chromotropy
chromotype
cromotypic
cromotypographic
cromotypography
cromotypy
cromous
cromoxylograph
cromoxylography
cromule
cromy
cromyl
cron
cronal
cronanagram
cronaxia
cronaxie
cronaxies
cronaxy
cronometer
cronic
chronica
chronical
chronically
chronicity
chronicle
chronicled
chronicler
chroniclers
chronicles
chronicling
chronicon
chronics
chronique
chronisotherm
chronist
chronobarometer
chronobiology
chronocarator
chronocinematography
chronocrator
chronocyclegraph
chronodeik
chronogeneous
chronogenesis
chronogenetic
chronogram
chronogrammatic
chronogrammatical
chronogrammatically
chronogrammatist
chronogrammic
chronograph
chronographer
chronographic
chronographical
chronographically
chronographs
chronography
chronoisothermal
chronol
chronologer
chronologic
chronological
chronologically
chronologies
chronologist
chronologists
chronologize
chronologizing
chronology
chronology's
chronomancy
chronomantic
chronomastix
chronometer
chronometers
chronometric
chronometrical
chronometrically
chronometry
chronon
chrononomy
chronons
chronopher
chronophotograph
chronophotographic
chronophotography
chronoscope
chronoscopic
chronoscopically
chronoscopv
chronoscopy
chronosemic
chronostichon
chrono-thermal
chrono-thermometer
chronotropic
chronotropism
chroococceous
chroococcoid
chrotta
chry
chrysal
chrysalid
chrysalida
chrysalidal
chrysalides
chrysalidian
chrysaline
chrysalis
chrysalisés
chrysaloid
chrysamine
chrysamnic
chrysanminic
chrysanilin
chrysaniline
chrysanisic
chrysanthehmín
chrysanthemum
chrysanthemums
chrysanthous
chrysarobin
chrysatropic
chryszain
chryszol
chryseis
chryselectrum
chryselephantine
chrysene
chrysenic
chrysid
chrysidid
chrysin
chrysler
chrysler
chrysoaristocracy
chrysoberyl
chrysobull
chrysocale
chrysocarpous
chrysochloric
chrysochlorous
chrysochlorous
churchwardenize
curchwardens
curchwardenship
curchwards
curchway
curchwise
curchwoman
curchwomen
curchy
curchyard
curchyard's
curchyards
curel
curidars
curinga
curingas
curl
curled
curlhood
curlier
curliest
curlish
curlishly
curlishness
curls
curlly
curmn
curn
churnability
churnable
churned
churner
churners
churnful
churning
churnings
churnmilk
churns
churnstaff
churr
churrasco
churred
churriguerosco
churriguerosque
churring
churrip
churro
churrs
chyliform
chylify
chylifying
chyloucaulous
chyloucaulously
chyloucauly
chyloucele
chyloucyst
chyloid
chylomicron
chylopericardium
chylorphyllous
chylorphyllously
chylorphylly
chylopoetic
chylopoiesis
chylopoietic
chylosis
chylothorax
chylous
chyluria
chymaqueous
chymase
chyme
chymes
chymia
chymic
chymics
chymiferous
chymification
chymified
chymify
chymifying
chymist
chymistry
chymists
chymosin
chymosinogen
chymosins
chymotrypsin
chymotrypsinogen
chymous
chymometer
chypre
chytra
chytrid
chytridiaceous
chytridial
ciliate
ciliated
ciliately
ciliates
ciliation
cilice
cilices
cilicious
cilicism
ciliectomy
ciliella
ciliferous
ciliform
ciliiferous
ciliiform
ciliium
cilioflagellate
ciliograde
ciliola
ciliolate
ciliolum
cilioretinal
cilioscleral
ciliospinal
ciliotomy
cilium
cill
cillosis
cima
cimaise
cimaroon
cimbal
cimbalom
cimbaloms
cimbia
cimborio
cimcumvention
cimelia
cimeliarch
cimelium
cimeter
cimex
cimices
cimicid
cimicide
cimiciform
cimicifugin
cimicoid
cincinnus
cinclides
cinclis
cinct
cincture
cinctured
cinctures
cincturing
cinder
cinder's
cindered
cinderella
cindinger
cinderlike
cinderman
cinderous
cinders
cindery
cine
cineangiocardiographic
cineangiocardiography
cineangiographic
cineangiography
cineast
cineaste
cineastes
cineasts
cinecamera
cinefaction
cinefilm
cinel
cinema
cinemactic
cinemagoer
cinemagoers
cinemas
cinematheque
cinematheques
cinematic
cinematical
cinematically
cinematics
cinematize
cinematized
cinematizing
cinematograph
cinematographer
cinematographers
cinematographic
cinematographical
cinematographically
cinematographies
cinematographist
cinematography
cinemelodrama
cinemese
cinemize
cinemograph
cinchym
cinchyma
cinchymatous
cinene
cinenegative
cineol
cineole
cineoles
cineolic
cineols
cinophone
cinephotomicrography
cineplastics
cineplasty
cineraceous
cineradiography
cinerama
cinerararia
cineraria
cinerarias
cinerarium
cinerary
cineration
cinerator
cinerea
cinereal
cinerous
cinerin
cinerins
cineritious
cinerous
cines
cinevariety
cingalese
cingle
cingula
cingular
cingulate
cingulated
cingulectomies
cingulectomy
cingulum
ciniphes
cinnabar
cinnabaric
cinnabarine
cinnabars
cinnamal
cinnamaldehyde
cinnamate
cinnamcin
cinnamene
cinnamyl
cinnamic
cinnamol
cinnamomic
cinnamon
cinnamoned
cinnamonic
cinnamonlike
cinnamonroot
cinnamos
cinnamonwood
cinnamoyl
cinnamyl
cinnamylidene
cinnamyls
cinnolin
cinnoline
cinnyl
cinofoil
cinquain
cinquains
cinquanter
cinque
cinquecentism
cinquecentist
cinquecento
cinquedea
cinquefoil
cinquefoiled
cinquefoils
cinquelfast
cinquescences
cinquepace
cinquess
cinter
cintre
circumantarctic
circumaretic
circumarticular
circumaviate
circumaviation
circumaviator
circumaxial
circumaxile
circumaxillary
circumbasal
circumbendibus
circumbendibuses
circumboreal
circumbuccal
circumbulbar
circumcallosal
circumcellion
circumcenter
circumcentral
circumcinct
circumcincture
circumcircle
circumcise
circumcised
circumciser
circumcises
circumcising
circumcision
circumcisions
circumcission
circumclude
circumclusion
circumcolumnar
circumcone
circumconic
circumcorneal
circumcrescence
circumcrescent
circumdate
circumdenudation
circumdiction
circumduce
circumducing
circumduct
circumducted
circumduction
circumesophagal
circumesophageal
circumfer
circumference
circumferences
circumferent
circumferential
circumferentially
circumferentor
circumflant
circumflect
circumflex
circumflexes
circumflexion
circumfluence
circumfluent
circumfluous
circumforaneous
circumfulgent
circumfuse
circumfused
circumfusible
circumfusing
circumfusion
circumgenital
circumgestation
circumgyrate
circumgyration
circumgyratory
circumhorizontal
circumincession
circuminsession
circuminsular
circumintestinal
circumitineration
circumjacence
circumjacencies
circumjacency
circumjacent
circumjovial
circumlental
circumlitio
circumlittoral
circumlocute
circumlocution
circumlocution's
circumlocutional
circumlocutionary
circumlocutionist
circumlocutions
circumlocutory
circumlunar
circummeridian
circummeridional
circummigrate
circummigration
circumnundane
circummure
circummured
circummuring
circumnatant
circumnavigable
circumnavigate
circumnavigated
circumnavigates
circumnavigating
circumnavigation
circumnavigations
circumnavigator
circumnavigatory
circumneutral
circumnuclear
circumnuate
circumnutated
circumnutating
circumnutation
circumnutatory
circumocular
circumoesophageal
circumoral
circumorbital
circumpacific
circumpallial
circumparallelogram
circumpentagon
circumplanetary
circ umplect
circumplicate
circumplication
circumpolar
circumpolygon
circumpose
circumposition
circumquaque
circumradii
circumradius
circumradiiuses
circumrenal
circumrotate
circumrotated
circumrotating
circumrotation
circumrotatory
circumsail
circumsaturnian
circumsciss
circumscissile
circumscribable
circumscribe
circumscribed
circumscriber
circumscribes
circumscribing
circumscript
circumscription
circumscriptions
circumscriptive
circumscriptively
circumscriptly
circumscribe
circumsession
circuminous
circumsolar
circumspangle
circumspatial
circumspect
circumspection
circumspective
circumspectively
circumspectly
circumspectness
circumspheral
circumsphere
circumstance
circumstance's
circumstanced
circumstances
circumstancing
circumstant
circumstantiability
circumstantiable
circumstantial
circumstancialities
circumstantiality
circumstantially
circumstantialness
circumstantiate
circumstantiated
circumstantiates
circumstantiating
circumstantiation
circumstantiations
circumstellar
circumtabular
circumterraneus
circumterrestrial
circumtonsillar
circumtropical
circumumbilical
circumundulate
circumundulation
circumvallate
circumvallated
circumvallating
circumvallation
circumvascular
circumvent
circumventable
circumvented
circumventer
circumventing
circumvention
circumventions
circumventive
circumventor
circumvents
circumvest
circumviate
circumvoisin
circumvolant
circumvolute
circumvolution
circumvolutory
circumvolve
circumvolved
circumvolving
circumzenithal
circus
circus's
circuses
circusy
circut
circuted
circuting
cirterion
ciruela
cirurgian
ciruses
cis
cisalpine
cisandine
cisatlantic
cisco
ciscoes
ciscos
cise
ciseaux
cisele
ciseleur
ciseleurs
ciselure
ciselures
cisgangetic
cising
cisium
cisjurane
cisleithan
cislunar
cismarine
cismontane
cisoeconomic
cispadane
cisplatine
cispontine
cisrhene

cissies
cissing
cissoid
cissoidal
cissoids
cissy
cist
cista
cistaceous
cistae
cisted
cistercian
cistern
cistern's
cisterna
cisternae
cisternal
citicism
citicorp
citied
cities
citification
citified
citifies
citify
citifying
citgrade
citing
citizen
citizen's
citzendom
citiness
citizenhood
citizenish
citizenism
citizenize
citizenized
citizenizing
citizenly
citizenries
citizenry
citizens
citizenship
citola
citolas
citole
citoler
citolers
citoles
citoyen
citoyenne
citoyens
citraconate
citraconic
citral
citrals
citramide
citramontane
citrage
citrangeade
citrate
citrated
citrates
citreal
citrene
citreous
citic
citriculture
citriculturist
citril
citrin
citritionation
citrine
citrines
citrinin
citrinins
citrinous
citrons
citrocola
citrometer
citon
citronade
citronalis
citronella
citronellal
citronelle
citronellic
citronellol
citronin
citronize
citrons
citronwood
citropten
citrous
citrul
citullin
citulline
citrus
citruses
citylidene
cittern
citternhead
citerns
citua
city
city's
citybuster
citycism
citydom
cityfied
cityfolk
cityful
cityish
clacker
clackers
clacket
clackety
clacking
clacks
clactonian
clad
cladanthous
cladautoicous
cladding
claddings
clade
cladine
cladistic
cladocarpous
cladoceran
cladocerans
cladocerous
cladode
cladodes
cladodial
cladodium
cladodont
cladodontid
cladogenesis
cladogenetic
cladogenically
cladogenous
cladoniaceous
cladoniod
cladophora
cladophoraceous
cladophyll
cladophyllum
cladoptosis
cladose
cladoselachian
cladosiphonic
clads
cladus
claes
clag
clagged
clagging
claggum
claggy
clags
clamatory
clamb
clambake
clambakes
clamber
clambered
clamberer
clambering
clambers
clamcracker
clame
clamehewit
clamer
clamflat
clamjamfery
clamjamfry
clamjamphrie
clamlike
clammed
clammer
clammersome
clammier
clammiest
clammily
clamineness
clamming
clammish
clammy
clammyweed
clamor
clamored
clamorer
clamorers
clamoring
clamorist
clamorous
clamorously
clamorousness
clamors
clamorsome
clamour
clamoured
clamourer
clamouring
clamourist
clamourous
clamours
clamoursome
clamp
clampdown
clamped
clamper
clampers
clamping
clamps
clams
clamshell
clamshells
clamworm
clamworms
clan
clancular
clancularly
clandestine
clandestinely
clandestineness
clandestinity
clanfellow
clang
clanged
clanger
clangful
clanging
clangingly
clangor
clangored
clangoring
clangorous
clangorously
clangorousness
clangors
clangour
clangoured
clangouring
clangours
clangs
clanjamfray
clanjamfrey
clanjamfrie
clanjamphrey
clank
clanked
clankety
clanking
clankingly
clankingness
clankless
clanks
clankum
clanless
clanned
clanning
clannish
clannishly
clannishness
clans
clansfolk
clanship
clansman
clansmanship
clansmen
clanswoman
clanswomen
clap
clapboard
clapboarding
clapboards
clapbread
clapcake
clapdish
clap
claplent
clapmatch
clapnest
clapnet
clapotis
clappe
clapped
clapper
clapperboard
clapperclaw
clapperclawer
clapperdudgeon
clappered
clappering
clappermaclaw
clappers
clapping
clats
clapstick
clap
claptrap
claptraps
clapwort
claque
claquer
claquers
claques
claqueur
claqueurs
clar
clarabella
clarain
clare
clarence
clarences
clarenceux
clarendon
clares
claret
claretián
clarets
claribel
claribella
clarichord
claries
clarifiable
clarifiant
clarificant
clarification
clarifications
clarified
clarifier
clarifiers
clarifies
clarify
clarifying
clarigate
clarigation
clarigold
clarin
clarina
clarine
clarinet
clarinetist
clarinetists
clarinets
clarinettist
clarinettists
clarini
clarino
clarinos
clarion
clarioned
clarionet
clarioning
clarions
clarissimo
clarities
claritude
clarity
clark
clarke
clarkeite
clarkeites
clarkia
clarkias
clarksville
claro
claroes
claros
clare
clarsach
clarseach
clarsech
clarseth
clarsethech
clart
clartier
clartiest
clarts
clarty
clary
clash
clashed
clashee
clasher
clashers
clashes
clashing
clashingly
clashy
clasmaticocyte
clasmaticotic
clasmaticosis
clasp
clased
clasper
claspers
clasing
clasingly
clasy
clasps
claspt
class
classable
classbook
classed
classer
classers
classes
classfellow
classic
classical
classicalism
classicalist
classicalities
classicality
classicalez
classically
classicalness
classicise
classicised
classicising
classicism
classicist
classistic
classists
classify
classify
classifyable
classific
classifically
classification
classificational
classifications
classifier
classificatory
classified
classifier
classifiers
classifies
classify
classifying
classily
classiness
classing
classis
classism
classisms
classist
classists
classless
classlessness
classman
classmanship
classmate
classmate's
classmates
classmen
classroom
classroom's
classrooms
classwise
classwork
classy
clast
clastic
clastics
clasts
clat
catch
catching
catchiness
catchiness
catchiness
catching
cattic
cattic
cattic
cattic
cat
catted
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cat
cap
claudetite
claudetites
claudicant
claudicate
claudication
claudius
claught
claughted
claughting
claughts
claus
clausal
clause
clause's
clauses
clauster
clausthalite
clausra
claustral
claustration
claustrophilia
claustrophobe
claustrophobia
claustrophobic
claustrophobic
clastrum
clausula
clausulae
clausular
clausule
clausum
clausure
claut
clava
clavacin
clavae
claval
clavariaceous
clavate
clavated
clavately
clavatin
clavation
clave
clavecin
clavecinist
clavel
clavelization
clavelize
clavellate
clavellated
claver
clavered
clavering
clavers
claves
clavi
clavial
claviature
clavicembali
clavicembalist
clavicembalo
clavichord
clavichordist
clavichordists
clavichords
clavicitherm
clavicittern
clavicle
clavicles
clavicor
clavicorn
clavicornate
clavicotomy
clavicular
clavicularium
claviculate
claviculus
clavicylinder
clavicymbal
clavicytheira
clavicytheirum
clavicythetheria
clavier
clavierist
clavieristic
clavierists
claviers
claviform
claviger
clavigerous
claviharp
clavilux
claviol
claviole
clavipectoral
claytonia
clayware
claywares
clayweed
cleach
clead
cleared
cleading
cleam
cleamer
clean
cleanable
cleaned
cleaner
cleaner's
cleaners
cleanest
cleanhanded
cleanhandedness
cleanhearted
cleaning
cleanings
cleanish
cleanlier
cleanliest
cleanlily
cleanliness
cleanly
cleanness
cleanout
cleans
cleansable
cleanse
cleansed
cleanser
cleansers
cleanses
cleansing
cleanskin
cleanskins
cleanup
cleanups
clear
clearable
clearage
clearance
clearance's
clearances
clergies
clergion
clergy
clergyable
clergylike
clergyman
clergymen
clergywoman
clergywomen
cleric
clerical
clericalism
clericalist
clericalists
clericality
clericalize
clerically
clericals
clericate
clericature
clericism
clericity
clerics
clericum
clerid
clerids
clerihew
clerihews
clerisies
clerisy
clerk
clerkage
clerkdom
clerkdoms
clerked
clerkery
clerkess
clerkhood
clerking
clerkish
clerkless
clerklier
clerkiest
clerklike
clerkliness
clerkly
clerks
clerkship
climacterics
climactery
climactic
climactical
climactically
climacus
climant
climata
climatal
climatachic
climate
climate's
climates
climath
climatic
climatical
climatically
climatize
climatographical
climatography
climatologic
climatological
climatologically
climatologist
climatologists
climatology
climatometer
climatotherapeutics
climatotherapies
climatotherapy
climature
climax
climaxed
climaxes
climaxing
climb
climbable
climbed
climber
climbers
climbing
climbingfish
climbingfishes
climbs
clime
clime's
climes
climograph
clinicopathologically
clinics
clinid
clinium
clink
clinkant
clinked
clinker
clinkered
clinkerer
clinkering
clinkers
clinkery
clinking
clinks
clinkstone
clinkum
clinoaxis
clinocephalic
clinocephalism
clinocephalous
clinocephalus
clinocephaly
clinochole
clinoclase
clinoclasite
clinodiagonal
clinodomatic
clinodome
clinograph
clinographic
clinohedral
clinohedrite
clinohumite
clinoid
clinologic
clinology
clinometer
clinometria
clinometric
clinometrical
clinometry
clinophobia
clinopinacoid
clinopinacoidal
clinoprism
clinopyramid
clinopyroxene
cliquishly
cliquishness
cliquism
cliquy
clisecometer
clisere
cliismaclaver
clistocarp
clistocarpous
clistothcia
clistothecia
clistothecium
clit
clitch
clite
clitella
clitellar
clitelliferous
clitelline
clitellum
clitellus
clites
clithe
clithral
clithridiate
clitia
clitic
clition
clitoral
clitoric
clitoridauxc
clitoridean
clitoridectomy
clitoriditis
clitoridotomy
clitoris
clitorises
clitorism
clitoritis
clitoromania
clitoromaniac
clitoromaniacal
clitter
clitterclatter
cliv
clival
clive
clockbird
clockcase
clocked
clocker
clockers
clockface
clockhouse
clocking
clockings
clockkeeper
clockless
clocklike
clockmaker
clockmaking
clockmutch
clockroom
clocks
clocksmith
clockwatcher
clockwise
clockwork
clockworked
clockworks
clod
clod's
clodbreaker
clodded
clodder
cloddier
cloddiest
cloddily
cloddiness
clodding
cloddish
cloddishly
cloddishness
cloddy
clodhead
clodhopper
clodhopperish
clodhoppers
clodhopping
clodknocker
clodlet
clodlike
clodpate
clodpated
clodpates
cloisterwise
cloistral
cloistress
cloit
cloke
clokies
cloky
clomb
clohen
clomiphene
clomp
clopped
cloping
clomps
clon
clonal
clonally
clonal
cloned
cloner
cloners
clones
clong
clonic
clonicity
clonicotonic
cloning
clonism
clonisms
clokn
cloked
cloking
clokins
clochoriasis
clorn
clons
clonus
clouses
cloof
cloop
cloot
clootie
cloots
clop
clopped
clopping
clops
cloque
cloques
cloragen
clorargyrite
clorinator
cloriodid
clos
closable
close
closeable
closecross
closed
closedown
closefisted
closefistedly
closefistedness
closefitting
closehanded
closehauled
closehearted
closelipped
closely
closemouth
closemouthed
cosen
closeness
closeneses
closeout
closeouts
closer
closers
closes
closest
closestool
close
closed
closeted
closetful
closeting
closets
closeup
closeups
closewing
closh
closing
closings
closish
closkey
closky
closter
clottedness
clotter
clotting
clootty
cloture
clotured
clotures
cloturing
clotweed
clov
cloud
cloudage
cloudberries
cloudberry
cloudburst
cloudbursts
cloudcap
clouded
cloudful
cloudier
cloudiest
cloudily
cloudiness
clouding
cloudland
cloudless
cloudlessly
cloudlessness
cloudlet
cloudlets
cloudlike
cloudling
cloudology
clouds
cloudscape
cloudship
cloudward
cloudwards
cloudy
clouee
cloough
clooughs
clour
cloured
clouring
clours
clout
clouted
clubmonger
cubridden
cubroom
cubrooms
cubroot
cubroots
cubs
cubstart
cubster
cubweed
cubwoman
cubwomen
cubwood
cluck
clucked
clucking
clicks
clucky
cludder
clue
clue's
clued
clueing
clueless
clues
cluff
cluing
clum
clumbere
clumbers
clump
clumped
clumper
clumpier
clumpiest
clumping
clumpish
clumpishness
clumplike
clumproot
clumps
clumpst
clumpy
clumse
clumsier
clumsiest
clumsily
clumsiness
cnidocell
cnidocil
cnidocyst
cnidogenous
cnidophobia
cnidophore
cnidophorous
cnidopod
cnidosac
cnidosis
coc
coa
cobode
coa
coa
coa
coa
coa
coa
coa
coa
coa
coa
coach
coachability
coachable
coachbuilder
coachbuilding
coached
coachee
coacher
coachers
coaches
coachfellow
coachful
coaching
coachlet
coachmaker
coachmaking
coachman
coachmanship
coachmaster
coachmen
coachs
coachsmith
coachsmithing
coachway
coachwhip
coachwise
coachwoman
coachwood
coachwork
coagulate
cogulated
cogulates
cogulating
cogulation
cogulations
cogulative
cogulator
cogulators
cogulatory
cogue
cogulin
coguline
cogulometer
cogulose
cogulum
cogulums
coid
coida
cook
cokum
col
cola
colas
colbag
colbagger
colbin
colbins
colbox
colboxes
coldealer
coled
coler
colers
colalesce
colasesed
colascence
colascency
colascents
colaseses
colascing
colascing
colface
colfild
colfish
colfishes
colfitter
colheugh
colhole
cockadoodledoo
cockaigne
cockal
cockalan
cockaleekie
cockalorum
cockamamie
cockamany
cockamaroo
cockandy
cockapoo
cockapoos
cockard
cockerouse
cockateel
cockatiel
cockatoo
cockatoos
cockatrice
cockatries
cockawee
cockbell
cockbill
cockbilled
cockbilling
cockbills
cockbird
cockboat
cockboats
cockbrain
cockchafer
cockcrow
cockcrower
cockcrowing
cockcrows
cocked
cocker
cockered
cockerel
cockerels
cockerie
cockering
cockerneg
cockernonnie
cockernony
cockerouse
cockers
cocket
cocketed
cocketing
cockeye
cockeyed
cockeyedly
cockeyedness
cockeyes
cockfight
cockfighter
cockfighting
cockfights
cockhead
cockhorse
cockhorses
cockie
cockieleekie
cockier
cockies
cockiest
cockily
cockiness
cocking
cockish
cockishly
cockishness
cockle
cockleboat
cocklebur
cockled
cockler
cockles
cockleshell
cockshells
cocklet
cocklewife
cocklight
cocklike
cockling
cockloche
cockloft
cocklofts
cockly
cockmaster
cockmatch
cockmate
cockneian
cockneity
cockney
cockneybred
cockneydom
cockneyese
cockneyess
cockneyfication
cockneyfied
cockneyfy
cockneyfying
cockneyish
cockneyishly
cockneyism
cockneyize
cockneyland
cockneylike
cockneys
cockneyship
cockpaddle
cockpit
cockpits
cockroach
cockroaches
cocks
cockscomb
cockscombed
cockscombs
cocksfoot
cockshead
cocksbies
cockshoot
cockshot
cockshut
cockshuts
cockshy
cockshying
cocksparrow
cockspar
cockspurs
cockspur
cockstone
cocksure
cocksuredom
cocksureism
cocksurely
cocksureness
cocksurety
cockswain
cocksy
cocktail
cocktail's
coddling
coddy
code
codebook
codebooks
codebreak
codebreaker
codebtor
codebtors
codec
codeclination
codecree
codecs
coded
codefendant
codefendants
codeia
codeias
codein
codeina
codeinas
codeine
codeines
codeins
codeless
codelight
codelinquency
codelinquent
coden
codenization
codens
codeposit
coder
coderive
coderived
coderives
coderiving
coders
codes
codescendant
codesign
codesigned
codesigning
codesigns
codespairer
codetermination
codetermine
codetta
coenact
coenacted
coenacting
coenactor
coenacts
coenacula
coenaculous
coenaculum
coenaesthesia
coenanmor
coenanmored
coenanmoring
coenanmorment
coenanmors
coenanmourment
coenanthium
coendear
coendure
coendured
coendures
coenduring
coenenchym
coenenchyma
coenenchymal
coenenchymata
coenenchymatous
coenenchyme
coenesthesia
coenesthesia
coenflame
coengage
coengager
coenjoy
coenla
coeno
coenobe
coenobiar
coenobic
coenobiod
coenobiodi
coenobite
coenobitic
coenobitical
coenobitiism
coenobium
coenoblast
coenoblastic
coenoby
coenocentrum
coenocyte
coenocytic
coenodioecism
coenoecial
coenoecic
coenoecium
coenogame
coenogenesis
coenogenetic
coenomonoeism
coenosarc
coenosarcal
coenosarcous
coenosite
coenospecies
coenospecific
coenospecifically
coenosteal
coenosteum
coenotrope
coenotype
coenotypic
coenthrone
coenunuri
coenure
coenures
coenuri
coenurus
coenzymatic
coenzymatically
coenzyme
coenzymes
coequal
coequality
coequalize
coequally
coequalness
coequals
coequate
coequated
coequates
coequating
coequation
coeerce
coeerceable
coeercd
coeercement
cognitum
cognizability
cognizable
cognizableness
cognizably
cognizance
cognizant
cognize
cognized
cognizee
cognizer
cognizers
cognizes
cognizing
cognizor
cognomen
cognomens
cognomina
cognominal
cognominally
cognominate
cognominated
cognomination
cognosce
cognoscent
cognoscente
cognoscenti
cognoscibility
cognoscible
cognoscing
cognoscitivc
cognoscitively
cognovit
cognovits
cogon
cogonal
cogons
cogovernment
cogovernor
cogracious
cograil
cogrediency
cogredient
cogroad
cogs
coguarantor
coguardian
cogue
cogware
cogway
cogways
cogweel
cogweels
cogwheel
cogwheels
cogwood
cohabit
cohabitancy
cohabitant
cohabitate
cohabitation
cohabitations
cohabited
cohabiter
cohabiting
cohabits
cohanim
cohanims
coharmonious
coharmoniously
coharmonize
cohead
coheaded
coheading
coheads
coheartedness
coeir
coeiress
coeirs
coeirship
cohelper
cohelpership
cohen
cohenite
cohens
coherald
cohere
cohered
coherence
coherecy
cohherent
coherently
coherer
coheres
coheres
cohetic
coinspire
coistantaneity
coistantaneous
coistantaneously
coistantaneousness
coinsurable
coinsurance
coinsure
coinsured
coinsurer
coinsures
coinsuring
cointense
cointension
cointensity
cointer
cointerest
cointerred
cointerring
cointers
cointersecting
cointise
coinventor
coinvolve
coiny
coir
coirs
coislander
coisns
coistrel
coistrels
coistril
coistrils
coit
coital
coitally
coition
coitonal
coitions
coitophobia
coiture
coitus
coitures
cojoin
cojones
cojudge
cojudices
cojuror
coleoptile
coleoptilum
coleopterera
coleorhiza
coleorhizae
coleplant
colera
coles
coleseed
coleseeds
coleslaw
coleslaws
colessee
colessees
colessor
colessors
colet
coletit
coleur
coleus
coleuses
colewort
coleworts
coley
colfox
coli
coliander
colibacillosis
colibacterin
colibert
colibertus
colibri
colic
colical
colichemarde
colicin
colicine
colicines
colicins
colicker
colicky
colicolitis
colicroot
colics
colicweed
colicwort
colicystitis
colicystopyelitis
collenchyme
collencytal
collencyte
collery
collet
colletarium
colleted
coller
colletterial
colletterium
colletic
colleting
collets
collettside
colley
collibert
collicle
colliculate
colliculus
collide
collided
collides
collidin
collidine
colliding
collie
collied
colielike
collier
collieries
colliers
collieri
collies
collieshangie
colliflower
colliform
colligance
colligate
colligated
colligating
colligation
colligative
colligible
collimate
collimated
collimates
collimating
collimation
collimator
collimators
collin
collinal
colline
collinear
collinearity
collinearly
collinearate
collineation
colling
collingly
collingual
collins
collinses
collinsia
collinsite
colliquable
colliquament
colliquate
colliquation
colliquative
colliquativeness
colloquation
collis
collision
collision's
collisional
collisions
collisive
colloblast
collobrierite
collocal
collocate
collocated
collocates
collocating
collocation
collocationable
collocational
collocations
collocative
collocatory
collochemistry
collochromate
collock
collocution
collocutor
colloquium
colloquy
collossians
collothun
collotype
collotyped
collotypic
collotyping
collotypy
collow
colloxylin
colluctation
collude
colluded
colluder
colluders
colludes
colluding
collum
collumellaceous
collun
collunaria
collunarium
collision
collusive
collusively
collusiveness
collusory
collut
collution
collutoria
collutories
collutorium
collutory
colluvia
colluvial
colluvies
colluvium
colluviums
colly
collyba
collybist
colying
collylyria
collyr
collyria
collyridian
collyrie
colonizable
colonization
colonizationist
colonizations
colonize
colonized
colonizer
colonizers
colonizes
colonizing
colonnade
colonnaded
colonnades
colonnette
colonopathy
colonopexy
colonoscopy
colons
colonus
colony
colony's
colopexia
colopexotomy
colopexy
colophan
colophane
colophany
colophene
colophenic
colophon
colophonate
colophonic
colophonist
colophonite
colophonium
colophons
colophony
coloplication
coloppe
coloproctitis
coloptosis
colopuncture
coloquies
coloquintid
coloquintida
color
colorability
colorable
colorableness
colorably
coloradan
coloradans
colorado
coloradoite
colorant
colorants
colorate
coloration
colorational
colorationally
colorations
colorative
coloratura
coloraturas
colorature
colorbearer
colorblind
colorblindness
colorbreed
colorcast
colorcasted
colorcaster
colorcasting
colorcasts
colorectitis
colorectostomy
colored
coloreds
colorer
colorers
colorfast
colorfastness
colorful
colorfully
colorfulness
colorific
colorifics
colorimeter
colorimetric
colorimetical
colorimetrically
colorimetrics
colorimetrist
colorimetry
colorin
coloring
colorings
colorism
colorisms
colorist
coloristic
coloristically
colorists
colorization
colorize
colorless
colorlessly
colorlessness
colormaker
colormaking
colorman
coloroto
colorrhaphy
colors
colortype
colory
coloslossi
coloslossuses
coloss
colossal
colossaleness
colosally
colossean
colosseum
colossi
colossian
colossians
colosso
colossus
colossuses
colostomies
colostomy
colostral
colostration
colostric
colostrous
colostrum
colotomies
colotomy
colotyphoid
colour
colourability
colourable
<table>
<thead>
<tr>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>colourableness</td>
<td>colourably</td>
<td>colouration</td>
<td>colourational</td>
<td>colourationally</td>
<td>colourative</td>
<td>coloured</td>
<td>colourer</td>
<td>colourers</td>
<td>colourfast</td>
<td>colourful</td>
<td>colourfully</td>
<td>colourfulness</td>
<td>colourific</td>
<td>colourifics</td>
<td>colouring</td>
</tr>
</tbody>
</table>
colporrhesis
colport
colportage
colporter
colporteur
colporteurs
colposcope
colposcopy
colpostat
colpotomies
colpotomy
colpus
cols
colstaff
colt
colt's
colter
colters
colthood
coltish
coltishly
coltishness
coldtlike
coltoria
coltpixie
coltpixy
colts
coltsfoot
coltsfoots
coltskin
colubaria
coluber
colubrid
colubrids
colubriform
colubrine
colubroid
colugo
colugos
columba
columbaceous
columbaria
columbaries
columbarium
columbary
columbate
columbeia
columbeion
columbia
columbiad
columbian
cumbic
cumbier
cumbiferous
cumbin
cumbine
cumbines
cumbite
cumbium
cumbo
cumboid
cumbotantalate
cumbotitanate
cumbous
cumbous
cumbus
columel
columella
columellae
columellar
columellate
columelliform
columels
column
column’s
columna
columnal
columnar
columnarian
columnarity
columnarized
columnate
columnated
columnates
columnating
columnation
columnea
columned
columned
columner
columniation
columniferous
columniform
columning
columnist
columnistic
columnists
columnization
comate
comates
comatic
comatik
comatiks
comatose
comatosely
comatoseness
comatosity
comatous
comatula
comatulae
comatulid
comb
combaron
combasou
combat
combatable
combatant
combatant's
combatants
combated
combater
combaters
combating
combative
combatively
combativeness
combativity
combats
combattant
combattants
combatted
combatter
combating
combe
combed
comber
combers
combes
combfish
combfishes
combflower
combinability
combinable
combinableness
combinably
combinant
comfort
comfortabilities
comfortability
comfortable
comfortableness
comfortably
comfortation
comfortative
comforted
comforter
comforters
comfortful
comforting
comfortingly
comfortless
comfortlessly
comfortlessness
comfortress
comfortroot
comforts
comfrey
comfreys
comfy
comic
comic's
comical
comicality
comically
comicalness
comices
comicocratic
comicocynical
comicodidactic
comicography
comicoprosaic
comicotragedy
comicotragic
comicotragical
comicry
comics
comida
comiferous
cominformist
cominformists
coming
comingle
comings
comino
comintern
comique
comism
comitadji
comital
comitant
comitatensian
comitative
comitatus
comite
comites
comitia
comitial
comities
comitiva
comitje
comitragedy
comity
coml
comm
comma
comma's
commaes
commaing
command
command's
commandable
commandant
commandant's
commandants
commandatory
commanded
commandedness
commandeer
commandeered
commandeering
commandeers
commander
commanderies
commanders
commandership
commandery
commanding
commandingly
commandingness
commandite
commandless
commandment
commentarialism
commentaries
commentary
commentary's
commentate
commentated
commentating
commentation
commentative
commentator
commentator's
commentatorial
commentatorially
commentators
commentatorship
commented
commenter
commenting
commentitious
comments
commerce
commerced
commerceless
commercer
commerces
commercia
commerciable
commercial
commercialisation
commercialise
commercialised
commercialising
commercialism
commercialist
commercialistic
commercialists
commerciality
commercialization
commercializations
commercialize
commercialized
commercializes
commercializing
commercially
commercialness
commercials
commercing
commercium
commissaryship
commission
commissionaire
commissional
commissionary
commissionate
commissionated
commissionating
commissioned
commissioner
commissioners
commissionership
commissionerships
commissioning
commissions
commissionship
commissive
commissively
commissionia
commisural
commisure
commissurotomies
commissurotomy
commision
commit
commitment
commitment's
commitments
commits
committable
committal
committals
committed
committedly
committedness
committee
committee's
committeeism
committeeman
committeemen
committees
committeeship
committeewoman
committeewomen
committent
committer
committible
committing
communalising
communalism
communalist
communalistic
communality
communalization
communalize
communalized
communalizer
communalizing
communally
communard
communibus
commune
communed
communer
communes
communicability
communicable
communicableness
communicably
communicant
communicant's
communicants
communicate
communicated
communicatee
communicates
communicating
communication
communicational
communications
communicative
communicatively
communicativeness
communicator
communicator's
communicators
communicatory
communing
communion
communionable
communional
communionist
communions
communiq
communique
communiques
communis
communisation
communise
communised
communising
communism
communist
communists
communisteries
communistry
communistic
communistical
communistically
communists
communital
communitarian
communitarianism
communitary
communities
communitive
communitorium
community
community's
communitywide
communization
communize
communized
communizing
commutability
commutable
commutableness
commutant
commutate
commutated
commutating
commutation
commutations
commutative
commutatively
commutativity
commutator
commutators
commute
commuted
commuter
commuters
commutes
commuting
commutual
commutuality
commy
comodato
comodo
comoedia
comoedus
comoid
comolecule
comonomer
comonte
comoquer
comorado
comortgagee
comose
comourn
comourner
comournful
comous
comp
compaa
compact
compactability
compactable
compacted
compactedly
compactedness
compacter
compactest
compactible
compactification
compactify
compactable
compacting
compaction
compactions
compactly
compactness
compactor
compactor's
compactors
compacts
compacture
compadre
compadres
compage
compages
compagnate
compagation
compagnie
compagnies
companionable
companage
companator
componder
companero
companeros
compania
companiable
companias
companied
companies
companion
companion's
companionship
companionable
companionableness
companionably
companionage
companionate
companioned
companioning
companionize
companionized
companionizing
companionless
companions
companionship
companionway
companionways
company
company's
companying
companyless
compar
comparability
comparable
comparableness
comparably
comparascope
compartate
comparatist
comparatival
comparative
comparatively
comparativeness
compendent
compedia
compendiary
compendiate
compendious
compendiously
compendiousness
compendium
compendiums
compend
compenetrate
compenetration
compensability
compensable
compensate
compensated
compensates
compensating
compensatingly
compensation
compensational
compensations
compensative
compensatively
compensativeness
compensator
compensators
compensatory
compense
compenser
compere
compered
comperes
compering
compert
compesce
compester
compete
competed
competence
competencies
competency
competent
competently
competentness
competer
competes
competible
competing
competingly
competition
competition's
competitioner
competitions
competitive
competitively
competitiveness
competitor
competitor's
competitors
competitorship
competitory
competitress
competitrix
compilable
compilation
compilation's
compilations
compilator
compilatory
compile
compileable
compiled
complement
compiler
compiler's
compilers
compiles
compiling
comping
compinge
compital
compitum
complacence
complacencies
complacency
complacent
complacential
complacentially
complacently
complain
complainable
complainant
complainants
complained
complainer
complainers
complaining
complainingly
complainingness
complains
complaint
complaint's
complaintful
complaintive
complaintiveness
complaints
complaintance
complaisant
complaisantly
complaisantness
complanar
complanate
complanation
complant
compleat
compleated
complect
complected
complecting
complection
complects
complement
complemental
complementally
complementalness
complementaries
complementarily
complementariness
complementarism
complementarity
complementary
complementation
complementative
complemented
complementer
complementers
complementing
complementizer
complementoid
complements
completable
complete
completed
complins
complish
complot
complotment
complots
complotted
complotter
complotting
complutenarian
compluvia
compluvium
comply
complying
compo
compoed
compoer
compoing
compole
compone
componed
componency
componendo
component
component's
componental
componented
componential
componentry
components
componentwise
compony
comport
comportable
comportance
comported
comporting
comportment
comports
compos
composable
composal
composant
compose
composed
composedly
composedness
composer
composers
compressometer
compressor
compressors
compressure
comprest
compriest
comprint
comprisable
comprisal
comprise
comprised
comprises
comprising
comprizable
comprizal
comprise
comprized
comprises
comprising
comprizable
comprizal
comprise
comprized
comprises
comprising
comproduce
comprobate
comprobation
comproduce
comprovincial
comps
compsognathus
compt
compte
compted
compter
comptible
comptie
compting
comptly
comptness
comptoir
comptometer
comptonite
comptrol
comptroller
comptroller's
comptrollers
comptrollership
compts
compulsative
compulsatively
compulsatorily
compulsatory
compulse
compulsed
compulsion
compulsion's
compulsions
compulsor
compulsive
compulsively
compulsiveness
compulsives
compulsivity
compulsorily
compulsoriness
compulsory
compunct
compunction
compunctionary
compunctionless
compunctions
compunctious
compunctiously
compunctive
compupil
compurgation
compurgator
compurgatorial
compurgatory
compursion
computability
computable
computably
computate
computation
conceptualising
conceptualism
conceptualist
conceptualistic
conceptualistically
conceptualists
conceptuality
conceptualization
conceptualization's
conceptualizations
conceptualize
conceptualized
conceptualizer
conceptualizes
conceptualizing
conceptually
conceputus
concern
concernancy
concerned
concernedly
concernedness
concerning
concerningly
concerningness
concernment
concerns
concert
concertante
concertantes
concertanti
concertanto
concertati
concertation
concertato
concertatos
concerted
concertedly
concertedness
concertgoer
concerti
concertina
concertinas
concerting
concertini
concertinist
concertino
concertinos
concher
conches
conchfish
conchfishes
conchie
conchies
conchiferous
conchiform
conchinin
conchinine
conchiolin
conchite
conchitic
conchitis
concho
conchoid
conchoideal
conchoidally
conchooids
conchol
conchological
conchologically
conchologist
conchologize
conchology
conchometer
conchometry
conchospiral
conchotome
conchs
conchuela
conchy
conchyle
conchylia
conchyliated
conchyliferous
conchylum
conciator
concierge
concierges
concile
conciliable
conciliaule
conciliabulum
conciliar
conciliarism
conciliarly
conciliate
conciliated
conciliates
conciliating
conciliatingly
conciliation
conciliationist
conciliations
conciliative
conciliator
conciliatorily
conciliatoriness
conciliators
conciliatory
concilium
concinnate
concinnated
concinnating
concinnities
concinnity
concinnous
concinnously
concio
concion
concional
concionary
concionate
concionator
concionatory
conciuousness
concipiency
concipient
concise
concisely
conciseness
conciser
concisest
concision
concitation
concite
concitizen
conclamant
conclamation
conclave
conclaves
conclavist
concludable
conclude
concluded
concordal
cordance
cordancer
cordances
cordancy
cordant
cordantial
cordantly
cordat
cordatory
cordats
cordatum
conorder
cordial
cordist
cordity
cordly
conords
concorporate
concorporated
concorporating
concorporation
concours
concourse
concourses
concreate
concredit
concremation
concrement
concrese
concrecence
concrescences
concrecent
concrescible
concrescive
concrete
concreted
concretely
concreteness
concrete
concreter
concrete
concretes
concreting
concretion
concretionality
concretionary
concretions
concretism
concretist
concretive
costively
costization
costize
costized
costizing
coster
costw
conew
conewse
concubineage
concubinal
concubinarian
concubinaries
concubinary
concubinate
concubine
concubinehood
concubines
concubity
concubitant
concubitous
concubitus
conculate
conculation
concumbency
concupiscence
concupiscent
concupiscible
concupiscibleness
concup
concur
concurbit
concurred
concurrence
concurrences
concurrency
concurrent
concurrently
concurrentness
concurring
concurringly
concurs
concursion
concus
concursus
concuss
conussant
condoning
condor
condores
condors
condos
condottiere
condottieri
conduce
conduceability
conduced
conducement
conducent
conducer
conducers
conduces
conducible
conducibleness
conducibly
conducing
conducingly
conducive
conduciveness
conduct
conducta
conductance
conductances
conducted
conductibility
conductive
conductility
conductimeter
conductimetric
conducting
conduction
conductional
conductitious
conductive
conductively
conductivities
conductivity
conductometer
conductometric
conductor
conductor's
conductorial
conductorless
conductors
conductorship
conductory
conductress
conducts
conductus
condues
conduit
conduits
conduplicate
conduplicated
conduplication
condurangin
condurango
condurrite
condylar
condylarth
condylarthrosis
condylarthrous
condyle
condylectomy
condyles
condylion
condyloid
condyloma
condylomas
condylomata
condylomatous
condylome
condylopod
condylopodous
condylos
condylotomy
condylura
condylure
cone
cone's
coned
coneen
coneclower
conehead
coneighboring
coneine
conelet
conelike
conelrad
conelrads
conemaker
conemaking
conenchyma
conenose
conenoses
coneplate
coneplates
coneplat
coneplates
coner
cones
conessine
conestoga
coney
coneys
conf
confab
confabbed
confabbing
cfabs
confabular
confabulate
confabulated
confabulates
confabulating
confabulation
confabulations
confabulator
confabulatory
confact
confarreate
confarreated
confarreation
confated
confect
confected
confecting
confection
confectionaries
confectionary
confectioner
confectioneries
confectioners
confectionery
confections
confectiones
confectory
confects
confecture
confeder
confederacies
confederacy
confederal
confederalist
confederate
confederated
confederater
confederates
confederating
confederatio
confederation
confederationism
confederationist
confederations
confederatism
confederative
confederatize
confederator
confelicity
confer
conferee
conferees
conference
conference's
conferences
conferencing
conferential
conferment
conferrable
conferral
conferrred
conferee
conference
conferrer
conferrer's
conferrers
conferring
conferruminate
confers
conferted
conferva
confervaceous
confervae
conferval
confervalike
confervas
confervoid
confervous
confirmations
confirmative
confirmatively
confirmatorily
confirmatory
confirmed
confirmedly
confirmedness
confirmee
confirming
confirmingly
confirmity
confirmment
confirmor
confirms
confiscable
confiscatable
confiscate
confiscated
confiscates
confiscating
confiscation
confiscations
confiscator
confiscators
confiscatory
confiserie
confisk
confisticating
confit
confitent
confiteor
confiture
confix
confixed
confixing
conflab
confiagrant
confiagrate
confiagrated
confiagrating
confiagration
confiagrations
confiagrative
confiagrator
confiagratory
conflate
conflated
conflates
conflating
conflation
conflexure
conflict
conflicted
conflictual
confliction
conflictive
conflictless
conflictory
conflicts
conflictual
conflow
confluence
confluences
confluent
confluently
conflux
confluxes
confluxibility
confluxible
confluentness
confocal
confocally
conforbably
conform
conformability
conformable
conformableness
conformably
conformal
conformance
conformant
conformate
conformation
conformational
conformationally
conformations
conformator
conformed
conformer
conformers
conforming
conformingly

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 3953
conformism
conformist
conformists
conformities
conformity
conforms
confort
confound
confoundable
confounded
confoundedly
confoundedness
confounder
confounders
confounding
confoundingly
confoundment
confounds
confr
confract
confraction
confragose
confrater
confraternal
confraternities
confraternity
confraternization
confrere
confreres
confrerie
confriar
confricamenta
confricamentum
confrication
confront
confrontal
confrontation
confrontation's
confrontational
confrontationism
confrontationist
confrontations
confronete
confronted
confroner
confroners
confronting
confronting
confrontment
congealer
congealing
congealment
congeals
conged
congee
congeed
congeeing
congees
congeing
congelation
congelative
congelifract
congelifraction
congeliturbate
congeliturbation
congenator
congener
congeneracy
congeneric
congenerical
congenerous
congenerousness
congeners
congenetic
congenial
congeniality
congenialize
congenially
congenialness
congenital
congenitally
congenitalness
congenite
congeon
conger
congereee
congerie
congeries
congers
congency
conges
concession
congest
congested
congestedness
congestible
congesting
congestion
congestions
congestive
congests
congestus
congiaries
congiary
congii
congius
conglaciate
conglobate
conglobated
conglobately
conglobating
conglobation
conglobe
conglobed
conglobes
conglobing
conglobulate
conglomerate
conglomerated
conglomerates
conglomeratic
conglomerating
conglomeration
conglomerations
conglomerative
conglomerator
conglomeritic
conglutin
conglutinant
conglutinate
conglutinated
conglutinating
conglutination
conglutinative
conglution
congo
congoes
congoese
congoni
congos
congou
congous
congrats
congratulable
congratulant
congreve
congrid
congrio
congroid
congrue
congruence
congruences
congruencies
congruency
congruent
congruential
congruently
congruism
congruist
congruistic
congruites
congruity
congruous
congruously
congruousness
congustable
conhydrin
conhydride
coni
conia
conic
conical
conicality
conically
conicalness
conicein
coniceine
conichalcite
conicine
conicities
conicity
conicle
conicoid
conicopoly
conics
conidia
conidial
conidian
conidiferous
conidioid
conidiophore
conidiophorous
conidiospore
conjoined
conjoinedly
conjoiner
conjoining
conjoins
conjoint
conjointly
conjointment
conjointness
conjoins
conjon
conjubilant
conjuctiva
conjugable
conjugably
conjugacy
conjugal
conjugality
conjugally
conjugant
conjugata
conjugate
conjugated
conjugately
conjugateness
conjugates
conjugating
conjugation
conjugational
conjugationally
conjugations
conjugative
conjugator
conjugators
conjugal
conjugium
conjunct
conjuncted
conjunction
conjunction’s
conjunctional
conjunctonally
conjunctions
conjunctiva
conjunctivae
conjunctival
conjunctivas
conjunctive
connaturalize
connaturally
connaturalness
connature
connaught
connect
connectable
connectant
connected
connectedly
connectedness
connector
connecters
connectibility
connectible
connectibly
connecticut
connecting
connection
connection's
connectional
connectionism
connectionless
connections
connectival
connective
connective's
connectively
connectives
connectivity
connector
connector's
connectors
connects
conned
connellite
conner
conners
connex
connexes
connexion
connexional
connexionism
connexionities
connexionity
connexiva
connexive
connexivum
connubium
conumerate
conumeration
connusable
conn
conocarp
conoclinium
conocuneus
conodont
conodonts
conoid
conoidal
conoidally
conoidic
conoidical
conoidically
conoids
conominee
cononintelligent
conopid
conoplain
conopodium
conormal
conoscente
conoscenti
conoscope
conoscopic
conourish
conphaseolin
conplane
conquassate
conquedle
conquer
conquerable
conquerableness
conquered
conquerer
conquerers
conqueress
conquering
conqueringly
conquerment
conqueror
conqueror’s
conquerors
conquers
conquest
conquest’s
consentience
consentient
consentiently
consenting
consentingly
consentingness
consentive
consentively
consentment
consents
consequence
consequence's
consequences
consequencey
consequent
consequential
consequentialities
consequentiality
consequentially
consequentialness
consequently
consequents
consertal
consertion
conservable
conservacy
conservancies
conservancy
conservant
conservate
conservation
conservation's
conservational
conservationism
conservationist
conservationist's
conservationists
conservations
conservatism
conservatist
conservative
conservatively
conservativeness
conservatives
conservatize
conservatoire
conservatoires
conservator
conservatorial
conservatories
conservatorio
conservatorium
conservators
conservatorship
conservatory
conservatrix
conserve
conserved
conserver
conservers
conserves
conserving
consider
considerability
considerable
considerableness
considerably
considerance
considerate
considerately
considerateness
consideration
considerations
considerative
consideratively
considerativeness
considerator
considered
considerer
considering
consideringly
considers
consign
consignable
consignataries
consignatory
consignation
consignator
consignee
consignees
consigneeship
consigner
consignificant
consignificate
consolable
consolableness
consolably
consolan
consolate
consolation
consolation's
consolations
consolator
consolatorily
consolatoriness
consolatory
consolatrix
console
consoled
consolement
consoler
consolers
consoles
consolette
consolidant
consolidate
consolidated
consolidates
consolidating
consolidation
consolidationist
consolidations
consolidative
consolidator
consolidators
consoling
consolingly
consolitorily
consolitoriness
consols
consolute
consomm
consomme
consommes
consonance
consonances
consonancy
consonant
consonant's
consonantal
consonantalize
consonantalized
consonantalizing
consonantly
consonantic
consonantise
consonantised
consonantising
consonantism
consonantize
consonantized
consonantizing
consonantly
consonantness
consonants
consonate
consonous
consopite
consort
consortable
consorted
consorter
consortia
consortial
consorting
consortion
consortism
consortitia
consortium
consortiums
consorts
consortship
consoude
consound
conspecies
conspecific
conspecifics
conspect
conspection
conspectuity
conspectus
conspectuses
consperg
conspersive
consersion
conspicuity
conspicuous
conspicuously
conspicuousness
conspiracies
conspiracy
conspiracy’s
conspirant
conspiration
conspirational
conspirative
conspirator
conspirator’s
conspiratorial
conspiratorially
conspirators
conspiratory
conspiratress
conspire
conspired
conspirer
conspirers
conspires
conspiring
conspiringly
conspuricate
const
constable
constable’s
constabery
constables
constables
constables
constables
constableship
constabless
constablewick
constabular
constabularies
constabulary
constance
constances
constancy
constant
constantan
constantinian
constantinople
constantinopolitan
constantly
constantness
constants
constat
constatation
constatations
constate
constative
constatary
constellate
constellated
constellating
constellation
constellation's
constellations
constellatory
conster
consternate
consternated
consternating
consternation
constipate
constipated
constipates
constipating
constipation
constipations
constituency
constituency's
constituent
constituent's
constituantly
constituents
constituents
constitute
constituted
constituter
constitutes
constituting
constitution
constitutional
constitutionalism
constitutionalist
constitutionality
constitutionality
constitutionization
constitutionalize
constitutionally
constitutionals
constitutionary
constitutioner
constitutionist
constitutionless
constitutions
constitutive
constitutively
constitutiveness
constitutor
constr
constrain
constrainable
constrained
constrainedly
constrainedness
constrainer
constrainers
constraining
constrainingly
constraint
constraint's
constraints
constict
constricted
constricting
constriction
constrictions
constrictive
constrictor
constrictors
constricts
constringe
constringed
constringency
constringent
constringing
construability
construable
construal
construct
constructable
constructed
constructor
constructibility
constructible
constructing
construction
construction's
constructional
constructionally
constructionism
constructionist
constructionists
consultates
consulting
consuls
consultship
consultships
consult
consulta
consultable
consultancy
consultant
consultant's
consultants
consultantship
consultary
consultation
consultation's
consultations
consultative
consultatively
consultatory
consulted
consultee
consultler
consulting
consultive
consultively
consulto
consultor
consultory
consults
consumable
consumables
consumate
consumated
consumating
consumation
consume
consumed
consumedly
consumeless
consumer
consumer's
consumerism
consumerist
consumers
consumership
consumes
consuming
contagions
contagiosity
contagious
contagiously
contagiousness
contagium
contain
containable
contained
containedly
container
containerboard
containerization
containerize
containerized
containerizes
containerizing
containerport
containers
containership
containerships
containing
containment
containment's
containments
contains
contakia
contakion
contakionkia
contam
contaminable
contaminant
contaminants
contaminate
contaminated
contaminates
contaminating
contamination
contaminations
contaminative
contaminator
contaminous
contangential
contango
contangoes
contangos
contchar
contd
conte
contec
contect
contection
contek
conteke
contemned
contemner
contennible
contennibly
contemning
contemningly
contenmor
contemns
contemp
contemper
contemperate
contemperation
contemplable
contemplamen
contemplance
contemplant
contemplate
contemplated
contemplatedly
contemplates
contemplating
contemplatingly
contemplation
contemplations
contemplatist
contemplative
contemplatively
contemplativeness
contemplator
contemplators
contemplature
contemple
contemporanean
contemporaneity
contemporaneous
contemporaneously
contemporaneousness
contemporaries
contemporarily
contemporariness
contemporary
conter
conterminable
conterminal
conterminant
conterminate
contermine
conterminous
conterminously
conterminousness
conterraneous
contes
contessa
contesseration
contest
contestability
contestable
contestableness
contestably
contestant
contestants
contestate
contestation
contested
contestee
contester
contesters
contesting
contestingly
contestless
contests
conteur
contex
context
context's
contextive
contexts
contextual
contextualize
contextually
contextural
contexture
contextured
contg
conticent
contignite
contignation
contiguate
contiguities
contortions
contortive
contortively
contorts
contortuplicate
contos
contour
contour's
contoured
contouring
contourne
contours
contr
ccontra
contraband
contrabandage
contrabandery
contrabandism
contrabandist
contrabandista
contrabass
contrabassist
contrabasso
contrabassoon
contrabassoonist
contracapitalist
contraception
contraceptionist
contraceptive
contraceptives
contracivil
contraclockwise
contract
contractable
contractant
contractation
contracted
contractedly
contractedness
contractee
contracter
ccontractibility
contractible
contractibleness
contractibly
contractile
contractility
contracting
<table>
<thead>
<tr>
<th>contraction</th>
<th>contraction's</th>
</tr>
</thead>
<tbody>
<tr>
<td>contractional</td>
<td>contractionist</td>
</tr>
<tr>
<td>contractions</td>
<td>contractive</td>
</tr>
<tr>
<td>contractively</td>
<td>contractiveness</td>
</tr>
<tr>
<td>contractly</td>
<td>contractor</td>
</tr>
<tr>
<td>contractor's</td>
<td>contractors</td>
</tr>
<tr>
<td>contracts</td>
<td>contractu</td>
</tr>
<tr>
<td>contractual</td>
<td>contractually</td>
</tr>
<tr>
<td>contracture</td>
<td>contractured</td>
</tr>
<tr>
<td>contractus</td>
<td>contractyclical</td>
</tr>
<tr>
<td>contrada</td>
<td>contradance</td>
</tr>
<tr>
<td>contrade</td>
<td>contradebt</td>
</tr>
<tr>
<td>contradict</td>
<td>contradictable</td>
</tr>
<tr>
<td>contradicted</td>
<td>contradictedness</td>
</tr>
<tr>
<td>contradictedness</td>
<td>contradicter</td>
</tr>
<tr>
<td>contradicting</td>
<td>contradiction</td>
</tr>
<tr>
<td>contradiction's</td>
<td>contradictional</td>
</tr>
<tr>
<td>contradictions</td>
<td>contradictious</td>
</tr>
<tr>
<td>contradictiously</td>
<td>contradictiousness</td>
</tr>
<tr>
<td>contradictive</td>
<td>contradictively</td>
</tr>
<tr>
<td>contradictiveness</td>
<td>contradictor</td>
</tr>
<tr>
<td>contradictories</td>
<td>contradictorily</td>
</tr>
<tr>
<td>contradictoriness</td>
<td>contradictoriness</td>
</tr>
<tr>
<td>contradictory</td>
<td>contradicts</td>
</tr>
<tr>
<td>contradiscriminate</td>
<td>contradistinct</td>
</tr>
</tbody>
</table>
contradistinction
contradistinctions
contradistinctive
contradistinctively
contradistinctly
contradistinguish
contradivide
contrafacture
contrafagotto
contrafissura
contrafissure
contraflexure
contraflow
contrafocal
contragredience
contragredient
contrahent
contrail
contrails
contraindicant
contraindicate
contraindicated
contraindicates
contraindicating
contraindication
contraindications
contraindicative
contrair
contraire
contralateral
contralti
contralto
contraltos
contramarque
contramure
contranatural
contrantiscion
contraoctave
contraorbital
contraorbitally
contraparallelogram
contrapletal
contraplete
contraplex
contrapolarization
contrapone
contraponend
contrapose
contraposed
contraposing
contraposit
contraposita
contraposition
contrapositive
contrapositives
contrapposto
contrappostos
contraprocessist
contraprop
contraproposal
contraprops
contraprojectant
contraption
contraption's
contraptions
contraptious
contrapunatal
contrapunatalist
contrapuntally
contrapuntist
contrapunto
contraration
contrarationist
contrarational
contraregular
contraregularity
contraremonstrance
contraremonstrant
contrarevolutionary
contrariant
contrariantly
contraries
contrarieties
contrariety
contrarily
contrariness
contrarious
contrariously
contrariousness
contrariwise
contrarotation
contrary
contrascriptural
contrast
contrastable
contrastably
contraste
contrasted
contributing
contribution
contributional
contributions
contributive
contributively
contributiveness
contributor
contributor's
contributorial
contributories
contributorily
contributors
contributorship
contributory
contrist
contrite
contritely
contriteness
contrition
contriturate
contrivable
contrivance
contrivance's
contrivances
contrivancy
contrive
contrived
contrivedly
contrivement
contriver
contrivers
contrives
contriving
control
control's
controled
controling
controllability
controllable
controllableness
controllably
controlled
controller
controller's
controllers
controllership
controlless
controlling
controllingly
controldment
controls
controversal
controverser
controversial
controversialism
controversialist
controversialists
controversialize
controversially
controversies
controversion
controversional
controversionalism
controversionalist
controversy
controversy's
controvert
controverted
controverter
controvertibility
controvertible
controvertibly
controverting
controvertist
controverts
contrude
continua
contubernal
contubernial
contubernium
contumacies
contumacious
contumaciously
contumaciousness
contumacies
contumacity
contumacy
contumax
contumelies
contumelious
contumeliously
contumeliousness
contumely
contund
contune
conturb
conturbation
contuse
contused
contuses
contusing
contusion
contusioned
contusions
contusive
conubium
conule
conumerary
conumerous
conundrum
conundrum’s
conundrumize
conundrums
conurbation
conurbations
conure
conus
conusable
conusance
conusant
conusee
conuses
conusor
conutrition
conuzee
conuzor
conv
convalesce
convalesced
convalescence
convalescency
convalescent
convalescently
convalescents
convalesces
convalescing
convallamarin
convallariaceous
convallarin
convally
convect
convected
conventionalising
conventionalism
conventionalist
conventionalities
conventionality
conventionalization
conventionalize
conventionalized
conventionalizes
conventionalizing
conventionally
conventionary
conventioneer
conventioneers
conventioner
conventionism
conventionalist
conventionize
conventions
conveto
covents
convetual
convetually
converge
converged
convergement
convergence
convergences
convergency
convergent
convergently
converges
convergescence
converginerved
converging
conversable
conversableness
conversably
conversance
conversancy
conversant
conversantly
conversation
conversation's
conversationable
conversational
conversationalism
conversationalist
conversationalists
classification
classificationist
classificationize
classifications
classificationist
classificationally
classificationism
classification
classification..
classification...

convert
convertable
convertaplane
converted
convertend
converter
converters
convertibility
convertible
convertibleness
convertibles
convertibly
convertingness
convertiplane
convertise
convertism
convertite
convertive
convertoplane
convictions
convictism
convictive
convictively
convictiveness
convictment
convictor
convicts
convince
convinced
convincedly
convincedness
convincement
convincer
convincers
convinces
convincibility
convincible
convincing
convincingly
convincingness
convite
convito
convival
convive
convives
convivial
convivialist
conviviality
convivialize
convivially
convivio
convocant
convocate
convocated
convocating
convocation
convocational
convocationally
convocationist
convocations
convocative
convocator
convoke
convoked
convoker
convokers
convokes
cookhouse
cookhouses
cookie
cookie's
cookies
cooking
cookings
cookish
cookishly
cookless
cookmaid
cookout
cookouts
cookroom
cooks
cookshack
cookshop
cookshops
cookstove
cookware
cookwares
cooky
cool
coolabah
coolaman
coolamon
coolant
coolants
cooled
coolen
cooler
cooler's
coolerman
coolers
coolest
cooler
coolheaded
coolheadedly
coolheadedness
coolhouse
coolibah
coolidge
coolie
coolie's
coolies
cooliman
cooling
coolingly
coolingness
coolish
coolly
coolness
coolnesses
cools
coolth
coolung
coolweed
coolwort
cooly
coom
coomb
coombe
coombes
coombs
coomy
coon
coon's
cooncan
cooncans
cooner
coonhound
coonhounds
coonier
cooniest
coonily
cooniness
coonjine
coonroot
coons
coonskin
coonskins
coonstah
coonstail
coonstie
coonsties
coonstye
coop
cooped
coopee
cooper
coperage
coperancy
coperant
coperate
coperated
coperates
coparent
coparents
copart
copartaker
copartiment
copartner
copartners
copartnership
copartnery
coparty
copasgetic
copassionate
copastor
copastorate
copastors
copatain
copataire
copatentee
copatriot
copatron
copatroness
copatrons
cope
copeck
copecks
coped
copei
copeia
copelate
copelidine
copellidine
copeman
copemate
copemates
copen
copending
copenetrate
copenhagen
copens
copepod
copepodan
copepodous
copepods
coper
coperception
coperiodic
copernican
copernicans
coproduce
coproducer
coproduct
coproduction
coproe
coprojector
coprolagnia
coprolagnist
coprolalia
coprolaliac
coprolite
coprolith
coprolitic
coprology
copromisor
copromoter
coprophagan
coprophagia
coprophagist
coprophagous
coprophagy
coprophilia
coprophiliac
coprophilic
coprophilism
coprophilous
coprophobia
coprophobic
coprophyte
coproprietor
coproprietorship
coprose
coprosma
coprostanol
coprostasia
coprostasis
coprostasophobia
coprosterol
coprozoic
cops
copse
copses
copsewood
copsewooded
copsing
copsole
copsy
copt
coracine
coracle
coraclet
coracles
coracoacromial
coracobraichial
coracobraichialis
coracoelavicular
coracocostal
coracolumeral
coracohyoid
coracoid
coracoidal
coracoids
coracomandibular
coracomorph
coracomorphic
coracopectoral
coracoprococoid
coracoradialis
coracoscapular
coracosteon
coracovertebral
coradical
coradicate
corage
coraggio
coraggio
corah
coraise
coraji
coral
coralbells
coralberries
coralberry
coralbush
coraled
coralene
coralflower
coralist
coralita
coralla
corallet
corallic
coraliddomous
coralliferous
coralliform
coralligenous
coralligerous
corallike
corallin
corallinaceous
coralline
corallita
corallite
coralloid
coralloidal
corallum
coralroot
corals
coralwort
coram
coran
corance
coranoch
coranto
corantoes
corantos
coraveca
corban
corbans
corbe
corbeau
corbed
corbeil
corbeille
corbeilles
corbeils
corbel
corbeled
corbeling
corbelled
corbell ing
corbelled
corbelling
corbel
corbet
corbicula
corbiculae
corbiculate
corbiculum
corbie
corbies
corbiestep
corbina
corbinas
corbleu
corblimey
cored
coredeem
coredeemed
coredeemer
coredeeming
coredeems
coredemptress
coreductase
coreflexed
coregence
coregency
coregent
coregnancy
coregnant
coregonid
coregonine
coregonoid
coreid
coreign
coreigner
coreigns
corejoice
corelate
corelated
corelates
corelating
corelation
corelational
corelative
corelatively
coreless
coreligionist
corella
corelysis
coremaker
coremaking
coremia
coremium
coremiumia
coremorphosis
corenounce
coreometer
coreopsis
coreplastic
coreplasty
corepressor
corequisite
corer
cers
co
coesidence
crsidual
crsign
crsontant
crsort
crspect
crspondency
crspondent
crspondents
crsotomy
crveler
crveller
crvelve
crf
crge
crgi
crgis
cria
criaceous
crial
criamyrtin
criander
crianders
criandrol
criariaceous
criaus
criin
criordon
coring
crinne
crinth
crithes
crithiac
crithian
crithians
criparian
crita
crium
crk
crkage
crkages
crboard
crke
crked
crker
crkers
cornbole
cornbottle
cornbrash
cornbread
corncake
corncakes
corncob
corncobs
corncockle
corncracker
corncrake
corncrib
corncribs
corncrusher
corncutter
corncutting
corndodger
cornea
corneagen
corneal
corneas
corned
cornein
corneine
corneitis
cornel
cornelian
cornell
cornels
cornemuse
corneocalcareous
corneosclerotic
corneosiliceous
corneous
corner
cornerback
cornerbind
cornercap
cornered
cornerer
cornering
cornerman
corners
corners
cornerstone
cornerstone's
cornerstones
cornerways
cornubianite
cornucopia
cornucopian
cornucopias
cornucopiate
cornule
cornulite
cornupete
cornus
cornuses
cornute
cornuted
cornutin
cornutine
cornuting
cornuto
cornutos
cornutus
cornwall
cornwallis
cornwallises
cornwallite
corny
coroa
corocleisis
corodiary
corodiastasis
corodiastole
corodies
corody
corojo
corol
corolitic
coroll
corolla
corollaceous
corollarial
corollaria
corollarily
corollaries
corollary
corollary's
corollas
corollate
corollated
corollet
corolliferous
corollifloral
corolliform
coronillin
coronillo
coronion
coronis
coronitis
coronium
coronize
coronobasilar
coronofacial
coronofrontal
coronograph
coronographic
coronoid
coronule
coroparelcysis
coro plast
coro plast a
coro plastae
coro plastic
coro plastic y
coroscopy
corosif
corotate
corotated
corotates
corotating
corotation
corotom y
coroun
coroutine
coroutine's
coroutines
coro zo
coro zos
corp
corpl
corpn
corpora
corporacies
corporacy
corporal
corporal's
corpora lcy
corpor ale
corpora les
corpora lism
corporal ities
corporal ity
corpulency
corpulent
corpulently
corpulentness
corpus
corpuscle
corpuscles
corporcular
corporcularian
corporcularity
corporculated
corpuscle
corporulous
corporulum
corr
corrade
corraded
corrades
corradiial
corradiate
corradiated
corradiating
corradiation
corrading
corral
corralled
corralling
corralls
corrasion
corrasive
coreal
correality
correct
correctable
correctant
corrected
correctedness
correcter
correctest
correctible
correctify
correcting
correctingly
correction
correctional
correctionalist
correctioner
corrections
correctitude
corrective
correctively
correctiveness
correctives
correctly
correctness
corrector
correctorship
correctory
correctress
correctrice
corrects
corregidor
corregidores
corregidors
corregimiento
corregimientos
correl
correlatable
correlate
correlated
correlates
correlating
correlation
correlational
correlations
correlative
correlatively
correlativeness
correlatives
correlativism
correlativity
correligionist
correllated
correllation
correllations
corrente
coreo
correption
corresol
corresp
correspond
corresponded
correspondence
correspondence's
correspondences
correspondencies
corvet
corvets
corvette
corvettes
corvetto
corviform
corvillosum
corvina
corvinas
corvine
corviser
corvisor
corvktte
corvo
corvoid
corvorant
corvus
corybant
corybantiasm
corybantic
corybantish
corybulbin
corybulbine
corycavamine
corycavidin
corycavidine
corycavine
corydalgin
corydaline
corydalis
corydine
corydon
corydora
coryl
corylaceous
corylet
corylin
corymb
corymbed
corymbiate
corymbiated
corymbiferous
corymbiform
corymblike
corymbose
corymosely
corymbose

corymsb
cosing
cosingular
cosins
cosinusoid
cosmecology
cosmesis
cosmete
cosmetic
cosmetical
cosmetically
cosmetician
cosmeticize
cosmetics
cosmetiste
cosmetological
cosmetologist
cosmetologists
cosmetology
cosmic
cosmical
cosmicality
cosmically
cosmine
cosnism
cosmisms
cosmist
cosmists
cosmo
cosmochemical
cosmochemistry
cosmocracy
cosmocrat
cosmocratic
cosmodrome
cosmogenesis
cosmogenetic
cosmogenic
cosmogeny
cosmognosis
cosmogonal
cosmogoner
cosmogonic
cosmogonical
cosmogonies
cosmogonist
cosmogonists
cosmogonize
cosmogony
cosmographer
cosmographic
cosmographical
cosmographically
cosmographies
cosmographist
cosmography
cosmoid
cosmolabe
cosmolatry
cosmoline
cosmolined
cosmolining
cosmologic
cosmological
cosmologically
cosmologies
cosmologist
cosmologists
cosmology
cosmologygy
cosmometry
cosmonaut
cosmonautic
cosmonautical
cosmonautically
cosmonautics
cosmonauts
cosmopathic
cosmoplastic
cosmopoietic
cosmopolicy
cosmopolis
cosmopolises
cosmopolitan
cosmopolitanisation
cosmopolitanise
cosmopolitanised
cosmopolitanising
cosmopolitanism
cosmopolitanization
cosmopolitanize
cosmopolitanized
cosmopolitanizing
cosmopolitanly
cosmopolitans
cosmopolite
cosmopolitic
cosmopolitical
cosmopolitics
cosmopolitism
cosmorama
cosmorganic
cosmoscope
cosmoses
cosmosophy
cosmosphere
cosmotellurian
cosmotheism
cosmotheist
cosmotheistic
cosmthetic
cosmotron
cosmozoan
cosmozoans
cosmozoic
cosmozoism
cosonant
cosounding
cosovereign
cosovereignty
cospecies
cospecific
cosphered
cosplendor
cosplendour
cosponsor
cosponsored
cosponsoring
cosponsors
cosponsorship
cosponsorships
coss
cossack
cossacks
cossas
cosse
cosset
cosseted
cosseting
cossets
cossette
cossetted
cossetting
costlessness
costlew
costlier
costliest
costliness
costly
costmaries
costmary
costoabdominal
costoapical
costocentral
costochondral
costoclavicular
costocolic
costocoracoid
costodiaphragmatic
costogenic
costoinferior
costophrenic
costopleural
costopneumopexy
costopulmonary
costoscapular
costosternal
costosuperior
costothoracic
costotome
costotomies
costotomy
costotrichelian
costotransversal
costotransverse
costovertebral
costoxiphoid
coststraight
costrel
costrels
costs
costula
costulation
costume
costumed
costumer
costumers
costumery
costumes
costumey
costumic
costumier
costumiere
costumiers
costuming
costumire
costumist
costusroot
cosubject
cosubordinate
cosuffer
cosufferer
cosuggestion
cosuitor
cosurety
cosuretyship
cosustain
coswearer
cosy
cosymmedian
cot
cot’s
cotabulate
cotan
cotangent
cotangential
cotangents
cotans
cotarius
cotarnin
cotarnine
cotbetty
cotch
cote
coteau
coteaux
coted
coteen
coteful
cotehardie
cotele
coteline
coteller
cotemporane
cotemporanean
cotemporaneous
cotemporaneously
cotemporaries
cotemporarily
cotemporary
cotenancy
cotenant
cotenants
cotenure
coterell
coterie
coteries
cotermal
coterinous
coterinously
coterinousness
cotery
cotes
cotesian
coth
cotham
cothamore
coth
cothe
cotheorist
cothish
cothon
cothouse
cothurn
cothurnal
cothurnate
cothurned
cothurni
cothurnian
cothurnni
cothurns
cothurnus
cothy
cotice
coticed
coticing
coticular
cotidal
cotillage
cotillion
cotillions
cotillon
cotillons
coting
cotinga
cotingid
cotingoid
cotise
cottered
cotterel
cottering
cotterite
cotters
cotterway
cotid
cottier
cottierism
cottiers
cottie
cottiest
cottiform
cottise
cottoid
cotton
cottonade
cottonbush
cottoned
cottonee
cottoneer
cottoner
cottoning
cottonization
cottonize
cottonless
cottonmouth
cottonmouths
cottonocracy
cottonopolis
cottonpickin'
cottonpicking
cottons
cottonseed
cottonseeds
cottontail
cottontails
cottontop
cottonweed
cottonwick
cottonwood
cottonwoods
cotony
cottrel
cotty
cotuit
cotula
cotunnite
cotutor
| cotwal     | cotwin    | cotwinned    | cotwist    | cotyla    | cotylar    | cotyle    | cotyledon    | cotyledon's    | cotyledonal    | cotyledonar    | cotyledonary    | cotyledonoid    | cotyledonous    | cotyledons    | cotyliform    | cotyligerous    | cotyliscus    | cotyloid    | cotyloidal    | cotylophorous    | cotylopubic    | cotylosacral    | cotylosaur    | cotylosaurian    | cotype    | cotypes    | couac    | coucal    | couch     | couchancy    | couchant    | couchantly    | couche    | couched    | couchee    | coucher    | couchers    | couches    | couchette    | couching    | couchings    | couchmaker    | couchmaking    | couchmate    | couchy    | coud    | coude    |
coulthard
couple
couma
coumalic
coumalin
coumaphos
coumaran
coumarane
coumarate
coumaric
coumarilic
coumarin
coumarinic
coumarins
coumarone
coumarou
coumarous
coumbite
council
council's
councilist
councillary
councillor
councillor's
councillors
councillorship
councilman
councilmanic
councillmen
councillor
councillors
councillorship
councils
councilwoman
councilwomen
counderstand
counite
couniversal
counsel
counselable
counseled
counselee
counselfful
counseling
counseling
counsellable
counsellable
counselled
counselling
counteragency
counteragent
counteragitate
counteragitation
counteralliance
counterambush
counterannouncement
counteranswer
counterappeal
counterappellant
counterapproach
counterapse
counterarch
counterargue
counterargument
counterartillery
counterassertion
counterassociation
counterassurance
counterattack
counterattacked
counterattacker
counterattacking
counterattacks
counterattestation
counterattired
counterattraction
counterattractive
counterattractively
counteraverment
counteravouch
counteravouchment
counterbalance
counterbalanced
counterbalances
counterbalancing
counterband
counterbarrage
counterbase
counterbattery
counterbeating
counterbend
counterbewitch
counterbid
counterblast
counterblow
counterbond
counterborder
counterbore
counterbored
counterborer
counterboring
counterboulle
counterboycott
counterbrace
counterbracing
counterbranch
counterbrand
counterbreastwork
counterbuff
counterbuilding
countercampaign
countercarte
countercathexis
countercase
countercounter
counterclockwise
countercolored
countercolored
countercolored
countercommand
countercommand
countercompetition
countercomplaint
countercompany
countercompany
countercondemnation
counterconditioning
counterconquest
counterconversion
countercouchant
countercoup
countercoupe
countercourant
countercraft
countercriticism
countercross
countercry
countercultural
counterculture
countercultures
counterculturist
countercurrent
countercurrently
countercurrentwise
counterdance
counterdash
counterdecision
counterdeclaration
counterdecree
counterdefender
counterdemand
counterdemonstrate
counterdemonstration
counterdemonstrator
counterdeputation
counterdesire
counterdevelopment
counterdifficulty
counterdug
counterdike
counterdiscipline
counterdisengage
counterdisengagement
counterdistinct
counterdistinction
counterdistinguish
counterdoctrine
counterdogmatism
counterdraft
counterdrain
counterdrive
counterearth
counterend
counterefficiency
countereffort
counterembattled
counterembowed
counterenameled
counterend

counterenergy
counterengagement
counterengine
counterenthusiasm
counterentry
counterequivalent
counterermine
counterspionage
counterestablishment
countererevidence
counterexaggeration
counterexample
counterexamples
counterexcitement
counterexcommunication
counterexercise
counterexplanation
counterexposition
counterexpostulation
counterextend
counterextension
counterfact
counterfactual
counterfactually
counterfallacy
counterfaller
counterfeisance
counterfeit
counterfeited
counterfeiter
counterfeiters
counterfeiting
counterfeitly
counterfeitment
counterfeitness
counterfeits
counterferment
counterfessed
counterfesse
counterfire
counterfix
counterflange
counterflashing
counterfleur
counterflight
counterflory
counterflow
counterflux
counterfoil
counterforce
counterformula
counterfort
counterfugue
countergabble
countergabion
countergage
countergager
countergambit
countergarrison
countergauge
countergauger
countergift
countergirded
counterglow
counterguard
counterguerilla
counterguerrilla
counterhaft
counterhammering
counterhypothesis
counteridea
counterideal
counterimagination
counterimitate
counterimitation
counterimpulse
counterindentation
counterindented
counterindicate
counterindication
counterindoctrinate
counterindoctrination
counterinfluence
countering
counterinsult
counterinsurgencies
counterinsurgency
counterinsurgent
counterinsurgents
counterintelligence
counterinterest
counterinterpretation
counterintrigue
counterintuitive
counterinvective
counterinvestment
counterion
counterirritant
counterirritate
countermount
countermove
countermoved
countermovement
countermoving
countermure
countermutiny
counternaiant
counternarrative
counternatural
counternecromancy
counternoise
counternotice
counterobjection
counterobligation
counteroffensive
counteroffensives
counteroffer
counteropening
counteropponent
counteropposite
counterorator
counterorder
counterorganization
counterpace
counterpaled
counterpaly
counterpane
counterpaned
counterpanes
counterparadox
counterparallel
counterparole
counterparry
counterpart
counterpart's
counterparts
counterpassant
counterpassion
counterpenalty
counterpendent
counterpetition
counterphobic
counterpicture
counterpillar
counterplan
counterplay
counterplayer
counterprotection
counterprotest
counterprove
counterpull
counterpunch
counterpuncher
counterpuncture
counterpush
counterquartered
counterquarterly
counterquery
counterquestion
counterquip
counterradiation
counterraider
counterraiser
counterrampant
counterrate
counterreaction
counterreason
counterreckoning
counterrecoil
counterreconnaissance
counterrefer
counterreflected
counterreform
counterreformation
counterreligion
counterremonstrant
counterreplied
counterreplies
counterreply
counterreplying
counterreprisal
counterresolution
counterrestoration
counterretreat
counterrevolution
counterrevolutionaries
counterrevolutionary
counterrevolutionist
counterrevolutionize
counterrevolutions
counterriposte
counterroll
counterrotating
counterround
counterruin
counters
countersale
countersalient
countersank
counterscale
counterscalloped
counterscarp
counterscoff
countersconce
counterscrutiny
countersea
counterseal
countersecure
countersecurity
counterselection
countersense
counterservice
countershade
countershading
countershaft
countershafting
countershear
countershine
countershock
countershout
counterside
countersiege
countersign
countersignal
countersignature
countersignatures
countersigned
countersigning
countersigns
countersink
countersinking
countersinks
countersleight
counterslope
countersmile
countersnarl
counterspies
counterspy
counterspying
counterstain
counterstain
counterstand
counterstatant
counterstatement
counterstatute
counterstep
counterstimulate
counterstimulation
counterstimulus
counterstock
counterstratagem
counterstream
counterstrike
counterstroke
counterstruggle
countersubject
countersuggestion
countersuit
countersun
countersunk
countersunken
countersurprise
countersway
counterswing
countersworn
countersympathy
countersynod
countertack
countertail
countertally
countertaste
countertechnicality
countertendencies
countertendency
countertenor
countertenors
counterterm
counterterror
counterterrorism
counterterrorist
countertheme
countertheory
counterthought
counterthreat
counterthrust
counterthwarting
countertierce
countertime
countertouch
countertraction
countertrades
countertransference
countertranslation
countertraverse
counterreason
countertree
countertrench
countertrend
countertrespass
countertrippant
countertripping
countertruth
countertug
counterturn
counterturned
countertype
countervail
countervailed
countervailing
countervails
countervair
countervairy
countervallation
countervalue
countervaunt
countervene
countervengeance
countervenom
countervibration
counterview
countervindication
countervolition
countervolley
countervote
counterwager
counterwall
counterwarmth
counterwave
counterweigh
counterweighed
counterweighing
counterweight
counterweighted
counterweights
counterwheel
counterwill
counterwilling
counterwind
counterwitness
coup
coupage
coupe
couped
coupee
coupelet
couper
coupes
couping
couple
coupled
couplement
coupler
coupleress
couplers
couples
couplet
coupleteer
couplets
coupling
couplings
coupon
coupon's
couponed
couponless
coupons
coups
coupstick
coupure
courage
courageous
courageously
courageousness
courager
courages
courant
courante
courantes
couranto
courantoes
courantos
courants
courap
couratari
courb
courbache
courbaril
courbash
covite
covolume
covotary
cow
cowage
cowages
cowal
cowan
coward
cowardice
cowardish
cowardliness
cowardly
cowardness
cowards
cowardy
cowbane
cowbanes
cowbarn
cowbell
cowbells
cowberries
cowberry
cowbind
cowbinds
cowbird
cowbirds
cowboy
cowboy's
cowboys
cowbrute
cowbye
cowcatcher
cowcatchers
cowdie
cowed
cowedly
coween
cower
cowered
cowerer
cowerers
cowering
coweringly
cowers
cowfish
cowfishes
cowgate
cowgirl
cowgirls
cowgram
cowgrass
cowhage
cowhages
cowhand
cowhands
cowheart
cowhearted
cowheel
cowherb
cowherbs
cowherd
cowherds
cowhide
cowhided
cowhides
cowhiding
cowhorn
cowhouse
cowier
cowiest
cowing
cowinner
cowinners
cowish
cowishness
cowitch
cowk
cowkeeper
cowkine
cowl
cowle
cowled
cowleech
cowleeching
cowlck
cowlicks
cowlklike
cowling
cowlings
cowls
cowlstaff
cowman
cowmen
coworker
coworkers
crabfish
crabgrass
crabbhole
crabier
crabit
crablet
crablike
crabman
crabmeat
crabmill
crabs
crabsidle
crabstick
crabut
crabweed
crabwise
crabwood
craccus
crachoir
crack
crackability
crackable
crackableness
crackajack
crackback
crackbrain
crackbrained
crackbrainedness
crackdown
crackdowns
cracked
crackedness
cracker
crackerberries
crackerberry
crackerjack
crackerjacks
crackers
cracket
crackhemp
crackiness
cracking
crackings
crackjaw
crackle
crackled
crackles
crackless
crackleware
cracklier
crackliest
crackling
cracklings
crackly
crackmans
cracknel
cracknels
crackpot
crackpotism
crackpots
crackpottedness
crackrope
cracks
crackskull
cracksman
cracksmen
crackup
crackups
cracky
cracovienne
cracowe
craddy
cradge
cradle
cradleboard
cradlechild
cradled
cradlefellow
cradleland
cradlelike
cradlemaker
cradlemaking
cradleman
cradlemate
cradlemen
cradler
cradlers
cradles
cradleside
cradlesong
cradlesongs
cradletime
cradling
craft
crafted
crafter
craniocele
craniocerebral
cranioclasis
cranioclasm
cranioclast
cranioclasty
craniodidymus
craniofacial
cranognomic
craniognomy
craniognosy
cranigraph
craniographer
craniography
craniod
knio
xidymus
xifacial
ognomic
ognomy
ognosy
igraph
ographer
ography
oid
iological
ologically
ologist
ology
om
omalacia
omaxillary
ometer
ometric
ometrical
ometrically
ometrist
ometry
opagus
opathic
opathy
opharyngeal
opharyngioma
ophore
oplasty
opuncture
irhachischisis
osacral
oschisis
oscopical
oscopist
oscopy
ospinal
ostenosis
ostosis
ota
otubes
craniotome
craniotomies
craniotomy
craniotopography
craniotympanic
craniovertebral
cranium
craniums
crank
crankbird
crankcase
crankcases
crankdisk
cranked
cranker
crankery
crankest
crankier
crankiest
crankily
crankiness
cranking
crankish
crankism
crankle
crankled
crankles
crankless
crankling
crankly
crankman
crankness
crankous
crankpin
crankpins
crankplate
cranks
crankshaft
crankshafts
crankum
cranky
cramnage
crannel
cramnequin
cramnia
crannied
crannies
cramnock
creatininemia
creatins
creatinuria
creation
creational
creationary
creationism
creationist
creationistic
creations
creative
creatively
creativeness
creativity
creatophagous
creator
creator's
creatorhood
creatorrhea
creators
creatorship
creatotoxism
creatress
creatrix
creatural
creature
creature's
creaturehood
creatureless
creatureliness
creatureling
creaturely
creatures
creatureship
creaturize
creaze
crebricostate
crebrisulcate
crebritty
crebrous
creche
creches
creda
credal
creddock
credence
credences
credencive
creedal
creedalism
creedalist
creedbound
creeded
creedist
creedite
creedless
creedlessness
creedmore
creeds
creedsman
creek
creek's
creeker
creekfish
creekfishes
creeks
creekside
creekstuff
creeky
creel
creeded
creeler
creeling
creels
cream
creen
creep
creepage
creepages
creeper
creepered
creeperless
creepers
creephole
creepie
creepier
creepies
creepiest
creepily
creepiness
creeping
creepingly
creepmous
creepmousy
creeps
creepy
crenae
crenallation
crenate
crenated
crenately
crenation
crenature
crenel
crenelate
crenelated
crenelates
crenelating
crenelation
crenelations
crenele
creneled
crenelee
crenelet
creneling
crenellate
crenellated
crenellating
crenellation
crenelle
crenelled
crenelles
crenelling
crenels
crengle
crenic
crenitic
crenology
crenomotherapy
crenula
crenulate
crenulated
crenulation
creodont
creodonts
creole
creoleize
creoles
creolian
creolism
creolite
creolization
creolize
creolized
crimini
criminis
criminogenesis
criminogenic
criminol
criminologic
criminological
criminologically
criminologies
criminologist
criminologists
criminology
criminosis
criminous
criminously
criminousness
crimison
crimmer
crimmers
crimmy
crimogenic
crimp
crimpage
crimped
crimper
crimpers
crimpiest
crimpiestness
crimpiness
crimping
crimp
crimp
crimpled
crimples
crimpling
crimpness
crimps
crimpy
crimson
crimsoned
crimsoning
crimsonly
crimsonness
crimsons
crimsony
crin
crinal
crananite
crinate
crinated
crinary
crinch
crine
crined
crinel
crinet
cringe
cringed
cringeling
cringer
cringers
cringes
cringing
cringly
cringingness
cringle
cringles
crinicultural
criniculture
crinid
criniere
criniferous
crinigerous
crinion
criniparous
crinital
crinite
crinites
crinitory
crinivorous
crink
crinkle
crinkled
crinkleroot
crinkles
crinklier
crinkliest
crinkliness
crinkling
crinkly
crinkum
crinogenic
crinoid
crinoidal
crinoideal
crinoids
crinolette
crinoline

crinolines

crinose

crinosity

crinula

crinum

crinums

criobolium

crioboly

criocephalus

crioceratite

crioceratitic

criolla

criollas

criollo

criollos

criophore

criosphinges

criosphinx

criosphinxes

crip

cripes

crippied

cripple

crippled

crippledom

crippleness

cripler

criplers

cripples

cripling

cripplingly

criply

crips

cris

crises

crisic

crisic

crisis

crisle

crisp

crispate

crispated

crispation

crispature

crispbread

crisped

crispen
crizzled
crizzling
crl
cro
croak
croaked
croaker
croakers
croakier
croakiest
croakily
croakiness
croaking
croaks
croaky
croape
croat
croatian
croc
crocard
croec
croecin
croceine
croceines
croceins
croceous
crocin
croceus
croche
crochet
crocheted
crocheter
crocheters
crocheteur
crocheting
crochets
croci
crociary
crociate
crocidolite
crocin
crocine
crock
crockard
crocked
crocker
crockeries
crockery
crookedly
crookedness
crook
crookeries
crookery
crookesite
crookfingered
crookheaded
crooking
crookkneed
crookle
crooklegged
crookneck
crooknecked
crooknecks
crooknosed
crooks
crookshouldered
crookskid
crookskidnered
crookstermed
crooktoothed
crool
croon
crooned
crooner
crooners
crooning
crooningly
croons
croose
crop
crop's
crophead
cropland
croplands
croplcss
cropman
croppa
cropped
cropper
cropper's
cropurers
croppie
croppies
cropping
cropplecrown
croppy
crops
crossbirth
crossbite
crossbolt
crossbolted
crossbones
crossbow
crossbowman
crossbowmen
crossbows
crossbred
crossbreds
crossbreed
crossbreeding
crossbreeds
crosscheck
crosscourt
crosscroslet
crosscurrent
crosscurrented
crosscurrents
crosscut
crosscuts
crosscutter
crosscutting
crosse
crossed
crosser
crossers
crosses
crossest
crossette
crossfall
crossfertilizable
crossfire
crossfired
crossfiring
crossfish
crossflow
crossflower
crossfoot
crossgrainedness
crosshackle
crosshackle
crosshair
crosshairs
crosshand
crosshatch
crosshatched
crosshatcher
crosstoes
crosstown
crosstrack
crosstree
crosstrees
crosswalk
crosswalks
crossway
crossways
crossweb
crossweed
crosswind
crosswise
crosswiseness
crossword
crossword's
crossworder
crosswords
crosswort
crost
crostarie
crotal
crotalaria
crotalic
crotalid
crotaliform
crotalin
crotaline
crotalism
crotalo
crotaloid
crotalum
crotalus
crotaphic
crotaphion
crotaphite
crotaphitic
crotch
crotcheted
crotcheted
crotcheteer
crotchetiness
crotcheting
crotchets
crotchety
crotching
crotchwood
crotch
crotesco
crotin
croton
crotonaldehyde
crotonate
crotonbug
crotonic
crotonization
crotons
crotonyl
crotonylene
crottal
crottels
crottle
crotyl
crouch
crouchant
crouchback
crouche
crouched
croucher
crouches
crouchie
crouching
crouchingly
crouchmas
crouke
crounotherapy
croup
croupade
croupal
croupe
crouperbush
croupes
croupier
croupiers
croupiest
croupily
croupiness
croupon
croupous
croups
croupy
crouse
crousely
croustade
crowner
crowners
crownet
crownets
crowning
crownland
crownless
crownlet
crownlike
crownling
crownmaker
crownment
crownpiece
crowns
crownwork
crownwort
crows
crowshay
crowstep
crowstepped
crowsteps
crowstick
crowstone
crowtoe
croy
croyden
croydon
croyl
croze
crozed
crozer
crozers
crozes
crozier
croziers
crozings
crozle
crozzle
crozzly
crpe
crs
crts
cru
crub
crubeen
cruce
cruces
crucethouse
crudes
crudest
crudites
crudities
crudity
crude
cruds
crudwort
crudy
crue
crueker
crukest
cruelhearted
cruelize
crueller
cruellest
cruelly
cruelness
cruels
cruelties
cruelty
cruent
cruentate
cruentation
cruentous
crue
cruets
cruety
cruise
cruised
cruiser
cruisers
cruiserweight
cruises
cruiseway
cruising
cruisingly
cruiskeen
cruisken
cruive
crull
cruller
crullers
crum
crumb
crumbable
crumbcloth
crumbed
crusados
cruse
cruses
cruset
cruses
crush
crushability
crushable
crushableness
crushed
crusher
crushers
crushes
crushing
crushingly
crushproof
crusie
crusile
crusilee
crusily
crust
crust's
crusta
crustacea
crustaceal
crustacean
crustacean's
crustaceans
crustaceological
crustaceologist
crustaceology
crustaceorubrin
crustaceous
crustade
crustal
crustalogical
crustalogist
crustalogy
crustate
crustated
crustation
crusted
crustedly
cruster
crustier
crustiest
crustific
crustification
cryobiology
cryocautery
cryochore
cryochoric
cryoconite
cryogen
cryogenic
cryogenically
cryogenics
cryogenies
cryogens
cryogeny
cryohydrate
cryohydric
cryolite
cryolites
cryological
cryology
cryometer
cryometry
cryonic
cryonics
cryopathy
cryophile
cryophilic
cryophoric
cryophorus
cryophyllite
cryophyte
cryoplankton
cryoprobe
cryoprotective
cryoscope
cryoscopic
cryoscopies
cryoscopy
cryosel
cryosphere
cryospheric
cryostase
cryostat
cryostats
cryosurgeon
cryosurgery
cryosurgical
cryotherapies
cryotherapy
cryotron
cryotrons
crypt
crypta
criptaesthesia
cryptal
cryptamnesia
cryptamnesic
cryptanalysis
cryptanalyst
cryptanalytic
cryptanalytical
cryptanalytically
cryptanalytics
cryptanalyze
cryptanalyzed
cryptanalyzing
cryptarch
cryptarchy
crypted
cryptesthesia
cryptesthetic
cryptic
cryptical
cryptically
crypticness
crypto
cryptoagnostic
cryptoanalysis
cryptoanalyst
cryptoanalytic
cryptoanalytically
cryptoanalytics
cryptobatholithic
cryptobranch
cryptobranchiate
cryptocarp
cryptocarpic
cryptocarpous
cryptocephalous
cryptocerous
cryptoclastic
cryptoclimate
cryptoclimatology
cryptococcal
cryptoccci
cryptococcic
cryptococcosis
cryptococcus
cryptocommercial
cryptocrystalline
cryptocrystallization
cryptodeist
cryptodiran
cryptodire
cryptodiros
cryptodouble
cryptodynamic
cryptogam
cryptogame
cryptogamia
cryptogamian
cryptogamic
cryptogamical
cryptogamist
cryptogamous
cryptogamy
cryptogenetic
cryptogenic
cryptogenous
cryptglioma
cryptogram
cryptogrammatic
cryptogrammatical
cryptogrammatist
cryptogrammic
cryptograms
cryptograph
cryptographal
cryptographer
cryptographers
cryptographic
cryptographical
cryptographically
cryptographerist
cryptography
cryptoheresy
cryptoheretic
cryptoinflationist
cryptolite
cryptolith
cryptologic
cryptological
cryptologist
cryptology
cryptolunatic
cryptomere
cryptomeria
cryptomerous
cryptometer
cryptomnesia
cryptomnesic
cryptomonad
cryptonema
cryptoneurous
cryptonym
cryptonymic
cryptonymous
cryptopapist
cryptoperthite
cryptophthalmos
cryptophyte
cryptophytic
cryptopin
cryptopine
cryptoporicus
cryptoproselyte
cryptoproselytism
cryptopyic
cryptopyrrole
cryptorchid
cryptorchidism
cryptorchis
cryptorchism
cryptorrhesis
cryptorrhetic
cryptos
cryptoscope
cryptoscopy
cryptosplenic
cryptostoma
cryptostomate
cryptostome
cryptous
cryptovalence
cryptovalency
cryptovolcanic
cryptovolcanism
cryptoxanthin
cryptozoic
cryptozoite
cryptozonate
cryptozogosity
cryptozygous
cryptozygy
crypts
cryst
crystal
crystal's
crystaled
crystaling
crystalitic
crystallize
crystall
crystalled
crystallic
crystalliferous
crystalliform
crystalligerous
crystallike
crystallin
crystalline
crystalling
crystallinity
crystallisability
crystallisable
crystallisation
crystallise
crystallised
crystallising
crystallite
crystallites
crystallitic
crystallitis
crystallizability
crystallizable
crystallization
crystallize
crystallized
crystallizer
crystallizes
crystallizing
crystalloblastic
crystallochemical
crystallochemistry
crystallod
crystallogenesis
crystallogenetic
crystallogenic
crystallogenical
crystallogeny
crystallogram
crystallograph
crystallographer
crystallographers
crystallographic
crystallographical
crystallographically
crystallography
crystallogy
crystalloid
crystalloidal
crystallology
crystalloluminescence
crystallomagnetic
crystallomancy
crystallometric
crystallometry
crystallophobia
crystallophyllian
crystallose
crystallurgy
crystals
crystalwort
cryste
crystic
crystograph
crystoleum
crystosphene
crzette
cs
csardas
csc
csch
csect
csects
csi
csk
csmp
csnet
csp
cst
csw
cr
cte
cetelette
ciene
ctenidia
ctenidial
ctenidium
cteniform
ctenii
citenidia
citenizid
citenocyst
citenodactyl
citenodont
ctenoid
ctenoidean
ctenoidian
ctenolium
ctenophora
ctenophoral
ctenophoran
ctenophore
ctenophoric
ctenophorous
ctenostomatous
ctenostome
ctetology
ctf
c tg
c tge
c timo
c tn
c to
c tr
c trl
c ts
c u

cuadra
cuadrilla
cuadrillas
cuadrillero
cuamuchil
cuapinole
cuarenta
cuarta
cuartel
cuarteron
cuartilla
cuartillo
cuartino
cuarto
cub
cub’s
cuba
cubage
cubages
cubalaya

cuban
cubane
cubangle
cubanite
cubans
cubas
cubation
cubatory
cubature
cubatures
cubbies
cubbing
cubbish
cubbishly
cubbishness
cubby
cubbyhole
cubbyholes
cubbyhouse
cubbyu
cubbyyew
cubdom
cube
cubeb
cubebs
cubed
cubehead
cubelet
cuber
cubera
cubers
cubes
cubhood
cubi
cubic
cublica
cubical
cubically
cubicalness
cubicities
cubicity
cubicle
cubicles
cubicly
cubicone
cubiccontravariant
cubiccovariant
cuing
cueist
cueman
cuemanship
cuemen
cuerda
cuerpo
cues
cuesta
cuestas
cuff
cuff's
cuffed
cuffer
cuffin
cuffing
cuffle
cuffless
cufflink
cufflinks
cuffs
cuffy
cuffyism
cufic
cuggermugger
cuichunchulli
cuido
cuijo
cuijos
cuif
cuifs
cuinance
cuinfol
 cuiing
cuir
 cuiress
 cuiressed
 cuiresses
 cuiressier
 cuirassing
 cuirie
 cuish
 cuishes
 cuisinary
 cuisine
 cuisines
 cuisinier
 cuissard
cull
culla
cullage
cullas
cullay
cullays
culled
cullender
culler
cullers
cullet
cullet
cullibility
cullible
cullied
cullies
culling
cullion
cullionly
cullionry
cullions
cullis
cullisance
cullises
culls
cully
cullying
culm
culmed
culmen
culmicolous
culmiferous
culmigenous
culminal
culminant
culminate
culminated
culminates
culminating
culmination
culminations
culminative
culming
culms
culmy
culot
culotte
culottes
cultivatable
cultivate
cultivated
cultivates
cultivating
cultivation
cultivations
cultivative
cultivator
cultivator's
cultivators
cultive
cultrate
cultrated
cultriform
cultrirostral
cults
culttelli
cultural
cutable

culturalist
culturally
culture
cultured
cultureless
cultures
culturine
culturing
culturist
culturization
culturize
culturological
culturologically
culturologist
culturology
cultus
cultuses
culver
culverfoot
culverhouse
culverin
culverineer
culveriner
culverins
culverkey
culverkeys
culvers
culvert
culvertage
culverts
culverwort
cum
cumacean
cumaceous
cumal
cumaldehyde
cumaphyte
cumaphytic
cumaphytism
cumara
cumarin
cumarins
cumarone
cumaru
cumay
cumbent
cumber
cumbered
cumberer
cumberers
cumbering
cumberland
cumberlandite
cumberless
cumberment
cumbers
cumbersome
cumbersomely
cumbersomeness
cumberworld
cumbha
cumble
cumbly
cumbraite
cumbrance
cumbre
cumbrous
cumbrously
cumbrousness
cumbu
cumene
cumengite
cumenyl
cumflutter
cumhal
cuminic
cumidin
cumidine
cumin
cuminal
cuminic
cuminoin
cuminol
cuminole
cumins
cuminseed
cuminyl
cumly
cummer
cummerbund
cummerbunds
cummers
cummin
cummingtonite
cummins
cummock
cumol
cump
cumquat
cumquats
cumsha
cumshaw
cumshaws
cumulant
cumular
cumulate
cumulated
cumulately
cumulates
cumulating
cumulation
cumulatist
cumulative
cumulatively
cumulativeness
cumulene
cumulet
cumuli
cumuliform
cumulite
cumulocirrus
cumulonimbus
cumulophyric
cupfulfuls
cupfuls
cuphead
cupholder
cupid
cupidinous
cupidities
cupidity
cupidon
cupidone
cups
cupiuba
cupless
cuplike
cupmaker
cupmaking
cupman
cupmate
cupola
cupolaed
cupolaing
cupolaman
cupolar
cupolas
cupolated
cuppa
cuppas
cupped
cuppen
cupper
cuppers
cuppier
cuppiest
cuppin
cupping
cupplings
cuppy
cuprammonia
cuprammonium
cuprate
cuprein
cupreine
cuprene
cupreous
cupressineous
cupric
cupride
cupriferous
cuprite
cuprites
cuproammonium
cuprobismutite
cuprocyanide
cuprodescloizite
cuproid
cuproiodargyrite
cupromanganese
cupronickel
cuproplumbite
cuproscheelite
cuprose
cuprosilicon
cuprotungstite
cuprous
cuprum
cuprums
cups
cupseed
cupsful
cupstone
cupula
cupulae
cupular
cupulate
cupule
cupules
cupuliferous
cupuliform
cur
cura
curability
curable
curableness
curably
curacao
curacaos
curace
curacies
curacoa
curacoas
curacy
curage
curagh
curaghs
curara
curaras
curbline
curbs
curbside
curbstone
curbstoner
curbstones
curby
curcas
curch
curchef
curches
curchy
curcuddoch
curculio
curculionid
curculionist
curculios
curcuma
curcumas
curcumin
curd
curded
curdier
curdiest
curdiness
curding
curdle
curdled
curdler
curdlers
curdles
curdling
curdly
curdoo
curds
curdwort
curdy
cure
cured
cureless
curelessly
curelessness
curemaster
curer
curers
cures
curet
curets
curettage
curette
curetted
curettament
curettes
curetting
curf
curfew
curfew's
curfewed
curfewing
curfews
curfs
curia
curiae
curiage
curial
curialism
curialist
curialistic
curialities
curiality
curiam
curiara
curiate
curiboca
curie
curiegram
curies
curiescopy
curiet
curietherapy
curin
curine
curing
curio
curiologic
curiologic
curiological
curiologically
curiologics
curiology
curiomaniac
curios
curiosa
curiosi
curiosities
curiosity
curtest
curtesy
curtilage
curlax
curly
curtness
curtnesses
cursey
curseyed
curseying
curseys
curtsied
curtsies
curtsy
curtsy's
curtsying
curua
curuba
curucucu
curucui
curile
curupay
curupays
curupey
cururo
cururos
curvaceous
curvaceously
curvaceousness
curvacious
curval
curvant
curvate
curvated
curvation
curvative
curvature
curvatures
curve
curveball
curved
curvedly
curvedness
curver
curves
curvesome
curvesomeness
curvet
cutes
cutesier
cutesiest
cutest
cutesy
cutey
cuteys
cutgrass
cutgrasses
cutheal
cuticle
cuticles
cuticolor
cuticula
cuticulae
cuticular
cuticularization
cuticularize
cuticulate
cutidure
cutiduris
cutie
cuties
cutification
cutify
cutigeral
cutikin
cutin
cutinisation
cutinise
cutinised
cutinises
cutinising
cutinization
cutinize
cutinized
cutinizes
cutinizing
cutins
cutireaction
cutis
cutisector
cutises
cutitis
cutization
cutlas
cutlases
cutlash
cuttlebone
cuttlebones
cuttled
cuttlefish
cuttlefishes
cuttler
cuttles
cuttling
cuttoe
cuttoo
cuttoos
cutty
cuttyhunk
cutup
cutups
cutwal
cutwater
cutwaters
cutweed
cutwork
cutworks
cutworm
cutworms
cuvage
cuve
cuvee
cuvette
cuvettes
cuvies
cuvy
cuya
cuyas
cuzceno
cv
cwierc
cwm
cwms
cwo
cwrite
cwt
cy
cyaathia
cyamelid
cyamelide
cyamid
cyamoid
cyan
cyanacetic
cyanamid
cyanamide
cyanamids
cyananthrol
cyanate
cyanates
cyanaurate
cyanauric
cyanbenzyl
cyancarbonic
cyanea
cyanean
cyanemia
cyaneous
cyanephidrosis
cyanformate
cyanformic
cyanhidrosis
cyanhydrate
cyanhydric
cyanhydrin
cyanic
cyanicide
cyanid
cyanidation
cyanide
cyanidated
cyanides
cyanidin
cyanidine
cyaniding
cyanidrosis
cyanids
cyanimide
cyanin
cyanine
cyanines
cyanins
cyanite
cyanites
cyanitic
cyanize
cyanized
cyanizing
cyanmethemoglobin
cyano
cyanoacetate
cyanoacetic
cyanoacrylate
cyanoaurate
cyanoauric
cyanobenzene
cyanocarbonic
cyanochlorous
cyanochroia
cyanochroic
cyanocobalamin
cyanocobalamine
cyanocrystallin
cyanoderma
cyanoethylate
cyanoethylation
cyanogen
cyanogenamide
cyanogenesis
cyanogenetic
cyanogenic
cyanogens
cyanoguanidine
cyanohemic
cyanohydrin
cyanol
cyanole
cyanomaclurin
cyanometer
cyanomethaemoglobin
cyanomethemoglobin
cyanometric
cyanometries
cyanometry
cyanopathic
cyanopathy
cyanophil
cyanophile
cyanophilous
cyanophoric
cyanophose
cyanophycean
cyanophyceous
cyanophycin
cyanopia
cyanoplastid
cyanoplatinite
cyanoplatinous
cyanopsia
cyanose
cyanosed
cyanoses
cyanosis
cyanosite
cyanotic
cyanotrichite
cyanotype
cyans
cyanuramide
cyanurate
cyanuret
cyanuric
cyanurin
cyanurine
cyanus
cyaphenine
cyath
cyatheaceous
cyathi
cyathia
cyathiform
cyathium
cyathoid
cyatholith
cyathophylline
cyathophylloid
cyathos
cyathozooid
cyathus
cybele
cybercultural
cyberculture
cybernate
cybernated
cybernating
cybernation
cybernetic
cybernetical
cybernetically
cybernetician
cyberneticist
cyberneticists
cybernetics
cybernion
cyborg
cyborgs
cyc
cycad

cyanosed
cyanoses
cyanosis
cyanosite
cyanotic
cyanotrichite
cyanotype
cyans
cyanuramide
cyanurate
cyanuret
cyanuric
cyanurin
cyanurine
cyanus
cyaphenine
cyath
cyatheaceous
cyathi
cyathia
cyathiform
cyathium
cyathoid
cyatholith
cyathophylline
cyathophylloid
cyathos
cyathozooid
cyathus
cybele
cybercultural
cyberculture
cybernate
cybernated
cybernating
cybernation
cybernetic
cybernetical
cybernetically
cybernetician
cyberneticist
cyberneticists
cybernetics
cybernion
cyborg
cyborgs
cyc
cycad
cycadaceous
cycadean
cycadeoid
cycadeous
cycadiform
cycadite
cycadlike
cycadofilicale

cycadofilicales
cycadofilicinean
cycadophyte
cycads
cyeas
cyeases
cycasin
cycasins
eyl
cyclades
cyclamate
cyclamates
cyclamen
cyclamens
cyclamin
cyclamine
cyclammonium
eylane
cyclanthaceous
cyclar
cyellarthrodial
cyellarthrosis
cyellarthrsis
eylas
cyelase
cyelases
cyelazocine
cyele
cylecar
cylecars
cyeled
cyledom
cylene
cycler
cyclers
cycles
cyclesmith
cyclian
cyclic
cyclical
cyclicality
cyclically
cyclicalness
cyclicism
 cyclicity
 cyclicly
cyclide
cyclindroid
cycling
eyelings
cyclism
cyclist
cyclistic
cyclists
cyclitic
cyclitis
cyclitol
cyclitols
cyclization
cyclize
cyclized
cyclizes
cyclizing
cyclo
cycloacetylene
cycloaddition
cycloaliphatic
cycloalkane
cyclobutane
cyclocephaly
cyclococetic
cyclococelous
cyclode
cyclodiene
cyclodiolefin
cyclodiolefine
cycloganoid
cyclogenesis
cyclogram
cyclograph
cyclographer
cycloheptane
cycloheptanone
cyclohexadienyl
cyclohexane
cyclohexanol
cyclohexanone
cyclohexatriene
cyclohexene
cycloheximide
cyclohexyl
cyclohexylamine
cycloid
cycloid's
cycloidal
cycloiddally
cycloidean
cycloidian
cycloidotope
cycloids
cyclolith
cyclolysis
cyclomania
cyclometer
cyclometers
cyclometric
cyclometrical
cyclometries
cyclometry
cyclomyarian
cyclonal
cyclone
cyclone's
cyclones
cyclonic
cyclonical
cyclonically
cyclonist
cyclonite
cyclonologist
cyclonology
cyclonometer
cycloscope
cycloolefin
cycloolefine
cycloolefinic
cyclop
cyclopaedia
cyclopaedias
cyclopaedic
cyclopaedically
cyclopaedist
cycloparaffin
cyclope
cyclopean
cyclopedia
cyclopedias
cyclopedic
cyclopedical
cyclopedically
cyclopedist
cyclopentadiene
cyclopentane
cyclopentanone
cyclopentene
cyclopes
cyclophoria
cyclophoric
cyclophosphamide
cyclophrenia
cyclopa
cyclopic
cycloplasm
cyclopentane
cyclopelgias
cyclopelic
cyclopoid
cyclopropane
cyclops
cyclopteroid
cyclopterous
cyclopy
cyclorama
cycloramas
cycloramic
cyclorrhaphous
cyclos
cycloscope
cyclose
cycloserine
cycloses
cyclosilicate
cyclosis
cyclospemrous
cyclospondylidy
cyclospondylous
cyclosporous
cyclostomate
cyclostomatous
cyclostome
cyclostomous
cyclostrophic
cyclostylar
cyclostyl
cyclothem

cyclothure

cyclothurine

cyclothyme

cyclothymia

cyclothymiac

cyclothymic

cyclotome

cyclotomic

cyclotomies

cyclotomy

cyclotrimethylenetrinitramine

cyclotron

cyclotrons

cyclovertebral

cyclus

cyder

cyders

cydippe

cydippian

cydippid

cydon

cydonium

cyces

cyesiology

cyesis

cyetic

cygeneous

cygonet

cygnet

cygnets

cygnine

cygnus

cyke

cyl

cylices

cylinder

cylinder's

cylindered

cylinderer

cylindering

cylinderlike

cylinders

cylindraceous

cylindrarthrosis

cylindrelloid

cylindrenchema

cylindrenchyma

cylindric
cylindrical
cylindricality
cylindrically
cylindricalness
cylindricity
cylindricule
cylindriform
cylindrite
cylindrocellular
cylindrocephalic
cylindroconical
cylindroconoidal
cylindrocyllindric
cylindrodendrite
cylindrograph
cylindroid
cylindroidal
cylindroma
cylindromata
cylindromatous
cylindrometric
cylindroogival
cylindruia
cylix
cylloses
cyllosis
cyma
cymae
cymagraph
cymaise
cymaphen
cymaphyte
cymaphytic
cymaphytism
cymar
cymarin
cymarose
cymars
cymas
cymatia
cymation
cymatum
cymba
cymbaefform
cymbal
cymbal's
cymbaled
cymbaleer
cymbaler
cymbalers
cymbaline
cymbalist
cymbalists
cymballed
cymballike
cymballing
cymbalo
cymbalom
cymbalon
cymbals
cymbate
cymbel
cymbid
cymbidium
cymbiform
cymblin
cymbling
cymblings
cymbocephalic
cymbocephalous
cymbocephaly
cyme
cymelet
cymene
cymenes
cymes
cymiferous
cymlin
cymling
cymlings
cymlings
cymbotryose
cymogene
cymogenes
cymograph
cymographic
cymoid
cymol
cymols
cymometer
cymophane
cymophonous
cymophenol
cymophobia
cymoscope
cymose
cymosely
cymotrichous
cymotrichy
cymous
cymric
cymrite
cymry
cymtia
cymule
cymulose
cynanche
cynanthropy
cynaraceous
cynarctomachy
cynareous
cynaroid
cynebot
cynegetic
cynegetics
cynegild
cynghanedd
cynhyena
cyniatria
cyniatrics
cynic
cynical
cynically
cynicalness
cynicism
cynicisms
cynicist
cynics
cynipid
cynipidous
cynipoid
cynips
cynism
cynocephalic
cynocephalous
cynocephalus
cynoclept
cynocrambaceous
cynodictis
cynodon
cynodont
cynogenealogist
cynogenealogy
cynography
cynoid
cynology
cynomolgus
cynomoriaceous
cynomorphic
cynomorphous
cynophile
cynophilic
cynophilist
cynophobe
cynophobia
cynopathic
cynopodous
cynorrhoda
cynorrhodon
cynosural
cynosure
cynosures
cynotherapy
cynthia
cyp
cyperaceous
cyperus
cyphella
cyphellae
cyphellate
cypher
cyphered
cyphering
cyphers
cyphonautes
cyphonism
cyphosis
cyprea
cypraeid
cypraciform
cypraeoid
cypre
cypres
cyprees
cypress
cypressed
cypressess
cypressroot
cyprian
cyprians
cyprid
cypridinoid
cyprine
cyprinid
cyprinids
cypriniform
cyprinin
cyprinine
cyprinodont
cyprinodontoid
cyprinoid
cyprinoidean
cypriot
cypriote
cypriotes
cypriots
cypripedin
cypripedium
cypris
cyproheptadine
cyproterone
cyprus
cypruses
cypsela
cypselae
cypseliform
cypseline
cypsloid
cypselmorph
cypselmorphic
cypselous
cryptozoic
cyrenaic
cyrrillaceous
cyrrillic
cyriologic
cyriological
cyrtoceracone
cyrtoceratite
cyrtoceratitic
cyrtographe
cyrtolite
cyrtometer
cyrtopia
cyrtosis
cyrtostyle
cyrtus
cyst
cystadenoma
cystadenosarcoma
cystal
cystalgia
cystamine
cystaster
cystathionine
cystatrophia
cystatrophy
cysteamine
cystectasia
cystectasy
cystectomies
cystectomy
cysted
cystein
cysteine
cysteines
cysteinic
cysteins
cystelcosis
cystenchyma
cystenchymatous
cystenchyme
cystencyte
cysterethism
cystic
cysticarpic
cysticarpium
cysticercerci
cysticerci
cysticercoid
cysticercoidal
cysticercosis
cysticercus
cysticerus
cysticle
cysticolous
cystid
cystidean
cystidia
cystidicolous
cystidium
cystidiums
cystiferous
cystiform
cystigerous
cystignathine
cystin
cystine
cystines
cystinosis
cystinuria
cystirrhea
cystis
cystitetides
cystititis
cystitome
cystoadenoma
cystocarcinoma
cystocarp
cystocarpic
cystocele
cystocolostomy
cystocyte
cystodynia
cystoelytroplasty
cystoenterocele
cystoepiplocele
cystoepithelioma
cystofibroma
cystoflagellate
cystogenesis
cystogenous
cystogram
cystoid
cystoideal
cystoids
cystolith
cystolithectomy
cystolithiasis
cystolithic
cystoma
cystomas
cystomata
cystomatous
cystometer
cystomorphous
cystomyoma
cystomyxoma
cystonectous
cystonephrosis
cystoneuralgia
cystoparalysis
cystophore
cystophotography
cystophthisis
cystoplasty
cystoplegia
cystoproctostomy
cystoptosis
cystopyelitis
cystopyelography
cystopyelonephritis
cystoradiography
cystorrhagia
cystorrhaphy
cystorrhea
cystsarcoma
cystoschisis
cystoscope
cystoscopic
cystoscopies
cystoscopy
cystose
cystospasm
cystospastic
cystospore
cystostomies
cystostomy
cystsyrinx
cystotome
cystotomies
cystotomy
cystotrichelotomy
cystoureteritis
cystourethritis
cystourethrogram

cystous
cysts
cytase
cytastic
cytaster
cytasters
cythera
cytherea
cytherean
cytidine
cytidines
cytinaceous
cytiolobezm

cytioloderm

cytioloderm

cytisine
cytisus
cytitis
cytoanalyzer
cytoarchitectural
cytoarchitecturally
cytoarchitecture
cytoblast
cytoblastema
cytoblastemal
cytoblastematous
cytoblastemic
cytoblastemous
cytocentrum
cytochalin
 cytochemical
cytochemistry
cytochrome
cytochylema
cytoide
cytoclastic
cytococci
cytococcus
cytocyst
cytode
cytodendrite
cytoderm
cytodagnosis
cytodieresis
cytodieretic
cytodifferentiation
cytoecology
cytogamy
cytoe

cytogene
cytogenesis
cytogenetic
cytogenetical
cytogenetically
cytogeneticist
cytogenetics
cytogenic
cytogenies
cytogenous
cytogeny
cytoglobulin
cytogenesis
cytokinesis
cytokinetic
cytokinin
czardas
czardases
czardom
czardoms
czarevitch
czarevna
czarevnas
czarian
czaric
czarina
czarinas
czarinian
czarish
czarism
czarisms
czarist
czaristic
czarists
czaritza
czaritzas
czarowitz
czarowitz
czars
czarship
czech
czechoslovak
czechoslovakia
czechoslovakian
czechoslovakians
czechoslovaks
czechs
czigany
d
d'
d'accord
d'art
d'etat
d'oeuvre
d's
da
daalder
dab
dabb
dabba
dabbed
dabber
dabbers
dabbing
dabble
dabbled
dabbler
dabblers
dabbles
dabbling
dabblingly
dabblingness
dabblings
dabby
dabchick
dabchicks
dabet
daboia
daboya
dabs
dabster
dabsters
dabuh
dace
dacelonine
daces
dacha
dachas
dachs
dachshound
dachshund
dachshunde
dachshunds
dacite
dacitic
dacker
dackered
dackering
dackers
dacoit
dacoitage
dacoited
dacoities
dacoiting
dacoits
dacoity
dacron
dacrya
dacryadenalgia
dacryadenitis
dacryagogue
dacrycrystalgia
dacryd
dacryelcosis
dacryoadenalgia
dacryoadenitis
dacryoblenorrhea
dacryocele
dacryocyst
dacryoadenalgia
dacryoadenitis
dacryocystitis
dacryocystoblenorrhea
dacryocystocele
dacryocystoptosis
dacryocystorhinostomy
dacryocystosyringotomy
dacryocystotome
dacryocystotomy
dacryohelcosis
dacryohemorrhea
dacryolin
dacryolite
dacryolith
dacryolithiasis
dacryoma
dacryon
dacryops
dacryopyorrhea
dacryopyosis
dacryorrhea
dacryosolenitis
dacryostenosis
dacryosyrinx
dacryuria
dactyl
dactylar
dactylate
dactyi
dactylic
dactylically
dactylics
dactylioglyph
dactylioglyphic
dactylioglyphist
dactylioglyptic
dactylioglyphy
dactyliographer
dactyliographic
dactyliography
dactyliology
dactyliomancy
dactylion
dactyliotheca
dactylist
dactylitic
dactylitis
dactylogram
dactylograph
dactylographer
dactylographic
dactylography
dactyloid
dactylologies
dactylogy
dactylomegaly
dactylonomy
dactylopagium
dactylopodite
dactylopore
dactylorhiza
dactyloscopic
dactyloscopy
dactylose
dactylosternal
dactylosymphysis
dactylotheca
dactylyous
dactylozooid
dactyls
dactylus
dacyorrhea
dad
dad's
dada
dadaism
dadaisms
dadaist
dadaistic
dadaistically
dadaists
dadap
dadas
dadburned
dadder
daddies
dadding
daddle
daddled
daddles
daddling
daddock
daddocky
daddums
daddy
daddynut
da
dadenhudd
dading
dado
dadoed
dadoes
dadoing
dados
dadouchos
dads
daduchus
da
daedal
daedaleous
daedalian
daedalist
daedaloid
daedalous
daedalus
daekon
daemon
daemon’s
daemones
daemonian
daemonic
daemonies
daemonistic
daemonology
daemons
daemonurgist
daemonurgy
daemony
daer
daeva
dauff
dauffadillies
dauffadilly
daффadowndillies
daффadowndilly
daффed
daффery
daffier
daftest
daftiness
daffing
daftish
daflle
daflled
daflling
daflodil
daflodil's
daflodilies
daflodilly
daflodils
daflodowndillies
daflodowndilly
daflfs
daflfy
daflfydowndilly
daft
daftar
daftar dar
daftberry
dafter
daftest
daftlike
daftly
daftness
daftnesses
dag
dagaba
dagame
dagassa
dagash
dagga
daggar
dagged
dagger
daggerboard
daggerbush
daggered
daggering
daggering
daughter
daughterlike
daughterproof
daggers
dagging
daggle
daggled
daggles
damenization
dames
damewort
dameworts
damfool
damfoolish
damiana
damie
damier
damine
damkjernite
damlike
dammar
dammara
dammaret
dammars
damme
dammed
dammer
dammers
damming
dammish
dammit
damn
damnabilities
damnability
dammable
damnableness
damnably
damnation
damnatory
damndest
damndests
dammed
dammeder
dammedest
dammer
damners
damnification
damnificatus
damnified
damnifies
damnify
damnifying
damning
damningly
damningness
damnit
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 4188
daneworts
dang
danged
danger
danger's
dangered
dangerful
dangerfully
dangering
dangerless
dangerous
dangerously
dangerousness
dangers
dangersome
danging
dangle
dangleberries
dangleberry
dangled
danglement
dangler
danglers
dangles
danglin
dangling
danglingly
dangs
danic
danicism
daniel
danio
danios
danish
danism
dank
danke
danker
dankest
dankish
dankishness
dankly
dankness
danknesses
danli
dannebrog
dannemorite
danner
dappled
dappledness
dappleness
dapples
dappling
daps
dapson
dar
darabukka
darac
daraf
darapti
darat
darb
darbha
darbies
darbs
darbukka
darby
darbyism
darcy
dard
dardan
dardanarius
dardanium
dardaol
dare
dareall
dared
daredevil
daredevilism
daredevilry
daredevils
daredeviltry
dareful
daren't
darer
darers
dares
daresay
darg
dargh
darger
darggsman
dargue
dari
daribah
daric
daws
dawsoniaceous
dawsonite
dawt
dawted
dawtet
dawtie
dawties
dawting
dawtit
dawts

dawut
day
day's
dayabhaga
dayak
dayal
dayan
dayanim
daybeacon
daybeam
daybed
daybeds
dayberry
daybill
dayblush
daybook
daybooks
dayboy
daybreak
daybreaks
daydawn
daydream
daydreamed
daydreamer
daydreamers
daydreaming
daydreamlike
daydreams
daydreamt
daydreamy
daydrudge
dayflies
dayflower
dayflowers
dayfly
dayglow
dayglows
daygoing
daying
dayless
daylight
daylight's
daylighted
daylighting
daylights
daylilies
daylily
daylit
daylong
dayman
daymare
daymares
daymark
daymen
dayment
daynet
daypeep
dayroom
dayrooms
days
dayshine
dayside
daysides
daysman
daysmen
dayspring
daystar
daystars
daystreak
daytale
daytide
daytime
daytimes
dayton
dayward
daywork
dayworker
daywrit
daze
dazed
dazedly
dazedness
dazement
dazes
dazing
deaconhood
deaconing
deaconize
deaconries
deaconry
dacons
daconship
deactivate
deactivated
deactivates
deactivating
deactivation
deactivations
deactivator
deactivators
dead
deafbeat
deafbeats
deafborn
deadcenter
deaden
deadened
deadener
deadeners
deadening
deadingingly
deadens
deader
dearest
deadeye
deadeyes
deaffall
deaffalls
deafflat
deadhand
deadhead
deadheaded
deading
deading

deadish
deadishly
deadishness
deadlatch
deadlier
deadliest
deadlight
deadlily
deadline
deadline's
deadlines
deadliness
deadlock
deadlocked
deadlocking
deadlocks
deadly
deadman
deadmelt
deadmen
deadness
deadliness
deap

deapth

deapening

deapenning

deapens

deapay

deadrise

deadrize

deads
deadtongue

deadweight

deadwood
deadwoods

deadwork

deadworks

deadwort
deady
dearate
dearated
dearerates
dearerating
dearation
dearator
dead

defen

defenened

defenening
defeneningly
deafens
defer
deatest
deafforest
deafforestation
deafish
deafly
deafmutesness
deafness
deafnesses
deair
deaired
deairing
deairs
deal
dealable
dealate
dealated
dealates
dealation
dealbate
dealbation
dealbuminize
dealcoholist
dealcoholization
dealcoholize
dealer
dealerdom
dealers
dealership
dealerships
dealfish
dealfishes
dealing
dealings
dealkalize
dealkylate
dealkylation
deallocate
deallocated
deallocates
deallocating
deallocations
deals
dealt
deambulate
deambulation
deaths
deathshot
deathsman
deathsmen
deathertime
deathtrap
deathtraps
deathward
deathwards
deathwatch
deathwatches
deathweed
deathworm
deathy
deaurate
deave
deaved
deavely
deaves
deaving
deb
debackate
deacle
deacles
debadge
debag
debagged
debagging
debamboozle
debar
debarbarization
debarbarize
deback
debackation
debackations
debacked
debacking
debackment
debacks
debarment
debarance
debarass
debarration
debarred
debarring
debars
debase
debased
debtors
deptorship
depts
debug
debugged
debugger
debugger's
debuggers
debugging
debugs
defullition
defunk
defunked
defunker
defunkers
defunking
defunkment
defunks
defburr
defburse
defbus
defbused
defusing
defussed
defussing
defussy
defbut
defbutant
defbutante
defbutantes
defbutants
defubuted
defubuting
defubs
defbye
defbyes
dec
decachord
decad
decadactyious
decadal
decadally
decadarch
decadarchy
decadary
decadation
decade
decade's
decadence
decadency
decadent
decadentism
decadently
decadents
decadenza
decades
decadescent
decadi
decadianome
decadic
decadist
decadrachm
decadrachma
decadrachmae
decaedron
decaesarize
decaffeinate
decaff'inated
decaff'inates
decaff'inating
decaff'inize
decafid
decagon
decagonal
decagonally
decagons
decagram
decagramme
decagrams
decagynous
decahedra
decaedral
decaehedrodra
decaehedron
decaehedrons
decahydrate
decahydrated
decahydronaphthalene
decal
decalage
decalification
decalified
decalifier
decalifies
decalify
decalifying
decarbonized
decarbonizer
decarbonizing
decarbonylate
decarbonylated
decarbonylating
decarbonylation
decarboxylase
decarboxylate
decarboxylated
decarboxylating
decarboxylation
decarboxylization
decarboxylize
decarburation
decarburisation
decarburise
decarburised
decarburising
decarburization
decarburize
decarburized
decarburizing
decarch
decarchies
decarchy
decard
decardinalize
decare
decares
decarinus
decarnate
decarnated
decart
decartelization
decartelize
decartelized
decartelizing
decasemic
decasepalous
decaspermal
decaspermous
decast
decastellate
decastere
decastich
decastylar
decastyle
deceitfully
deceitfulness
deceits
deceivability
deceiveable
deceivableness
deceivably
deceivance
deceive
deceived
deceiver
deceivers
deceives
deceiving
deceivably
decelerate
decelerated
decelerates
decelerating
deceleration
decelerations
decelerator
decelersors
decelerometer
deceleron
decem
december
decembrist
decemcostate
decemdentate
decemfid
decemflorous
decemfoliate
decemfoliolate
decemjugate
decemlocular
decempartite
decempeda
decempedal
decempedate
decempennate
decemplex
decemplicate
decempunctate
decemstriate
decemviri
decemvii
decemvir
decentres
decentering
decenyl
deccephalization
deccephalize
decceptibility
decceptible
decception
decception's
decessional
decensions
decipient
decipiently
decipientness
decipiently
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
decipient's
deceptional
deceptional
deceptious
deceptiously
deceptitious
deceptive
deceptively
deceptiveness
deceptivity
decepy
decerbrate
decerebrated
decerebrating
decerebration
decerebrize
decern
decerned
decerning
decerniture
decernment
decerns
decerp
decertation
decertification
decertificaton
decertified
decertify
decertifying
decess
decession
decessit
decessor
deharm
dechemicalization
dechemicalize
dechenite
dechlore
dechloridation
dechloridize
decile
deciles
deciliter
deciliters
decilitre
decillion
decillionth
decima
decimal
decimalisation
decimalise
decimalised
decimalising
decimalism
decimalist
decimalization
decimalize
decimalized
decimalizes
decimalizing
decimally
decimals
decimate
decimated
decimates
decimating
decimation
decimator
decime
decimestrial
decimeter
decimeters
decimetre
decimetres
decimolar
decimole
decimosexto
decimus
decine
decinormal
decipher
decipherability
decipherable
decipherably
deciphered
decipherer
deciphering
decipherment
declaiming
declams
declamando
declamation
declamations
declamator
declamatoriness
declamatory
declarable
declarant
declaration
declaration's
declarations
declarative
declaratively
declaratives
declarator
declaratorily
declarators
declaratory
declare
declared
declaredly
declaredness
declarer
declarers
declares
declaring
declasse
declasse
declasse
declasse
declasse
declasse
declasse
declasse
declasse
declasse
declascize
declassification
declassifications
declassified
declassifies
declassify
declassifying
declassing
declension
declensional
declensionally
declensions
declericalize
declimatize
declinable
decoding
decodings
decohere
decoherence
decoherer
decohesion
decoic
decoke
decoll
decollate
decollated
decollating
decollation
decollator
decolletage
decollete
decollimate
decolonisation
decolonise
decolonised
decolonising
decolonization
decolonize
decolonized
decolonizes
decolonizing
decolor
decolorant
decolorate
decoloration
decolored
decolorimeter
decoloring
decolorisation
decolorise
decolorised
decoloriser
decolorising
decolorization
decolorize
decolorized
decolorizer
decolorizing
decolors
decolour
decolouration
decoloured
decolouring
decolourisation
decolourise
decolourised
decolouriser
decolourising
decolourization
decolourize
decolourized
decolourizer
decolourizing
decolours
decommission
decommissioned
decommissioning
decommissions
decompensate
decompensated
decompensates
decompensating
decompensation
decompensations
decompensatory
decompile
decompiler
decomplex
decomponent
decomponible
decomposability
decomposable
decompose
decomposed
decomposer
decomposers
decomposes
decomposing
decomposite
decomposition
decomposition's
decompositional
decompositions
decomposure
decomposed
decompress
decompressed
decompresses
decompressing
decompression
decompressions
decompressive
deconcatenate
deconcentrate
deconcentrated
deconcentrating
deconcentration
deconcentrator
decondition
decongest
decongestant
decongestants
decongested
decongesting
decongestion
decongestive
decongests
deconsecrate
deconsecrated
deconsecrating
deconsecration
deconsider
deconsideration
decontaminate
decontaminated
decontaminates
decontaminating
decontamination
decontaminations
decontaminative
decontaminator
decontaminators
decontrol
decontrolled
decontrolling
decontrols
deconventionalize
deconvolution
deconvolve
de copperization
de copperize
decor
decorability
decorable
decorably
decorament
decorate
decrassify
decream
decrease
decreased
decreaseless
decreases
decreasing
decreasingly
decreation
decreative
decree
decreeable
decreed
decreeing
decrement
decreeer
decreers
decrees
decreet
decreing
decrement
decremental
decremented
decrementing
decrementless
decrements
decremeter
decrepid
decrept
decrepitate
decrepitated
decrepitating
decrepitation
decrepitly
decrepitness
decrepiditude
decrepy
decreptitude
decreptitude
decresc
decrescence
decrescendo
decrescendos
decrescent
decretal
decretalist
decretals
decrete
decretion
decretist
decretive
decretively
derectorial
derectorian
derectorily
derectorory
derectum
decrew
decrial
decrinals
decried
decrier
decriers
decries
decriminalization
decriminalize
decriminalized
decriminalizes
decriminalizing
decrown
decrowned
decrowning
decrows
decrudescent
decrustation
decry
decrying
decrypt
decrypted
decrypting
decryption
decryptions
decryptograph
decrypts
decrystallization
decubation
decubital
decubiti
decubitus
decultivate
deculturate
decuman
decumana
decumani
decumanus
decumary
decumbence
decumbency
decumbent
decumbently
decumbiture
decuple
decupled
decuples
decuplet
decupling
decuria
decuries
decurion
decurionate
decurions
decurrence
decurrences
decurrencies
decurrency
decurrent
decurrently
decurring
decurion
decursive
decursively
decurt
decurtate
decurvature
decurvature
decurve
decurved
decurves
decurving
decury
decus
decuss
decussate
decussated
decussately
decussating
decussation
decussatively
decussion
decussis
decussoria
decussorium
decwriter
decyl
decylene
decylenic
decylic
decyne
deda
dedal
dedans
dedd
deddy
dedecorate
dedecoration
dedecorous
dedenda
dedendum
dedentition
dedicant
dedicate
dedicated
dedicatedly
dedicatee
dedicates
dedicating
dedication
dedical
dedications
dedicator
dedicatorial
dedicatorily
dedicators
dedictory
dedication
dedifferentiate
dedifferentiated
dedifferentiating
dedifferentiation
dedignation
dedimus
dedit
deditician
dediticiancy
dedition
dedo
dedoggerelize
dedogmatize
dedolence
dedolent
dedolomitization
dedolomitize
dedolomitized
dedolomitizing
deduce
deduced
deducement
dducer
duces
deducibility
deduceable
deducibleness
deducibly
deducing
deductive
deduct
deducted
deductibility
deductible
deductibles
deductile
deducting
deductio
deduction
deduction's
deductions
deductive
deductively
dedictory
deducts
deduit
deduplication
deed
decodder
deed
deedbote
deedbox
deeded
deedeed
deedful
deedfully
deedholder
deedier
deediest
deedily
deediness
deeding
deedless
deeds
dedy
deejay
deejays
dek
dee
deemed
deeemer
deeeming
deephasis
deephasize
deephasized
deephasizes
deephasizing
deems
deeister
deeisters
deeistership
deeper
deeny
deep
deepen
deepanied
deeper
depener
deeperens
deeening
deeeneningly
deeepens
deeper
deepest
deeepfreeze
deeepfreezed
deeepfreezing
deeepfroze
deeepfrozen
deeepgoing
deeeping
deeepish
deeplier
deeeply
deeepmost
deeepmouthed
deeepness
deeepnesses
deeeps
deeepsome
deeepwater
defats
defatted
defatting
default
defaultant
defaulted
defaulter
defaulters
defaulting
defaultless
defaults
defaulture
defeasance
defeasanced
defease
defeasibility
defeasible
defeasibleness
defeasive
defeat
defeated
defeatee
defeater
defeaters
defeating
defeatism
defeatist
defeatists
defeatment
defeats
defeature
defecant
defecate
defecated
defecates
defecating
defecation
defecator
defect
defected
defecter
defecters
defectibility
def ectible
defecting
defection
defection's
defectionist
defections
defectious
defective
defectively
defectiveness
defectless
defectlessness
defectology
defector
defectors
defectoscope
defects
defectum
defectuous
defedation
defeise
defeit
defeminisation
defeminise
defeminised
defeminising
defeminization
defeminize
defeminized
defeminizing
defence
defenceable
defenceless
defencelessly
defencelessness
defences
defencive
defend
defendable
defendant
defendant's
defendants
defended
defender
defenders
defending
defendress
defends
defenestrate
defenestrated
defenestrates
defenestrating
defenestration
deflagrability
deflagrable
deflagrate
deflagrated
deflagrates
deflagrating
deflagration
deflagrations
deflagrator
deflate
deflated
deflater
deflates
deflating
deflation
deflationary
deflationist
deflations
deflator
deflators
deflea
defleaed
defleaing
defleas
deflect
deflectable
deflected
deflecting
deflection
deflectional
deflectionization
deflectionize
deflections
deflective
deflectometer
deflector
deflectors
deflects
deflesh
deflex
deflexed
deflexibility
deflexible
deflexing
deflexion
deflexionize
deflexure
deflocculant
defraudment
defrauds
defray
defrayable
defrayal
defrayals
defrayed
defrayer
defayers
defraying
defrayment
defrays
defreeze
defricing
defrock
defrocked
defrocking
defrocks
defrost
defrosted
defroster
defrosters
defrosting
defrosts
defs
deft
defter
defterdar
deftest
defty
deftness
deftnesses
defunct
defunction
defunctionalization
defunctionalize
defunctive
defunctness
defuse
defused
defuses
defusing
defusion
defuze
defuzed
defuzes
defuzing
defy
defying
defyingly
deg
degage
degame
degames
degami
degamis
deganglionate
degarnish
degas
degases
degasification
degasifier
degasify
degass
degassed
degasser
degassers
degasses
degassing
degauss
degaussed
degausser
degausses
degaussing
degelatinize
degelation
degender
degener
degeneracies
degeneracy
degeneralize
degenerate
degenerated
degenerately
degenerateness
degenerates
degenerating
degeneration
degenerationist
degenerations
degenerative
degeneratively
degenerescence
degenerescent
degeneroos
degeneroos
degentilize
degerm
degermed
degerminate
degerminator
degerming
degerms
degged
degger
degging
deglaciation
deglamorization
deglamarize
deglamarized
deglamarizing
deglaze
deglazed
deglazes
deglazing
deglory
deglut
deglute
deglutinate
deglutinated
deglutinating
deglutination
deglutition
deglutitious
deglutitive
deglutitory
deglycerin
deglycerine
degold
degomme
degorder
degorge
degradability
degradable
degradand
degradation
degradation's
degradational
degradations
degradative
degrade
degraded
degradedly
degradedness
degradement
degrader
degraders
degrades
degraded
degradation
degrain
degranulation
degras
degratia
degravate
degrease
degreased
degreaser
degree
degree's
degreed
degreeing
degreeless
degrees
degree-wise
degression
degressive
degressively
degringolade
degu
deguelin
degum
degummed
degummer
degumming
degums
degust
degustate
degustation
degusted
degusting
degusts
dehache
dehair
dehairer
deheathenize
dehepatize
dehepatize
dehydrates
dehydrating
dehydracion
dehydrator
dehydrators
dehydrorascorber
dehydrorochlorinase
dehydrorochlorinate
dehydrorochlorination
dehydrorocorticostereone
dehydrorocorydaline
dehydrorofroze
dehydrorofrozen
dehydrorofreeze
dehydrorofreezing
dehydrorofroze
dehydrorofrozen
dehydrorgenase
dehydrorgenate
dehydrorgenated
dehydrorgenates
dehydrorgenating
dehydrorgenation
dehydrorgenisation
dehydrorgenise
dehydrorgenised
dehydrorgeniser
dehydrorgenising
dehydrorgenising
dehydrorgenization
dehydrorgenize
dehydrorgenized
dehydrorgenizer
dehydrormucic
dehydrorretinol
dehydrorsparteine
dehydrorostestosterone
dehyprnotize
dehyprnotized
dehyprnotizing
dei
delia
dectate
deice
deiced
deicer
deciers
decies
decidal
deicide
deicides
deicing
deictic
deictical
deictically
deidealize
deific
deifical
deification
deifications
deificatory
deified
deifier
deifiers
deifies
deiform
deiformity
deify
deifying
deign
deigned
deigning
deignous
deigns
deil
deils
deincrustant
deindividualization
deindividualize
deindividualuate
deindustrialization
deindustrialize
deink
deinos
deinosaur
deinstitutionalization
deinsularize
deintellectualization
deintellectualize
deionization
deionizations
deionize
deionized
deionizer
deionizes
deionizing
deipara
deiparous
deipnodiplomatic
deipnophobia
deipnosophism
deipnosophist
deipnosophistic
deipotent
deirid
deis
deisal
deisidaimonia
deisin
deism
deisms
deist
deistic
deistical
deistically
deisticalness
deists
deitate
deities
deity
deity’s
deityship
deixis
deja
deject
dejecta
dejected
dejectedly
dejectedness
dejectile
dejecting
dejection
dejections
dejectly
dejectory
dejects
dejecture
dejerate
dejeration
dejerator
dejeune
dejeuner
dejeuners
dejunkerize
dekadarchy
dekadrachm
dekagram
dekagramme
dekagrams
dekaliter
dekaliters
dekalitre
dekameter
dekameters
dekametre
dekaparsec
dekapode
dekarch
dekare
dekares
dekastere
déke
deked
dekes
deking
dekko
dekkos
dekle
deknight
del
delabialization
delabialize
delabialized
delabializing
delace
delacerate
delacrimation
delactation
delaine
delaines
delaminate
delaminated
delaminating
delamination
delapse
delapsion
delassation
delassement
delate
delated
delater
delates
delating
delatinization
delatinize
delation
delations
delative
delator
delatorian
delators
delaw
delaware
delawarean
delawn
delay
delayable
delayage
delayed
delayer
delayers
delayful
delaying
delayingly
delays
de
delead
deleaded
deleading
deleads
deleatur
deleble
delectability
delectable
delectableness
delectably
delectate
delectated
delectating
delectation
delectations
delectible
delectus
deled
deleerit
delegable
delegeries
delegency
delegalize
delegalized
delegalizing
deliberated
deliberately
deliberateness
deliberates
deliberating
deliberation
deliberations
deliberative
deliberatively
deliberativeness
deliberator
deliberator's
deliberators
delible
delicacies
delicacy
delicacy's
delict
delicate
delicately
delicateness
delicates
delicatessen
delicatessens
delice
delicense
deliciæ
deliciate
delicioso
delicious
deliciouses
deliciously
deliciousness
delict
delicti
delicto
delicts
delictual
delictum
delictus
delieret
delies
deligated
deligation
delight
delightable
delightened
demagnetize
demagnetized
demagnetizer
demagnetizes
demagnetizing
demagnification
demagnify
demagog
demagogic
demagogical
demagogically
demagogies
demagogism
demagogs
demagogue
demagoguery
demagogues
demagoguism
demagogy
demain
demal
demand
demandable
demandant
demandative
demanded
demander
demanders
demanding
demandingly
demandingness
demands
demanganization
demanganize
demantoid
demarcate
demarcated
demarcates
demarcating
demarcation
demarcations
demarcator
demarcator
demarcators
demarcators
demarcature
demarch
demarche
demarches
dementedness
demethanolize
dementi
dementia
demential
dementias
dementie
dementing
dements
demeore
demephitize
demerara
demerge
demerit
demerited
demeriting
demeritorious
demeritoriously
demers
demersal
demerse
demersed
demersion
demes
demespne
demespnes
demesman
demesmesmerize
demesne
demesnes
demesnial
demess
demestallize
demeter
demethylation
demethylchlortetracycline
demetricize
demi
demiadult
demiangel
demiassignation
demiatheism
demiatheist
demibarrel
demibastion
demibastioned
demibath
demibeast
demibelt
demibob
demibombard
demibrassart
demibrigade
demibrute
demibuckram
demicadence
demicannon
demicanon
demicanton
demicanonier
demicamfron
demicle circle
demicircular
demicivilized
demicolumn
demicianal
demicritic
demicuirass
demiculverin
demicylinder
demicylindrical
demidandiprat
demideify
demideity
demidevil
demidigested
demidistance
demiditone
demidog
demidolmen
demidome
demieagle
demies
demifarthing
demifigure
demiflouncing
demifusion
demigardebras
demigauntlet
demigentleman
demiglace
demiglobe
demigod
demimondaine
demimondaines
demimonde
demimonk
deminatured
demineralization
demineralize
demineralized
demineralizer
demineralizes
demineralizing
deminude
deminudity
demiocctagonal
demiocctangular
demiofficial
demiorbit
demiourgoi
demiowl
demiox
demipagan
demiparadise
demiparallel
demipauldron
demipectinate
demipesade
demipike
demipillar
demipique
demiplacate
demiplate
demipomada
demipremise
demipremiss
demipriest
demipronation
demipuppet
demiquaver
demiracle
demiram
demirelief
demirep
demireps
demirevetmnt
demirhumb
demirilievo
demirobe
demisability
demisable
demisacrilege
demisang
demisangue
demisavage
demiscible
demise
demiseason
demisecond
demised
demisemiquaver
demisemitone
demises
demisheath
demishirt
demising
demisolde
demisovereign
demisphere
demiss
demission
demissionary
demissive
demissly
demissness
demissory
demist
demisuit
demit
demitasse
demitasses
demitint
demitoilet
demitone
demitrain
demitranslucence
demits
demitted
demitting
demitube
demiturned
demiurge
demiurgeous
demiurges
demiurgic
demiurgical
demiurgically
demiurgism
demonolatrous
demonolatrously
demonolatry
demonologer
demonologic
demonological
demonologically
demonologies
demonologist
demonology
demonomancy
demonomanie
demonomist
demonomy
demonophobia
demonopolize
demonry
demons
demonship
demonstrability
demonstrable
demonstrableness
demonstrably
demonstrance
demonstrandum
demonstrant
demonstratability
demonstratable
demonstrate
demonstrated
demonstratedly
demonstrator
demonstrates
demonstrating
demonstration
demonstrational
demonstrationist
demonstrationists
demonstrations
demonstrative
demonstratively
demonstrativeness
demonstrator
demonstrator's
demonstrators
demonstrationship
demonstratory
demophil
demophile
demophilism
demophile

demange

demoralisation
demoralise
demoralised
demoraliser
demoralising
demoralization
demoralize
demoralized
demoralizer
demoralizers
demoralizes
demoralizing
demoralizingly
demorphinization
demorphism
demos
demoses
demosthenic
demot
demote
demoted
demotes
demothball
demotic
demotics
demoting
demotion
demotions
demotist
demotists
demount
demountability
demountable
demounted
demounting
demounts
demove
dempne
dempster
dempsters
demulce
demulceate
demulceate
demulcent
demythologized
demythologizer
demythologizes
demythologizing
den
den's
dename
denar
denarcotization
denarcotize
denari
denaries
denarii
denarinarii
denarius
denaro
denary
denasalize
denasalized
denasalizing
denat
denationalisation
denationalise
denationalised
denationalising
denationalization
denationalize
denationalized
denationalizing
denaturalisation
denaturalise
denaturalised
denaturalising
denaturant
denaturants
denaturate
denaturation
denaturational
denature
denatured
denatures
denaturing
denaturisation
denaturise
denaturised
denaturiser
denaturising
denaturization
denaturize
denaturized
denaturizer
denaturizing
denay
denazification
denazified
denazifies
denazify
denazifying
denda
dendra
dendrachate
dendral
dendraxon
dendric
dendriform
dendrite
dendrites
dendritic
dendritical
dendritically
dendritiform
dendrobe
dendroceratine
dendrochronological
dendrochronologically
dendrochronologist
dendrochronology
dendroelastic
dendrocoelan
dendrocoele
dendrocoelous
dendrocolaptine
dendroconinus
dendrodentic
dendrodont
dendrodera
dendrogram
dendrography
dendroid
dendroidal
dendrolater
dendrolatry
dendrolite
dendrologic
dendrological
dendrologist
dendrologists
dendrologous
dendrology
dendrometer
dendron
dendrons
dendrophagous
dendrophil
dendrophile
dendrophilous
dene
deneb
denegate
denegation
denehole
denervate
denervation
denes
deneutralization
dengue
dengues
deniability
deniable
deniably
denial
denial's
denials
denicotine
denicotinize
denicotinized
denicotinizes
denicotinizing
denied
denier
denierage
denierer
deniers
denies
denigrate
denigrated
denigrates
denigrating
denigration
denigrations
denominations
denominative
denominatively
denominator
denominator's
denominators
denormalized
denotable
denotate
denotation
denotation's
denotational
denotationally
denotations
denotative
denotatively
denotativeness
denotatum
denote
denoted
denotement
denotes
denoting
denotive
denouement
denouements
denounce
denounced
denouncement
denouncements
denouncer
denouncers
denounces
denouncing
dens
densate
densation
dense
densely
densen
denseness
denser
densest
denshare
densher
denshire
densification
densified
dentatocillitate
dentatocostate
dentatocrenate
dentatoserrate
dentatosetaceous
dentatosinuate
dented
dentel
dentelated
dentellated
dentelle
dentelliere
dentello
dentelure
denter
dentes
dentex
dentical
denticate
denticete
denticle
denticles
denticular
denticulate
denticulated
denticulately
denticulation
denticule
dentiferous
dentification
dentiform
denti
denti
dentiferous
dentifrice
dentifrices
dentigerous
dentil
dentilabial
dentilated
dentilation
dentile
dentiled
dentilingual
dentiloguy
dentiloquist
dentiloquy
dentils
dentimeter
dentin
dentinal
dentinalgia
dentinasal
dentine
denties
denting
dentinitis
dentinoblast
dentinocemental
dentinoid
dentinoma
dentins
dentiparous
dentiphone
dentiroster
dentirostral
dentirostrate
dentiscalp
dentist
dentist's
dentistic
dentistical
dentistries
dentistry
dentists
dentition
dentoid
dentolabial
dentolinguinal
dentolabial
dentonasal
dentosurgical
dents
dentulous
dentural
denture
dentures
denty
denuclearization
denuclearize
denuclearized
denuclearizes
denuclearizing
denucleate
denudant
denudate
denudated
denudates
denudating
denudation
denudational
denudations
denudative
denudatory
denude
denuded
denudement
denuder
denuders
denudes
denuding
denumberment
denumerability
denumerable
denumerably
denumeral
denumerant
denumerantive
denumeration
denumerative
denunciable
denunciant
denunciate
denunciated
denunciating
denunciation
denunciations
denunciative
denunciatively
denunciator
denunciatory
denutrition
denver
deny
denyer
denying
denyingly
deobstruct
deobstruent
deoccidentalize
deoculate
deodand
deodands
deodar
deodara
deodaras
deodars
deoxidize
deoxidized
deoxidizer
deoxidizers
deoxidizes
deoxidizing
deoxycorticosterone
deoxygeneate
deoxygenated
deoxygenerating
deoxygenation
deoxygenization
deoxygeneize
deoxygenized
deoxygenerizing
deoxyribonuclease
deoxyribonucleic
deoxyribonucleoprotein
deoxyribonucleotide
deoxyribose
deozonization
deozonize
deozonizer
dep
depa
depaganize
depaint
depainted
depainting
depaints
depair
depancreatization
depancreatize
depardieu
depark
deparliament
depart
departed
departement
departements
departer
departing
departisanize
departition
department
department's
departmental
departmentalisation
departmentalise
departmentalised
departmentalising
departmentalism
departmentalization
departmentalize
departmentalized
departmentalizes
departmentalizing
departmentally
departmentization
departmentize
departments
departs
departure
departure's
departures
depas
depascent
depass
depasturable
depasturage
depasturation
depasture
depastured
depasturing
depatriate
depauperate
depauperation
depauperization
depauperize
depauperized
depayse
depaysee
depe
defeed
depeach
defepche
defectible
defeculate
defeiinct
defelp
defencil
depend
dependabilities
dependability
dependable
dependableness
dependably
dephlegmation
dephlegmatize
dephlegmator
dephlegmatory
dephlegmedness
dephlogisticate
dephlogisticated
dephlogistication
dephosphorization
dephosphorize
dephycercal
dephysicalization
dephysicalize
depickle
depict
depicted
depicter
depicters
depicting
depiction
depictions
depictive
depictment
depictor
depictors
depicts
depicture
depicted
depicturing
depiedmontize
depigment
depigmentate
depigmentation
depigmentize
depilate
depilated
depilates
depilating
depilation
depilator
depilatories
depilatory
depiliant
depilous
depit
demplace
demplaceable
demplace
deplumed
demplumes
dempluming
demplump
depoetize
depoh
depolarisation
depolarise
depolarised
depolariser
depolarising
depolarization
depolarize
depolarized
depolarizer
depolarizers
depolarizes
depolarizing
depolish
depolished
depolishes
depolishing
depoliticize
depoliticized
depoliticizes
depoliticizing
depolymerization
depolymerize
depolymerized
depolymerizing
depone
deponed
deponent
deponents
deper
depones
deponing
depopularize
depopulate
depopulated
depopulates
depopulating
depopulation
depopulations
depopulative
depopulator
depopulators
deport
depotentiation
depots
depr
depravate
depravation
deprave
depraved
depravedly
depravedness
depravement
depraver
depravers
depraves
depraving
depravingly
depravities
depravity
deprecable
deprecate
deprecated
deprecates
deprecating
deprecatingly
deprecation
deprecations
deprecative
deprecatively
deprecator
deprecatorily
deprecatoriness
deprecators
deprecatory
depreciable
depreciant
depreciate
depreciated
depreciates
depreciating
depreciatingly
depreciation
depreciations
depreciative
depreciatively
depreciator
depreciatoriness
depreciators
depreciatory
depredable
depredate
depredated
depredating
depredation
depredationist
depredations
depredator
depredatory
depredicate
deprehend
deprehensible
deprehension
depress
depressant
depressanth
depressants
depressed
depresses
depressibilities
depressibility
depressible
depressing
depressingly
depressingness
depression
depression's
depressional
depressionary
depressions
depressive
depressively
depressiveness
depressives
depressomotor
depressor
depressors
depression
depressurize
deprest
depreter
deprevention
deprimen
deprint
deprioritize
deprisure
depriable
deprical
deprials
deprivate
deprivation
deprivation's
deprivationings
deprivationative
deprive
deprived
deprivationment
deprivationer
deprivationers
deprivationes
deprivationing
deprivationed
deprivationuring
dequipment
dequipmented
dequipmenturing
dequipmenting
dequipmentings
dequipments
deprogram
deprogrammed
deprogrammer
deprogrammers
deprogramming
deprogrammings
deprogramms
deprome
deprostrate
deprotestantize
deprovincialize
depsid
depsid
depsides
dep
depth
depthen
depthing
depthless
depthlessness
depthometer
depths
depthways
depthwise
depucel
depuceler
depullulation
depulse
depuran
depurate
depurated
depurates
depurating
depuration
deprative
depurator
depuratory
depure
depurge
depurged
depurgi
depurition
depursement
deputable
deputation
deputational
deputationist
deputationize
deputations
deputative
deputatively
deputator
depute
deputed
deputes
deputies
deputing
deputise
deputised
deputising
deputization
deputize
deputized
deputizes
deputizing
deputy
deputy's
deputyship
dequantitate
dequeen
dequeue
dequeued
dequeues
dequeuing
der
derabbinize
deracialize
deracinate
deracinated
deracinating
deracination
deracine
deradelphus
deradenitis
deradenoncus
derah
deraign
deraigned
deraigning
deraignment
deraigns
derail
derailed
derailer
derailing
derailleur
derailleurs
derailment
derailments
derails
derange
derangeable
deranged
derangement
derangements
deranger
deranges
deranging
derat
derate
derated
derater
derating
deration
derationalization
derationalize
deratization
deratize
deratized
deratizing
deratizing
derats
deratted
deratting
deray
derays
derbies
derbukka
derby
derbylite
derbyshire
dere
derealization
derecho
dereference
dereferenced
dereferences
dereferencing
deregister
deregulate
deregulated
deregulates
deregulating
deregulation
deregulationize
deregulations
deregulatory
dereign
dereism
dereistic
dereistically
derelict
derelicta
dereliction
derelictions
derelictly
derelictness
derelicts
dereligion
dereligionize
dereling
derelinquendi
derelinquish
derencephalocele
derencephalus
derepress
derepression
derequisition
derere
deresinate
deresinize
derestrict
derf
derfly
derfness
derham
deric
deride
derided
derider
deriders
derides
deriding
deridingly
deringer
deringers
derisible
derision
derisions
derisive
derisively
derisiveness
derisory
deriv
derivability
derivable
derivably
derival
derivant
derivate
derivately
derivates
derivation
derivation's
derivational
derivationally
derivationist
derivations
derivatist
derivative
derivative's
derivatively
derivativeness
derivatives
derive
derived
derivedly
derivedness
deriver
derivers
derives
deriving
derk
derm
derma
dermabrasion
dermad
dermahemia
dermal
dermalgia
dermalith
dermamycosis
dermamyiasis
dermanaplasty
dermapostasis
dermaptera
dermapteran
dermapterous
dermas
dermaskeleton
dermasurgery
dermatagra
dermatalgia
dermataneuris
dermatatrophia
dermatauxe
dermathemia
dermathe
dermatic
dermatine
dermatitis
dermatitises
dermatocel
dermatocellulitis
dermatocinosis
dermatocystic
dermatocyst
dermatodynia
dermatogen
dermatoglyphic
dermatoglyphics
dermatograph
dermatographia
dermatographic
dermatographism
dermatography
dermatoheteroplasty
dermatoid
dermatologic
dermatological
dermatologies
dermatologist
dermatologists
dermatology
dermatolysis
dermatropic
dermenchysis
dermestes
dermestid
dermestoid
dermic
dermis
dermises
dermitis
dermititis
dermblast
dermoblast
dermobranchiata
dermobranchiate
dermochrome
dermococcus
dermogastic
dermographia
dermographic
dermographism
dermography
dermohemal
dermohemia
dermohumeral
dermoid
dermoidal
dermoidectomy
dermol
dermalysis
dermomuscular
dermomycosis
dermonecrotic
dermoneural
dermoneurosis
dermonosology
dermoosseous
dermoossification
dermopathic
dermopathy
dermophilebitis
dermophile
dermophyte
dermophytic
dermoplasty
dermopteran
dermopterous
dermoreaction
dermorhynchous
dermosclerite
derrieres
derries
derringer
derringers
derrire
derris
derrises
derry
derth
dertra
dertrotheca
dertrum
deruinate
deruralize
derust
derv
derve
dervish
dervishes
dervishhood
dervishism
dervishlike
des
desaccharification
desacralization
desacralize
desagrement
desalinate
desalinated
desalinates
desalinating
desalination
desalinator
desalination
desalinization
desalinize
desalinated
desalinizés
desalinating
desalt
desalted
desalter
desalters
desalting
desalts
desamidase
desamidization
desaminase
desand
desanded
desanding
desands
desaturate
desaturation
desaurin
desaurine
desc
descale
descaled
descaling
descamisado
descamisados
descent
descanted
descanter
descanting
descantist
descants
descartes
descend
descendability
descendable
descendance
desendant
desendant's
descendants
descended
descendence
descedent
descedental
descedentalism
descedentalist
descedentalistic
descendents
descender
descenders
descendibility
descendible
descending
descendingly
descends
descension
descensional
descensionist
descensive
descensors
descensory
desecrating
desecration
desecrations
desecrator
desectionalize
deseed
desegmentation
desegmented
desegregate
desegregated
desegregates
desegregating
desegregation
deselect
deselected
deselecting
deselects
desemer
desensitization
desensitizations
desensitize
desensitized
desensitizer
desensitizers
desensitizes
desensitizing
desentimentalize
deseret
desert
deserted
desertedly
desertedness
deserter
deserters
desertful
desertfully
desertic
deserticolous
desertification
deserting
desertion
desertions
desertism
desertless
desertlessly
desertlike
desertness
desertress
desertrice
deserts
desertward
deserve
deserved
deservedly
deservedness
deserveless
deserver
deservers
deserves
deserving
deservingly
deservingness
deservings
desesperance
desex
desexed
desexes
desexing
desexualization
desexualize
desexualized
desexualizing
deshabille
desi
desiatin
desicate
desiccant
desiccants
desiccate
desiccated
desiccates
desiccating
desiccation
desiccations
desiccative
desiccator
desiccators
desiccatory
desiderable
desiderant
desiderata
desiderate
desiderated
desiderating
desideration
desiderative
desilt
desilver
desilvered
desilvering
desilverization
desilverize
desilverized
desilverizer
desilverizing
desivers
desinence
desinent
desinental
desiodothyroxine
desipience
desipieny
desipient
desipramine
desirability
desirable
desirableness
desirably
desire
desireable
desired
desiredly
desiredness
desireful
desirefulness
desireless
desirelessness
desirer
desirers
desires
desiring
desiringly
desirous
desirously
desirousness
desist
desistance
desisted
desistence
desisting
desistive
desists
desition
desitive
desmopathologist
desmopathology
desmopathy
desmopelmous
desmopexia
desmopyknosis
desmorrhexit
desmose
desmosis
desmosite
desmosome
desmotome
desmotropic
desmotropism
desmotomy
desobligeant
desocialization
desocialize
desoeuvre
desolate
desolated
desolately
desolateness
desolater
desolates
desolating
desolatingly
desolation
desolations
desolative
desolator
desole
desonation
desophisticate
desophistication
desorb
desorbed
desorbing
desorbs
desorption
desoxalate
desoxalic
desoxyanisoin
desoxybenzoic
desoxybenzoin
desoxycinchonine
desoxycorticosterone
desoxyephedrine
desoxymorphine
desoxiribonuclease
desoxiribonucleic
desoxiribonucleoprotein
desoxiribose
despair
despaired
despairer
despairful
despairfully
despairfulness
despairing
despairingly
despairingness
despairs
desparable
despatch
despatched
despatcher
despatchers
despatches
despatching
despeche
despecialization
despecialize
despecificate
despecification
despect
despectant
desperage
despend
desperacy
desperado
desperadoes
desperadoism
desperados
desperance
desperate
desperately
desperateness
desperation
despert
despicability
despicable
despicableness
despica
despiciency
despinc
destroyer
destroyer's
destroyers
destroying
destroyingly
destroys
destruct
destructed
destructibility
destructible
destructibleness
destructing
destruction
destruction's
destructional
destructionism
destructionist
destructions
destructive
destructively
destructiveness
destructivism
destructivity
destructor
destructors
destructory
destructs
destructuralize
destrudo
destry
destuff
destuffing
destuffs
desubstantialize
desubstantiate
desuication
desudation
desuete
desuetude
desuetudes
desugar
desugared
desugaring
desugarize
desugars
desulfur
desulfurate
desulfurated
desulfurating
desulfuration
desulfured
desulfuring
desulfurisation
desulfurise
desulfurised
desulfuriser
desulfurising
desulfurization
desulfurize
desulfurized
desulfurizer
desulfurizing
desulfurs
desulphur
desulphurate
desulphurated
desulphurating
desulphuration
desulphuret
desulphurise
desulphurised
desulphurising
desulphurization
desulphurize
desulphurized
desulphurizer
desulphurizing
desulotor
desultorily
desultoriness
desultorious
desulty
desume
desuperheater
desuvre
desyatin
desyl
desynapsis
desynaptic
desynchronize
desynchronizing
desynonymization
desynonymize
det
detach
detachability
deteriorative
deteriorator
deteriorism
deteriority
determ
determa
determinent
determinents
determinability
determinable
determinableness
determinably
determinacy
determinant
determinant's
determinantal
determinants
determinate
determined
determinately
determinateness
determinating
determination
determinations
determinative
determinatively
determinativeness
determinator
determine
determined
determinedly
determinedness
determiner
determiners
determines
determining
determinism
determinist
deterministic
deterministically
determinists
determininoid
deterrability
deterrable
deterration
deterred
deterrence
deterrant
detraining
detainment
detrains
detraque
detray
detrect
detrench
detribalization
detribalize
detribalized
detribalizing
detriment
detrimental
detrimentality
detrimentally
detribalizational
detriments
detrital
detrited
detrition
detritivorous
detritus
detrivorous
detroit
detruck
detrude
detruded
detrudes
detruding
detruccate
detruncated
detruncating
detruncation
detrusion
detrusive
detrusor
detruss
dette
detubation
detumescence
detumescent
detune
detuned
detuning
detur
deturb
deturn
deturbate
deucalion
deuce
deuced
deucedly
deuces
deucing
deul
deunam
deuniting
deurbanize
deurwaarder
deus
deusan
deutencephalic
deutencephalon
deuteragonist
deuteranomal
deuteranomalous
deuteranomaly
deuteranope
deuteranopia
deuteranopic
deuterate
deuteration
deuteranide
deuteride
deuterium
deuteroalbumose
deuterocanonical
deuterocasease
deuterocone
deuteroconid
deuterodome
deuterodelastose
deuterofibrinose
deuterogamist
deuterogamy
deuterogelatose
deuterogenesis
deuterogenic
deuteroglobulose
deuteromorphic
deuteromyosinose
deuteron
deuteronomic
deuteronomist
deuteronomy
deuteron
deuteropathic
deuteropathy
deuteroplasm
deuteroprism
deuteroprotose
deuteroscopic
deuteroscopy
deuterostoma
deuterostomatous
deuterostome
deuterosy
deuterotokous
deuterotoky
deuterotype
deuterovitellose
deuterozooid
deutobromide
deutocarbonate
deutochloride
deutomala
deutomalal
deutomalar
deutomerite
deuton
deutonephron
deutonymph
deutonymphal
deutoplasm
deutoplasmic
deutoplastic
deutoscolex
deutovum
deutoxide
deutsche
deutschemark
deutschland
deutzia
deutzias
deux
deuzan
dev
deva
devachan
devadasi
deval
deval
devaloka
devalorize
devaluate
devaluated
devaluates
devaluating
devaluation
devaluations
devallue
devalued
devalues
devaluuing
devanagari
devance
devant
devaporate
devaporation
devaraja
devarshi
devas
devast
devastate
devastated
devastates
devastating
devastatingly
devastation
devastations
devastative
devastator
devastators
devastavit
devaster
devata
devaul
devaunt
devchar
deve
devin
deveined
deveining
deviens
devel
develed
devin
develing
develop
developability
developable
develope
deviltries
deviltry
devilward
devilwise
devilwood
devily
devinct
devious
deviously
deviousness
devirginate
devirgination
devirginator
devirilize
devisability
devisable
devisal
devisals
deviscerate
devisceration
devise
devised
devisee
devisees
deviser
devisers
devises
devising
devisings
devisor
devisors
devitalisation
devitalise
devitalised
devitalising
devitalization
devitalize
devitalized
devitalizes
devitalizing
devitaminize
devitation
devitrifiable
devitrification
devitrified
devitrify
devitrifying
devocalisation
devocalise
devocalised
devocalising
devocalization
devocalize
devocalized
devocalizing
devocate
devocation
device
deviced
devices
devicing
devoid
devoir
devoirs
devolatilisation
devolatilise
devolatilised
devolatilising
devolatilization
devolatilize
devolatilized
devolatilizing
devolute
devolution
devolutionary
devolutionist
devolutive
devolve
devolved
devolvement
devolvements
devolves
devolving
devon
devonian
devonite
devonport
devons
devonshire
devoration
devorative
devot
devota
devotary
devote
devoted
devotedly
devotedness
devotee
devotee's
devoteeism
devotees
devotement
devoter
devotes
devoting
devotion
devotional
devotionalism
devotionalist
devotionality
devotionally
devotionalness
devotionary
devotionate
devotionist
devotions
devoto
devour
devourable
devoured
devourer
devourers
devoureess
devouring
devouringly
devouringness
devourment
devours
devout
devoutful
devoutless
devoutlessly
devoutlessness
devoutly
devoutness
devove
devow
devs
devulcanization
devulcanize
devulgarize
devvel
devwsor
dheri
dhikr
dhikrs
dhobee
dhobey
dhobi
dhobie
dhobies
dhobis
dhoby
dhole
dholes
dhoney
dhoni
dhooley
dhoolies
dhooly
dhoon
dhoora
dhooras
dhooti
dhootie
dhooties
dhootis
dhootee
dhoti
dhotis
dhoty
dhoul
dhourra
dhourras
dhow
dhows
dhu
dhunchee
dhunchi
dhurna
dhurnas
dhurra
dhurrie
dhurry
dhuti
dhutis
dhyal
dhyana
di
dia
diabantite
diabase
diabases
diabasic
diabat
diabetic
diabetical
diabetics
diabetogenic
diabetogenous
diabetometer
diabetophobia
diable
diablene
diablerie
diableries
diablery
diablo
diablotin
diabolarch
diabolarchy
diabolatry
diabolepsy
diaboleptic
diabolic
diabolical
diabolically
diabolicalness
diabolification
diabolifuge
diabolify
diabolisation
diabolise
diabolised
diabolising
diabolism
diabolist
diabolization
diabolize
diabolized
diabolizing
diabolo
diabolological
diabology
diabolology
diabolonian
diaboulos
diabolus
diaconus
diacep
diacoustics
diacraterian
diacrateric
diacrisis
diacritic
diacritical
diacritically
diacritics
diacromyodian
diact
diactin
diactinal
diactine
diactinic
diactininism
diaculum
diadelphic
diadelphian
diadelphic
diadelphous
diadem
diademed
diademing
diads
diadem
diadermic
diadic
diakokinesia
diakoche
diakochian
diakochic
diakochite
diakokinesia
diakokinesis
diakokinetic
diakosy
diakokinesis
diakoumenos
diadrom
diadrome
diadromous
diadumenus
diae
diaereses
diaeresis
diaeretic
dialogite
dialogize
dialogized
dialogizing
dialogs
dialogue
dialogue's
dialogued
dialoguer
dialogues
dialoguing
dials
dialup
dialuric
dialycarpous
dialypetalous
dialyphyllous
dialysability
dialysable
dialysate
dialysation
dialyse
diallysed
dialysepalous
dalyser
diallysers
diallyses
diallysing
diallysis
dialystaminous
dialystelic
dialystely
dialytic
diallytically
diallyzability
diallyzable
diallyzate
diallyzation
diallyzator
dialye
diallyzed
dialyzer
diallyzers
diallyzes
diallyzing
diam
diamagnet
diamagnetic
diamagnetically
diamagnetism
diamagnetize
diamagnetometer
diamant
diamante
diamantiferous
diamantine
diamantoid
diamat
diamb
diamber
diambic
diamagnetism
diamesogamous
diameter
diameter's
diameters
diametral
diametrally
diametric
diametrical
diametrically
diamicton
damid
diamides
diamido
damidogen
damin
damine
damines
daminogen
daminogene
damins
diammine
diamminobromide
diamminonitrate
diammonium
diamond
diamond's
diamondback
diamondbacked
diamondbacks
diamonded
diamoniferous
diamondiferous
diamonding
diamondize
diamondized
diamondizing
diamondlike
diamonds
diamondwise
diamondwork
diamorphine
diamorphosis
diamyl
diamylene
diamylose
dian
diana
diander
diandra
diandra
diandrous
diane
dianetics
dianilid
dianilide
dianisidin
dianisidine
dianite
dianodal
dianoetic
dianoetical
dianoetically
dianoia
dianoiology
dianthus
dianthuses
diantre
diapalma
diapase
diapasm
diapason
diapasonal
diapasons
diapause
diapaused
diapauses
diapausing
diapedeses
diapedesis
diapedetic
diapensiaceous
diapente
diaper
diaper's
diapered
diapering
diapers
diapery
diaphane
diaphaneity
diaphanie
diaphanometer
diaphanometric
diaphanometry
diaphanoscope
diaphanoscopy
diaphanotype
diaphanous
diaphanously
diaphanousness
diaphany
diaphemetric
diaphone
diaphones
diaphonia
diaphonic
diaphonical
diaphonies
diaphony
diaphorase
diaphoreses
diaphoresis
diaphoretic
diaphoretical
diaphoretics
diaphorite
diaphote
diaphototropic
diaphototropism
diaphragm
diaphragm's
diaphragmal
diaphragmatic
diaphragmatically
diaphragmed
diaphragming
diaphragms
diaphtherin
diaphysal
diaphyses
diaphysial
diaphysis
diaper
diapiric
diapirs
diaplases
diaplasis
diaplasma
diaplex
diaplexal
diaplexus
diapnoe
diapnoic
diapnotic
diapophyses
diapophysial
diapophysis
diaporessis
diapositive
diapsid
diapsidan
diapyesis
diapyetic
diarch
diarchial
diarchic
diarchies
diarchy
diarmemia
diarmial
diarian
diaries
diarist
diaristic
diarists
diarize
diarrhea
diarrheal
diarrheas
diarrheic
diarrhetic
diarrhoea
diarrhoeal
diarrhoetic
diarsenide
diarthric
diarthrodial
diarthroses
diarthrosis
diarticular
diary
diary's
dias
diachisis
diachisma
diachistic
diascope
diascopy
diascord
diascordium
diasene
diaskeuasis
diaskeuast
diasper
diaspidine
diaspine
diaspirin
diaspora
diasporas
diaspore
diaspores
diastalses
diastalsis
diastaltic
diastase
diastases
diastastic
diastasimetry
diastasis
diastataxic
diastataxy
diastatic
diastatically
diastem
diastema
diastemata
diastematic
diastematomyelia
diaster
diastereoisomer
diastereoisomeric
diastereoisomerism
diastereomer
diasters
diastimeter
diastole
diastoles
diastolic
diastomatic
diastral
diastrophe
diastrophic
diastrophically
diastrophism
diastrophy
diastyle
diasynthesis
diastyrm
diasystem
diatessaron
diattesseron
diathermacy
diathermal
diathermance
diathermancy
diathermaneity
diathermanous
diathermia
diathermic
diathermies
diathermize
diathermometer
diathermotherapy
diathermous
diathermy
diatheses
diathetic
diatom
diatomacean
diatomaceous
diatomean
diatomic
diatomicity
diatomiferous
diatonin
diatomine
diatomist
diatomite
diatomous
diatsoms
diatomic
diazoma
diazomethane
diazonium
diazotate
diazotic
diazo$
$izability
diazotizable
diazo$
$itization
diazo$
$itize
diazo$
$itized
diazo$
$itizing
diazo$
$otype
dib
dibase
dibasic
dibasicity
dibatag
dibbed
dibber
dibbers
dibbing
dibble
dibbled
dibbler
dibblers
dibbles
dibbling
dibuk
dibukim
dibuks
dibenzophenazine
dibenzop$
$yrrole
dibenzoyl
dibenzyl
dibhole
diblastula
diborate
dibrach
dibranch
dibranchiate
dibran$
$chious
dibrom
dibromid
dibromide
dibromoacet$$$
$aldehyde
dibromo$\text{benzene}$
dibs
dib$\text{stone}$
dibstones
dibucaine
dibutyl
dibutyrate
dibutyrin
dicacity
dicacodyl
dicaeology
dicacic
dicalcic
dicalcium
dicarbonate
dicarbonic
dicarboxylate
dicarboxylic
dicarpellary
dicaryon
dicaryophase
dicaryophyte
dicaryotic
dicast
dicasteries
dicastery
dicastic
dicasts
dicatalectic
dicatalexis
dice
diceboard
dicebox
dicecup
diced
dicellate
diceman
dicentra
dicentras
dicentrin
dicentrine
dicephalism
dicephalous
dicephalus
diceplay
dicer
dicerion
dicerous
dicers
dices
dicetyl
dicey
dich
dichas
dichasia
dichasial
dichasium
dichastasis
dichastic
dichlamydeous
dichlone
dichloramin
dichloramine
dichlorhydrin
dichloride
dichloroacetic
dichlorobenzene
dichlorodifluoromethane
dichlorodiphenyltrichloroethane
dichlorohydrin
dichloromethane
dichlorvos
dichocarpism
dichocarpous
dichogamic
dichogamous
dichogamy
dichondra
dichopodial
dichoptic
dichord
dichoree
dichotic
dichotically
dichotomal
dichotomic
dichotomically
dichotomies
dichotomisation
dichotomise
dichotomised
dichotomising
dichotomist
dichotomistic
dichotomization
dichotomize
dichotomized
dichotomizing
dichotomous
dichotomously
dichotomousness
dichotomy
dichotriaene
dichroic
dichroiscopic
dichroism
dichroite
dichroitic
dichromasia
dichromasy
dichromat
dichromate
dichromatic
dichromaticism
dichromatism
dichromatopsia
dichromatic
dichromism
dichroous
dichroscope
dichrooscopic
dichroosopic
dicht
dicier
diciest
dicing
dick
dickcissel
dickens
dickenses
dickensian
dicker
dickered
dickering
dickers
dickey
dickeybird
dickeybird
dickeybird
dickens
dickie
dickies
dickinsonite
dickite
dicks
dickty
dicky
dickybird
diclesium
diclinic
diclinies
diclinism
diclinous
dicliny
dicoccous
dicideine
dicoelious
dicoelous
dicolic
dicolon
dicondylian
dicophane
dicot
dicots
dicotyl
dicotyledon
dicotyledonary
dicotyledonous
dicotyledons
dicotylous
dicotyls
dicoumarin
dicoumarol
dicranaceous
dicranoid
dicranterian
dicrostonyx
dicrotal
dicrotic
dicrotism
dicrotous
dict
dicta
dictagraph
dictamen
dictamina
dictaphone
dictaphones
dictate
dictated
dictates
dictating
dictatingly
dictation
dictational
dicyanide
dicyanin
dicyanine
dicyanodiamide
dicyanogen
dicycle
dicyclic
dicycles
dicyclist
dicyclopentadienyliron
dicycly
dicyemid
dicynodont
did
didache
didact
didactic
didactical
didacticality
didactically
didactician
didacticism
didacticity
didactics
didactive
didacts
didactyl
didactylism
didactylous
didal
dideppher
didappers
didascalar
didascaliae
didascalec
didascalos
didascalely
didder
diddered
diddering
diddest
diddies
diddikai
diddle
diddled
diddler
diddlers
diddles
diddling
diddy
didelph
didelphian
didelphic
didelphid
didelphine
didelphoid
didelphous
didepsid
didepside
didest
didgeridoo
didicoy
didie
didies
didine
didle
didler
didn
didn't
didna
didnt
dido
didodecahedral
didodecahedron
didoes
didonia
didos
didrachm
didrachma
didrachmal
didrachmas
didric
didromies
didromy
didst
diduce
diduced
diducing
diduction
diductively
diductor
didy
didym
didymate
didymia
didymis
different
differentia
differentiability
differentiable
differentiae
differential
differential's
differentialize
differentially
differentials
differentiant
differentiate
differentiated
differentiates
differentiating
differentiation
differentiations
differentiative
differentiator
differentiators
differently
differentness
differer
differers
differing
differingly
differs
difficile
difficileness
difficililate
difficult
difficulties
difficultly
difficulty
difficulty's
diffidation
diffide
diffided
diffidence
diffident
diffidently
diffidentness
diffiding
diffinity
diffluence
diffluent
difform
diffeforme
difformed
difformity
diffract
diffracted
diffracting
diffraction
diffractional
diffractions
diffractive
diffractively
diffractiveness
diffractometer
diffracts
diffranchise
diffrangibility
diffrangible
diffrugient
diffund
diffuse
diffused
diffusely
diffusedness
diffusely
diffuseness
diffruser
diffrusers
diffruses
diffrusibility
diffrusible
diffrusibleness
diffrusibly
diffrusimeter
diffusing
diffrusiometer
diffusion
diffusional
diffusionism
diffusionist
diffusions
difusive
difusively
difusiveness
difusivity
difusor
difusors
difluence
difluoride
diformin
difunctional
dig
digallate
digaletic
digametic
digamies
digamist
digamists
digamma
digammas
digammate
digammated
digammic
digamous
digamy
digastic
digenous
digenesis
digenetic
digenic
digenite
digenous
digeny
digerent
digest
digestant
digested
digestedly
digestedness
digester
digesters
digestibility
digestible
digestibleness
digestibly
digestif
digesting
digestion
digestional
digestive
digestively
digestiveness
digestment
digester
digestors
digitizes
digitizing
digitogenin
digitonin
digitoplantar
digitorium
digitoxigenin
digitoxin
digitoxose
digitron
digits
digitule
digitus
digladiate
digladiated
digladiating
digladiation
digladiator
diglossia
diglot
diglots
diglottic
diglottism
diglottist
diglucoside
diglyceride
diglyph
diglyphic
digmeat
dignation
digne
dignification
dignified
dignifiedly
dignifiedness
dignifies
dignify
dignifying
dignitarian
dignitarian
dignitaries
dignitary
dignitas
dignities
dignity
dignosce
dignosle
dignotion
digonal
digoneutic
digoneutism
digonoporuous
digonous
digoxin
digoxins
digram
digraph
digraphic
digraphically
digraphs
digredience
digrediency
digredient
digress
digressed
digresser
digresses
digressing
digressingly
digression
digression's
digresional
digressionary
digressions
digressive
digressively
digressiveness
digressory
digs
diguanide
digue
digynia
digynian
digynous
dihalid
dihalide
dihalo
dihalogen
dihydroxycholecalciferol
dihedral
dihedrals
dihedron
dihedrons
dihelios
dihelium
dihely
dihexagonal
dihexahedral
dihexahedron
dihybrid
dihybridism
dihybrids
dihydrate
dihydrated
dihydrazone
dihydric
dihydride
dihydrite
dihydrochloride
dihydrocupreine
dihydrocuprin
dihydroergotamine
dihydrogen
dihydrol
dihydromorphinone
dihydronaphthalene
dihydronicotine
dihydrosphingosine
dihydrostreptomycin
dihydrotachysterol
dihydroxy
dihydroxyacetone
dihydroxysuccinic
dihydroxytoluene
dihysteria
diamb
diambus
diodid
diodide
diido
diiodoform
diodotyrosine
diipenates
diisatogen
dijudicant
dijudicate
dijudicated
dijudicating
dijudication
dika
dikage
dikamali
dikamalli
dikaryon
dikaryophase
dikaryophasic
dikaryophyte
dikaryophytic
dikaryotic
dikast
dikdik
dikdiks
dike
dike's
diked
dikegrave
dikelet
dikeloccephalid
dikephobia
diker
dikereeve
dikeria
dikerion
dikers
dikes
dikeside
diketene
diketo
diketone
diking
dikkop
diksha
diktat
diktats
diktyonite
dil
dilacerate
dilacerated
dilacerating
dilaceration
dilactic
dilactone
dilambdodont
dilamination
dilaniate
dilantin
dilapidate
dilapidated
dilapidating
dilapidation
dilapidator
dilatability
dilatable
dilatableness
dilatably
dilatancy
dilatant
dilatants
dilatate
dilatation
dilatational
dilatations
dilatative
dilatator
dilatatory
dilate
dilated
dilatedly
dilatedness
dilatement
dilatation
dilaters
dilates
dilating
dilatingly
dilation
dilations
dilative
dilatometer
dilatometric
dilatometrically
dilatometry
dilator
dilatorily
dilatoriness
dilators
dilatory
dildo
dildoe
dildoes
dildos
dilection
dilemma
dilemma's
dilemmas
dilemmatic
dilemmatical
dilemmatically
dilemmic
diletant
dilogical
dilogy
dilos
dilucid
dilucidate
diluendo
diluent
diluents
dilutant
dilute
diluted
dilutedly
dilutedness
dilutee
dilutely
diluteness
dilutent
diluter
diluters
dilutes
diluting
dilution
dilutions
dilutive
dilutor
dilutors
diluvia
diluvial
diluvialist
diluvian
diluvianism
diluviate
diluvion
diluvions
diluvium
diluviums
diluvy
dim
dimagnesic
dimane
dimanganion
dimanganous
dimaris
dimastigate
dimber
dimberdamber
dimble
dime
dime's
dimedon
dimedone
dimenhydri"
dimethyl diketone
dimethylhydrazine
dimethylketol
dimethylketone
dimethylmethane
dimethyl nitrosamine
dimethyls
dimethyl sulfoxide
dimethyl sulphoxide
dimethyltryptamine
dimetient
dimetria
dimetric
dimetrodon
dimication
dimidiate
dimidiated
dimidiating
dimidiation
dimin
diminish
diminishable
diminishableness
diminished
diminisher
diminishes
diminishing
diminishingly
diminishing turns
diminishment
diminishments
diminue
diminuendo
diminuendoed
diminuendoes
diminuendos
diminuent
diminutal
diminate
diminated
diminately
diminuting
diminution
diminutional
diminutions
diminutival
diminutive
diminutively
diminutiveness
diminutivize
dimiss
dimissaries
dimission
dimissorial
dimissory
dimit
dimities
dimitted
dimitting
dimity
dimly
dimmable
dimmed
dimmedness
dimmer
dimmer's
dimmers
dimnest
dimmet
dimming
dimmish
dimmit
dimmock
dimmy
dimness
dimnnesses
dimolecular
dimoric
dimorphic
dimorph
dimorphemic
dimorphism
dimorphisms
dimorphite
dimorphotheca
dimorphous
dimorphs
dimout
dimouts
dimple
dimples
dimpled
dimplement
dimplies
dimpling
dimply
dimp
dimpsy
dims
dimuence
dimwit
dimwits
dimwitted
dimwittedly
dimwittedness
dimyarian
dimyaric
dimyary
din
dinamode
dinanderie
dinaphthyl
dinar
dinarchies
dinarchy
dinars
dinder
dindle
dindled
diddles
dindling
dindon
dine
dined
diner
dinergate
dinERIC
dinero
dineros
diners
dines
dinetic
dinette
dinettes
dineuric
dineutron
ding
dingar
dingbat
dingbats
dingdong
dingdonged
dingdonging
dingdongs
dioscorein
dioscorine
dioscuri
diose
diosgenin
diosmin
diosmose
diosmose
diagnostic
diosmotic
diosphenol
diospyraceous
diota
diothelism
dioti
diotic
diotrephes
diovular
dioxan
dioxane
dioxanes
dioxid
dioxide
dioxides
dioxids
dioxime
dioxin
dioxindole
dioxy
dip
diparentum
dipartite
dipartition
dipaschal
dipchick
dipcoat
dipentene
dipentine
dipeptid
dipeptidase
dipeptide
dipetalous
dipetto
diphase
diphaser
diphasic
diphead
diphenan
diphenhydramine
diphenol
diphenoxylate
diphenyl
diphenylacetylene
diphenylamine
diphenylaminechlorarsine
diphenylchloroarsine
diphenylene
diphenylenimide
diphenylenimine
diphenylguanidine
diphenylhydantoin
diphenylmethane
diphenylquinomethane
diphenyls
diphenylthiourea
diphonia
diphosgene
diphosphate
diphosphid
diphosphide
diphosphoric
diphosphothiamine
diphrelatic
diphtheria
diphtherial
diphtherian
diphtheriaphor
diphtheric
diphtheritic
diphtheritically
diphtheritis
diphtheroid
diphtheroidal
diphtherotoxin
diphthong
diphthongal
diphthongalize
diphthongally
diphthongation
diphthonged
diphthongia
diphthongic
diphthonging
diphthongisation
diphthongise
diplex
diplexer
diplobacillus
diplobacterium
diploblastic
diplocardia
diplocardiac
diplocaulescent
diplocephalous
diplocephalus
diplocephaly
diplochlamydeous
diplococcal
diplococcemia
diplococci
diplococcic
diplococcosci
diplococcoid
diplococcus
diploconical
diplocoria
diplodocus
diplodocuses
diploe
diploes
diploetic
diplogangliate
diplogenesis
diplogenetic
diplogenico
diploglossate
diplograph
diplographic
diplographical
diplography
diplohedral
diplohedron
diploic
diploid
 diploidi
diploidies
diploidion
diploidize
diploids
diploidy
diplois
diplokaryon
diploma
diploma's
diplomacies
diplomacy
diplomaed
diplomaing
diplomas
diplomat
diplomat's
diplomata
diplomate
diplomates
diplomatic
diplomatical
diplomatically
diplomatics
diplomatique
diplomatism
diplomatist
diplomatists
diplomatize
diplomatized
diplomatology
diplomats
diplomyelia
diplonema
diplonephridia
diploneural
diptont
diplontic
diplonts
diptoperistomic
diplophase
diplophonia
diplophonic
diplophyte
diplopia
diplopiaaphobia
diplopias
diplopic
diploplacula
diploplacular
diploplaculate
diplopod
diplopodic
diplopodous
diplopods
diplopterous
diplopy
dipppiest
dippy
dippy
dimentary
diprismatic
dipropargyl
dipropellant
dipropyl
diprotic
diprotodan
diprotodont
dips
dipsacaceous
dipsaceous
dipsades
dipsadine
dipsas
dipsetic
dipsey
dipse
dipso
dipsomania
dipsomaniac
dipsomaniacal
dipsomaniacs
dipsopathy
dipsos
dipsosis
dipstick
dipsticks
dipsy
dipt
dipter
diptera
dipteraceous
dipterad
dipteral
dipteran
dipterans
dipterist
dipterocarp
dipterocarpaceous
dipterocarpous
dipterocecidium
dipteroi
dipterological
dipterologist
dipterology
directionless
directions
directitude
directive
directive's
directively
directiveness
directives
directivity
directly
directness
directoire
director
director's
directoral
directorate
directorates
directorial
directorially
directories
directors
directorship
directorships
directory
directory's
directress
directress's
directrices
directrix
directrixes
directs
direful
direfully
direfulness
direly
dirempt
diremption
direness
direnesses
direption
direr
direst
direx
direxit
dirge
dirge's
dirged
dirgeful
dirgelike
disadvantageously
disadvantageousness
disadvantages
disadvantaging
disadventure
disadventurous
disadvise
disadvised
disadvising
disaffect
disaffection
disaffected
disaffectedly
disaffectedness
disafflicting
disaffection
disaffectionate
disaffections
disaffects
disaffiliate
disaffiliated
disaffiliates
disaffiliating
disaffiliation
disaffiliations
disaffinity
disaffirm
disaffirmance
disaffirmation
disaffirmative
disaffirming
disafforest
disafforestation
disafforestation
disagglomeration
disaggregate
disaggregated
disaggregation
disaggregative
disagio
disagree
disagreeability
disagreeable
disagreableness
disagreables
disagreeably
disagreement
disagreed
disannuller
disannulling
disannulment
disannuls
disannoint
disanswerable
disapostle
disapparel
disappear
disappearance
disappearance's
disappearances
disappeared
disapperer
disappearing
disappears
disappendency
disappendant
disappoint
disappointed
disappointedly
dispointer
dispointing
dispointingly
dispointingness
dispointment
dispointment's
dispointments
dispoints
disappreciate
disappreciation
disprobation
disprobations
disprobative
disprobatory
disappropriate
disappropriation
disapprovable
disapproval
disapprovals
disapprove
disapproved
disapprover
disapproves
disapproving
disapprovingly
disaproned
disarchbishop
disard
disarm
disarmament
disarmature
disarmed
disarmer
disarmers
disarming
disarmingly
disarms
disarrange
disarranged
disarrangement
disarrangements
disarranger
disarranges
disarranging
disarray
disarrayed
disarraying
disarrays
disarrest
disarticulate
disarticulated
disarticulating
disarticulation
disarticulator
disasinate
disasinize
disassemble
disassembled
disassembler
disassembles
disassembling
disassembly
disassent
disassiduity
disassimilate
disassimilated
disassimilating
disassimilation
disassimilative
disassociable
disassociate
disassociated
disassociates
disassociating
disassociation
disaster
disaster's
disasterly
disasters
disastimeter
disastrous
disastrously
disastrousness
disattaint
disattire
disattune
disaugment
disauthentic
disauthenticate
disauthorize
disavail
disavaunce
disavouch
disavow
disavowable
disavowal
disavowals
disavowance
disavowed
disavowedly
disavower
disavowing
disavowment
disavows
disawa
disazo
disbalance
disbalancement
disband
disbanded
disbanding
disbandment
disbandments
disbands
disbar
disbark
disbarment
disbarments
disbarred
disbarring
disbars
disbase
disbecome
disbelief
disbeliefs
disbelieve
disbelieved
disbeliever
disbelievers
disbelieves
disbelieving
disbelievingly
disbench
disbenched
disbenching
disbenchmark
disbend
disbind
disblame
disbloom
disboard
disbodied
disbody
disbogue
disboscation
disbosom
disbosomed
disbosoming
disbosoms
disbound
disbowel
disboweled
disboweling
disbowelled
disbowelling
disbowels
disbrain
disbranch
disbranched
disbranching
disbud
disbudded
disbudder
disbudding
disbuds
disburden
disburdened
disburdening
disburdenment
disburdens
disburgeon
disbursable
disursal
disbursal

disbursals

disburse
disbursed

disbursement
disbursement's
disbursements

disburser

disburses

disbursing

disburthen

disbury

disbutton

disc

disc's

discabinet

discage

discal
discalceate

discalced

discamp
discandy

discanonization

discanonize

discanonized

discant

discanted

discanter

discanting

discants

discantus

discapacitate

discard

discardable

discarded

discarder

discarding

discardment

discards

discarnate

discarnation

disease

discased

discases

discasing

discastle

disscatter
disced
discede
discempt
discemption
discemptionator
discempted
discempting
discempts
discern
discernable
discernableness
discernably
discerned
discerner
discerners
discernibility
discernible
discernibleness
discernibly
discerning
discerningly
discernment
discerns
discerp
discerped
discerpibility
discerpible
discerpibleness
discerpings
discertibility
discertible
discertibleness
discertation
discerptive
discession
discharacter
discharge
dischargeable
discharged
dischargee
discharger
dischargers
discharges
discharging
disharity
disharm
dischase
dischevel
dischurc

disci

discide

disciferous

discifloral

disciflorous

disciform

discigerous

discinct

discind

discing

discinoid

disciple

disciple's

discipled

disciplelike

disciples

discipleship

disciplinability

disciplinable

disciplinableness

disciplinary

disciplinant

disciplinarian

disciplinarianism

disciplinarians

disciplinarily

disciplinarity

disciplinary

discipline

disciplined

discipliner

discipliners

disciplines

discipling

disciplining

discipular

discircumspection

discission

discitis

disclaim

disclaimant

disclaimed

disclaimer

disclaimers
discommendation
discommender
discommission
discommodate
discommode
discommoded
discommodes
discommoding
discommodious
discommodously
discommodiousness
discommodities
discommodity
discommon
discommoned
discommoning
discommons
discommune
discommunity
discomorula
discompanied
discomplexion
discompliance
discompose
discomposed
discomposedly
discomposedness
discomposes
discomposing
discomposingly
discomposure
discompt
discomycete
discomycetous
disconanthous
disconcert
disconcerted
disconcertedly
disconcertedness
disconcerting
disconcertingly
disconcertingness
disconcertion
disconcertment
disconcerts
disconduc
disconduce
disconducive
disconfirm
disconfirmation
disconfirmed
disconform
disconformable
disconformably
disconformities
disconformity
discongruity
disconjure
disconnect
disconnected
disconnectedly
disconnectedness
disconnector
disconnecting
disconnection
disconnections
disconnective
disconnectiveness
disconnector
disconnects
disconsent
disconsider
disconsideration
disconsolacy
disconsolance
disconsolate
disconsolately
disconsolateness
disconsolation
disconsonancy
disconsonant
discontent
discontented
discontentedly
discontentedness
discontentful
discontenting
discontentive
discontentment
discontentments
discontents
discontiguity
discontiguous
discontiguousness
discontinuable
discontinual
discontinuance
discontinuances
discontinuation
discontinuations
discontinue
discontinued
discontinuee
discontinuer
discontinues
discontinuing
discontinuities
discontinuity
discontinuity's
discontinuor
discontinuous
discontinuously
discontinuousness
disconula
disconvenience
disconvenient
disconventicle
discophile
discophoran
discophore
discophorous
discoplacenta
discoplacental
discoplacentalian
discoplasm
discopodous
discord
discordable
discordance
discordancies
discordancy
discordant
discordantly
discordantness
discorded
discorder
discordful
discording
discordous
discords
discorporate
discorrespondency
discorrespondent
discos
discubation
discubitory
disculpate
disculpation
disculpatory
discumb
discumber
discure
discure

discurrencie

discurrence

discurrent

discursative

discursativeness

discursify

discursion

discursive

discursively

discursiveness

discursory

discursus

discustain

discus

discuses

discuss
discussable

discussant

discussants
discussed

discusser
discusses

discussible
discussing
discussion
discussion's
discussional
discussionis

discussionism

discussionist

discussions

discusive
discussment
discustom

discutable
discute
discutient

disdain

disdainable

disdaigned
disemploys
disempower
disemprison
disenable
disenabled
disenablement
disenabling
disenact
disenactment
disenamor
disenamour
disenchain
disenchant
disenchanted
disenchanter
disenchanting
disenchantingly
disenchantment
disenchantments
disenchantress
disenchants
disencharm
disenclose
disencourage
disencourage
disencumber
disencumbered
disencumbering
disencumberment
disencumbers
disencumbrance
disendow
disedowed
disendower
disendowing
disendowment
disendows
disenfranchise
disenfranchised
disenfranchisement
disenfranchisements
disenfranchises
disenfranchising
disengage
disengaged
disengagedness
disengagement
disengagements
disengages
disengaging
disengirdle
disenjoy
disenjoyment
disenmesh
disennable
disennum
disenroll
disensanct
disenshroud
disenslave
disensoul
disensure
disentail
disentailment
disentangle
disentangled
disentanglement
disentanglements
disentangler
disentangles
disentangling
disenter
disenthral
disenthral

disenthralled
disenthralling
disenthralment
disenthralls
disenthralment
disenthrone
disenthroned
disenthronement
disenthroning
disentitle
disentitled
disentitlement
disentitling
disentomb
disentombment
disentrazed
disentrail
disentrain
disentrainment
disentrammel
disentrance
disentranced
disentrancement
disentrancing
disentwine
disentwined
disentwining
disenvelop
disepalous
disequality
disequalization
disequalize
disequalizer
disequilbrate
disequilibration
disequilibria
disequilibrium
disequilibriums
disert
disespouse
disestablish
disestablished
disestablisher
disestablishes
disestablishing
disestablishment
disestablishmentarian
disestablishmentarianism
disestablishmentarian
disestablishmentarianism
disesteem
disesteemed
disesteemer
disesteeming
disestimation
diseur
diseurs
disease
diseuses
disexcommunicate
disexercise
disfaith
disfame
disfashion
disfavor
disfavored
disfavorer
disfavoring
disfavors
disfavour
disfavourable
disfavoured
disfavourer
disfavouring
disfeature
disfeatured
disfeaturement
disfeaturing
disfellowship
disfen
disfiguration
disfigurative
disfigure
disfigured
disfigurement
disfigurements
disfigurer
disfigures
disfiguring
disfiguringly
disflesh
disfoliage
disfoliaged
disforest
disforestation
disform
disformity
disfortune
disframe
disfranchise
disfranchised
disfranchisement
disfranchisements
disfranchiser
disfranchisers
disfranchises
disfranchising
disfrancnise
disfrequent
disfriar
disfrock
disfrocked
disfrocking
disfrocks
disfunction
disfunctions
disfurnish
disfurnished
disfurnishment
disfurniture
disgage
disgallant
disgarland
disgarnish
disgarrison
disgavel
disgaveled
disgaveling
disgavelled
disgavelling
disgeneric
disgenic
disgenius
disgig
disgolify
disglory
disglut
disgood
disgorge
disgorged
disgorgement
disgorger
disgorges
disgorging
disgospel
disgospelize
disgout
disgown
disgrace
disgraced
disgraceful
disgracefully
disgracefulness
disgracement
disgracer
disgracers
disgraces
disgracia
disgracing
disgracious
disgracive
disgradation
disgrade
disgraded
dishes
dishevel
disheveled
disheveling
dishevelled
disheving
dishevelment
dishevelments
dishevels
dishevely
disheusement
dishful
dishfuls
dishier
dishiest
dishing
dishlike
dishling
dishmaker
dishmaking
dishmonger
dishmop
dishome
dishonest
dishonesties
dishonestly
dishonesty
dishonor
dishonorable
dishonorableness
dishonorably
dishonorary
dishonored
dishonorer
dishonoring
dishonors
dishonour
dishonourable
dishonourableness
dishonourably
dishonourary
dishonoured
dishonourer
dishonouring
dishorn
dishomer
dishorse
dishouse
dishpan
dishpanful
dishpans
dishrag
dishrags
dishtowel
dishtowels
dishhumanize
dishumor
dishmour
dishware
dishwares
dishwash
dishwasher
dishwashers
dishwashing
dishwashings
dishwater
dishwatery
dishwiper
dishwiping
dishy
disidentify
disilane
disilicane
disilicate
disilicic
disilcid
disilicide
disillude
disilluded
disilluminate
disillusion
disillusionary
disillusioned
disillusioning
disillusionise
disillusionised
disillusioniser
disillusionising
disillusionist
disillusionize
disillusionized
disillusionizer
disillusionizing
disillusionment
disillusionment's
disillusionments
disillusions
disillusive
disimagine
disimbitter
disimitate
disimitation
disimmune
disimpark
disimpassioned
disimprison
disimprisonment
disimprove
disimprovement
disincarcerate
disincarceration
disincarnate
disincarnation
disincentive
disinclination
disinclinations
disincline
disinclined
disinclines
disinclining
disinclose
disincorporate
disincorporated
disincorporating
disincorporation
disincrease
disincrust
disincrustant
disincrustation
disindividualize
disinfest
disinfestant
disinfected
disinfector
disinfesting
disinfestation
disinfecction
disinfecctants
disinfecctant
disinfeccted
disinfector
disinfesto
disinfeudation
disinflame
disinflated
disinflating
disinflation
disinflationary
disinformation
disingenious
disingenuity
disingenuous
disingenuously
disingenuousness
disinhabit
disinherison
disinherit
disinheritable
disinheritance
disinheritances
disinherited
disinheriting
disinherits
disinhibition
disinhume
disinhumed
disinhuming
disinsection
disinsectization
disinsulation
disinsure
disintegrable
disintegrant
disintegrate
disintegrated
disintegrates
disintegrating
disintegration
disintegrationist
disintegrations
disintegrative
disintegrator
disintegrators
disintegratory
disintegrity
disintegrous
disintensify
disinter
disinteress
disinterest
disinterested
disinterestedly
disinterestedness
disinteresting
disintermediation
disinterment
disinterred
disinterring
disinters
disintertwine
disinthral

disintoxicate
disintoxication
disintrench
disintricate
disinure
disinvagination
disinvest
disinvestiture
disinvestment
disinvigorate
disinvite
disinvolve
disinvolvement
disjasked
disjasket
disjaskit
disject
disjected
disjecting
disjection
disjects
disjeune
disjoin
disjoinable
disjoined
disjoining
disjoins
disjoint
disjointed
disjointedly
disjointedness
disjointing
disjointly
disjointness
disjoins
disjointure
dislikeness
disliker
dislikers
dislikes
disliking
dislimb
dislimn
dislimed
dislimming
dislims
dislink
dislip
dislive
dislluminate
disload
dislocability
dislocable
dislocate
dislocated
dislocatedly
dislocatedness
dislocates
dislocating
dislocation
dislocations
dislocator
dislocatory
dislock
dislodge
dislodgeable
dislodged
dislodgement
dislodges
dislodging
dislodgment
disloign
dislove
disloyal
disloyalist
disloyally
disloyalties
disloyalty
discluster
disclustered
disclustering
disclustre
dislusted
dislustering
dismember

dismembering

dismemberment

dismemberments

dismembers

dismembrate

dismembrated

dismembrator

dismerit

dismes

dismettled

disminion

disminister

diss

dissisable

dissal

dissal's

dissals

dissamed

disser

dissers

dissises

dissiscible

dississing

dississingly

dissission

dississive

dissisory

dismit

dismoded

dismortgage

dismortgaged

dismortgaging

dismount

dismountable

dismounted

dismounting

dismouts

dismutnation

disna

disnatural

disnaturalization

disnaturalize

disnature

disnatured

disnating

disnest

disnew
disney
disneyland
disniche
disnosed
disnumber
disobedience
disobedient
disobediently
disobey
disobeyal
disobeyed
disobeyer
disobeyers
disobeying
disobeys
disobligation
disobligatory
disoblige
disobligated
disobliger
disobliges
disobliging
disobligingly
disobligingness
disobstruct
disoccident
disocclude
disoccluded
disoccluding
disoccupation
disoccupied
disoccupy
disoccupying
disodic
disodium
disomatic
disomatous
disomaty
disomic
disomus
disoperation
disoperculate
disopinion
disoppilate
disorb
disorchard
disordain
disordained
disordeine
disorder
disordered
disorderedly
disorderedness
disorderer
disordering
disorderliness
disorderly
disorders
disordinance
disordinate
disordinated
disordination
disorgan
disorganic
disorganise
disorganised
disorganiser
disorganising
disorganization
disorganize
disorganized
disorganizer
disorganizers
disorganizes
disorganizing
disorient
disorientate
disorientated
disorientates
disorientating
disorientation
disoriented
disorienting
disorients
disour
disown
disownable
disowned
isowning
disownment
disowns
disdioxidate
dissoxygenate
dissoxygenation
disozonize
disp
dospace
dispersoidology
dispensalize
dispensate
dispersonate
dispensification
dispensify
dispetal
disphenoid
dispicion
dispiece
dispirem
dispireme
dispirit
dispirited
dispiritedly
dispiritedness
dispiriting
dispiritingly
dispiritment
dispirits
dispiteous
dispiteously
dispiteousness
displace
displaceability
displaceable
displaced
displacement
displacement's
displacements
displacency
displacer
displaces
displacing
displant
displanted
displanting
displants
displat
display
displayable
displayed
displayer
displaying
displays
disple
displeasance
displeasant
displease
displeased
displeasedly
displeaser
displeases
displeasing
displeasingly
displeasingness
displeasurable
displeasurably
displeasure
displeasureable
displeasureably
displeased
displeasurement
displeasures
displeasing
displeasing

displenish
displenic
displacency
displacery
displod 
displod 
disploding
disploding
displume 
displumed
displumes
displuming
displuviate
dispoint
dispond

dispondaic
dispondee
dispone
disponed

disponge
disponing

dispoence
disponent
disponer

dispoine
dispoine

disport

disported
disporting
disportive
disportment
dispunge
dispunishable
dispunitive
dispurpose
dispurse
disurvey
disputability
disputable
disputableness
disputably
disputacity
disputant
disputants
disputation
disputations
disputatious
disputatiously
disputatiousness
disputative
disputatively
disputativeness
disputator
dispute
disputed
disputeful
disputeless
disputer
disputers
disputes
disputing
disputisoun
disqualifiable
disqualification
disqualifications
disqualified
disqualifies
disqualify
disqualifying
disquantity
disquarter
disquiet
disquieted
disquietedly
disquietedness
disquiiten
disquieter
disquieting
disquietingly
disrelation
disrelish
disrelishable
disre member
disrepair
disreport
disreputability
disreputable
disreputableness
disreputably
disreputation
disrepute
disreputed
disrespect
disrespectability
disrespectable
disrespec ter
disrespectful
disrespectfully
disrespectful ness
disre spective
disrespondency
dis re st
disrestore
dis reverence
dis ring
disrobe
dis robed
disro bement
disro ber
dis robers
disrobes
disrobing
disroof
dis ro ost
dis root
dis-rooted
dis rooting
disroot ing
disroots
dis rout
disrudder
disruddered
dis ruly
disrump
dis rupt
dis ruptability
dis ruptable
dis rupted
dissensualize
dissent
dissentaneous
dissentaneousness
dissertation
dissented
dissenter
dissenterism
dissenters
dissentiate
dissentience
dissentiency
dissentient
dissentiently
dissentients
dissenting
dissentingly
dissention
dissentious
dissentiously
dissentism
dissentive
dissentment
dissents
disepiment
disepimental
dissert
dissertate
dissertated
dissertating
dissertation
dissertation's
dissertational
dissertationist
dissertations
dissertative
dissertator
disserted
disserting
disserts
disserve
disserved
disserves
disservice
disserviceable
disserviceableness
disserviceably
disservices
dissolutional
dissolutionism
dissolutionist
dissolutions
dissolutive
dissolvability
dissolvable
dissolvableness
dissolvative
dissolve
dissolveability
dissolved
dissolvent
dissolver
dissolves
dissolving
dissolingly
disonance
disonances
disonancies
disonancy
disonant
disonantly
disonate
disonous
dissoul
dissour
disspirit
disspread
disspreading
distate
dissuadable
dissuade
dissuaded
dissuader
dissuades
dissuading
dissuasion
dissuasions
dissuasive
dissuasively
dissuasiveness
dissuasory
dissue
dissuit
dissuitable
dissuited
dissunder
dissweeten
dissyllabic
dissyllabification
dissyllabify
dissyllabise
dissyllabised
dissyllabising
dissyllabism
dissyllabize
dissyllabized
dissyllabizing
dissyllable
dissymmetric
dissymmetrical
dissymmetrically
dissymmetry
dissymmettric
dissympathize
dissympathy
dist
distad
distaff
distaffs
distain
distained
distaining
distains
distal
distale
distalia
distally
distalwards
distance
distanced
distanceless
distances
distancing
distancy
distannie
distant
distantly
distantness
distaste
distasted
distasteful
distastefully
distastefulness
distastes
distasting
distater
distaves
distelfink
distemonous
distemper
distemperance
distemperate
distemperature
distempered
distemperedly
distemperedness
distemperer
distempering
distemperment
distemperoid
distemperure
distentant
distend
distended
distendedly
distendedness
distender
distending
distends
distensibilities
distensibility
distensible
distensile
distension
distensions
distensive
distent
distention
distentions
dister
disterminate
disterr
disthene
distrall
disthrone
disthroned
disthroning
distich
distichal
distichiasis
distichous
distichously
distichs
distil
distileries
distillery
distill
distillable
distillage
distilland
distillate
distillates
distillation
distillations
distillator
distillatory
distilled
distiller
distilleries
distillers
distillery
distilling
distillment
distillmint
distills
distilment
distils
distinct
distincter
distinctest
distinctify
distinctio
distinction
distinction's
distinctional
distinctionless
distinctions
distinctity
distinctive
distinctively
distinctiveness
distinctly
distinctness
distinctor
distingu
distingue
distinguee
distinguish
distinguishability
distinguishable
distinguishableness
distinguishably
distinguished
distinguishedly
distinguisher
distinguishes
distinguishing
distinguishingly
distinguishment
distinction
distitle
distn
distoclusion
distoma
distomatosis
distomatous
distome
distomes
distomian
distomiasis
distort
distortable
distorted
distortedly
distortedness
distorter
distorters
distorting
distortion
distortion's
distortional
distortionist
distortionless
distortions
distortive
distorts
distr
distract
distracted
distractedly
distractedness
distracter
distracting

distractibility
distractible
distractile
distracting
distractingly
distraction
disturber
disturbers
disturbing
disturbingly
disturbor
disturbs
disturn
disturnpike
disty
distylar
distyle
disubstituted
disubstitution
disulfate
disulfid
disulfide
disulfids
disulfiram
disulfonic
disulfotone
disulfoxid
disulfoxide
disulfuret
disulfuric
disulphate
disulphid
disulphide
disulphonate
disulphone
disulphonic
disulphoxid
disulphoxide
disulphuret
disulphuric
disunified
disuniform
disuniformity
disunify
disunifying
disunion
disunionism
disunionist
disunions
disunite
disunited
disuniter
disuniters
disunites
disunities
disuniting
disunity
disusage
disusance
disuse
disused
disuses
disusing
disutility
disutilize
disvaluation
disvalue
disvalued
disvalues
disvaluing
disadvantage
disvelop
disventure
disvertebrate
disvisage
disvisor
disvoice
disvouch
disvulnerability
diswarn
diswarren
diswarrened
diswarrenening
diswashing
disweapon
diswench
diswere
diswit
diswont
diswood
disworkmanship
disworship
disworth
disyllabic
disyllabism
disyllabize
disyllabized
disyllabizing
disyllable
disyntheme
disyoke
disyoked
disyokes
disyoking
dit
dita
dital
ditali
ditalini
ditas
ditation
ditch
ditch's
ditchbank
ditchbur
ditchdigger
ditchdigging
ditchdown
ditched
ditcher
ditchers
ditches
ditching
ditchless
ditchside
ditchwater
dite
diter
diterpene
ditertiary
dites
ditetragonal
ditetrahedral
dithalous
dithecal
dithecous
ditheism
ditheisms
ditheist
ditheistic
ditheistical
ditheists
dithematic
dither
dithered
ditherer
dithering
dithers
dithery
dithiobenzoic
dithioglycol
dithioic
dithiol
dithion
dithionate
dithionic
dithionite
dithionous
dithymol
dithyramb
dithyrambic
dithyrambically
dithyrambs
diting
dition
ditokous
ditoly1
ditone
ditrematous
ditremid
ditrichotomous
ditriglyph
ditriglyphic
ditrigonal
ditrigonally
ditrochean
ditrochee
ditrochous
ditroite
dits
ditt
dittamy
dittander
dittanies
dittany
dittay
ditted
ditried
ditties
ditting
ditto
dittoed
dittoes
dittogram
dittograph
dittographic
dittography
dittoing
dittologies
dittology
ditton
dittos
ditty
dittying
diumvirate
diuranate
diureide
diureses
diuresis
diuretic
diuretical
diuretically
diureticalness
diuretics
diurn
diurnal
diurnally
diurnalness
diurnals
diurnation
diurne
diurnule
diuron
diurons
diuturnal
diuturnity
div
diva
divagate
divagated
divagates
divagating
divagation
divagational
divagationally
divagations
divagatory
divalence
divalent
divan
divan's
divans
divaporation
divariant
divaricate
divaricated
divaricately
divaricating
divaricatingly
divarication
divaricator
divas
divast
divata
dive
divebomb
dived
divekeeper
divel
dvell
divelled
dvellent
divelicate
divelling
diver
diverb
diverberate
diverge
derged
dergingement
dvergence
dvergence's
divergences
divergencies
dergency
diverenge
dervgent
dervingently
dervges
dervinging
dervingingly
divers
diverse
dersely
derseness
dersicolored
dersifiability
dersifiable
dersification
dersifications
dersified
dersifier
dersifies
dersiflorate
diversiflorous
diversifoliate
diversifolious
diversiform
diversify
diversifying
diversion
diversional
diversionary
diversionist
diversions
diversipedate
diversisporous
diversities
diversity
diversly
diversory
divert
diverted
divertedly
diverter
diversers
divertibility
divertible
diverticle
diverticula
diverticular
diverticulate
diverticulitis
diverticulosis
diverticulum
divertila
divertimenti
divertimento
divertimentos
diverting
divertingly
divertingness
divertise
divertisement
divertissant
divertissement
divertissements
divertive
divertor
diverts
dives
divest
divested
divestible
divesting
divestitive
divestiture
divestitures
divestment
divests
divesture
divet
divi
divia
divid
dividable
dividableness
dividant
divide
divided
dividedly
dividedness
dividend
dividend's
dividends
dividendus
divident
divider
dividers
divides
dividing
dividingly
dividivis
dividual
dividualism
dividually
dividuity
dividuous
divinability
divinable
divinail
divination
divinations
divinator
divinatory
divine
divined
divinely
divinerness
diviner
<table>
<thead>
<tr>
<th>divineress</th>
<th>diviners</th>
<th>divines</th>
<th>divinesse</th>
<th>divinest</th>
<th>diving</th>
<th>divinied</th>
<th>divinify</th>
<th>divinifying</th>
<th>divining</th>
<th>diviningly</th>
<th>divinisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>divinise</td>
<td>divinised</td>
<td>divinises</td>
<td>divinizng</td>
<td>divinister</td>
<td>divinistre</td>
<td>divinities</td>
<td>divinity</td>
<td>divinity's</td>
<td>divinityship</td>
<td>divinization</td>
<td>divinize</td>
</tr>
<tr>
<td>divinized</td>
<td>divinizes</td>
<td>divinizing</td>
<td>divinyl</td>
<td>divisa</td>
<td>divise</td>
<td>divisibilities</td>
<td>divisibility</td>
<td>divisible</td>
<td>divisibleness</td>
<td>divisibly</td>
<td>division</td>
</tr>
<tr>
<td>divisions</td>
<td>divisive</td>
<td>divisively</td>
<td>divisiveness</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
divisor
divisor's
divisorial
divisors
divisory
divisural
divorce
divorceable
divorced
divorcee
divorcees
divorcement
divorcements
divorcer
divorcers
divorces
divorceuse
divorcible
divorcing
divorcive
divort
divot
divoto
divots
divulgation
divulgated
divulgater
divulgating
divulgation
divulgator
divulgatory
divulge
divulged
divulgement
divulgence
divulgences
divulger
divulgers
divulges
divulgging
divulse
divulsed
divulslng
divulsion
divulsive
divulsor
divus
divvied
docile
docilely
docilities
docility
docimasia
docimasies
docimastic
docimastical
docimasy
docimology
docious
docity
dock
dockage
dockages
docked
docken
docker
dockers
docket
docketed
docketing
dockets
dockhand
dockhands
dockhead
dockhouse
docking
dockization
dockize
dockland
docklands
dockmackie
dockman
dockmaster
docks
dockside
docksides
dockworker
dockyard
dockyardman
dockyards
docmac
docglossan
docglossate
docosane
docosanoic
docquet
doctrinizing
doctrix
doctus
docudrama
docudramas
document
documentable
documental
documentalist
documentarian
documentaries
documentarily
documentarist
documentary
documentary's
documentation
documentation's
documentational
documentations
documented
documenter
documenters
documenting
documentize
documentor
documents
dod
dodd
doddard
doddart
dodded
dodder
doddered
dodderer
dodderers
doddering
dodders
doddery
doddie
doddies
dodding
doddle
doddy
doddypoll
dodecade
dodecadrachm
dodecafid
dodecagon
dodecagonal
dodecahedra
dodecahedra
dodecahedral
dodecahedral
dodecahedron
dodecahedrons
dodecahydrate
dodecahydrated
dodecamerous
dodecanal
dodecane
dodecanoic
dodecant
dodecapartite
dodecapetalous
dodecaphonic
dodecaphonically
dodecaphonism
dodecaphonist
dodecaphony
dodecarch
dodecarchy
dodecasemic
dodecastylar
dodecastyle
dodecastylos
dodecasyllabic
dodecasyllable
dodecatemory
dodecatoic
dodecatyl
dodecatylic
dodecuplet
dodecyl
dodecyline
dodecylic
dodecylphenol
dodgasted
dodge
dodged
dodgeful
dodger
dodgeries
dodgers
dodgery
dodges
dodgier
dogana
dogarella
dogate
dogbane
dogbanes
dogberries
dogberry
dogbite
dogblow
dogboat
dogbodies
dogbody
dogbolt
dogbush
dogcart
dogcarts
dogcatcher
dogcatchers
dogdom
dogdoms
doge
dogear
dogared
dogears
dogedom
dogedoms
dogeless
doges
dogeship
dogships
dogey
dogeyes
dogface
dogfaces
dogfall
dogfennel
dogfight
dogfighting
dogfights
dogfish
dogfishes
dogfoot
dogfought
dogged
doggedly
doggedness
dogger
doggerel
doglegs
dogless
doglile
dogly
dogma
dogma's
dogman
dogmas
dogmata
dogmatic
dogmatical
dogmatically
dogmaticalness
dogmatician
dogmatics
dogmatisation
dogmatise
dogmatised
dogmatiser
dogmatising
dogmatism
dogmatist
dogmatists
dogmatization
dogmatize
dogmatized
dogmatizer
dogmatizing
dogmeat
dogmen
dogmouth
dognap
dognaped
dognaper
dognapers
dognaping
dognapped
dognapper
dognapping
dognaps
dogplate
dogproof
dogs
dogsbodies
dogsbody
dogship
dogshore
dogskin
dolichocephalic
dolichocephalism
dolichocephalize
dolichocephalous
dolichocephaly
dolichocercic
dolichocnemic
dolichocranial
dolichocranic
dolichocrany
dolichofacial
dolichohieric
dolichopellic
dolichopodous
dolichoprosoponic
dolichos
dolichosaur
dolichosauric

dolichostylous
dolichotmema
dolichuric
dolichurus
dolina
doline
doling
dolioform
dolisie
dolite
dolittle
dolium
doll
doll's
dollar
dollarbird
dollardee
dollardom
dollarm

dollarfish
dollarfishes
dollarleaf
dollars
dollarwise
dollbeer
dolldom
dolled
dolley
dolface
dolled
dollfish
domed
domelike
doment
domer
domes
domesday
domesdays
domestic
domesticability
domesticable
domesticality
domestically
domesticate
domesticated
domesticates
domesticating
domestication
domestications
domesticative
domesticator
domesticities
domesticity
domesticize
domesticized
domestics
domett
domeykite
domic
domical
domically
domicil
domicile
domiciled
domicilement
domiciles
domiciliar
domiciliary
domiciliate
domiciliated
domiciliating
domiciliation
domiciliii
domiciling
domicils
domiculture
domification
domify
domina
dominae
dominance
dominancy
dominant
dominantly
dominants
dominate
dominated
dominates
dominating
dominatingly
domination
dominations
dominative
dominator
dominators
domine
dominee
domineer
domineered
domineerer
domineering
domineeringly
domineeringness
domineers
domines
doming
domini
dominial
dominica
dominical
dominicale
dominican
dominicans
dominick
dominicker
dominicks
dominie
domines
dominion
dominionism
dominionist
dominions
dominique
dominium
dominiums
domino
dominoes
donnishly
donnishness
donnism
donnock
donnot
donny
donnybrook
donnybrooks
donor
donors
donorship
donought
donovan
dons
donship
donsie
donsky
donsy
dont
donum
donut
donuts
donzel
donzilla
donzels
doo
doob
doocot
doodab
doodad
doodads
doodah
doodle
doodlebug
doodled
doodler
doodlers
doodles
doodlesack
doodling
doodskop
doohickey
doohickeys
doohickus
doohinkey
doohinkus
dooya
dook
doorkeep
doorkeeper
doorknob
doorknobs
doorless
doortile
doormaid
doormaker
doormaking
doorman
doormat
doormats
doormen
doornail
doornails
doornboom
doornpiece
doornplate
doornplates
doornpost
doornposts
doors
doorsill
doorsills
doordstead
doordstep
doordstep's
doordsteps
doordstone
doordstop
doordstops
doordward
doordway
doordway's
doordways
doordweed
doordwise
dooryard
dooryards
doover
dooxidize
doover
doowzer
doowzers
doowzies
doowzy
dop
dopa
dopamelanin
dopamine
dopaminergic
dopamines
dopant
dopants
dopaoxidase
dopas
dopatta
dopchick
dope
dopebook
doped
dopehead
doper
dopers
dopes
dopesheet
dopester
dopesters
dopey
dopier
dopiest
dopiness
dopinesses
doping
dopped
doppelganger
doppelkummel
dopper
dopperbird
doppia
dopping
doppio
doppler
dopplerite
dopster
dopy
dor
dora
dorab
dorad
doradilla
dorado
dorados
doraliun
doraphobia
doray
dorbeetle
dormy
dorn
dorneck
dornecks
doniec
donick
donicks
donock
donocks
dononicum
donosacral
donorcentral
dorosternal
dorothy
dorp
dorper
dorpers
dorps
dorr
dorrbeetle
dorrs
dors
dorsa
dorsabdominal
dorsabdominally
dorsad
dorsal
dorsal
dorsale
dorsales
dorsalgia
dorsalis
dorsally
dorsalmost
dorsals
dorsalward
dorsalwards
dorse
dorsel
dorser
dorsers
dorsi
dorsibranch
dorsibranchiate
dorsicollar
dorsicolumn
dorsicommissure
dorsicornu
dorsiduct
dorsiferous
dorsifixed
dorsiflex
dorsiflexion
dorsiflexor
dorsigerous
dorsigrade
dorsilateral
dorsilumbar
dorsifixed
dorsimesal
dorsimeson
dorsiparous
dorsipinal
dorsispinal
dorsiventral
dorsiventrality
dorsiventrally
dorsoabdominal
dorsoanterior
dorsoapical
dorsocaudad
dorsocaudal
dorsocentral
dorsocephalad
 dorsocephalic
dorsocephalad
dorsocephalad
dorsocephalad
dorsoscapular
dorsoscapular
dorsosternal
dorsothoracic
dorsoventrad
dorsoventral
dorsoventrality
dorsoventrally
dorsula
dorsulum
dorsum
dorsumbonal
dort
dorter
dortiness
dortiship
dortour
dorts
dorty
doruck
dory
doryline
doryman
dorymen
doryphoros
doryphorus
dos
dosa
dosadh
dosage
dosages
dosain
dose
dosed
doser
dosers
doses
dosimeter
dosimeters
dosimetric
dosimetrician
dosimetries
dosimetrist
dosimetry
dosing
dosiology
dosis
dosology
doss
dossal
dossals
dossed
dotiness
doting
dotingly
dotingness
dotish
dotishness
dotkin
dotless
dotlet
dotlike
dotriacontane
dots
dottard
dotted
dottedness
dottel
dottels
dotter
dotterel
dotterels
dotters
dottier
dottiest
dottily
dottiness
dotting
dottle
dotted
dottedness
dottled
dottler
dottles
dotting
dottrel
dottrels
dotters
dotty
doty
douane
douanes
douanier
douar
doub
double
doubled
doubledamn
doubleganger
doublegear
doublehanded
doublehandedly
doublehandedness
doublehatching
doubleheader
doubleheaders
doublehearted
doubleheartedness
doublehorned
doublehung
doubleleaf
doublelunged
doubleness
doubleprecision
doubler
doublers
doubles
doublespeak
doublet
doublet's
doubled
doublethink
doublethinking
doublethought
doubleton
doubletone
doubletree
doublets
doublette
doublewidth
doubleword
doublewords
doubleyou
doubling
doubloon
doubleoons
doubleure
doubleures
doubly
doubt
doubtable
doubtably
doubtance
doubted
doubtedly
doubter
doubters
doubtful
doubtfully
doubtfulness
doubting
doubtingly
doubtingness
doubtless
doubtlessly
doubtlessness
doubtmonger
doubtous
doubts
doubtsome
doubty
douc
douce
doucely
douceness
doucere
doucet
douceur
douceurs
douche
douched
douches
douching
doucin
doucine
doucker
doudle
dough
doughbellies
doughbelly
doughbird
doughboy
doughboys
doughface
doughfaceism
doughfeet
doughfoot
doughfoots
doughhead
doughier
doughiest
doughiness
doughlike
doughmaker
doughmaking
doughman
doughmen
doughnut
doughnut's
doutous
douvecot
doux
douzaine
douzaines
douzainier
douzeper
douzepers
douzieme
douziemes
dove
dovecot
dovecote
dovecotes
dovecots
doveflower
dovefoot
dovehouse
dovekey
dovekeys
dovekie
dovekies
dovelet
dovelike
dovelikeness
doveling
doven
dovened
dovening
dovens
dover
doves
dovetail
dovetailed
dovetailer
dovetailing
dovetails
dovetailwise
doveweed
dovewood
dovey
dovish
dovishness
dow
dowable
dowage
dowager
dowagerism
dowagers
dowcet
dowcote
dowd
dowdier
dowdies
dowdiest
dowdily
dowdiness
dowdy
dowdyish
dowdyism
dowed
dowel
doweled
doweling
dowelled
dowelling
dowels
dower
doweral
dowered
doweress
doweries
dowering
dowerless
dowers
dowery
dowf
dowfart
dowhacky
dowie
dowily
dowiness
dowing
dowitch
dowitcher
dowitchers
dowl
dowlas
dowlas
dowless
dowly
downment
down
downbear
downbeard
downbeat
downbeats
downbend
downbent
downby
downbye
downcast
downcastly
downcastness
downcasts
downcome
downcomer
downcomes
downcoming
downcourt
downcried
downcry
downcrying
downcurve
downcurved
downcut
downdale
downdraft
downdraught
downed
downer
dowers
downface
downfall
downfallen
downfalling
downfalls
downfeed
downfield
downflow
downfold
downfolded
downgate
downgoing
downgone
downgrade
downgraded
downgrades
downgrading
downgrowth
downgyved
downhanging
downhaul
downhauls
downheaded
downhearted
downheartedly
downheartedness
downhill
downhills
downier
downiest
downily
downiness
downing
downland
downless
downlie
downlier
downligging
downlike
downline
downlink
downlinked
downlinking
downlinks
download
downloadable
downloaded
downloading
downloads
downlooked
downlooker
downlying
downmost
downness
downpipe
downplay
downplayed
downplaying
downplays
downpour
downpouring
downpours
downrange
downright
downrightly
downrightness
downriver
downrush
downrushingly
downs
downset
downshare
downshift
downshifted
downshifting
downshifts
downshore
downside
downsinking
downsetting
downsize
downsized
downsizes
downsizing
downslide
downsizing
downsliding
downslip
downslope
downsman
dowsome
downspout
downstage
downstair
downstairs
downstate
downstater
downsteepy
downstream
downstreet
downstoke
downstrokes
downswing
downswings
downtake
downthrow
downtrown
downthrust
downtime
downtimes
downtown
downowner
downtowns
downtrampling
downtreading
downtrend
downtrends
downtrod
downtrodden
downtroddenness
drakefly
dakelet
akes
akestone
aknite
dram
drama
drama's
dramalogue
dramamine
damas
dramatic
dramatical
dramatically
dramaticism
dramaticle
dramatics
dramaticule
dramatis
dramatisable
dramatise
dramatised
dramatiser
dramatising
dramatism
dramatist
dramatist's
dramatists
dramatizable
dramatization
dramatizations
dramatize
dramatized
dramatizer
dramatizes
dramatizing
dramaturge
dramaturgic
dramaturgical
dramaturgically
dramaturgist
dramaturgy
drame
dramm
drammach
drammage
dramme
drammed
drammer
dramming
drammock
drammocks
drams
dramseller
dramshop
dramshops
drang
drank
drant
drapability
drapable
drape
drapeability
drapeable
draped
draper
draperess
draperied
draperies
drapers
drapy
drapy's
drapes
drapet
drapetomania
draping
drapping
drassid
drastic
drastically
drat
dratchell
drate
drats
dratted
dratting
draught
draught's
draughtboard
draughted
draughted
draught
draughthouse
draughtier
draughtiest
draughtily
draughtiness
driblets
dribs
dridder
diddle
drie
driech
dried
drieh
drier
drier's
drierman
driers
dries
driest
drift
driftage
driftages
driftbolt
drifted
drifter
drifters
driftfish
driftfishes
driftier
driftiest
driftiest
drifting
driftingly
driftland
driftless
driftlessness
driftlet
driftman
driftpiece
driftpin
driftpins
drifts
driftway
driftweed
driftwind
driftwood
drifty
drighten
drightin
drill
drillability
drillable
drillbit
drilled
drisk
driessel
drivable
drivage
drive
driveable
driveaway
driveboat
drivebolt
drivecap
drivehead
drivel
driveled
driver
divelers
driveline
driving
driveling
drivelingly
drivelled
driveller
drivellers
drivelling
drivellingly
drivels
driven
drivenness
drivepipe
driver
driverless
drivers
drivership
drives
drivescrew
driveway
driveway's
driveways
drivewell
driving
drivingly
drizzle
drizzled
drizzles
drizzler
drizzliest
drizzling
drizzlingly
drizzly
drochuil
drowsy
drowte
droyl
drub
drubbed
drubber
drubbers
drubbing
drubbings
drubble
drubbly
drubs
drucken
drudge
drugged
drudger
drudgeries
drudgers
drudgery
drudges
drudging
drudgingly
drudgism
druery
druffen
drug
drug's
 drugeteria
drugge
drugged
drugger
drugergeries
druggery
drugget
druggetting
druggets
druggier
druggiest
drugging
druggist
druggist's
druggister
druggists
druggy
drugless
drugmaker
drugman
drugs
drugshop
drugstore
drugstores
druid
druidess
druidesses
druidic
druidical
druidism
druidisms
druidology
druidry
druids
druith
drum
drum’s
drumbeat
drumbeater
drumbeating
drumbeats
drumble
drumbled
drumbledore
drumbler
drumbles
drumbling
drumfire
drumfires
drumfish
drumfishes
drumhead
drumheads
drumler
drumlier
drumliest
drumlike
drumlin
drumline
drumlinoid
drumlins
drumloid
drumloidal
drumly
drummed
drummer
drummer’s
drummers
drumming
drummock
drummy
drumread
drumreads
drumroll
drumrolls
drums
drumskin
drumslade
drumsler
drumstick
drumsticks
drumwood
drug
drungar
drunk
drunkard
drunkard's
drunkards
drunkelew
drunken
drunkeness
drunkenly
drunkenness
drunkensome
drunkenwise
drunker
drunkeries
drunkery
drunkest
drunkly
drunkometer
drunk
drun
drupaceous
drupal
drupe
drupel
drupelet
drupelets
drupeole
druples
drupetum
drupiferous
drupose
druvy
druse
duddies
duddle
duddy
dude
dudeen
dudeens
dudelsack
dudes
dudgen
dudgeon
dudgeons
dudine
dudish
dudishly
dudishness
dudism
dudler
dudley
dudleyite
dudman
duds
due
duecentist
duecento
duecentos
dueful
duel
dueled
dueler
duelers
dueling
duelist
duelistic
duelists
duelled
dueller
duellers
duelli
duelling
duellist
duellistic
duellists
duellize
duello
duellos
duels
duenas
duende
dulcifluous
dulcify
dulcifying
dulcigenic
dulciloquent
dulciloquy
dulcimer
dulcimers
dulcimore
dulcinea
dulcineas
dulcite
dulcitol
dulcitudo
dulcity
dulcor
dulcorate
dulcose
duledge
duler
dulia
dulias
dull
dullard
dullardism
dullardness
dullards
dullbrained
dulled
duller
dullery
duldest
dullhead
dullhearted
dullification
dullify
dulling
dullish
dullishly
dullity
dullness
dullnesses
dullpate
dulls
dullsome
dullsville
dully
dulness
dulnesses
dulocracy
dulosis
dulotic
dulse
dulseman
dulses
dult
dultie
duluth
dulwilly
duly
dum
duma
dumaist
dumas
dumb
dumba
dumbbell
dumbbell's
dumbbeller
dumbbells
dumbcow
dumbed
dumbed
dumber
dumbest
dumbfish
dumbfound
dumbfounded
dumbfounder
dumbfounderment
dumbfounding
dumbfoundment
dumbhead
dumbheaded
dumbing
dumble
dumbledore
dumbly
dumbness
dumbnesses
dumbs
dumbstricken
dumbstruck
dumbwaiter
dumbwaiters
dumby
dumdum
dumdums
dumetose
dumfound
dumfounded
dumfounder
dumfounderment
dumfounding
dumfounds
dumka
dumky
dumme
dummered
dummerer
dummied
dummies
dumminess
dummkaph
dummkopfs
dummy
dummy's
dummying
dummyism
dummyweed
dumontite
dumortierite
dumose
dumosity
dumous
dump
dumpage
dumpcart
dumpcarts
dumped
dumper
dumpers
dumpfile
dumpl

dumpies
dumpiest
dumpily
dumpiness
dumping
dumpings
dumpish
dumpishly
dumpishness
dumple
dumped
dunelike
dunes
dunfish
dung
dungannonite
dungaree
dungarees
dungari
dungas
dungbeck
dungbird
dungbred
dunged
dungeon
dungeon's
dungeoner
dungeonlike
dungeons
dunger
dunghill
dunghills
dunghilly
dungier
dungiest
dunging
dungol
dungon
dungs
dungy
dungyard
duniewassal
dunite
dunites
dunitic
duniwassal
dunk
dunkadoo
dunked
dunker
dunkers
dunking
dunkirk
dunkle
dunkled
dunkling
dunks
dunlin
dunlins
dunnage
dunnaged
dunnages
dunnaging
dunnakin
dunne
dunned
dunner
dunness
dunnesses
dunnest
dunniewassel
dunning
dunnish
dunnite
dunnites
dunno
dunnock
dunny
dunpickle
duns
dunst
dunstable
dunster
dunstone
dunt
dunted
dunter
dunting
duttle
dunts
duny
dunziekte
duo
duocosane
duodecagon
duodecahedral
duodecahedron
duodecennial
duodecillion
duodecillions
duodecillionth
duodecimal
duodecimalty
duodecimally
duodecimals
duplicando
duplicate
duplicated
duplicately
duplicates
duplicating
duplication
duplications
duplicative
duplicator
 duplicator's
duplicators
duplicature
duplicatus
duplicia
duplicident
duplicidentate
duplicious
duplicipennate
duplicitas
duplicities
duplicitous
duplicitously
duplicity
duplication
duplified
duplify
duplifying
duplon
duplone
duply
dupondidii
dupondii
dupondius
duppa
dupped
dupper
duppies
dupping
duppy
dups
dur
dura
durabilities
durability
durable
durableness
durables
durably
duracine
durain
dural
duralumin
duramater
duramatral
duramen
duramens
durance
durances
durangite
durant
durante
duraplasty
duraquara
duras
duraspinalis
duration
duration's
durational
durationless
durations
durative
duratives
durax
durbachite
durbar
durbars
durdenite
durdum
dure
dured
duree
dureful
durene
durenol
dureresque
dures
duress
duresses
duressor
duret
duretto
durezza
durgah
durgan
durgen
durham
durian
durians
duricrust
duridine
during
duringly
durion
durions
durity
durmast
durmasts
durn
durndest
durned
durneder
durnedest
durning
durns
duro
duroc
durocs
durometer
duroquinone
duros
durious
duroy
durr
durra
durras
durrie
durries
durrin
durrs
durry
durst
durukuli
durum
durums
durwan
durwaun
durwal
durzel
durzel
dusack
duscle
dusenwind
dush
dyeweed
dyeweeds
dyewood
dyewoods
dygogram
dying
dyingly
dyingness
dyings
dykage
dyke
dyked
dykehopper
dyker
dykereeve
dykes
dyking
dyn
dynactinometer
dynagraph
dynam
dynameter
dynametric
dynametical
dynamic
dynamical
dynamically
dynamicity
dynamics
dynamis
dynamism
dynamisms
dynamist
dynamistic
dynamists
dynamitard
dynamite
dynamited
dynamiter
dynamiters
dynamites
dynamitic
dynamitical
dynamitically
dynamitining
dynamitish
dynamitism
dynamitist
dynamization
dynamize
dynamo
dynamoelectric
dynamoelectrical
dynamogeneses
dynamogenesis
dynamogenic
dynamogenous
dynamogenously
dynamogeny
dynamograph
dynamometamorphic
dynamometamorphism
dynamometamorphosed
dynamometer
dynamometers
dynamometric
dynamometrical
dynamometry
dynamomorphic
dynamoneure
dynamophone
dynamos
dynamoscope
dynamostatic
dynamotor
dynapolis
dynast
dynastic
dynastical
dynastically
dynasticism
dynastid
dynastidan
dynasties
dynasts
dynasty
dynasty's
dynatron
dynatrons
dyne
dynel
dynes
dynode
dynodes
dyophone
dyophysite
dyostyle
dyotheism
dyathelete
dyphone
dyptone
dys
dysacousia
dysacousis
dysacousma
dysacusia
dysadaptation
dysaesthesia
dysaesthetic
dysanagnosia
dysanalyte
dysaphia
dysaptation
dysarthria
dysarthric
dysarthrosis
dysautonomia
dysbarism
dysbulia
dysbulic
dyschiria
dyschroia
dyschromatopsia
dyschromatoptic
dyschronous
dyscrase
dyscrased
dyscrasia
dyscrasial
dyscrasic
dyscrasing
dyscrasite
dyscrasy
dyscratic
dyscraninism
dyscrystalline
dysenteric
dysenterical
dysenteries
dysentery
dysepulotic
dysepulotical
dyserethisia
dysergasia
dysergia
dysesthesia
dyesthetic
dysfunction
dysfunctional
dysfunctioning
dysfunctions
dysgenesic
dysgenesis
dysgenetic
dysgenic
dysgenical
dysgenics
dysgeogenous
dysgnosia
dysgonic
dysgraphia
dysidrosis
dyskeratosis
dyskinesia
dyskinetic
dyslalia
dyslectic
dyslexia
dyslexias
dyslexic
dyslexics
dyslogia
dyslogistic
dyslogistically
dyslogy
dysluite
dyslysin
dysmenorrhagia
dysmenorrhea
dysmenorrheal
dysmenorrheic
dysmenorrhoea
dysmenorrhoeal
dysmerism
dysmeristic
dysmerogenesis
dysmerogenetic
dysmeromorph
dysmeromorphic
dysmetria
dysmnesia
dysmorphism
dysmorphophobia
dysneuria
dysnomy
dysdile
dysodontiasis
dysodyle
dysorexia
dysrexy
dysoxidation
dysoxidizable
dysoxidize
dyspareunia
dyspathetic
dyspathy
dyspepsia
dyspepsies
dyspepsy
dyspeptic
dyspeptical
dyspeptically
dyspeptics
dysphagia
dysphagic
dysphasia
dysphasic
dysphemia
dysphemism
dysphemistic
dysphemize
dysphemized
dysphonia
dysphonic
dysphoria
dysphoric
dysphotic
dysphrasis
dysphrenia
dysphrenia
dyspituitarism
dysplasia
dysplastic
dyspnea
dyspneal
dyspneas
dyspneic
dyspnoea
dyspnoecal
dyspnoeas
ear
earable
earache
earaches
earbash
earbob
earcap
earclip
earcockle
eardrop
eardropper
eardrops
eardrum
eardrums
eared
earflap
earflaps
earflower
earful
earfuls
earhead
earhole
earing
earings
earjewel
earl
earl's
earlap
earlaps
earldom
earldoms
earlduck
earless
earlesss
earlet
earlier
earliest
earlike
earliness
earlish
earlobe
earlobes
earlock
earlocks
earls
earship
earships
early
earstones
eartab
eartag
eartagged
earth
earthboard
earthborn
earthbound
earthbred
earthdrake
earthed
earthen
earthenhearted
earthenware
earthfall
earthfast
earthgall
earthgrubber
earthian
earthier
earthiest
earthily
earthiness
earthing
earthkin
earthless
earthlier
earthliest
earthlight
earthlike
earthliness
earthling
earthlings
earthly
earthmaker
earthmaking
earthman
earthmen
earthmove
earthmover
earthmoving
earthnut
earthnuts
earthpea
earthpeas
earthquake
earthquake's
earthquaked
ebbets
ebbing
ebbman
ebbs
ebcasc
ebcd
ebcdic
ebdomain
ebenaceous
ebeneous
ebenezer
ebionite
eblis
eboe
ebon
ebonies
ebonige
ebonise
ebonised
ebonises
ebonising
ebonist
ebonite
ebonites
ebonize
ebonized
ebonizes
ebonizing
ebons
ebony
eboulement
ebracteate
ebracteolate
ebraick
ebriate
ebriated
ebriety
ebriety
ebrellade
ebriose
ebriosity
ebrious
ebriously
ebullate
ebulliate
ebullience
ebulliency
ebullient
ebulliently
ebulliometer
ebulliometry
ebullioscope
ebullioscopic
ebullioscopy
ebullition
ebullitions
ebullitive
ebulus
eburated
eburin
eburine
eburnated
eburnation
eburnean
eburneoid
eburneous
eburnian
eburnification
ec
ecad
ecalcarate
ecalcvate
econda
ecardinal
ecardine
ecarinate
ecart
ecarte
ecartes
ecaudate
ecb
ecbasis
ecbatic
ecblastesis
ecblastpsis
ecbole
ecbolic
ecbolics
eccaleobion
ecce
eccentrate
eccentric
eccentric's
eccentrical
eccentrically
eccentricities
eccentricity
eccentrics
eccentring
eccentrometer
ech
echondroma
echondrosis
echondrotome
echymoma
echymose
echymosed
echymoses
echymosis
echymotic
ecl
ecl
ecles
eclesia
eclesiae
eclesial
eclesiarch
eclesiarchy
eclesiast
eclesiastes
eclesiastic
eclesiastical
eclesiasticalism
eclesiastically
eclesiasticalness
eclesiasticism
eclesiasticize
eclesiastics
eclesiast
eclesiastro
eclesiastic
eclesiastic
eclesiastical
eclesiastical
eclesiastical
eclesiastic
eclesiast
eclesiastic
eclesiastically
eclesiasticalness
eclesiasticism
eclesiasticize
eclesiastics
eclesiast
eclesiastro
eclesiastic
eclesiastic
eclesiastical
eclesiastical
eclesiastical
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiast
eclesiactic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
eclesiastic
eclesiast
echinate
echinated
eching
echini
echinid
echinidan
echiniiform
echinital
echinite
echinochrome
echinococcosis
echinococcus
echinodermd
echinoderm
echinodermal
echinodermata
echinodermatous
echinodermic
echinoid
echinoids
echinologist
echinology
echinopsine
echinostome
echinostomiasis
echinulate
echinulated
echinulation
echinuliform
echins
echitamine
echites
echiurid
echiuroid
echnida
echo
echocardiogram
echoed
echoencephalography
echoer
echoers
echoes
echoey
echogram
echograph
echoic
echoing
echoingly
echoism
echoisms
echoist
echoize
echoized
echoizing
echolalia
echolalic
echoless
echolocate
echolocation
echometer
echopractic
echopraxia
echos
echovirus
echowise
echt
eciliate
ecize
ecklein
eclair
eclaircise
claircissement
clairissement
eclairs
eclampsia
eclamptic
eclat
eclated
eclating
 eclats
eclectic
eclectical
eclectically
eclecticism
eclecticist
eclecticize
eclectics
eclectism
eclectist
eclegm
eclehma
eclegme
eclipsable
eclipsareon
eclipsation
eclipse
eclipsed
eclipser
eclipses
eclipsing
eclipsis
eclipses
ecliptic
ecliptical
ecliptically
ecliptics
ecloric
eclorite
eclorites
eclorue
eclorues
eclorusion
eclorusions
ecmnnesia
eco
ecolidal
ecolide
ecolclimate
ecod
ecodeme
ecofd
ecole
ecoles
ecolitic
ecolitical
ecolitically
ecolitics
ecolologist
ecolologists
ecology
economist
econ
economese
econometer
econometric
econometrical
econometrically
econometrician
econometrics
econometrist
economic
economical
economically
economicalness
ecphore
ephoria
ephoriae
ephorias
ephorization
ephorize
ephory
ephova
ephraetic
ephrasis
ecrase
ecraseur
ecraseurs
ecrasite
ecrevisse
ecreulement
ecru
ecrus
ecrustaceous
ectasies
ecstasy
ecstatic
ecstasia
ecstatic
ecstatical
ecstatically
ecstaticize
ecstastics
ecstrophy
ectad
ectadenia
etal
etally
ectases
ectasia
ectasis
ectatic
ectene
ectental
ectepicondylar
ecteron
ectethmoid
ectethmoidal
ecthetically
ecthlimpses
ecthlimps
ecthyma
ecthymata
ecthymatous
ectiris
ectobatic
ectoblast
ectoblastic
ectobronchium
ectocardia
ectocarpaceous
ectocarpic
ectocarpous
ectocelic
ectochondral
ectocinerrea
ectocinereal
ectocelic
ectocommensal
ectocondylar
ectocondyle
ectocondyloid
ectocornea
ectocranial
ectocrine
ectoceneiform
ectocuneiform
ectocyst
ectodactylism
ectoderm
ectodermal
ectodermic
ectodermoidal
ectodermosis
ectoderms
ectodynamomorphic
ectoentad
ectoenzym
ectoenzyme
ectoethmoid
ectogeneous
ectogenesis
ectogenetic
ectogenic
ectogenous
ectoglia
ectolecithal
ectoloph
ectomere
ectomeres
ectomeric
ectomesoblast
ectomorph
ectomorphic
ectomorphism
ectomorphy
ectonephridium
ectoparasite
ectoparasitic
ectopatagia
ectopatagium
ectophloic
ectophyte
ectophytic
ectopia
ectopias
ectopic
ectoplacenta
ectoplasm
ectoplasmatic
ectoplasmic
ectoplastic
ectoplasmy
ectoproct
ectoproctan
ectoproctous
ectopterygoid
ectopy
ectoretina
ectorganism
ectorhinal
ectosarc
ectosarcous
ectosarcous
ectoskeleton
ectosomal
ectosome
ectosphenoid
ectosphenotic
ectosphere
ectosteal
ectosteally
ectostosis
ectotheca
ectotherm
ectothermic
ectotoxin
ectotrophic
effacement
effacer
effacers
effaces
effacing
effare
effascinate
effate
effatum
effect
effected
efcter
effecters
effectful
effectible
effecting
effective
effectually
effectiveness
effectivity
effectless
efctor
efctor's
efctors
efctress
effects
efctual
efctuality
efctualize
efctually
efctualness
efctuate
efctuated
efctuates
efctuating
efctuation
efctuous
efoil
efeminacy
efefminate
efeminated
efeminately
efeminateness
efeminating
efemination
efeminatize
efeminisation
efeminise
effortless
effortlessly
effortlessness
efforts
efossion
effraction
effractor
effranchise
effranchisement
effray
effrenate
effront
effronted
effronteries
effrontery
effs
effude
effulge
effulged
effulgence
effulgences
effulgent
effulgently
effulges
effulging
effumability
effume
effund
effuse
effused
effusely
effuses
effusing
effusiometer
effusion
effusions
effusive
effusively
effusiveness
effuso
effuviate
efl
eflagelliferous
efoliolate
efoliosae
efoveolate
efph
efractory
eggers
eggfish
eggfruit
egghead
eggheaded
eggheadedness
eggheads
egghot
egging
egglor
eggless
egglike
eggment
eggnog
eggnogs
eggplant
eggplants
egeroll
eggrolls
eggs
eggshell
eggshells
eggwhisk
eggy
egilops
egipto
egis
egises
eglandular
eglandulose
eglandulous
eglantine
eglantines
eglatere
eglateres
eglestonite
egling
eglogue
eglomerate
eglomise
egma
ego
egocentric
egocentrically
egocentricities
egocentricity
egocentrism
egocentristic
egression
egressive
egressor
egret
egrets
egrid
egrimony
egriot
egritude
egromancy
equalmente
egueiite
egurgitate
egrigitated
egrigitating
egruttulate
eypt
egyptian
egyptians
egyptologist
egyptology
eh
cheu
ehlite
ehrman
ehrwaldite
ehnanethical
ehuawa
eichbergite
eichwaldite
eicosane
eide
eident
eidently
eider
eiderdown
eiders
eidetic
eidetically
eidograph
eidola
eidolic
eidolism
eidology
eidolology
eidolon
eidolons
eikones
eikonology
eikons
eila
eild
eimer
eimeria
einkanter
einkorn
einkorns
einstein
einsteinian
einsteinium
eir
eirack
eire
eirenarch
eirenic
eirenicon
eiresione
eiry
eisegeses
eisegesis
eisegetic
eisegetical
eisell
eisenberg
eisenhower
eisodic
eisoptrophobia
eisteddford
eisteddfordau
eisteddfordic
eisteddfordism
eisteddffods
either
ejacula
ejaculate
ejaculated
ejaculates
ejaculating
ejaculation
ejaculations
ejaculative
ejaculator
ejaculators
ejaculatory
ejaculum
eject
ejecta
ejectable
ejectamenta
ejected
ejectee
ejecting
ejection
ejections
ejective
ejectively
ejectives
ejectivity
ejectment
ejector
ejectors
ejects
ejectum
ejicient
ejidal
ejido
ejidos
ejoo
ejulate
ejulation
ejurate
ejuration
ejusd
ejusdem
ekaboron
ekacaesium
ekaha
ekamanganese
ekasilicon
ekatantalum
eke
ekbergite
eked
ekename
eker
ekerite
ekes
ekhimi
eking
ekistic
ekistics
ekka
ekphore
electricalize
electrically
electricalness
electrican
electricans
electrician
electricians
electricity
electricize
electrics
electriferous
electrifiable
electrification
electrified
electrifier
electrifiers
electrifies
electrify
electrifying
electrine
electron
electronian
electronizable
electronization
electronize
electronized
electronizer
electronizing
electro
electroacoustic
electroacoustical
electroacoustically
electroacoustics
electroaffinity
electroamalgamation
electroanalysis
electroanalytic
electroanalytical
electroanesthesia
electroballistic
electroballistically
electroballistician
electroballistics
electrobath
electrobiological
electrobiologically
electrobiologist
electrobiology
electrobioscopy
electroblasting
electrobrasser
electrobus
electrocapillarity
electrocapillary
electrocardiogram
electrocardiograms
electrocardiograph
electrocardiographic
electrocardiographically
electrocardiographs
electrocardiography
electrocatalysis
electrocatalytic
electrocathaphoresis
electrocathaphoretic
electrocauteries
electrocauterization
electrocautery
electroceramic
electrochemical
electrochemically
electrochemist
electrochemistry
electrochronograph
electrochronographic
electrochronometer
electrochronometric
electrocoagulation
electrocoating
electrocolloidal
electrocontractility
electroconvulsive
electrocorticogram
electrocratic
electroculture
electrocute
electrocuted
electrocutes
electrocutting
electrocution
electrocutional
electrocutioner
electrocutions
electrocystoscope
electrode
electrode's
electrodeless
electrodentistry
electrodeposit
electrodepositable
electrodeposition
electrodepositor
electrodes
electrodesiccate
electrodesiccation
electrodiagnoses
electrodiagnosis
electrodiagnostic
electrodiagnostically
electrodialitic
electrodialitically
electrodialyses
electrodialysis
electrodialytic
electrodialyze
electrodialyzer
electrodipomatic
electrodisspersive
electrodissolution
electrodynamic
electrodynamical
electrodynamics
electrodynamism
electrodynamometer
electroed
electroencephalogram
electroencephalograms
electroencephalograph
electroencephalographic
electroencephalographical
electroencephalographically
electroencephalographs
electroencephalography
electroendosmose
electroendosmosis
electroendosmotic
electroengrave
electroengraving
electroergometer
electroetching
electroetching
electroetheral
electroextraction
electrofishing
electroform
<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>electrophoreses</td>
</tr>
<tr>
<td>electrophoresing</td>
</tr>
<tr>
<td>electrophoresis</td>
</tr>
<tr>
<td>electrophoretic</td>
</tr>
<tr>
<td>electrophoretically</td>
</tr>
<tr>
<td>electrophorettogram</td>
</tr>
<tr>
<td>electrophori</td>
</tr>
<tr>
<td>electrophoric</td>
</tr>
<tr>
<td>electrophorus</td>
</tr>
<tr>
<td>electrophotographic</td>
</tr>
<tr>
<td>electrophotography</td>
</tr>
<tr>
<td>electrophotometer</td>
</tr>
<tr>
<td>electrophotometry</td>
</tr>
<tr>
<td>electrophotomicrography</td>
</tr>
<tr>
<td>electrophototherapy</td>
</tr>
<tr>
<td>electrophrenic</td>
</tr>
<tr>
<td>electrophysicist</td>
</tr>
<tr>
<td>electrophysics</td>
</tr>
<tr>
<td>electrophysiologic</td>
</tr>
<tr>
<td>electrophysiological</td>
</tr>
<tr>
<td>electrophysiologically</td>
</tr>
<tr>
<td>electrophysiologist</td>
</tr>
<tr>
<td>electrophysiology</td>
</tr>
<tr>
<td>electropism</td>
</tr>
<tr>
<td>electroplaque</td>
</tr>
<tr>
<td>electroplate</td>
</tr>
<tr>
<td>electroplated</td>
</tr>
<tr>
<td>electroplater</td>
</tr>
<tr>
<td>electroplates</td>
</tr>
<tr>
<td>electroplating</td>
</tr>
<tr>
<td>electroplax</td>
</tr>
<tr>
<td>electropneumatic</td>
</tr>
<tr>
<td>electropneumatically</td>
</tr>
<tr>
<td>electropoion</td>
</tr>
<tr>
<td>electropolar</td>
</tr>
<tr>
<td>electropolish</td>
</tr>
<tr>
<td>electropositive</td>
</tr>
<tr>
<td>electropotential</td>
</tr>
<tr>
<td>electropower</td>
</tr>
<tr>
<td>electropsychrometer</td>
</tr>
<tr>
<td>electropult</td>
</tr>
<tr>
<td>electropuncturation</td>
</tr>
<tr>
<td>electropuncture</td>
</tr>
<tr>
<td>electropuncturing</td>
</tr>
<tr>
<td>electropyrometer</td>
</tr>
<tr>
<td>electoreceptive</td>
</tr>
<tr>
<td>electroreduction</td>
</tr>
<tr>
<td>electrorefine</td>
</tr>
</tbody>
</table>
electrorefining
electroresection
electroretinogram
electroretinograph
electroretinographic
electroretinography
electros
electroscission
electroscope
electroscopes
electroscopic
electrosensitive
electrosherardizing
electroshock
electroshocks
electrosmosis
electrostatic
electrostatical
electrostatically
electrostatics
electrosteel
electrostenolysis
electrostenolytic
electrostereotype
electrostriction
electrostrictive
electrosurgeries
electrosurgery
electrosurgical
electrosurgically
electrosynthesis
electrosynthetic
electrosynthetically
electrotactic
electrotautomerism
electrotaxis
electrotechnic
electrotechnical
electrotechnician
electrotechnics
electrotechnologist
electrotechnology
electrotelegraphic
electrotelegraphy
electrotelethermometer
electrotellurograph
electrotest
electrothanasia
electrothanasosis
electrotherapeutic
electrotherapeutical
electrotherapeutics
electrotherapeutist
electrotherapies
electrotherapist
electrotheraputic
electrotherapeutical
electrotherapeutically
electrotherapeutics
electrotherapy
electrothermal
electrothermally
electrothermancy
electrothermic
electrothermics
electrothermometer
electrothermostat
electrothermostatic
electrothermotic
electrotitration
electrotonic
electrotonicity
electrotonize
electrotonus
electrotrephine
electrotropic
electrotropism
electrotype
electrotyped
electrotyper
electrotypes
electrotypic
electrotyping
electrotypist
electrotypy
electrovalence
electrovalency
electrovalent
electrovalently
electroevection
electroviscous
electrovital
electrowin
electrowinning
electrum
electrums
eleostearic
eleotrid
elepaio
elephancy
elephant
elephant’s
elephanta
elephantiac
elephantiases
elephantiasic
elephantiasis
elephantic
elephanticide
elephantine
elephantlike
elephantoid
elephantoidal
elephantous
elephantry
elephants
eleuin
eleusinian
eleutherarch
eleutherian
eleutherism
eleutherodactyl
eleutheromania
eleutheromaniac
eleutheromorph
eleutheropetalous
eleutherophobia
eleutherophyllous
eleutherosepalous
eleutherozoan
elev
elevable
elevate
elevated
elevatedly
elevatedness
elevates
elevating
elevatingly
elevation
eevalional
evaluations
evato
elevator
emancipatory
emancipatress
emancipist
emandibulate
emane
emanent
emanium
emarcid
emarginate
emarginated
emarginately
emarginating
emargination
emasculate
emasculated
emasculates
emasculating
emasculation
emasculations
emasculative
emasculator
emasculators
emasculatory
embrace
embacle
embain
embale
emball
emballonurid
emballonurine
embalm
embalmed
embalmer
embalmers
embalming
embalmment
embalms
embank
embanked
embanking
embankment
embankments
embanks
embannered
embaphium
embar
embarcadero
embarcation
embattles
embattling
embay
embayed
embaying
embayment
embays
embden
embeam
embed
embeddable
embedded
embedder
embedding
embedment
embeds
embeggar
embetic
embelif
embelin
embellish
embellished
embellisher
embellishers
embellishes
embellishing
embellishment
embellishment's
embellishments
ember
embergeese
embergoose
emberizidae
emberizine
embers
embetter
embezzle
embezzled
embezzlement
embezzlements
embezzler
embezzlers
embezzles
embezzling
embiid
embillow
embind
embiotocid
embiotocoid
embira
embitter
embittered
embitterer
embittering
embitterment
embitterments
embitters
embradder
emblanch
emblaze
emblazed
emblazer
emblazers
emblazes
emblazing
emblazon
emblazoned
emblazoner
emblazoning
emblazonment
emblazonments
emblazonry
emblazons
emblem
emblema
emblematic
emblematical
emblematically
emblematicalness
emblematicize
emblematise
emblematised
emblematising
emblematist
emblematize
emblematized
emblematizing
emblematology
emblemed
emblement
emblements
embleming
emblenish
emblemist
emblemitize
emblemitized
emblemitizing
emblemitology
emblemizing
emblemology
emblems
emblic
emblish
embloom
emblossom
embodied
embodier
embodiers
embodies
embodiment
embodiment's
embodiments
embody
embodying
embog
embogue
emboil
emboite
emboitement
emboites
embolden
emboldened
emboldener
emboldening
emboldens
embole
embolectomies
embolectomy
embolemia
emboli
embolic
embolies
emboliform
embolimeal
embolism
embolismic
embolisms
embolismus
embrilitate
emblodilate
embolidate
embolize
embolo
embololalia
embolomalerism
embolomerism
embolomerous
embolomycotic
embolon
emboltement
embolum
embolus
emboly
embonpoint
emborder
embordered
embordering
emborders
emboscata
embosk
embosked
embosking
embosks
embosom
embosomed
embosoming
embosoms
emboss
embossable
embossage
embossed
embosser
embosser
embossmen
embossing
embossing
embossmen
embossmen
embossment
embossments
embost
embosture
embottle
embouchement
embouchement
embouchure
embouchures
embound
embourgeoisement
embow
embowed
embowel
emboweled
emboweler
emboweling
embryopathology
embryophagous
embryophore
embryophyte
embryoplast
embryos
embryoscope
embryoscopic
embryotega
embryotegae
embryotic
embryotome
embryotomies
embryotomy
embryotroph
embryotrophe
embryotrophic
embryotrophy
embryous
embryulci
embryulcia
embryulculci
embryulcus
embryulcuses
embubble
embue
embuia
embulk
embull
embus
embush
embusk
embuskin
embusqu
embusque
embussed
embussing
embusy
emcee
emceed
emceeing
emcees
emceing
emcumbering
emda
endend
emec
emeer
emerit
emerita
emerited
emeriti
emeritus
emeritute
emerize
emerized
emerizing
emerod
emerods
emeroid
emeroids
emerse
emersed
emersion
emersions
emerson
emery
emering
emes
emeses
emesis
emetatrophia
emetia
emetic
emetical
emetically
emetics
emetin
emetine
emetines
emetins
emetocathartic
emetology
emetomorphine
emetophobia
emeu
emeus
emeute
emeutes
emf
emforth
emgalla
emhapsizing
emhcapsizing
emic
emicit
emicate
emolument
emolumental
emolumentary
emolumentary
emolument
emong
emony
emory
emote
emoted
emoter
emoters
emotes
emoting
emotiometabolic
emotiomotor
emotiomuscular
emotion
emotion's
emotionable
emotional
emotionalise
emotionalised
emotionalising
emotionalism
emotionalist
emotionalistic
emotionality
emotionalization
emotionalize
emotionalized
emotionalizing
emotionally
emotioned
emotionist
emotionize
emotionless
emotionlessly
emotionlessness
emotions
emotiovascular
emotive
emotively
emotiveness
emotivism
emotivity
emove
emp
empacket
empaestic
empair
empaistic
empale
empaled
empalement
empaler
empalers
empales
empaling
empall
empanada
empanel
empaneled
empaneling
empanelled
empanelling
empanelment
empanels
empannel
emanoply
empaper
emparadise
emparchment
empark
emparl
empsm
empasma
empassion
empathetic
empathetically
empathic
empathically
empathies
empathize
empathized
empathizes
empathizing
empathy
empatron
empearl
empeine
empeirema
empemata
empennage
empennages
empeople
empeopled
empyreuma
empyreumata
empyreumatic
empyreumatical
empyreumatize
empirical
empyromancy
empyrosis
emraud
emrode
ems
emu
emulable
emulant
emulate
emulated
emulates
emulating
emulation
emulations
emulative
emulatively
emulator
emulator's
emulators
emulatory
emulatress
emule
emulge
emulgence
emulgens
emulgent
emulous
emulously
emulousness
emuls
emulsibility
emulsible
emulsic
emulsifiability
emulsifiable
emulsification
emulsifications
emulsified
emulsifier
emulsifiers
emulsifies
emulsify
enbaissing
enbibe
enbloc
enbranglement
enbrave
enbusshe
enc
encadre
encaenia
encage
encaged
encages
encaging
encake
encalendar
encallow
encamp
encamped
encamping
encampment
encampments
encamps
encanker
encanthis
encapsulate
encapsulated
encapsulates
encapsulating
encapsulation
encapsulations
encapsule
encapsuled
encapsules
encapsuling
encaptivate
encaptive
encardion
encarditis
encarnadine
encarnalise
encarnalised
encarnalising
encarnalize
encarnalized
encarnalizing
encarpa
encarpi
encarpium
encephalola
encephalolith
encephalology
encephaloma
encephalomalacia
encephalomalacosis
encephalomalaxis
encephalomas
encephalomata
encephalomeningitis
encephalomeningocele
encephalomere
encephalomic
encephalometer
encephalometric
encephalomyelitic
encephalomyelitis
encephalomyelopathy
encephalomyocarditis
encephalon
encephalonarcosis
encephalopathia
encephalopathic
encephalopathy
encephalophyma
encephalopsychesis
encephalopyosis
encephalorrhagia
encephalos
encephalosclerosis
encephaloscope
encephaloscopy
encephalosepsis
encephalosis
encephalospinal
encephalothlipsis
encephalotome
encephalotomies
encephalotomy
encephalous
enchafe
enchain
enchained
enchainment
enchainments
enchaining
enchains
enchair
enchalice
enchancement
enchannel
enchant
enchanted
enchanter
enchanters
enchantery
enchanting
enchantingly
enchantingness
enchantment
enchantments
enchantress
enchantresses
enchants
encharge
encharged
encharging
encharm
encharnel
enchase
enchased
enchaser
enchasers
enchases
enchasing
enchasten
encheason
encheat
encheck
encheer
encheiria
enchequier
encheson
enchesoun
enchest
enchilada
enchiladas
encheridia
encheridion
encheridions
encheriridia
enchesel
enchesontid
enchesontoid
enchondroma
enchondromas
enchondromata
enchondromatous
enchondrosis
enchorial
enchoric
enchrone
enchurch
enchylema
enchylematous
enchyma
enchymatous
enchytrae
enchytraeid
encia
enciente
encina
encinal
encinas
encincture
encinctured
encincturing
encinder
encinillo
encipher
enciphered
encipherer
enciphering
encipherment
encipherments
enciphers
encircle
encircled
encirclement
encirclements
encircler
encircles
encircling
encist
encitadel
encl
enclaret
enclasp
enclasped
enclasping
enclasps
enclave
encouragers
encourages
encouraging
encouragingly
encover
encowl
encraal
encradle
encranial
enocratic
encratism
encratite
encraty
encrease
encreel
en crimson
en crinal
en crinic
en crinidae
en crinital
en crinite
en crinitic
en crinitical
en crinoid
en crinus
en crisp
en croach
en croached
en croacher
en croaches
en croaching
en croachingly
en croachment
en croachments
en crochet
en crown
en crowning
ment
en crust
en crustant
en crustation
en crusted
en crustation
en crustment
en crusts
en crypt
en crypted
en crypting
en cryption
endaortitis
endarch
endarchies
endarchy
endark
endarterectomy
endarteria
endarterial
endarteritis
endarterium
endartereteria
endaseh
endaspidean
endaze
endball
endboard
endbrain
endbrains
enddamage
enddamaged
enddamaging
ende
endear
endearance
endeared
endearedly
endearedness
endearing
endearingly
endearingness
endearment
endearments
endears
endeavor
endeavored
endeavorer
endeavoring
endeavors
endeavour
endeavoured
endeavourer
endeavouring
endeaunt
endecha
ended
endectic
endeign
endellionite
endemial
dermic
dermical
dermically
dermicity
dermics
dermiological
dermiology
dermisn
dermisms
dermination
dernize
derizen
dernt
der
ender
derere
derergonic
derermatic
endermic
endermically
enderon
dereronic
enders
endeal
ende
endew
endexine
endexines
endfile
endgame
endgate
endhand
endia
endiablee
endiadem
endiaper
endict
endimanche
ending
endings
endite
endited
endites
enditing
endive
endives
endjunk
endleaf
endleaves
endless
endlessly
endlessness
endlichite
endlong
endmatcher
endmost
endnote
endnotes
endoabdominal
endoangiitis
endoaortitis
endoappendicitis
endoarteritis
endauscultation
endobatholithic
endobiotic
endoblast
endoblastic
endobronchial
endobronchially
endobronchitis
endocannibalism
endocardia
endocardiac
endocardial
endocarditic
endocarditis
endocardium
endocarp
endocarpal
endocarpic
endocarpoid
endocarps
endocellular
endocentric
endoceratite
endoceratitic
endocervical
endocervicitis
endochondral
endochorion
endochorionic
endochrome
endochylous
endoclinal
endocrine
endocoelar
endocoele
endocoelic
endocolitis
endocolpitis
endocondensation
endocone
endoconidia
endoconidium
endocorpuscular
endocortex
endocrania
endocranial
endocranium
endocrin
endocrinal
endocrine
endocrines
endocrinic
endocrinism
endocrinologic
endocrinological
endocrinologies
endocrinologist
endocrinologists
endocrinopathy
endocrinopath
endocrinopathy
endocrinotherapy
endocrinous
endocrin
endocritic
endocyte
endocyclic
endocymate
endocyst
endocystitis
endocytic
endocytosis
endocytotic
endoderm
endodermal
endodermic
endodermis
endoderms
endodontia
endodontic
endodontically
endodontics
endodontist
endodontium
endodontologist
endodontology
endodynamomorphic
endoenteritis
endoenzyme
endoergic
endoerythrocytic
endoesophagitis
endofaradism
endogalvanism
endogamic
endogamies
endogamous
endogamy
endogastric
endogastrically
endogastritis
endogen
endogenesis
endogenetic
endogenic
endogenicity
endogenies
endogenous
endogenously
endogens
endogeny
endoglobular
endognath
endognathal
endognathion
endogonidium
endointoxication
endokaryogamy
endolabyrinthitis
endolaryngeal
endolemma
endolithic
endolumbar
endolymph
endolymphatic
endolymphic
endolysin
endomastoiditis
endome
endomesoderm
endometria
endometrial
endometriosis
endometritis
endometrium
endometry
endomictic
endomitosis
endomitotic
endomixis
endomorph
endomorphic
endomorphism
endomorphy
endomysial
endomysium
endoneurial
endoneurium
endonuclear
endonuclease
endonucleolus
endoparasite
endoparasitic
endoparasitism
endopathic
endopelvic
endopeptidase
endopericarditis
endoperidial
endoperidium
endoperitonitis
endophagous
endophagy
endophasia
endophasic
endophlebitis
endophragm
endophragmal
endophyllous
endophytal
endophyte
endophytic
endophytically
endophytous
endoplasm
endoplasmic
endoplast
endoplastron
endoplastular
endoplastule
endopleura
endopleural
endopleurite
endopleuritic
endopod
endopodite
endopoditic
endopods
endopolyploid
endopolyplody
endoproct
endoproctous
endopsychic
endopterygote
endopterygotic
endopterygotism
endopterygotous
endorachis
endoradiosonde
endoral
endore
endorhinitis
endorphin
endorsable
endoration
endorse
endorsed
endorsee
endorsees
endorsement
endorsements
endorser
endorsers
endorses
endorsing
endorsingly
endorser
endorsors
endosalpingitis
endosarc
endosarcode
endosarcous
endosarcs
endosclerite
endotracheal
endotracheitis
endotrachaelitis
endotrophic
endotropic
endotys
endoubt
endoute
endovaccination
endovasculitis
endovenous
endover
endow
ended
endowe
endowers
endowing
endowment
endowment's
endowments
endows
endozoa
endozoic
endpaper
endpapers
endpiece
endplate
endplates
endplay
endpleasure
endpoint
endpoints
endrin
endrins
endrudge
endrumpf
ends
endseal
endshake
endsheet
endship
endsweep
endue
endued
enduement
endues
enduing
endungeon
endura
endurability
endurable
endurableness
endurably
endurance
endurant
endure
endured
endurer
endures
enduring
enduringly
enduringness
enduro
enduros
endways
endwise
endyma
endymal
endymion
endysis
ene cate
eneclann
ened
eneid
enema
enema's
enemas
enemata
enemied
enemies
enemy
enemy's
enemying
enemylike
enemyship
ent
enepidermic
energeia
energosis
energetic
energetical
energetically
energeticalness
energeticist
energeticness
energetics
enfarce
enfasten
enfatico
enfavor
enfeature
enfect
enfeeble
enfeebled
enfeeblement
enfeeblements
enfeebler
enfeebles
enfeebling
enfeebling
enfelong
enfeof
enfeoffed
enfeoffing
enfeoffment
enfeoffs
enfeaster
enfetter
enfettered
enfettering
enfetters
enfever
enfevered
enfevering
enfevers
enfief
enfield
enfierce
enfigure
enfilade
enfiladed
enfilades
enfilading
enfile
enfiled
enfin
enfire
enfirm
enflagellate
enflagellation
enflame
enflamed
enflames
enflaming
enharbor
enharbour
enharden
enhardy
enharmonic
enharmonical
enharmonically
enhat
enhulse
enhaunt
enhazard
enharse
enheart
enhearten
enheaven
enhedge
enhelm
enhemospore
enherit
enheritage
enheritance
enhorror
enhort
enhuile
enhuiler
enhuiled
enhusk
enhydrite
enhydritic
enhydros
enhydrinous
enhypostasia
enhypostasis
enhypostatic
enhypostatize
eniac
enigma
enigmas
enigmata
enigmatic
enigmatical
enigmatically
enigmaticalness
enigmatist
enigmatization
enigmatize
enigmatized
enigmatizing
enigmatographer
enigmatography
enigmatology
enigma
enisle
enisled
enisles
enisling
enjail
enjamb
enjambed
enjambement
enjambements
enjambment
enjambments
enjelly
enjeopard
enjeopardy
enjewel
enjoin
enjoinder
enjoined
enjoiner
enjoiners
enjoining
enjoinment
enjoins
enjoy
enjoyable
enjoyableness
enjoyably
enjoyed
enjoyer
enjoyers
enjoying
enjoyingly
enjoyment
enjoyments
enjoys
enkennel
enkerchief
enkernel
enkindle
enkindled
enkindler
enkindles
enkindling
enkolpia
enkolpion
enkraal
enl
enlace
enlaced
enlacement
enlaces
enlacing
enlard
enlarge
enlargeable
enlargeableness
enlarged
enlargedly
enlargedness
enlargement
enlargement's
enlargements
enlarger
enlargers
enlarges
enlarging
enlargingly
enlaurel
enlay
enleaf
enleague
enleaged
enleen
enlength
enlevement
enlief
enlife
enlight
enlighten
enlightened
enlightenedly
enlightenedness
enlightener
enlighteners
enlightening
enlighteningly
enlightenment
enlightenments
enlightens
enlimn
enlink
ennage
enneacontahedral
enneacontahedron
ennead
enneadianome
enneadic
enneads
enneaeteric
enneagon
enneagonal
enneagons
enneagynous
enneahedra
enneahedral
enneahedria
enneahedron
enneahedrons
enneandrian
enneandrous
enneapelalous
enneaphyllous
enneasemetic
enneasepalous
enneaspermous
enneastylar
enneastyle
enneastylos
enneasyllabic
enneateric
enneatic
enneatical
enneдра
ennerve
ennew
ennia
enniche
ennoble
ennobled
ennoblement
ennoblements
ennobler
ennoblers
ennobles
ennobling
ennoblingly
ennobilment
ennoic
ennomic
ennoy
ennui
ennuied
ennuis
ennuyant
ennuyante
ennuye
ennuye
ennuying
enoch
enocyte
enodal
enodally
enodate
enodation
enode
enoil
enoint
enol
enolase
enolases
enolate
enolic
enolizable
enolization
enolize
enolized
enolizing
enological
enologies
enologist
enology
enols
enomania
enomaniac
enomotarch
enomoty
enophthalmos
enophthalmus
enoplan
enoplion
enoptromancy
enorganic
enorm
enormious
enormities
enormity
enormous
enshrined
enshrinement
enshrinements
enshrines
enshrining
enshroud
enshrouded
enshrouding
enshrouds
ensient
ensiform
ensign
ensign's
ensigncies
ensigncy
ensigned
ensignhood
ensigning
ensignment
ensignry
ensigns
ensignship
ensilability
ensilage
ensilaged
ensilages
ensilaging
ensilate
ensilation
ensile
ensiled
ensiles
ensiling
ensilist
ensilver
ensindon
ensisternal
ensisternum
enskied
enskies
ensky
enskyed
enskying
enslave
enslaved
enslavedness
enslavement
enslavements
enslaver
enslavers
enslaves
enslaving
enslumber
ensmall
ensnare
ensnared
ensnarement
ensnarements
ensnarer
ensnarers
ensnares
ensnaring
ensnaringly
ensnarl
ensnarled
ensnarling
ensnarls
ensnow
ensober
ensophic
ensorcel
ensorceled
ensorceling
ensorcelize
ensorcell
ensorcellment
ensorcels
ensorcerer
ensorcerize
ensorrow
ensoul
ensouled
ensouling
ensouls
enspangle
enspell
ensphere
ensphered
enspheres
ensphering
enspirit
ensporia
enstamp
enstar
enstate
enstatite
enstatitic
enstatitite
enstatolite
ensteel
ensteep
enstool
enstore
enstranged
enstrengthen
enstyle
ensuable
ensuance
ensuant
ensue
ensued
ensuer
ensues
ensuing
ensuingly
ensuite
ensulphur
ensurance
ensure
ensured
ensurer
ensurers
ensures
ensuring
enswathe
enswathed
enswathement
enswathes
enswathing
ensweep
ensweeten
ensynopticity
entablature
entablatured
entablement
entablements
entach
entackle
entad
entail
entailable
entailed
entailer
entailers
entailing
entente
ententes
entepicondylar
enter
entera
enterable
enteraden
enteradenographic
enteradenography
enteradenological
enteradenology
enteral
enteralgia
enterally
enterate
enterauxe
enterclose
enterectomies
enterectomy
entered
enterer
enterers
enterfeat
entergogenic
enteria
enteric
entericoid
entering
enteritidis
enteritis
entermete
entermise
enteroanastomosis
enterobacterial
enterobacterium
enterobiasis
enterobiliary
enterocele
enterocentesis
enteroceptor
enterochirurgia
enterochlorophyll
enterocholecystostomy
enterochromaffin
enterocinesia
enterocinetic
enteroclisis
enteroclisis
enteroclysis
enterococcal
enterococci
enterococcus
enterocoel
enterocoele
enterocoelic
enterocoelous
enterocolitis
enterocolostomy
enterocrinin
enterocyst
enterocystoma
enterodelous
enterodynia
enteroepiplocele
enterogastritis
enterogastrone
enterogenous
enterogram
enterograph
enterography
enterohelcosis
enterohemorrhage
enterohepatitis
enterohydrocele
enteroid
enterointestinal
enteroischiocoele
enterokinase
enterokinesia
enterokinetic
enterolith
enterolithiasis
enterologic
enterological
enterology
enterolysis
enteromegalia
enteromegaly
enteromere
enteromesenteric
enteromycosis
enteromyiasis
enteron
enteroneuritis
enterons
enteroparalysis
enteroparesis
enteropathogenic
enteropathy
enteropexia
enteropexy
enterophthisis
enteroplasty
enteroplegia
enteropneust
enteropneustal
enteropneustan
enteroptosis
enteroptotic
enterorrhagia
enterorrhaphy
enterorrhea
enterorrhexis
enteroscope
enteroscopy
enterosepsis
enterospasm
enterostasis
enterostenosis
enterostomies
enterostomy
enterosyphilis
enterotome
enterotomy
enterotoxemia
enterotoxication
enterotoxin
enteroviral
enterovirus
enterozoa
enterozaan
enterozoic
enterozoön
enterparlance
enterpillar
enterprise
enterprised
enterpriseless
enterpriser
enterprises
enterprising
enterprisingly
enterprisingness
enterprise
entireness
entires
entireties
entirety
entiris
entirities
entitative
entitatively
entitities
entitle
entitled
entitledness
entitlement
entitles
entitling
entitule
entity
entity's
entoblast
entoblastic
entobranchiate
entobronchium
entocalcaneal
entocarotid
entocele
entocnemial
entocoel
entocoele
entocoelic
entocondylar
entocondyle
entocondyloid
entocone
entoconid
entocornea
entocranial
entocuneiform
entocuniform
entocyemate
entocyst
entoderm
entodermal
entodermic
entoderms
entogastric
entogenous
entoglossal
entohyal
entoil
entoiled
entoiling
entoilment
entoils
entoire
entom
entomb
entomed
entombing
entombment
entombments
entombs
entomere
entomeric
entomic
entomical
entomion
entomofauna
entomogenous
entomoid
entomol
entomologist
entomolite
entomologic
entomological
entomologically
entomologies
entomologise
entomologised
entomologising
entomologist
entomologists
entomologize
entomologized
entomologizing
entomology
entomophagan
entomophagous
entomophilous
entomophil
entomophilia
entomophobia
entomophtoraceous
entomophtorous
entomophytous
entomostracan
entomostracous
entomotaxy
entomotomist
entomotomy
entone
entonement
entoniec
entoolitic
entoparasite
entoparasitic
entoperipheral
entophyta1
entophyte
entophytic
entophytically
entophytous
entopic
entopical
entoplasam
entoplastic
entoplastral
entoplastron
entopopliteal
entoproct
entoproctous
entopterygoid
entoptic
entoptical
entoptically
entoptics
entoptoscope
entoptoscopic
entoptoscopy
entoretina
entorganism
entortill
entosarc
entosclerite
entosphenal
entosphenoid
entosphere
entosterna
entosternal
entosternite
entosternum
entosthoblast
entothorax
entotic
entotympanic
entour
enumerable
enumerably
enumerate
enumerated
enumerates
enumerating
enumeration
enumerations
enumerative
enumerator
enumerators
enunciability
enunciable
enunciate
enunciated
enunciates
enunciating
enunciation
enunciations
enunciative
enunciatively
enunciator
enunciators
enunciatory
enure
enured
enures
enureses
enuresis
enuresises
enuretic
enuring
enurny
env
envapor
envapour
envassal
envassalage
envault
envaye
enveigle
enveil
envelop
envelope
enveloped
enveloper
envelopers
envelopes
envisagement
envisages
envisaging
envision
envisioned
envisioning
envisionment
envisions
envoi
envois
envolume
envolupen
envoy
envoy's
envoys
envoyship
envy
envying
envyingly
enwall
enwallow
enweave
enweaved
enweaving
enweb
enwheel
enwheeled
enwheeling
enwheels
enwiden
enwind
enwinding
enwinds
enwing
enwingly
enwisen
enwoman
enwomb
enwombed
enwombing
enwombs
enwood
enworthed
enworthy
enwound
enwove
enwoven
enwrap
epacts
epaenetic
epagoge
epagogic
epagomenae
epagomenal
epagomenic
epagomenous
epaleaceous
epalpate
epalpebrate
epanadiplosis
epanalepsis
epanalectic
epanaphora
epanaphoral
epanastrophe
epanisognathism
epanisognathous
epanodos
epanody
epanorthoses
epanorthosis
epanorthotic
epanthous
epapillate
epapophysial
epapophysis
epappose
eparch
eparchate
eparchial
eparchies
eparchs
eparchy
epaxial
epaxially
ephesian
ephesians
ephesine
ephesia
ephestian
ephetae
ephete
ephetic
ephialtes
ephidrosis
ephippia
ephippial
ephippium
ephod
ephods
ephoi
ephor
ephoral
ephorality
ephorate
ephorates
ephori
ephoric
ephors
ephorship
ephorus
ephphatha
ephraim
ephtianure
ephydiad
ephydrid
ephymnium
ephyra
ephyrae
ephyrula
epi
epibasal
epibatholithic
epibatus
epibenthic
epibenthos
epibiotic
epiblast
epiblastema
epiblastic
epiblasts
epiblema
epiblemata
epibole
epibolic
epibolies
epibolism
epiboly
epiboulangerite
epibrancheial
epic
epic's
epical
epically
epicalyces
epicalyx
epicalyces
epicanthi
epicanthic
epicanthus
epocardia
epocardiac
epocardial
epocardium
epicard
epicaridan
epicarp
epicarpal
epicarps
epicide
epicedia
epicedial
epicedian
epicedium
epicle
epicene
epicenes
epicenism
epicenity
epicenter
epicenters
epicentra
epicentral
epicentre
epicentrum
epicentrum
epicentrums
epicerastic
epicerebral
epicheirema
epicheiremata
epichil
epichile
epichilia
epichilium
epichindrotic
epichirema
epichlorohydrin
epichondrosis
epichondrotic
epichordial
epichorial
epichoric
epichorion
epichoristic
epichristian
epicier
epicism
epicist
epiclastic
epicleidian
epicleidium
epicleses
epiclesis
epicidal
epiclial
epiclinal
epicy
epicenomia
epicelar
epicoele
epicoelia
epicoeliac
epicoelous
epicolic
epicondylar
epicondyle
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epicondylial
epicondylia
epidiplosis
epidosite
epidote
epidotes
epidotonic
epidotiferous
epidotization
epidural
epidymides
epifascial
epifauna
epifaunae
epifaunal
epifaunas
epifocal
epifolliculitis
epigaeous
epigamic
epigaster
epigastraeum
epigastral
epigastria
epigastrial
epigastric
epigastrical
epigastrocele
epigastrium
epigastrocele
epigean
epigene
epigenesis
epigenesist
epigenetic
epigenetically
epigenic
epigenist
epigenous
epigeous
epigean
epiglottal
epiglottic
epiglottidean
epiglottidies
epiglottiditis
epiglottis
epiglottises
epiglottitis
epignathous
epigne
epigon
epigonal
epigionation
epigone
epigoneion
epigones
epigoni
epigonic
epigonism
epigionum
epigonos
epigonous
epigonous"e"pigons
epigonous
epigonus
epigram
epigrammatarian
epigrammatic
epigrammatical
epigrammatically
epigrammatise
epigrammatised
epigrammatising
epigrammatism
epigrammatist
epigrammatize
epigrammatized
epigrammatizer
epigrammatizing
epigramme
epigrams
epigraph
epigrapher
epigraphic
epigraphical
epigraphically
epigraphist
epigraphs
epigraphy
epiguanine
epigyne
epigynies
epigynous
epigynum
epigyny
epihyal
epihydric
epihydric
epikeia
epikia
epikleses
epiklesis
epiky
epil
epilabra
epilabrum
epilamellar
epilaryngeal
epilate
epilated
epilating
epilation
epilator
epilatory
epilegomenon
epilemma
epilemmal
epileny
epilepsia
epilepsies
epilepsy
epileptic
epileptical
epileptically
epileptics
epileptiform
epileptogenic
epileptogenous
epileptoid
epileptologist
epileptology
epilimnetic
epilimnia
epilimnial
epilimnion
epilimnionia
epilithic
epilobe
epilog
epilogate
epilogation
epilogic
epilogical
epilogism
epilogist
epilogistic
epilogize
epilogized
epilogizing
epilogs
epilogue
epilogueed
epilogues
epiloguing
epiloguize
epiloia
epimacus
epimandibular
epimanikia
epimanikion
epimer
epimeral
epimerase
epimere
epimeres
epimeric
epimeride
epimerise
epimerised
epimerising
epimerism
epimerite
epimeritic
epimerize
epimerized
epimerizing
epimeron
epimers
epimerum
epimorpha
epimorphic
epimorphism
epimorphosis
epimyocardial
epimyocardium
epimysia
epimysium
epimyth
epinaoi
epinaos
epinard
epinastic
epinastically
epinasties
epinasty
epineolthic
epinephrin
epinephrine
epinette
epineuneuria
epineural
epineuria
epineurial
epineurium
epingle
epinglette
epinicia
epinicial
epinician
epinicion
epinikia
epinikian
epinikion
epinine
epinyctis
epionychia
epionychium
epionynychia
epioptic
epipaleolithic
epipanies
epipany
epiparasite
epiparodos
epipastic
epipedometry
epipelagic
epiperipheral
epipetalous
epiphanic
epiphannies
epiphanie
epiphaneised
epiphaneising
epiphaneize
epiphaneized
epiphaneizing
epiphanous
epiphany
epipharyngeal
epipharynx
epiphenomena
epiphenomenal
epiphenomenalism
epiphenomenalist
epiphenomenally
epiphenomenon
epiphloedal
epiphloedic
epiphloeum
epiphonema
epiphonemae
epiphonemas
epiphora
epiphragm
epiphragmal
epiphylaxis
epiphyl
epiphylcline
epiphyllospermous
epiphyllos
epiphysary
epiphyseal
epiphyseolysis
epiphyses
epiphysial
epiphysis
epiphysitis
epiphytal
epiphyte
epiphytes
epiphytic
epiphytical
epiphytically
epiphytism
epiphytology
epiphytotic
epiphytous
epipial
epiplankton
epiplanktonic
epiplasm
epiplasmic
epiplastral
epiplastron
episcopacies
episcopacy
episcopal
episcopalian
episcopalianism
episcopalians
episcopalism
episcopality
episcopally
episcopant
episcoparian
episcopate
episcopates
episcopation
episcopature
episcope
episcopes
episcopicide
episcopise
episcopised
episcopising
episcopization
episcopize
episcopized
episcopizing
episcopoly
episcopy
episcotister
episedia
episematic
epismeme
episepalous
episiocele
episiohematoma
episioplasty
episiorrhagia
episiorrhaphy
episiostenosis
episiotomies
episiotomy
episkeletal
episkotister
episodal
episode
episode's
episodes
episodial
episodic
episodical
episodically
episomal
episomally
episome
episomes
epispadia
epispadiac
epispadias
epispastic
episperm
epispermic
epispinal
epispelenitis
episperangium
epispore
epispourum
epist
epistapedial
epistases
epistasies
epistasis
epistasy
epistatic
epistaxis
episteme
epistemic
epistemically
epistemolog
epistemological
epistemologically
epistemologist
epistemology
epistemonic
epistémonical
epistemophilia
epistemophilic
epistena
episterna
episternal
episternalia
episternite
episternum
episthotonos
epistilbite
epistlar
epistle
epistle's
epistler
epistlers
epistles
epistolar
epistolarian
epistolarily
epistolary
epistolatory
epistolean
epistoler
epistolet
epistic
epistolical
epistolise
epistolised
epistolising
epistolist
epistolizable
epistolization
epistolize
epistolized
epistolizer
epistolizing
epistolographer
epistolographic
epistolographist
epistolography
epistoma
epistomal
epistemata
epistome
epistomian
epistroma
epistrophe
epistropheal
epistrophes
epistrophic
epistrophy
epistylar
epistyle
epistyles
episylogism
episynaloephe
episynthetic
episyntheton
epit
epitactic
epitaph
epitapher
epitaphial
epitaphian
epitaphic
epitaphical
epitaphist
epitaphize
epitaphless
epitaphs
epitases
epitasis
epitaxial
epitaxially
epitaxic
epitaxies
epitaxis
epitaxy
epitela
epitendineum
epitenon
epithalami
epithalamia
epithalamial
epithalamist
epithalamic
epithalamion
epithalamium
epithalamiumia
epithalamiums
epithalamize
epithalamus
epithalamy
epithalline
epithamia
epitheca
epithecal
epithecate
epithecia
epithecial
epithecicia
epithecium
epithelia
epithelial
epithelialize
epithelilia
epitheliliums
epithelioblastoma
epitheliocceptor
epitheliogenetic
epithelioglandular
epithelioid
epitheliolysin
epitheliolysis
epitheliolytic
epithelioma
epitheliomas
epitheliomata
epitheliomatous
epitheliomuscular
epitheliosis
epitheliotoxin
epitheliuria
epithelium
epitheliums
epithelization
epithelize
epitheloid
epithem
epitheme
epithermal
epithermally
epithesis
epithet
epithet's
epithetic
epithetical
epithetically
epithetician
epithetize
epitheton
epithets
epithi
epithumetic
epithyme
epithymetic
epithymetical
epitimesis
epitoke
epitomate
epitomator
epitomatory
epitome
epitomes
epitomic
epitomical
epizoicide
epizoism
epizoisms
epizoite
epizoites
epizooology
epizoon
epizootic
epizootically
epizooties
epizootio logic
epizootiological
epizootiologically
epizootiology
epizoototology
epizooty
epizzoa
eplot
epoch
epocha
epochal
epochally
epoce
epochism
epochist
epochs
epode
epodes
epodic
epoist
epollicate
eponge
eponychium
eponym
eponymic
eponymies
eponymism
eponymist
eponymize
eponymous
eponyms
eponymus
eponymy
epoophoron
epop
epopee
epopees
epopoean
epopoeia
epopoeias
epopoeist
epoth
epoptes
epoptic
epoptist
epornitic
epornitically
epos
eposes
epotation
epoxide
epoxides
epoxidize
epoxied
epoxies
epoxy
epoxyed
epoxying
eppes
epris
eprise
eprosy
eprouvette
epruinose
epsilon
epsilon
epsilon
epsom
epsomite
epulary
epulation
epulis
epulo
epuloid
epulones
epulosis
epulotic
epupillate
epural
epurate
epuration
epyllia
epyllion
eq
eqpt
equability
equable
equableness
equably
equaeval
equal
equalable
equaled
equaling
equalisation
equalise
equalised
equalises
equalising
equalist
equalitarian
equalitarianism
equalities
equality
equality’s
equalization
equalize
equalized
equalizer
equalizers
equalizes
equalizing
equalled
equaller
equalling
equally
equalityness
equals
equangular
equanimitiy
equanomious
equamously
equanomiousness
equant
equateability
equatable
equate
equated
equates
equating
equation
equational
equationally
equationism
equationist
equidifferent
equidimensional
equidist
equidistance
equidistant
equidistantial
equidistantly
equidistribution
equidiurnal
equidivision
equidominant
equidurable
equiequidimensional
equidiurnal
equiformal
equiformity
equiglacial
equigranular
equijacent
equilater
equilateral
equilaterally
equilibrant
equilibrate
equilibrated
equilibrates
equilibrating
equilibration
equilibrations
equilibrative
equilibrator
equilibratory
equilibraria
equilibraria
equilibrato
equilibreria
equilibreria
equilibreria
equilibreria
equilibreria
equilibreria
equilibrio
equilibrioso
equilibriria
equilibriria
equilibriria
equilibriria
equilibrist
equilibrismatic
equilibrismatic
equilibrismatic
equilibrismatic
equilibrium
equilibriums
equilibrize
equilibrizone
equiliria
equilobate
equilobed
equilocation
equilucent
equimodal
equimolal
equimolar
equimolecular
equimomenta
equimultiple
equinal
equinate
equine
equinecessary
equinely
equines
equinia
equiniities
equinity
equinoctial
equinoctially
equinoivarus
equinox
equinoxes
equinumerally
equinus
equiomnipotent
equip
equipaga
equipage
equipages
equiparable
equiparant
equipariate
equiparation
equipartile
equipartisan
equipartition
equipe
dequipede
equipedal
equipendent
equipperiodic
equipluve
equipment
equipments
equipoise
equiposed
equisonance
equisonant
equispaced
equispatial
equisufficiency
equisurface
equitability
equitable
equitableness
equitably
equitangential
equitant
equitation
equitative
equitemporal
equitemporaneous
equites
equities
equitist
equitriangular
equity
equiv
equivale
equivalence
equalenced
equivalences
equivalencies
equivalencing
equivalency
equivalent
equivalently
equivalents
equivalant
equival
equivaluer
equivalve
equivalved
equivalvular
equivelocity
equivocacies
equivocacy
equivocal
equivocalities
equivocality
equivocally
equivocalness
equivocate
equivocated
equivocates
equivocating
equivocatingly
equivocation
equivocations
equivocator
equivocators
equivocatory
equivoke
equivokes
equivoluminal
equivoque
equivorous
equivote
equoid
equoidian
equulei
equuleus
equivalent
er
era
eras
eras's
erasable
erase
eradicate
eradicated
eradicates
eradicating
eradiation
eradicable
eradicably
eradicant
eradicate
eradicated
eradicates
eradicating
eradication
eradications
eradicative
eradicator
eradicators
eradicatory
eradiculose
eral
eranist
eras
erasability
erasable
erase
eremiteship
eremitic
eremitical
eremitish
eremitism
eremochaetous
eremology
eremophilous
eremophyte
ermuri
ermintus
erenach
erenow
erepsin
erepsins
erept
ereptase
ereptic
ereption
erer
erethic
erethisia
ereuthism
ereuthismic
ereuthisms
ereuthistic
ereutic
erewhile
erewhiles
erf
erg
ergal
ergamine
ergasia
ergasterion
ergastic
ergastoplasm
ergastoplasmic
ergastulum
ergatandromorph
ergatandromorphic
ergatandumous
ergatandry
ergate
ergates
ergative
ergatocracy
ergatocrat
ergatogyne
ergatogynous
ergatogyne
ergatoid
ergatomorph
ergatomorphic
ergatomorphism
ergometer
ergo
ergocalciferol
ergodic
ergodicity
ergogram
ergograph
ergographic
ergoism
ergology
ergomaniac
ergometer
ergometric
ergometrine
ergon
ergonomic
ergonomically
ergonomics
ergonomist
ergonovine
ergophile
ergophobia
ergophobiac
ergophobic
ergoplasm
ergostat
ergosterin
ergosterol
ergot
ergotamine
ergotaminine
ergoted
ergothioneine
ergotic
ergotin
ergotine
ergotinine
ergotism
ergotisms
ergotist
ergotization
ergotize
ergotized
ergotizing
ergotoxin
ergotoxine
ergots
ergs
ergusia
eria
eric
erica
ericaceous
ericad
erical
ericas
ericetal
ericeticolous
ericetum
erichthoid
erichthus
erichtoid
ericineous
ericius
ericoid
ericolin
ericophyte
erie
erigeron
erigerons
erigible
eriglossate
erika
erikite
erin
erinaceous
erineum
eringo
eringoes
eringos
erinite
erinnic
erinose
erinyes
eriocaulaceous
erioglaucine
eriometer
erionite
eriophorum
eriophyid
eriophyllous
eris
eristic
eristical
eristically
eristics
erizo
erk
erke
erliche
erling
erlings
erme
ermelin
ermilne
ermine
ermine's
ermined
erminne
ermines
erminette
ermining
erminites
erminois
ermit
ermitophobia
ern
erne
ernes
ernesse
ernest
erns
erodability
erodable
erode
eroded
erodent
erodes
erodibility
erodible
eroding
erodium
erogate
erogeneity
erogenesis
erogenetic
erogenetic
erotomaniac
erotomaniacal
erotopath
erotopathic
erotopathy
erotophobia
erotylid
erpetologist
erpetology
er
errability
errable
errableness
errabund
errancies
errancy
errand
errands
errant
errantly
errantness
errantries
errantry
errants
errata
erratas
erratic
erratically
erraticalness
erraticism
erraticness
erratics
erratum
erratums
erratuta
ered
errhine
errhines
erring
erringly
errite
erron
erroneous
erroneously
erroneousness
error
error's
erythrean
erythremia
erythrememelalgia
erythrene
erythric
erythrin
erythrina
erythrine
erythrisma
erythritic
erythrite
erythritic
erythritol
erthroblast
erythroblastic
erythroblasticosis
erythroblastotic
erythrocarpous
erythrocalcysis
erythroclastic
erthroocyte
erthrocytes
erthrocytic
erythrocytoblast
erythrocytolyzin
erthrocytolyisis
erthrocytolytic
erythrocytometer
erythrocytometry
erythrocytorrhesis
erythrocytoschisis
erythrocytosis
erythrodegenerative
erythroderma
erythrodermia
erythroductrin
erythrogen
erythrogenesis
erythrogenic
erythrogulin
erythrogonium
erythroid
erythrol
erythrolein
erythrolitmin
erthrolysin
erthrolysis
erthrolytic
erthromania
erthromelalgia
erthromycin
erthon
erthrineocytosis
erthronium
erthrons
erthropenia
erthrophage
erthrophagous
erthrophilous
erthrophleine
erthrophobia
erthrophore
erthrophyll
erthrophyllin
erthropia
erthroplastid
erthropoiesis
erthropoietic
erthropoietin
erthropsia
erthropsin
erthorrhaxis
erthroscope
erthrose
erthrosiderite
erthrosin
erthrosine
erthrosinophile
erthrosis
erthroxylaceous
erthroxyline
erthrozincite
erthrozyme
erthrulose
erzahler
es
esau
esbatement
esbay
esc
esca
escadriille
escadrilles
escalade
escaladed
escalader
escalades
escalading
escalado
escalan
escalate
escalated
escalates
escalating
escalation
escalations
escalator
escalators
escalatory
escalier
escalin
escallonia
escalloniaceous
escallop
escalloped
escalloping
escallops
escalop
escalope
escaloped
escaloping
escalops
escambio
escambron
escamotage
escamoteur
escandalize
escapable
escapade
escapade's
escapades
escapado
escapepage
escape
escaped
escapee
escapee's
escapees
escapeful
escapeless
escoting
escots
escout
escribano
escribe
escribied
escribiente
escribientes
escribing
escriime
escript
escriitoire
escriitoires
escriptorial
eschod
escrol
escroll
escropulo
escrow
escrowed
escrowee
escrowing
escrows
escruage
escry
escuage
escuages
escudero
escudo
escudos
escuela
esculapian
esculent
esculents
esculetin
esculic
esulcin
escurialize
escutcheon
escutcheoned
escutcheons
escutellate
esd
esdragol
es
esemplastic
esemplasy
esepate
espousals
espouse
espoused
espousement
espouser
espousers
espouses
espousing
espressivo
espresso
espressos
espringal
esprise
esprit
esprits
esprove
espundia
espy
espying
esq
esquamate
esquamulose
esquimau
esquire
esquirearchy
esquired
esquiredom
esquires
esquireship
esquiring
esquisse
esrog
esrogim
esrogs
ess
essancia
essancias
essang
essart
essay
essayed
essayer
essayers
essayette
essayical
essaying
essayish
essayism
estoppage
estoppal
estopped
estoppel
estoppels
estopping
estops
estoque
estovers
estrada
estradas
estrede
estradiol
estradiot
estrado
estragol
estragole
estragon
estragnons
estral
estramazone
estrange
estranged
estrangedness
estrangelo
estrangement
estrangements
estranger
estranges
estranging
estrangle
estrapade
estray
estrayed
estraying
estrays
estre
estreat
estreated
estreating
estreats
estrepe
estrepement
estriate
estrich
estriche
estrif
estrildine
estrin
estrins
estriol
estriols
estrogen
estrogenic
estrogenically
estrogenicity
estrogens
estrone
estrones
estrous
estrual
estruate
estruation
estrum
estrums
estrus
estruses
estuant
estuarial
estuarian
estuaries
estuarine
estuary
estuate
estudy
estufa
estuosity
estuous
esture
estus
esu
esugarization
esurience
esuriency
esurient
esuriently
esurine
et
eta
etaballi
etabelli
etacism
etacist
etaerio
etagere
etageres
etherealised
etherealising
etherealism
ethereality
etherealization
etherealize
etherealized
etherealizing
ethereally
etherealness
etherean
ethered
etherene
ethereous
etherial
etherialisation
etherialise
etherialised
etherialising
etherialism
etherialization
etherialize
etherialized
etherializing
etherially
etheric
etherical
etherification
etherified
etherifies
etheriform
etherify
etherifying
etherin
etherion
etherish
etherism
etherization
etherize
etherized
etherizer
etherizes
etherizing
etherlike
ethernet
ethernets
etherol
etherolate
ethmoiditis
ethmoids
ethmolachrymal
ethmolith
ethmomaxillary
ethmonasal
ethmopalatal
ethmopalatine
ethmophysal
ethmopresphenoidal
ethmose
ethmosphenoid
ethmosphenoidal
ethmoturbinal
ethmoturbinate
ethmovomer
ethmovomerine
ethmyphitis
ethnal
ethnarch
ethnarchies
ethnarchs
ethnarchy
ethnic
ethnical
ethnically
ethnicism
ethnicist
ethnicity
ethnicize
ethnicon
ethnics
ethnish
ethnize
ethnobiological
ethnobiology
ethnobotanic
ethnobotanical
ethnobotanist
ethnobotany
ethnocentric
ethnocentrically
ethnocentricity
ethnocentrism
ethnocracy
ethnodicy
ethnoflora
ethnog
ethnogenic
ethnogenies
ethnogenist
ethnogeny
ethnogeographer
ethnogeographic
ethnogeographical
ethnogeographically
ethnogeography
ethnographer
ethnographic
ethnographical
ethnographically
ethnographies
ethnographer
ethnography
ethnohistorian
ethnohistoric
ethnohistorical
ethnohistorically
ethnohistory
ethnol
ethnolinguist
ethnolinguistic
ethnolinguistics
ethnologer
ethnologic
ethnological
ethnologically
ethnologist
ethnologists
ethnology
ethnomaniac
ethnomanic
ethnomusicological
ethnomusicologically
ethnomusicologist
ethnomusicology
ethnopsychic
ethnopsychological
ethnopsychology
ethnos
ethnoses
ethnotechnics
ethnotechnography
ethnozoological
ethnozoology
ethography
etholide
ethologic
ethological
ethologically
ethologies
ethologist
ethologists
ethology
ethonomic
ethonomics
ethonone
ethopoecia
ethopoetic
ethos
ethoses
ethoxide
ethoxy
ethoxycaffeine
ethoxyethane
ethoxyl
ethoxyls
ethrog
ethrogin
ethrogs
eths
ethyl
ethylamide
ethylamime
ethylamin
ethylamine
ethylate
ethylated
ethylates
ethylating
ethylation
ethylbenzene
ethyldichloroarsine
ethylenation
ethylene
ethylenediamine
ethylenes
ethylenic
ethylenically
ethylenimine
ethylenoid
ethylhydrocupreine
ethyllic
ethylidene
ethylidyne
ethyl
ethylmorphine
ethyls
ethylsulphuric
ethylthioethane
ethylthioether
ethyne
ethynes
ethynyl
ethynylation
ethynyls
ethysulphuric
etiam
etiogenic
etiolate
etiolated
etiolates
etiolating
etiolation
etiolin
etiolize
etiologic
etiological
etiologically
etiologies
etiologist
etiologue
etiology
etiophyllin
etioporphyrin
etiotropic
etiotropically
etiquet
etiquette
etiquettes
etiquettical
etna
etnas
etoffe
etoile
etoiles
eton
etonian
etouffe
etourderie
etrenne
etrier
etrog
etrogim
etrogs
eturia
eturian
etruscan
etruscans
ettercap
ettirone
ettle
etted
ettling
etua
etude
etudes
etui
etuis
etuve
etuvee
etwas
etwee
etwees
etwite
ety
etym
etyma
etymic
etymography
etymol
etymologer
etymologic
etymological
etymologically
etymologicon
etymologies
etymologisable
etymologise
etymologised
etymologising
etymologist
etymologists
etymologizable
etymologization
etymologize
etymologized
etymologizing
etymology
etymon
etymonic
etymons
etypic
etypical
etypically
eu
euangiotic
euaster
eubacteria
eubacterium
euboic
eubteria
eucaine
eucaines
eucairite
eucalyn
eucalypt
eucalypteol
eucalypti
eucalyptian
eucalyptic
eucalyptography
eucalyptol
eucalyptole
eucalypts
eucalyptus
eucalyptuses
eucarpic
eucarpous
eucaryote
eucaryotic
eucatropine
eucephalous
eugia
eucharis
eucharises
eucharist
eucharistial
eucharistic
eucharistical
eucharistically
eucharistize
eucharistized
eucharistizing
eucharists
euchite
euchlorhydria
euchloric
euchlorine
euchlorite
euchologia
euchological
euchologies
euchologion
euchology
euchre
euchred
euchres
euchring
euchroic
euchroite
euchromatic
euchromatin
euchrome
euchromosome
euchrone
euchymous
euchysiderite
euciliate
euclase
euclases
ucleid
euclid
euclidean
eucolite
eucone
euconic
eucosmid
eucrasia
eucrasite
eucrasy
eucre
eucrite
eucrites
eucritic
eucryphiaceous
eucryptite
eucrystalline
eucti
euctical
eucyclic
euda
eudaemon
eudaemonia
eudaemonic
eudaemonical
eudaemonics
eudaemonism
eudaemonist
eudaemonistic
eudaemonistical
eudaemonistically
eudaemonize
eudaemons
eudaemony
eudaimonia
eudaimonism
udaimonist
udaimonist
eudalene
udemon
eudemonia
udemonic
udemonics
udemonism
udemonist
udemonistic
udemonistical
udemonistically
udemons
udemony
udesmol
udagnostic
udialyte
udiaephoresis
udidymite
udimeter
udimetric
udimetrical
udimetrically
udimetry
udipleural
uecetic
ueemerism
ueflavine
uege
uegene
uegenesic
uegenesis
uegenetic
uegenia
uegenic
uegenical
uegenically
eugenicist
eugenicists
eugenics
eugenism
eugenist
eugenists
eugenol
eugenolate
eugenols
eugen
eugeosynclinal
eugeosyncline
euglena
euglenas
euglenoid
euglobulin
eugonic
eugranitic
euhages
euharmonic
euhedral
euhemerise
euhemerised
euhemerising
euhemerism
euhemerist
euhemeristic
euhemeristically
euhemerize
euhemerized
euhemerizing
euhystylic
euhystyly
eukairite
eukaryote
euktolite
eulachan
eulachans
eulachon
eulachons
eulalia
eulamellibranch
eulamellibranchiate
euler
eulerian
eulogia
eulogiae
eulogias
eulogic
eulogical
eulogically
eulogies
eulogious
eulogisation
eulogise
eulogised
eulogiser
eulogises
eulogising
eulogism
eulogist
eulogistic
eulogistical
eulogistically
eulogists
eulogium
eulogiums
eulogization
eulogize
eulogized
eulogizer
eulogizers
eulogizes
eulogizing
eulogy
eulophid
eulysite
eulytin
eulytine
eulyrite
eumelanin
eumemorrhea
eumenid
eumenides
eumenorrhea
eumerism
eumeristic
eumerogenesis
eumerogenetic
eumeromorph
eumeromorphic
eumitosis
eumitotic
eumoirity
eumoirous
eumölpaque
eumorphic
eumorphous
eumycete
eumycetic
eundem
eunicid
eunomy
eunuch
eunuchal
eunuchise
eunuchised
eunuchising
eunuchism
eunuchize
eunuchized
eunuchizing
eunuchoid
eunuchoidism
eunuchry
eunuchs
euodic
euomphalid
euonym
euonymmin
euonymous
euonymus
euonymuses
euonymy
euornithic
euosmite
euouae
eupad
eupathy
eupatoriaceous
eupatarin
eupatorine
eupatorium
eupatory
eupatrid
eupatridae
eupatrids
eupepsia
eupepsias
eupepsies
eupepsy
eupectic
eupeptically
eucepticism
euppticity
euphausid
euphausiid
euphemia
euphemious
euphemiously
euphemisation
euphemise
euphemised
euphemiser
euphemising
euphemism
euphemism's
euphemisms
euphemist
euphemistic
euphemistical
euphemistically
euphemization
euphemize
euphemized
euphemizer
euphemizing
euphemous
euphemy
euphemic
euphenics
euphon
ephone
euphonic
euphonic
euphonic
euphonically
euphonicalness
euphonies
euphonious
euphoniously
euphoniousness
euphonise
euphonised
euphonising
euphonism
euphonium
euphonize
euphonized
euphonizing
euphonon
euphonous
euphony
euphonym
euphorbia
euphorbiaceous
euphorbial
euphorbine
euphorbium
euphoria
euphoriang
euphorias
euphoric
euphorically
euphory
euphotic
euphotide
euphrasia
euphrasies
euphrasy
euphrates
euphroe
euphroes
euphrosyne
euphues
euphuiism
euphuisms
euphuiist
euphuiistic
euphuiistical
euphuiistically
euphuiists
euphuize
uphuized
euphuizing
euphyllite
eupion
eupione
eupittone
eupittonic
euplastic
euploid
euploidies
euploids
euployd
uplotid
upnean
eupneas
eupneic
eupnoea
eupnoeas
eupnoeic
eupolyzoan
eupotamiec
eupractic
eupraxia
eupysychics
eupyrchroite
eupyrene
eupyrion
euraquilo
eurasia
eurasian
eurasians
eure
eureka
eurhodine
eurhodol
eurhythmic
eurhythmical
eurhythmics
eurhythmmy
euripi
euripidean
euripides
euripos
euripupi
euripus
eurite
eurithermophile
eurithermophilic
euro
eurobin
eurocentric
euroclydon
eurodollar
eurodollars
europa
europe
european
europeanism
europeanize
europeans
europhium
europium
europiums
euros
eurous
eurus
euryalean
euryalidan
eurybathic
eurybenthic
eurycephalic
eurycephalous
eurycerous
eurychoric
eurydice
eurygnathic
eurygnathism
eurygnathous
euryhaline
eurylaimoid
euryon
euryphage
euryphagous
euryprognathous
euryprosoponic
eurypterid
eurypteroid
eurypylous
euryscope
eurystomatous
euryte
eurytherm
eurythermal
eurythermic
eurythermous
eurythmic
eurythmical
eurythmics
eurythmies
eurythymy
eurytomid
eurytopic
eurytopicity
eurytropic
euryzygous
eusebian
euskarian
eusol
eusporangiate
eustachian
eutrophication
eutrophies
eutrophy
eutropic
eutropous
eutychian
euvrou
euwathate
euxanthic
euxanthin
euxanthone
euxenite
euxenites
evacuant
evacuants
evacuate
evacuated
evacuates
evacuating
evacuation
evacuations
evacuative
evacuator
evacuators
evacue
evacuee
evacuees
evadable
evade
evaded
evader
evaders
evades
evadible
evading
evadingly
evagination
evaginable
evaginate
evaginated
evaginating
evagination
eval
evaluable
evaluate
evaluated
evaluates
evaluating
evaluation
evaluations
evaluative
evaluator
evaluator's
evaluators
evalue
evanesce
evanesced
evanescence
evanescency
evanescently
vanescent
vanescently
vanesces
vanescible
vanescing
evang
evangel
evangelary
evangelian
evangeliaries
evangeliarum
evangeliary
evangelic
evangelical
evangelicalism
evangelicality
evangelically
evangelicalness
evangelicals
evangelican
evangelicism
evangelicity
evangelion
evangelisation
evangelise
evangelised
evangeliser
evangelising
evangelism
evangelist
evangelistaries
evangelistarion
evangelistarium
evangelistary
evangelistic
evangelistically
evangelistics
evangelists
evangelistship
evangelium
evangelization
evangelize
evangelized
evangelizer
evangelizes
evangelizing
evangel
evanid
evanish
evanished
evanishes
evanishing
evanishment
evanition
evans
evansite
evap
evaporability
evaporable
evaporate
evaporated
evaporates
evaporating
evaporation
evaporations
evaporative
evaporatively
evaporativity
evaporator
evaporators
evaporimeter
evaporite
evaporitic
evaporize
evaporometer
evapotranspiration
evase
evasible
evasion
evasional
evasions
evasive
evasively
evoking
evolate
evolute
evolute's
evolutes
evolutility
evolution
evolution's
evolutional
evolutionally
evolutionarily
evolutionary
evolutionism
evolutionist
evolutionistic
evolutionistically
evolutionists
evolutionize
evolutions
evolutive
evolutoid
evolvable
evolve
evolved
evolvement
evolvements
evolvent
evolver
evolvers
evolves
evolving
evolvulus
evomit
evonymus
evonymuses
evovae
evulgation
evulg
evulse
evulsion
evulsions
eviva
evzone
evzones
ew
ewder
ewe
exactress
exacts
exactus
exacuate
exacum
exadverso
exadversum
exaestuate
exaggerate
exaggerated
exaggeratedly
exaggeratedness
exaggerates
exaggerating
exaggeratingly
exaggeration
exaggerations
exaggerative
exaggeratively
exaggerativeness
exaggerator
exaggerators
exaggeratory
exagitare
exagitation
exairesis
exalate
exalbuminose
exalbuminous
exallotriote
exalt
exaltate
exaltation
exaltations
exaltative
exalte
exalted
exaltedly
exaltedness
exalteee
exalter
exalters
exalting
exaltment
exalts
exam
exam's
examen
examens
exameter
examinability
examinable
examinant
examine
examination's
examinational
examinationism
examinationist
examinations
examinative
examinator
examinatorial
examinatory
examine
examined
examinee
examinees
examiner
examiners
examinership
examines
examining
examiningly
examplar
example
example's
examined
exampleless
examples
exampleship
exampleless
examplings
exams
exanguin
exanimate
examination
exannulate
exanthalose
exanthem
exanthema
exanthemas
exanthemata
exanthematic
exanthematous
exanthems
exanthine
exantlate
exantlation
exappendiculate
exarate
exaration
exarch
exarchal
exarchate
exarchateship
exarchies
exarchist
exarchs
exarchy
exareolate
exarillate
exaristate
exarteritis
exarticulate
exarticulation
exasper
exasperate
exaspered
exasperatedly
exasperater
exasperates
exasperating
exasperatingly
exasperation
exasperative
exaspidean
exauctorate
exaugurate
exauguration
exaun
exauthorate
exauthorize
exauthorizeexc
excalate
excalation
excalcarate
excalceate
excalceation
excallfaction
excalibur
excamb
excamber
excambion
excandescence
excandescency
excandescent
excantation
excardination
excarnate
excarnation
excardinate
excathedral
excaudate
excave
excavate
excavated
excavates
excavating
excavation
excavational
excavationist
excavations
excavator
excavatorial
cavators
excavatory
excave
execrate
execration
excedent
exceed
exceedable
exceeded
exceeder
exceeders
exceeding
exceedingly
exceedingness
exceeds
excel
excelsent
exelled
excellence
excellences
excellencies
excellency
excellent
excellently
excelling
excels
excelse
excelsin
excelsior
excelsitude
excentral
excentric
excentrical
excentricity
exceptable
except
exceptant
excepted
excepter
excepting
exceptio
exception
exception's
exceptionability
exceptionable
exceptionableness
exceptionably
exceptional
exceptionality
exceptionally
exceptionalness
exceptionary
exceptioner
exceptionless
exceptions
exceptious
exceptiousness
exceptive
exceptively
exceptiveness
exceptless
exceptor
excepts
excercise
excerebrate
excerebration
excern
excerpt
excerpt
excerpt
excerptable
excerptible
excerpting
excretion
excerpt
excogitator
excommenge
excommune
excommunicable
excommunicant
excommunicate
excommunicated
excommunicates
excommunicating
excommunication
excommunications
excommunicative
excommunicator
excommunicators
excommunicatory
excommunion
exconjugant
excoriable
excoriate
excoriated
excoriates
excoriating
excoriation
excoriations
excoriator
excorticate
excorticated
excorticating
excortication
excreation
excrement
excremental
excrementally
excrementary
excrementitial
excrementitious
excrementitiously
excrementitiousness
excrementive
excrementize
excrementous
excrements
excrese
excrecence
excrescences
excrescencies
excrescency
excrecent
excrecential
excrecently
excrecence
excreession
excreta
excretal
excrete
excreted
excreter
excreters
excretes
excreting
excretion
excretionary
excretions
excretitious
excretive
excretolic
excretory
excriminate
excruciable
excruciate
excruciated
excruciating
excruciatingly
excruciatingness
excruciation
excruciator
excrubant
excubitoria
excubitorium
excubittoria
excud
excudate
excuderunt
excudit
exculpable
exculpate
exculpated
exculpates
exculpating
exculpation
exculpations
exculpative
exculpatorily
exculpatory
excur
excurrent
exemplified
exemplifier
exemplifiers
exemplifies
exemplify
exemplifying
exemplum
exemplupla
exempt
exempted
exemptible
exemptile
exempting
exemption
exemptionist
exemptions
exemptive
exempts
exencephalia
exencephalic
exencephalous
exencephalus
exendospermic
exendospermous
exenterate
exenterated
exenterating
exenteration
exenteritis
exequatur
exequial
exequies
exequy
exerce
exercent
exercisable
exercise
exercised
exerciser
exercisers
exercises
exercising
exercitant
exercitation
exercite
exercitor
exercitorial
exercitorian
exigency
exigent
exigenter
exigently
exigible
exiguities
exiguity
exiguous
exiguously
exiguousness
exilable
exilarch
exilarchate
exile
exiled
exiledom
exilement
exiler
exiles
exilian
exilic
exiling
exilition
exility
eximidus
eximious
eximiously
eximiousness
exinanite
exinanition
exindusiate
exine
exines
exing
exinguinal
exinite
exintine
exion
exist
existability
existant
existed
existence
existences
existent
existential
existentialism
existentialist
existentialist's
existentialistic
existentialistically
existentialists
existentialize
existentially
existent
existents
exister
existibility
existible
existimation
existing
existless
existlessness
exists
exit
exitance
exite
exited
exitial
exiting
exion
exitious
exits
exiture
exitus
exla
exlex
exmeridian
exmoor
exoarteritis
exoascaceous
exobiological
exobiologist
exobiologists
exobiology
exocannibalism
exocardia
exocardiac
exocardial
exocarp
exocarps
exocataphoria
exoccipital
exocentric
exochorion
exoclinal
exophoria
exophoric
exophthalmia
exophthalmic
exophthalmos
exophthalmus
exoplasm
exopod
exopodite
exopoditic
exopt
exopterygote
exopterygotic
exopterygotism
exopterygotous
exor
exorability
exorable
exorableness
exorate
exorbital
exorbitance
exorbitancy
exorbitant
exorbitantly
exorbitate
exorbitation
exorcisation
exorcise
exorcised
exorcisement
exorciser
exorcisers
exorcises
exorcising
exorcism
exorcismal
exorcisms
exorscisory
exorcist
exorcista
exorcistic
exorcistical
exorcists
exorcization
exorcize
exorcized
exorcizement
exotericism
exoterics
exotery
exotheca
exothecal
exothecate
exothecium
exothermal
exothermally
exothermic
exothermically
exothermicity
exothermous
exotic
exotica
exotically
exoticalness
exoticism
exoticist
exoticity
exoticness
exotics
exotism
exotisms
exosporium
exotoxic
exotoxin
exotoxins
exotropia
exotropic
exotropism
exp
expalpate
expand
expandability
expandable
expanded
expandedly
expandedness
expander
expander’s
expanders
expandibility
expandible
expanding
expandingly
expands
expanse
expenselessness
expenses
expensilation
expensing
expensive
expensively
expensiveness
expenthesis
expergefacient
expergefaction
experience
experienceable
experienced
experienceless
experiencer
experiences
experiencible
experiencing
experient
experiential
experientialism
experientialist
experientialistic
experientially
experiment
experimental
experimentalism
experimentalist
experimentalists
experimentalize
experimentally
experimentarian
experimentation
experimentation's
experimentations
experimentative
experimentator
experimented
experimentee
experimenter
experimenters
experimenting
experimentist
experimentize
experimently
experimentor
experiments
experimentized
expiring
expiringly
expiry
expiscate
expiscated
expiscating
expiscation
expiscator
expiscatory
explain
explainability
explainable
explainableness
explained
explainer
explainers
explaining
explainingly
explains
explant
explantation
explanation
explanation's
explanations
explanative
explanatively
explanator
explanatorily
explanatoriness
explanatory
explanatory
explant
explantation
explanted
explanting
explants
explat
exples
explement
explemental
explementary
explete
expletive
expletively
expletiveness
expletives
expletory
explicability
exponentiations
exponention
exponents
exponible
export
exportability
exportable
exportation
exportations
exported
exporter
exporters
exporting
exports
expos
exposable
exposal
exposals
expose
exposed
exposedness
exposer
exposers
exposes
exposing
exposit
exposited
expositing
exposition
exposition's
expositional
expositionary
expositions
expositive
expositively
expositor
expositorial
expositorially
expositorily
expositoriness
expositors
expository
expositress
exposits
expostulate
expostulated
expostulates
expostulating
expostulatingly
expostulation
expostulations
expostulative
expostulatively
expostulator
expostulatory
exposure
exposure's
exposures
expound
expoundable
expounded
expounder
expounders
expounding
expounds
expreme
express
expressable
expressage
expressed
expresser
expresses
expressibility
expressible
expressibly
expressing
expressio
expression
expression's
expressionable
expressional
expressionful
expressionism
expressionist
expressionistic
expressionistically
expressionists
expressionless
expressionlessly
expressionlessness
expressions
expressive
expressively
expressiveness
expressivism
expressivity
expressless
expressly
expressman
expressmen
expressness
expresso
expressor
expressure
expressway
expressways
exprimable
exprobate
exprobate
exprobation
exprobatory
expromission
expromissor
expropriable
expropriate
expropriated
expropriates
expropriating
expropriation
expropriations
expropriator
expropriatory
expt
exptl
expugn
expugnable
expuition
expulsatory
expulse
expulsed
expulser
expulses
expulsing
expulsion
expulsionist
expulsions
expulsive
expulsory
expunction
expunge
expungeable
expunged
expungement
exscriptural
exculp
exculptate
excutellate
exsec
exsecant
exsecants
exsect
exsected
exsectile
exsecting
exsection
exsector
exsects
exsequatur
exert
exserted
exsertile
exserting
exsertion
exserts
exsheath
exship
exsibilate
exsibilation
exsiccant
exsiccatae
exsiccate
exsiccated
exsiccating
exsiccation
exsiccative
exsiccator
exsiliency
exsolution
exsolve
exsolved
exsolving
exsomatic
exspoliation
exspuion
exsputory
exstemporal
exstemporaneous
exstill
exstimulate
exstipulate
exstropey
exter
exterior
exterior's
exteriorate
exterioration
exteriorisation
exteriorise
exteriorised
exteriorising
exteriority
exteriorization
exteriorize
exteriorized
exteriorizing
exteriorly
exteriorness
exteors
exterminable
exterminate
exterminated
exterminates
exterminating
extermination
exterminations
exterminative
exterminator
exterminators
exterminatory
exterminatress
exterminatrix
exterminate
exterminated
exterminating
exterminist
extern
externa
external
externalisation
externalise
externalised
externalising
externalising
externalism
externalist
externalistic
externalities
externality
externalization
externalize
externalized
externalizes
externalizing
externally
externalness
externals
externat
externate
externation
externe
externes
externity
externization
externize
externomedian
externs
externship
externum
exterocptist
exterceptive
exterceptor
exterous
exterraneuous
exterrestrial
exterritorial
exterritoriality
exterritorialize
exterritorially
extensive
extg
extill
extima
extime
extimulate
extinct
extincted
extincteur
extincting
extinction
extinctionist
extinctions
extinctive
extinctor
extincts
extine
extinguised
extinguish
extinguishable
extinguishant
extinguished
extinguisher
extinguishers
extinguishes
extinguishing
extinguishment
extipulate
extirp
extirpate
extirpated
extirpateo
extirpates
extirpating
extirpation
extirpationist
extirpations
extirpative
extirpator
extirpatory
extispex
extispices
extispicious
extispicy
extogenous
extol
extoled
extoling
extoll
extollation
extolled
extoller
extollers
extolling
extollingly
extollment
extolls
extolment
extols
extoolitic
extorsion
extorsive
extorsively
extort
extorted
extorter
extorters
extorting
extortion
extortionary
extortionate
extortionately
extortionateness
extortioner
extortioners
extortionist
extortionists
extortions
extortive
extorts
extra
extrabold
extraboldface
extrabranchial
extrabranchial
eextrabuccal
extrabulbar
extrabureaucratic
extrabureaulike
extracalendar
extracalicular
extracanonical
extracapsular
extracardial
extracarpal
extracathedral
extracellular
extracellularly
extracerebral
extrachromosomal
extracivic
extracivically
extraclassroom
extraclassustral
extracloacal
extracollegiate
extracolumella
extracondensed
extraconscious
extraconstellated
extraconstitutional
extracorporeal
extracorporeally
extracorpuscular
extracosmic
extracosmical
extracostal
extracranial
extract
extractability
extractable
extractant
extracted
extractibility
extractible
extractiform
extracting
extraction
extraction's
extractions
extractive
extractively
extractor
extractor's
extractors
extractorship
extracts
extracultural
extracurial
extracurricular
extracurriculum
extracutaneous
extracystic
extradecretal
extradialectal
extradict
extradictable
extradicted
extradicting
extradictionary
extraditable
extradite
extradited
extradites
extraditing
extradition
extraditions
extradomestic
extrados
extradosed
extradoses
extradotal
extraduction
extradural
extraembryonal
extraembryonic
extraenteric
extraepiphyseal
extraequilibrium
extraessential
extraessentially
extrafascicular
extrafine
extrafloral
extrafocal
extrafoliaceous
extraforaneous
extraformal
extragalactic
extragastric
extrahazardous
extrahepatic
extrait
extrajudicial
extrajudicially
extralateral
extralegal
extralegally
extraliminal
extralimital
extralinguistic
extralinguistically
extralite
extrality
extramarginal
extramarital
extramatrical
extramedullary
extramental
extrameridian
extrameridional
extrametaphysical
extrametrical
extrametropolitan
extramission
extramodal
extramolecular
extramorainal
extramorainic
extramoral
extramoralist
extramundane
extramural
extramurally
extramusical
extranational
extranatural
extranean
extraneity
extraneous
extraneously
extraneousness
extranidal
extranormal
extranuclear
extraocular
extraofficial
extraoral
extraorbital
extraorbitally
extraordinaries
extraordinarily
extraordinariness
extraordinary
extraorganismal
extraovate
extraovular
extraparenchymal
extraparental
extraparietal
extraparlamentary
extraparochial
extrapatriarchal
extrapelvic
extraperineal
extraperiodic
extraperiosteal
extraperitoneal
extraphenomenal
extraphysical
extraphysiological
extrapituitary
extraplacental
extraplanetary
extrapleural
extrapoetical
extrapolar
extrapolate
extrapolated
extrapolates
extrapolating
extrapolation
extrapolations
extrapolative
extrapolator
extrapolatory
extrapopular
extraposition
extraprofessional
extraprostatic
extraprovincial
extrapulmonary
extrapunitive
extrapyramidal
extraquiz
extrared
extraregarding
extraregular
extraregularly
extrarenal
extraretinal
extrarhythmical
extras
extrasacerdotal
extrascholastic
extraschool
extrascientific
extrascriptural
extrascripturality
extrascientific
extrascientific
extrascriptural
extrascripturality
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascientific
extrascience
extrasystole
extrasystolic
extratabular
extratarsal
extratellurian
extratelluric
extratemporal
extratension
extratensive
extraterrene
extraterrestrial
extraterrestrially
extraterrestrials
extraterritorial
extraterritoriality
extraterritorially
extraterritorials
extrathecal
extratheistic
extrathermodynamic
extrathoracic
extratorrid
extratracheal
extratribal
extratropical
extratubal
extratymppanic
extraught
extrauterine
extravagance
extravagances
extravagancies
extravagancy
extravagant
extravagantly
extravagantness
extravaganza
extravaganzas
extravagate
extravagated
extravagating
extravagation
extravagence
extravaginal
extravasate
extravasated
extravasating
extravasation
extrinsicability
extrinsically
extrinsicalness
extrinsicate
extrinsication
extroiitive
extrotropical
extrorsal
extrorse
extrorsely
extrospect
extrospection
extrospective
extroversive
extroversively
extrovert
extroverted
extrovertedness
extrovertish
extrovertive
extrovertively
extroverts
extract
extrudability
extrudable
extrude
extruded
extruder
extruders
extrudes
extruding
extrusible
extrusile
extrusion
extrusions
extrusive
extrusory
extubate
extubation
extuberance
extuberant
extuberate
extumescence
extund
exturb
extusion
extypal
exuberance
exuberancy
exuberant
exuberantly
exuberantness
exuberate
exuberated
exuberating
exuberation
exuccous
exucontian
exudate
exudates
exudation
exudations
exudative
exudatory
exude
exuded
exudence
exudes
exuding
exul
exulate
exulcerate
exulcerated
exulcerating
exulceration
exulcerative
exulceratory
exulding
exult
exultance
exultancy
exultant
exultantly
exultation
exulted
exultet
exulting
exultingly
exults
exululate
exumbral
exumbrellar
exundance
exundancy
exundate
exundation
exungulate
exuperable
exurb
exurban
exurbanite
exurbanites
exurbia
exurbias
exurbs
exurge
exuscitate
exust
exuvia
exuviability
exuviable
exuviae
exuvial
exuviate
exuviated
exuviates
exuviating
exuviation
exuvium
exxon
exzodiacal
ey
eyah
eyalet
eyas
eyases
eyass
eydent
eye
eyeable
eyeball
eyeballed
eyeballing
eyeballs
eyebalm
eyebar
eyebath
eyebeam
eyebeams
eyeberry
eyeblack
eyelike
eyeline
eyeliner
eyeliners
eyemark
eyen
eyeopener
eyepiece
eyepiece's
eyepieces
eyept
eyepoint
eyepoints
eyepopper
eyer
eyereach
eyeroot
eyers
eyes
eyesalve
eyeseed
eyeservant
eyeserver
eyeservice
eyeshade
eyeshades
eyeshield
eyeshine
eyeshot
eyeshots
eyesight
eyesights
eyesight
eyesome
eyesore
eyesores
eyespot
eyespots
eyess
eyestalk
eyestalks
eyestone
eyestones
eyestrain
eyestring
eyestrings
eyeteeth
eyetooth
eyewaiter
fac
cadadal
cadade
celedaced
cales
cace
aceable
cacebar
acebow
acebread
acecloth
aced
acedown
aceharden
aceless
acelessness
aceelift
aceelits
aceellite
aceemaker
aceaking
aceeman
aceemark
aceoff
aceepiece
aceeplate
acer
aceers
aces
acesaving
aceet
aceete
aceeted
aceetely
aceenness
aceetae
aceetiation
aceeting
aceetious
aceetiously
aceetiousness
aces
aceette
aceetted
aceetting
aceeup
aceewise
aceework
faculty
faculty's
facund
facundity
facy
fad
fadable
fadaise
faddier
faddiest
faddiness
fadding
faddish
faddishly
faddishness
faddism
faddisms
faddist
faddists
faddle
faddy
fade
fadeaway
fadeaways
faded
fadedly
fadedness
fadednyess
fadeless
fadelessly
faden
fadeout
fader
faders
fades
fadge
fadged
fadges
fadging
fading
fadingly
fadingness
fadings
fadlike
fadme
fadmonger
fadmongering
fadmongery
fado
fados
fadridden
fads
fady
fae
faecal
faecalith
faeces
faecula
faeculence
faena
faenas
faence
faenus
faerie
faeries
faeroese
faery
faeryland
fafaronade
faff
faffle
faffy
fafnir
fag
fagaceous
fagald
fagara
fage
fager
fagged
fagger
faggery
fagging
faggingly
faggot
faggoted
faggoting
faggotry
faggots
faggoty
faggy
fagin
fagine
fagins
fagopyrysm
fagopyrysmus
fairings
fairish
fairishly
fairishness
fairkeeper
fairlead
fairleader
fairleads
fairlike
fairling
fairly
fairm
fairness
fairnesses
fairs
fairship
fairsome
fairstead
fairtime
fairwater
fairway
fairways
fairy
fairy's
fairydom
fairyfloss
fairyfolk
fairyhood
fairyish
fairyism
fairyisms
fairyland
fairylands
fairylike
fairyologist
fairyology
fairyship
faisan
faisceau
fait
faiery
faith
faithbreach
faithbreaker
faithed
faithful
faithfully
faithfulness
faithfuls
faithing
faithless
faithlessly
faithlessness
faiths
faithwise
faithworthiness
faithworthy
faitor
faitour
faitours
faits
fake
faked
fakeer
fakeers
fakement
faker
fakeries
fakers
fakery
fakes
faki
fakiness
faking
fakir
fakirism
fakirs
faky
fala
falafel
falanaka
falangist
falbala
falbalas
falbelo
falcade
falcate
falcated
falcation
falcer
falces
falchion
falchions
falcial
falcidian
falciform
falciparum
falcon
falconbill
falconelle
falconer
falconers
falconet
falconets
falconiform
falconine
falconlike
falconnoid
falconoid
falconries
falconry
falcons
falcope
falc
cula
falcular
falcute
falda
faldaage
falderal
falderals
falderol
falderols
faldetta
falfee
falding
faldistory
faldstool
falldworth
falern
falernian
falk
fall
falla
fallace
fallacia
fallacies
fallaciously
fallaciousness
fallacy
fallacy's
fallage
fallal
fallalery
famatinite
famble
fame
famed
fameflower
fameful
fameless
famelessly
famelessness
famelic
fames
fameworthy
familiarity
familia
familial
familiar
familiarisation
familiarise
familiarised
familiariser
familiarising
familiarisingly
familiarism
familiarities
familiarity
familiarization
familiarizations
familiarize
familiarized
familiarizer
familiarizes
familiarizing
familiarizingly
familiarly
familiarness
familiars
famiary
familic
families
familism
familist
familistere
familistery
familistic
familistical
famille
family
family's
fantoccini
fantocine
fantod
fantoddish
fantods
fantom
fantoms
fanum
fanums
fanweed
fanwise
fanwork
fanwort
fanworts
fanwright
fanzine
fanzines
faon
fapesmo
faq
faqir
faqirs
faquir
faquirs
far
farad
faradaic
faraday
faradays
faradic
faradisation
faradise
faradised
faradiser
faradises
faradising
faradism
faradisms
faradization
faradize
faradized
faradizer
faradizes
faradizing
faradimeter
faradocontractility
faradomuscular
faradonervous
fardel
fardelet
fardels
fardh
farding
fardo
fards
fare
fared
farenheit
farer
farers
fares
faretta
farewell
farewelled
farewelling
farewells
farfal
farfara
farfel
farfels
farfet
farfetch
farfetched
farfetchedness
farforthly
fargite
fargoing
fargood
farhand
farhands
farina
farinaceous
farinaceously
farinaceous
farinacious
farinas
farine
faring
farinha
farinhas
farinometer
farinose
farinosel
farinosely
farinulent
fario
farish
farkleberries
farkleberry
far
farle
farles
farleu
farley
farls
farm
farmable
farmage
farmed
farmer
farmeress
farmerette
farmeries
farmerish
farmerlike
farmerly
farmers
farmership
farmery
farmhand
farmhands
farmhold
farmhouse
farmhouse's
farmhouses
farmhousey
farming
farmings
farmland
farmlands
farmost
farmout
farmplace
farms
farmscape
farmstead
farmsteading
farmsteads
farmstown
farmwife
famy
famyard
famyard's
famyards
famyardy
famesol
famesols
farness
farnesses
faro
faroieish
faroelite
faroese
faroff
farolito
faros
farouche
farrage
farraginous
farrago
farragoes
farragos
farrand
farrandly
farrant
farrantly
farreachingly
farreate
farreation
farrel
farrier
farrieries
farrierlike
farriers
fariery
farris
farrisite
farrow
farrowed
farrowing
farrows
farruca
farsakh
farsalah
farsang
farse
farseeing
farseeingness
farseer
farset
farsight
farsighted
farsightedly
farsightedness
farstepped
fart
farted
farth
farther
fartherance
fartherer
farthermore
farthermost
farthest
farthing
farthingale
farthingales
farthingdeal
farthingless
farthings
farting
fartlek
farts
farweltered
fas
fasc
fasces
fascet
fascia
fasciae
fascial
fascias
fasciate
fasciated
fasciately
fasciation
fascicle
fascicled
fascicles
fascicular
fascicularly
fasciculate
fasciculated
fasciculately
fasciculation
fascicule
fasciculi
fasciculite
fasciculus
fascilli
fascinate
fascinated
fascinatedly
fascinates
fascinating
fascinatingly
fascination
fascinations
fascinative
fascinator
fascinatress
fascine
fascinery
fascines
fascintatingly
fasciodesis
fasciola
fasciolar
fasciole
fasciolet
fasciolasis
fascioloid
fascioplasty
fasciotomy
fascis
fascism
fascisms
fascist
fascista
fascistic
fascistically
fascisticization
fascisticize
fascistization
fascistize
fascists
fasels
fash
fashed
fasher
fasherie
fashery
fashes
fashing
fashion
fashionability
fashionable
fashionableness
fashionably
fashional
fashionative
fashioned
fashioner
fashioners
fashioning
fashionist
fashionize
fashionless
fashionmonger
fashionmonging
fashions
fashious
fashiousness
fasibitikite
fasinite
fasnacht
fasola
fass
fassaite
fassalite
fast
fastback
fastbacks
fastball
fastballs
fasted
fasten
fastened
fastener
fasteners
fastening
fastenings
fastens
faster
fastest
fastgoing
fasthold
fasti
fastidiosity
fastidious
fastidiously
fastidiousness
fastidium
fastigate
fastigated
fastigia
fastigate
fastigated
fastigiately
fastigious
fastigium
fastigiums
fastiia
fasting
fastingly
fastings
fastish
fastland
fastly
fastnacht
fastness
fastnesses
fasts
fastuous
fastuously
fastuousness
fastus
fastwalk
fat
fatal
fatale
fatales
fatalism
fatalisms
fatalist
fatalistic
fatalistically
fatalists
fatalities
fatality
fatality's
fatalize
fatally
fatalness
fatal
fatal
fatback
fatbacks
fatbird
fatbirds
fatbrained
fatcake
fate
fated
fateful
fatefully
fatefulness
fatelike
fates
fath
fathead
fatheaded
fatheadedly
fatheadedness
fatheads
fathearted
father
father’s
fathercraft
fathered
fatherhood
fathering
fatherkin
fatherland
fatherlandish
fatherlands
fatherless
fatherlessness
fatherlike
fatherliness
fatherling
fatherly
fathers
fathership
fathomur
fathogram
fathom
fathomable
fathomableness
fathomage
fathomed
fathomer
fathometer
fathoming
fathomless
fathomlessly
fathomlessness
fathoms
faticableness
fatidic
fatidical
fatidically
fatiferous
fatigability
fatigable
fatigableness
fatigate
fatigated
fatigating
fatigation
fatiguabilities
fatiguability
fatiguable
fatigue
fatigued
fatigueless
fatigues
fatiguesome
fatiguings
fatiguingly
fatiha
fatihah
fatil
fatiloquent
fating
fatiscence
fatiscent
fatless
fatlike
fatling
fatlings
fatly
fatness
fatnesses
fator
fats
fatshedera
fatsia
fatso
fatsoes
fatsos
fatstock
fatstocks
fattable
fatted
fatten
fattenable
fattened
fattener
fatteners
fattening
fattens
fatter
fattest
fattier
fatties
fattiest
fattily
fattiness
fatting
fattish
fattishness
fattrels
fatty
fatuate
fatuism
fatuities
fatuous
fatuously
fatuousness
fatuity
fatuid
fatuous
fatuated
fatuities
fatuous
fatuous
fatuously
fatuousness
fatuus
fatwa
fatwood
faubourg
faubourgs
faucal
faucalize
faucals
fauces
faucet
faucets
fauchard
fauchards
faucial
faucitis
fauconnier
faucre
faufel
faugh
faujasite
faujdar
fauld
faulds
faulkner
fault
faultage
faulted
faulter
faultfind
faultfinder
faultfinders
faultfinding
faultful
faultfully
faulter
faulter
faulter
faultiness
faulting
faultless
faultlessly
faultlessness
faults
faultsman
faulty
faulx
faun
fauna
faunae
faunal
faunally
faunas
faunated
faunch
faunish
faunist
faunistic
faunistical
faunistically
faunlike
faunological
faunology
fauns
faunteroy
faunula
faunule
faunus
faurd
faured
fausant
fause
fausen
faussebraie
feastfully
feasting
feastless
feastly
feastraw
feasts
feat
feat's
feateous
feater
featest
feather
featherback
featherbed
featherbedded
featherbedding
featherbird
featherbone
featherbrain
featherbrained
feathercut
featherdom
feathered
featheredge
featheredged
featheredges
featherer
featherers
featherfew
featherfoil
featherhead
featherheaded
featherier
featheriest
featheriness
feathering
featherleaf
featherless
featherlessness
featherlet
featherlight
featherlike
featherman
feathermonger
featherpate
featherpated
feathers
featherstitch
featherstitching
feathertop
featherway
featherweed
featherweight
featherweights
featherwing
featherwise
featherwood
featherwork
featherworker
feathery
featish
featishly
featishness
featless
featlier
featliest
featliness
featly
featness
featous
feats
feofatural
feofaturally
feofeature
feofeatured
feofeatureful
feofeatureless
feofeaturelessness
feofeatureliness
feofeaturely
feofeatures
feofeaturette
feofeaturing
feofeaturish
feofaty
feofaze
feofazed
feofazes
feofazing
feofazings
feofebres
feofabricant
feofabricide
feofabricitant
feofabricitation
feofricity
febricula
febrificient
febriferous
febrific
febrifugal
febrifuge
febrifuges
febrile
febrility
febriphobia
febris
febronian
febraries
february
february's
februation
fee
fecal
fecalith
fecaloid
fecche
feceris
feces
fecial
fecials
fecifork
fecit
feck
fecket
feckful
feckfully
feckless
fecklessly
fecklessness
feckly
fecks
feckulence
fecula
feculae
feculence
feculency
feculent
fecund
fecundate
fecundated
fecundates
fecundating
fecundation
federative
federatively
federator
fedifragous
fedity
fedn
fedora
fedoras
feds
fee
feeable
feeb
feeble
feeblebrained
feeblehearted
feebleheartedly
feebleheartedness
feebleminded
feeblemindedly
feeblemindedness
feebleness
feebler
feebless
feeblest
feebling
feeblish
feebly
feed
feedable
feedback
feedbacks
feedbag
feedbags
feedbin
feedboard
feedbox
feedboxes
feeded
feeder
feeders
feedhead
feeding
feedings
feedingstuff
feedlot
feedlots
feedman
feeds
feedsman
feedstock
feedstuff
feedstuffs
feedwater
feedway
feedy
feeing
feel
feelable
feeler
feelers
feeless
feehes
feeling
feelingful
feelingless
feelinglessly
feelingly
feelingness
feelings
feels
feely
feer
feere
feerie
feering
fees
feest
feet
feetage
feetfirst
feetless
feeze
feezed
feezes
feezing
feff
fefnicute
fegary
fegs
feh
fei
feif
feigher
feign
feigned
feignedly
feignedness
feigner
feigners
feigning
feigningly
feigns
feijoa
feil
feinschmecker
feinschmeckers
feint
feinted
feinter
feinting
feints
feirie
feis
feiseanna
feist
feistier
feistiest
feists
feisty
felafel
felaline
felahin
felanders
felapton
feldsher
feldspar
feldsparphyre
feldspars
feldspath
feldsparitic
feldspathization
feldspathoidal
feldspathose
fele
felicide
felicific
felicify
felicitate
felicitated
felicitates
felicitating
felicitating
felicitations
felicitator
felicitators
felicities
felicitous
felicitously
felicitousness
felicity
felid
felids
feliform
feline
felinely
feliness
felines
felinities
feliness
felinophile
felinophobe
felis
felix
fell
fella
fellable
fellage
fellagha
fellah
fellaheen
fellahin
fellahs
fellas
fellata
fellate
fellated
fellatee
fellating
fellatio
fellation
fellations
fellatos
fellator
fellatory
fellatrice
fellatrices
fellatrix
fellatrixes
felled
fellen
feller
felonies
felonious
feloniously
feloniousness
felonous
felonries
felony
felonry
felons
felonsetter
felonsetting
felonweed
felonwood
felonwort
felony
fels
felsic
felsite
felsites
felsitic
felsobanyite
felsophyre
felsophytic
felsosphaerite
felspar
felspars
felspath
felspathic
felspathose
felsite
felsites
felslees
felt
gelted
felter
felting
feltings
feltlike
feltness
felts
feltwork
feltwort
feltly
feltyfare
feltyflier
felucca
feluccas
feltwort
felworts
fem
female
female's
femalely
femaleness
females
femalist
femality
femalize
femcee
feme
femereil
femerell
femes
femic
femicide
feminacies
feminacy
feminal
feminality
feminate
femineity
feminie
feminility
feminin
feminine
femininely
feminineness
feminines
femininism
femininity
feminisation
feminise
feminised
feminises
feminising
feminism
feminisms
feminist
feministic
feministics
feminists
feminities
feminity
feminization
feminize
feminized
feminizes
feminizing
feminologist
feminology
feminophobe
femme
femmes
femora
femoral
femorocaudal
femorocele
femorococcygeal
femorofibular
femoropopliteal
femororotulian
femorotibial
fempty
femur
femur's
femurs
fen
fenagle
fenagled
fenagler
fenagles
fenagling
fenbank
fenberry
fence
fenced
fenceful
fenceless
fencelessness
fencelet
fencelike
fenceplay
fencepost
fencer
fenceress
fencers
fences
fenchene
fenchol
fenchone
fenchyl
fencible
fermental
fermentarian
fermentate
fermentation
fermentation's
fermentations
fermentative
fermentatively
fermentativeness
fermentatory
fermented
fermenter
fermentescible
fermenting
fermentitious
fermentive
fermentology
fermentor
ferments
fermentum
fermerer
fermery
fermi
fermila
fermillet
fermion
fermions
fermis
fermium
fermiums
fermorite
fern
fern's
fermambuck
fernandinite
fernbird
fernbrake
ferned
ferneries
fernery
ferngale
ferngrower
fernier
ferniest
ferniest
fernitinst
fernlend
fernleaf
fernless
fernlike
ferns
fernseed
fernshaw
femscik
fermtickle
fermtickled
fermticle
fernwort
femy
fennyear
feroce
ferocious
ferociously
ferociousness
ferocities
ferocity
feroher
ferous
ferox
ferr
ferrado
ferrament
ferrandin
ferrara
ferrary
ferrash
ferrate
ferrated
ferrateen
ferrates
ferratin
ferrean
ferreodoxin
ferreiro
ferrel
ferreled
ferreling
ferreled
ferrelled
ferrelling
ferrels
ferren
ferreous
ferrer
feret
feretted
ferreter
ferreter
ferulaceous
ferulae
ferulaic
ferular
ferulas
ferule
feruled
ferules
ferulic
feruling
ferv
fervanite
fervence
fervencies
fervency
fervent
fervently
ferventness
fervescence
fervescent
fervid
fervidity
fervidly
fervidness
fervor
fervor's
fervorless
fervorlessness
fervorous
fervors
fervour
fervours
fesapo
fescennine
fescenninity
fescue
fescues
fesels
fess
fesse
fessed
fessely
fesses
fessewise
fessing
fessways
fesswise
fest
festucous
festy
fet
feta
fetal
fetalism
fetalization
fetas
fetation
fetations
fetch
fetched
fetcher
fetchers
fetches
fetching
fetchingly
fete
feted
feteless
feterita
feteritas
fetes
fetial
fetiales
fetialis
fetials
fetich
fetiches
fetichic
fetichism
fetichist
fetichistic
fetichize
fetichlike
fetichmonger
fetichry
fetidal
feticide
feticides
fetid
fetidity
fetidly
fetidness
fetiferous
feting
fetiparous
fetis
fetise
fetish
fetisheer
fetisher
fetishes
fetishic
fetishism
fetishist
fetishistic
fetishists
fetishization
fetishize
fetishlike
fetishmonger
fetishry
fetlock
fetlocked
fetlocks
fetlow
fetography
fetologies
fetologist
fetology
fetometry
fetoplacental
fetor
fetors
fets
fetted
fetter
fetterbush
fettered
fetterer
fetterers
fettering
fetterless
fetterlock
fetters
feticus
fetting
fettle
fettlede
fettler
fettes
fetting
fettlings
fettstein
fettuccine
fettucine
fettucini
feture
fetus
fetuses
fetwa
feu
feuage
feuar
feuars
feucht
feud
feud's
feudal
feudalisation
feudalise
feudalised
feudalising
feudalism
feudalist
feudalistic
feudalists
feudalities
feudality
feudalizable
feudalization
feudalize
feudalized
feudalizing
feudally
feudaries
feudary
feudatory
feudatorial
feudatories
feudatory
feuded
feudee
feuder
feuding
feudist
feudists
feudovassalism
feuds
feudum
feued
feuillage
feuille
fibrilled
fibrilliferous
fibrilliform
fibrillose
fibrillous
fibrils
fibrin
fibrinate
fibrination
fibrine
fibrinemia
fibrinoalbuminous
fibrinocellular
fibrinogen
fibrinogenetic
fibrinogenic
fibrinogenically
fibrinogenous
fibrinoid
fibrinokinase
fibrinolyases
fibrinolysin
fibrinolysis
fibrinolytic
fibrinoplastic
fibrinoplastin
fibrinopurulent
fibrinose
fibrinosis
fibrinous
fibrins
fibrinuria
fibro
fibroadenia
fibroadenoma
fibroadipose
fibroangioma
fibroareolar
fibroblast
fibroblastic
fibrobronchitis
fibrocalcareous
fibrocarcinoma
fibrocartilage
fibrocartilaginous
fibrocaseose
fibrocaceous
fibrocellular
fibronucleated
fibropapilloma
fibropericarditis
fibroplasia
fibroplastic
fibropolyplpy
fibropsammoma
fibropurulent
fibroreticulate
fibrosarcoma
fibrose
fibroserous
fibroses
fibrosis
fibrosities
fibrositis
fibrosity
fibrotic
fibrotuberculosis
fibrous
fibrously
fibrousness
fibrovasal
fibrovascular
fibry
fibs
fibster
fibula
fibulae
fibular
fibulare
fibularia
fibulas
fibulocalcaneal
fica
ficaries
ficary
ficche
fice
ficelle
fices
fichat
fiche
fiches
fichtelite
fichu
fichus
ficiform
ficin
ficins
fickle
ficklehearted
fickleness
fickler
ficklest
ficklely
ficklewise
fickly
fico
ficoes
ficoid
ficoidal
ficoides
fict
fictation
fictil
fictile
fictileness
fictility
fiction
fiction's
fictional
fictionalization
fictionalize
fictionalized
fictionalizes
fictionalizing
fictionally
fictionary
fictioneer
fictioneering
fictioner
fictionisation
fictionise
fictionised
fictionising
fictionist
fictionistic
fictionization
fictionize
fictionized
fictionizing
fictionmonger
fictions
fictious
fictitious
fictitiously
fictitiousness
fictive
fictively
fictor
ficus
fid
fidalgo
fidate
fidation
fidawi
fidded
fidding
fiddle
fiddleback
fiddlebow
fiddlebrained
fiddlecome
fiddled
fiddlededee
fiddledeedee
fiddlefaced
fiddlehead
fiddleheaded
fiddleneck
fiddler
fiddlerfish
fiddlerfishes
fiddlers
fiddlery
fiddles
fiddlestick
fiddlesticks
fiddlestring
fiddlewood
fiddley
fiddleys
fiddlaries
fiddling
fiddly
fide
fideicommiss
fideicommissa
fideicommissaries
fideicommissary
fideicommission
fideicommissioner
fideicommissor
fiendishly
fiendishness
fiendism
fiendlier
fiendliest
fiendlike
fiendliness
fiendly
fiends
fiendship
fient
fierasferid
fierasferoid
fierce
fiercehearted
fiercely
fiercen
fiercened
fierceness
fiercening
fiercer
fiercest
fiercely
fierding
fieri
fiierier
fiieriest
fiierily
fiieriness
fierte
fiery
fiesta
fiestas
fielamort
fife
fifed
fifer
fifers
fifes
fifie
fifing
fifish
fifo
fifteen
fifteener
fifteenfold
fifteens
fifteenth
fifteenthly
fifteenths
fifth
fifthly
fifths
fifties
fiftieth
fiftieths
fifty
fiftyfold
fiftypenny
fig
fig's
figaro
figary
figbird
figboy
figeater
figeaters
figent
figeter
figged
figgery
figgier
figgiest
figging
figgle
figgum
figgy
fight
fightable
fighter
fighteress
fighters
fighting
fightingly
fightings
fights
fightwite
figless
figlike
figment
figmental
figments
figo
figpecker
figs
figshell
figulate
figulated
figuline
figulines
figura
figurability
figurable
figurae
figural
figurally
figurant
figurante
figurants
figurate
figurately
figuration
figurational
figurations
figurative
figuratively
figurativeness
figurato
figure
figured
figuredly
figurehead
figureheadless
figureheads
figureheadship
figureless
figurer
figurers
figures
figuresome
figurette
figurial
figurine
figurines
figuring
figurings
figurism
figurist
figuriste
figurize
figury
figworm
figwort
figwarts
filliped
fillipeen
filliping
fillips
fillister
fillmass
fillmore
fillock
fillowite
fills
fily
film
filmable
filmcard
filmcards
filmdom
filmdoms
filmed
filmer
filmet
filmgoer
filmgoers
filming
filmic
filmically
filmier
filmiest
filmiform
filmily
filminess
filming
filmish
filmist
filmize
filmized
filmizing
filmland
filmlands
filmlike
filmmake
filmmaker
filmmaking
filmogen
filmographies
filmography
films
filmset
filmsets
finalizing
finally
finals
finance
financed
financer
finances
financial
financialist
financially
financier
financier's
financiere
financiered
financiering
financiers
financiery
financing
financist
finary
finback
finbacks
finbone
finca
fincas
finch
finchbacked
finched
finchery
finches
find
findability
findable
findal
finder
finders
findfault
findhorn
finding
findings
findjan
findon
finds
findy
fine
fineable
fineableness
finebent
finecomb
fined
finedraw
finedrawing
fineer
fineish
fineleaf
fineless
finely
finement
fineness
finenesses
finer
fineries
finery
fines
finespun
finesse
finessed
finesser
finesses
finessing
finest
finestill
finestiller
finestra
finetop
finew
finewed
finfish
finishes
finfoot
finfeet
fingan
fingent
finger
fingerable
fingerberry
fingerboard
fingerboards
fingerbreadth
fingered
fingerer
fingerers
fingerfish
fingerfishes
fingerflower
fingerhold
fingerhook  
finger  
fingerings  
fingerleaf  
fingerless  
fingerlet  
fingerlike  
fingerling  
fingerlings  
fingermark  
fingernail  
fingernails  
fingerparted  
fingerpost  
fingerprint  
fingerprinted  
fingerprinting  
fingerprints  
fingerroot  
fingers  
fingersmith  
fingerspin  
fingerstall  
fingerstone  
fingertip  
fingertips  
fingerwise  
fingerwork  
fingery  
fingian  
fingram  
fingrigo  
fin  
finial  
finialed  
finials  
finical  
finicality  
finically  
finicalness  
finicism  
finick  
finickier  
finickiest  
finickily  
finickin  
finickiness  
finicking
finickingly
finickingness
finicky
finific
finify
finikin
finiking
fining
finings
finis
finises
finish
finishable
finished
finisher
finishers
finishes
finishing
finitary
finite
finitely
finiteness
finites
finitesimal
finitism
finitive
finitude
finitudes
finity
finjan
fink
finked
finkel
finking
finks
finland
finlandization
finless
finlet
finlike
finmark
finmarks
finn
finmac
finnack
finnan
finned
finner
firerooms
fiers
fires
firesafe
firesafeness
firesafety
fireshaft
fireshine
fireside
firesider
firesides
firesideship
firespout
firestone
firestop
firestopping
firestorm
firetail
firethorn
firetop
firetower
firetrap
firetraps
firewall
fireward
firewarden
firewater
fireweed
fireweeds
firewood
firewoods
firework
fireworkless
fireworks
fireworky
fireworm
fireworms
firiness
firing
frings
firk
firked
firked
firkings
firkings
firlot
firk
firy
fisc
fiscal
fiscalify
fiscalism
fiscality
fiscalization
fiscalize
fiscalized
fiscalizing
fiscally
fiscals
fisceral
fisc
fiscus
fise
fisetin
fish
fishability
fishable
fishback
fishbed
fishberries
fishberry
fishboat
fishboats
fishbolt
fishbolts
fishbone
fishbones
fishbowl
fishbowls
fishheater
fished
fisher
fisherboat
fisherboy
fisheress
fisherfolk
fishergirl
fisheries
fisherman
fishermen
fisherpeople
fishers
fisherwoman
fishery
fishes
fishet
fisheye
fisheyes
fishfall
fishfinger
fishful
fishgarth
fishgig
fishgigs
fishgrass
fishhold
fishhood
fishhook
fishhooks
fishhouse
fishier
fishiest
fishified
fishify
fishifying
fishily
fishiness
fishing
fishingly
fischings
fishless
fishlet
fishlike
fishline
fishlines
fishling
fishman
fishmeal
fishmeals
fishmen
fishmonger
fishmouth
fishnet
fishnets
fishplate
fishpole
fishpoles
fishpond
fishponds
fishpool
fishpot
fishpotter
fishpound
fishskin
fishspear
fishtail
fishtailed
fish tailing
fishtails
fishway
fishways
fishweed
fishweir
fishwife
fishwives
fishwoman
fishwood
fishworker
fishworks
fishworm
fishy
fishyard
fishyback
fishy backing
fisk
fisnoga
fissate
fissicostate
fissidactyl
fissidentaceous
fissile
fissileness
fissilingual
fissility
fission
fissionability
fissionable
fissional
fissioned
fissioning
fissions
fissipalmate
fissipalmation
fissiparation
fissiparism
fissiparity
fissiparous
fissiparously
fissiparousness
fissiped
fissipedal
fistulated
fistulatome
fistulatous
fistule
fistuliform
fistulization
fistulize
fistulized
fistulizing
fistulose
fistulous
fistwise
fisty
fit
fitch
fitche
fitched
fitchee
fitcher
fitchered
fitchering
fitchery
fitches
fitchet
fitches
fitchew
fitchews
fitchy
fitful
fitfully
fitfulness
fitified
fitly
fitment
fitments
fitness
fitnesses
fitout
fitroot
fits
fittable
fittage
fitted
fittedness
fitten
fitter
fitter's
fitters
fittest
fittier
fittiest
fitty
fittiness
fitting
fittingly
fittingness
fittings
fittit
fitty
fittyfied
fittyways
fittywise
fitweed
fitz
fiumara
five
fivebar
fivefold
fivefoldness
fiveleng
fivelence
fivepence
fivepenny
fivepins
fiver
fivers
fives
fivescore
fivesome
fivestones
fivish
fix
fixable
fixage
fixate
fixated
fixates
fixatif
fixatifs
fixating
fixation
fixations
fixative
fixatives
fixator
fixature
fixe
flagging
flaggy
flagilate
flagitate
flagitation
flagitious
flagitiously
flagitiousness
flagleaf
flagless
flaglet
flaglike
flagmaker
flagmaking
flagman
flagmen
flagon
flagonet
flagonless
flagons
flagpole
flagpoles
flagrance
flagrancy
flagrant
flagrante
flagrantly
flagrantness
flagrate
flagroot
flags
flagship
flagships
flagstaff
flagstaffs
flagstaves
flagstick
flagstone
flagstones
flagworm
flail
flailed
flailing
flaillike
flails
flain
flair
flairs
flancards
flanch
flanchard
flanche
flanched
flanconade
flancomade
flandan
flanderkin
flanders
flandowser
flane
flanerie
flaneries
flanes
flaneur
flaneurs
flang
flange
flanged
flangeless
flanger
flangers
flanges
flangeway
flanging
flank
flankard
flanked
flanken
flanker
flankers
flanking
flanks
flankwise
flanky
flanned
flannel
flannel's
flannelboard
flannelbush
flanneled
flannelet
flannelette
flannelflower
flanneling
flannelleaf
flannelleaves
flary
flaser
flash
flashback
flashbacks
flashboard
flashbulb
flashbulbs
flashcube
flashcubes
flashed
flasher
flashers
flashes
flashet
flashflood
flashforward
flashforwards
flashgun
flashguns
flashier
flashiest
flashily
flashiness
flashing
flashingly
flashings
flashlamp
flashlamps
flashlight
flashlight's
flashlights
flashlike
flashly
flashness
flashover
flashpan
flashproof
flashtester
flashtube
flashtubes
flashy
flask
flasker
flasket
flaskets
flaskful
flasklet
flasks
flasque
flat
flatbed
flatbeds
flatboat
flatboats
flatbottom
flatbread
flatbrod
flatcap
flatcaps
flatcar
flatcars
flatdom
flated
flateria
flatette
flatfeet
flatfish
flatfishes
flatfoot
flatfooted
flatfootedly
flatfootedness
flatfooting
flatfoots
flathat
flathe
flathead
flatheads
flatiron
flatirons
flative
flatland
flatlander
flatlanders
flatlands
flatlet
flatlets
flatling
flatlings
flatlong
flatly
flatman
flatmate
flatmen
flatness
flatways
flatweed
flatwise
flatwoods
flatwork
flatworks
flatworm
flatworms
flaubert
flaucht
flaught
flaughtbred
flaughter
flaughts
flaunch
flaunche
flaunched
flauching
flaunt
flaunted
flaunter
flaunters
flauntier
flauntiest
flauntily
flauntiness
flaunting
flauntingly
flaunts
flaunty
flautino
flautist
flautists
flauto
flav
flavanilin
flavaniline
flavanone
flavanthrone
flavedo
flavedos
flavescence
flavescent
flavic
flavicant
flavid
flavin
fleabites
fleabiting
fleabitten
fleabug
fleabugs
fleadock
fleahopper
fleak
fleam
fleams
fleamy
fleapit
flear
fleas
fleasem
fleaweed
fleawood
flew ort
fleworts
fleay
fle bile
flebotomy
fleche
fleches
flechette
flechettes
fleck
flecked
flecken
flecker
fleckered
fleckering
fleckier
fleckiest
fleckiness
fleck ing
fleckled
fleckless
flecklessly
flecks
fleeky
flecnodal
flecnodes
flect
flection
flectional
flectionless
flections
fleeter
fleest
fleeful
fleet
fleetingly
fleetiness
fleetings
fleetly
fleetness
fleets
fleetwing
flegm
fleing
fleishig
fleme
flemer
fleming
flemings
flemish
flemished
flemishes
flemishing
flench
flenched
flenches
flenching
flense
flensed
flenser
flensers
flenses
flensing
flentes
flerried
flerry
flerrying
flesh
fleshbrush
fleshed
fleshen
flesher
fleshers
fleshes
fleshful
fleshhood
fleshhook
fleshier
fleshiest
fleshiness
fleshing
fleshings
fleshless
fleshlessness
fleshlier
fleshliest
fleshlike
fleshlily
fleshliness
fleshling
fleshly
fleshment
fleshmonger
fleshpot
fleshpots
fleshquake
fleshly
flet
fletch
fletched
fletcher
fletcherism
fletchers
fletches
fletching
fletchings
flether
fletton
fleur
fleuret
fleurette
fleurettee
fleuretty
fleuron
fleuronee
fleuronne
fleuronnee
fleury
flew
flewed
flewit
flews
flex
flexanimous
flexed
flexes
flexibilities
flintlocks
flints
flintstone
flintwood
flintwork
flintworker
flinty
flioma
flip
flipe
fliped
flippflop
fliping
flipjack
flippance
flippancies
flippancy
flippant
flippantly
flippantness
flipped
flipper
flipperling
flippers
flippery
flippest
flipping
flips
flirt
flirtable
flirtation
flirtational
flirtationless
flirtations
flirtatious
flirtatiously
flirtatiousness
flirted
flirter
flirters
flirtier
flirtiest
flirtigig
flirting
flirtingly
flirtish
flirtishness
flirtling
floccules
flocculi
flocculose
flocculous
floccus
flock
flockbed
flocked
flocker
flockier
flockiest
flocking
flockings
flockless
flocklike
flockling
flockman
flockmaster
flockowner
flocks
flockwise
flocky
flocoon
flocs
fodge
floe
floeburg
floes
floey
flog
floggable
flogged
flogger
floggers
flogging
floggingly
floggings
flogmaster
flogs
flogster
floit
flokite
flon
flong
flongs
flood
floodable
floodage
floodboard
floodcock
flooded
flooder
flooders
floodgate
floodgates
flooded
floodless
floodlet
floodlight
floodlighted
floodlighting
floodlights
floodlike
floodlit
floodlit
floodmark
floodometer
floodplain
floodproof
floods
floodtime
floodwall
floodwater
floodway
floodways
floodwood
floody
flooey
flook
flookan
floor
floorage
floorages
floorboard
floorboards
floorcloth
floorcloths
floored
floorer
floorers
floorhead
flooring
floorings
floorless
floorman
floormen
floors
floorshift
floorshifts
floorshow
floorthrough
floorwalker
floorwalkers
floorward
floorwise
floosies
floosy
floozie
floozies
floozy
flop
flop's
floperoo
flophouse
flophouses
flopover
flopovers
flopped
flopper
flopers
foppier
foppies
foppiest
foppily
foppiness
fopping
foppy
flops
fopwing
flor
flora
florae
floral
floralize
florally
floramor
floramour
floran
floras
florate
floreal
floreat
floreate
floreated
floreating
florence
florences
florent
florentine
florentines
florentium
fiores
florescence
florescent
florescence
flore
floreta
floreted
florets
florete
floretty
floreum
floriage
floriate
floriated
floriation
floribunda
florian
floricin
floricomous
floricultural
floriculturally
floriculture
floriculturist
florid
florida
floridan
floridans
floridean
florideous
floridian
floridiants
floridities
floridity
floridly
floridness
floriferous
floriferously
floriferousness
florification
floriform
florigen
florigenic
florigens
florigraphy
florikan
floriken
florilage
florilege
florilegia
florilegium
florimania
florimanist
florin
florins
floriparous
floripondio
floriscope
florist
floristic
floristically
floristics
floristry
florists
florisugent
florivorous
florizine
floroon
floroscope
floroun
floruit
floruits
florula
florulae
florulas
florulent
flory
floscular
floscularian
foscule
fosculet
fosculose
fosculous
flossh
floss
flossa
flossed
flosser
flukiness
fluking
fluky
flumadiddle
flumdiddle
flume
flumed
flumerin
flumes
fluming
fluminose
fluminous
flummadiddle
flummer
flummeries
flummery
flummox
flummoxed
flummoxes
flummoxing
flummydiddle
flump
flumped
flumping
flumps
flung
flunk
flunked
flunker
flunkers
flunkey
flunkeydom
flunkeyhood
flunkeyish
flunkeyism
flunkeyistic
flunkeyite
flunkeyize
flunkeys
flunkies
flunking
flunks
flunky
flunkydom
flunkyhood
flunkyish
flunkying
flunkyistic
flunkyite
flunkyize
flua lubricate
flua lubricanic
flua arsenate
flua borate
flua boric
flua borid
flua boroide
flua borite
flua bromide
flua carbonate
flua cerine
flua cerite
flua chloroide
flua hydric
flua phosphorite
fluor
fluoran
fluorane
fluoranthene
fluorapatite
fluorate
fluorated
fluorbenzene
fluorboric
fluorene
fluoreses
fluorenyl
fluoresage
fluoresce
fluoresced
fluorescein
fluoresceine
fluorescence
fluorescent
fluorescer
fluoresces
fluorescigenic
fluorescigenous
fluorescing
fluorhydric
fluoric
fluorid
fluoridate
fluoridated
fluoridates
fluoridating
fluoroscoped
fluoroscopes
fluoroscopic
fluoroscopically
fluoroscopies
fluoroscoping
fluoroscopist
fluoroscopists
fluoroscopy
fluorosis
fluoretic
fluorotype
fluorouracil
flours
fluorspar
fluoryl
fluosilicate
fluosilicic
fluotantalate
fluotantalic
fluotitanate
fluotitanic
fluozirconic
fluphenazine
flurn
flurr
flurried
flurriedly
flurries
flurriment
flurry
flurrying
flurt
flus
flush
flushable
flushboard
flushed
flusher
flusherman
flushermen
flushers
flushes
flushest
flushgate
flushing
flushingly
flushness
foeture
foetus
foetuses
fofarraw
fog
fog's
fogas
fogbank
fogbound
fogbow
fogbows
fogdog
fogdogs
fogdom
foge
fogeater
fogey
fogeyes
fogfruit
fogfruits
foggage
foggages
foggara
fogged
fogger
foggers
foggier
foggiest
foggily
fogginess
fogging
foggish
foggy
foghorn
foghorns
fogie
fogies
fogle
fogless
foglietta
fogman
fogmen
fogo
fogon
fogou
fogproof
fogram
fogramite
followeth
following
followingly
followings
follows
followup
folly
follyer
follying
follyproof
folsom
fomalhaut
foment
fomentation
fomentations
fomented
fomenter
fomenters
fomenting
fomento
foments
fomes
fomites
fon
fonctionnaire
fond
fondaco
fondak
fondant
fondants
fondateur
fonded
fonder
fondest
fonding
fondish
fondle
fondled
fondler
fondlers
fondles
fondlesome
fondlike
fondling
fondlingly
fondlings
fondly
fondness
footings
foote
footed
footer
footers
footes
footless
footlessly
footlessness
footlicker
footlicking
footlight
footlights
foottle
footlike
footling
footlining
footlock
footlocker
footlockers
footlog
footloose
footmaker
footman
footmanhood
footmarry
footmanship
footmark
footmarks
footmen
footmenfootpad
footnote
footnote's
footnoted
footnotes
footnoting
footpace
footpaces
footpad
footpaddery
footpads
footpath
footpaths
footpick
footplate
footpound
footpounds
footprint
footprint's
footprints
footrace
foottraces
footrail
footrest
footrests
footrill
footroom
footrope
footropes
foots
footscald
footscraper
footsie
footsies
footslg
footslugged
footslgger
footsllogging
footslgs
footsoldier
footsoldiers
footsore
footsoreness
footsores
footstalk
footstall
footstep
footsteps
footstick
footstock
footstone
footstool
footstools
footsy
footwalk
footwall
footwalls
footwarmer
footwarmer
footways
footwear
footwears
footweary
footwork
footworks
footworn
foraminulate
foraminule
foraminulose
foraminulous
forams
forane
foraneen
foraneous
foraramens
foraramina
forasmuch
forastero
foray
foray's
forayed
forayer
forayers
foraying
forays
forb
forbad
forbade
forbar
forbare
forbarred
forbathe
forbborne
forbborne
forbear
forbear's
forbearable
forbearance
forbearances
forbearant
forbearantly
forbearer
forbearers
forbearing
forbearingly
forbearingness
forbears
forbecause
forbesite
forbid
forbidal
forbidals
forbiddable
forbiddal
forbiddance
forbidden
forbiddenly
forbiddenness
forbider
forbidding
forbiddingly
forbiddingness
forbids
forbit
forbite
forblack
forbled
forblov
forbode
forboded
forbodes
forboding
forbore
forborn
forborne
forbow
forbreak
forbruiue
forbs
forby
forbye
forbysen
forbysening
forcaria
forcarve
forcat
force
force's
forceable
forced
forcedly
forcedness
forceful
forcefully
forcefulness
forceless
forcelessness
forcelet
forcemeat
forcement
forcene
forceps
foreclosable
foreclose
foreclosed
forecloses
foreclosing
foreclosure
foreclosures
forecome
forecomingness
forecommend
foreconceive
foreconclude
forecondemn
foreconscious
foreconsent
foreconsider
forecontrive
forecool
forecooler
forecounsel
forecount
forecourse
forecourt
forecourts
forecover
forecovert
foredate
foredated
foredates
foredating
foredawn
foreday
foredays
foredeck
foredecks
foredeclare
foredecree
foredeem
foredeep
foredefeated
foredefine
foredenounce
foredescribe
foredeserved
foredesign
foredesignment
foredesk
foredestine
foredestined
foredestining
foredestiny
foredetermination
foredetermine
foredevised
foredevote
foredid
forediscern
foredispose
foredivine
foredo
foredoes
foredoing
foredone
foredoom
foredoomed
foredoomer
foredooming
foredooms
foredoor
foredune
foreface
forefaces
forefather
forefather's
forefatherly
forefathers
forefault
forefeel
forefeeling
forefeelingly
forefeels
forefeet
forefelt
forefence
forefend
forefended
forefending
forefends
foreffelt
forefield
forefigure
forefin
forefinger
forefinger's
forefingers
forefit
foreflank
foreflap
foreflipper
forefoot
forefront
forefronts
foregahger
foregallery
foregame
foreganger
foregate
foregather
foregift
foregirth
foreglance
foregleam
foreglimpse
foreglimpsed
foreglow
forego
foregoer
foregoers
foregoes
foregoing
foregone
foregoneness
foreground
foregrounds
foreguess
foreguidance
foregut
foreguts
forehalf
forehall
forehammer
forehand
forehanded
forehandedly
forehandedness
forehands
forehandsel
forehard
forehatch
forehatchway
forehead
forehead's
foreheaded
foreheads
foreknowingly
foreknowledge
foreknown
foreknows
forel
foreladies
forelady
forelaid
foreland
forelands
forelay
forelaying
foreleader
foreleech
foreleg
forelegs
forelimb
forelimbs
forelive
forellenstein
forelock
forelocks
forelook
foreloop
forelooper
foreloper
forelouper
foremade
foreman
foremanship
foremarch
foremark
foremartyr
foremast
foremasthand
foremastman
foremastmen
foremasts
foremean
foremeant
foremelt
foremen
foremention
forementioned
foremessenger
foremilk
foremilks
foremind
foremispising
foremistress
foremost
foremostly
foremother
forename
forenamed
forenames
forent
forenews
forenight
forenoon
forenoons
forenote
forenoted
forenotice
foremotion
foresal
forensic
foresical
foresicality
foresically
forensics
foreordain
foreordained
foreordaining
foreordainment
foreordainments
foreordains
foreorder
foreordinate
foreordinated
foreordinating
foreordination
foreorlop
forepad
forepale
forepaled
forepaling
foreparent
foreparents
forepart
foreparts
forepass
forepassed
forepast
forepaw
forepaws
forepayment
forepeak
forepeaks
foreperiod
forepiece
foreplace
foreplan
foreplanting
foreplay
foreplays
forepleasure
foreplot
forepoint
forepointer
forepole
forepoled
forepoling
foreporch
forepossessed
forepost
forepredicament
forepreparation
foreprepare
forepretended
foreprise
foreprize
foreproduct
foreproffer
forepromise
forepromised
foreprovided
foreprovision
forepurpose
forequarter
forequarters
forequoted
forerake
foreran
forerank
foreranks
forereach
forereaching
foreread
forereading
forerecited
forereckon
forerehearsed
foreremembered
forereport
forerequest
forerevelation
forerib
foreribs
forerigging
foreright
foreroom
foreroyal
forerun
forerunner
forerunners
forerunnership
forerunning
forerunnings
foreruns
fores
foresaddle
foresaid
foresail
foresails
foresaw
foresay
foresaying
foresays
forescene
forescent
foreschool
foreschooling
forescript
foresseason
foreseat
foreset
foorseability
foorseable
foorseeing
foorseeingly
foorseen
foorseer
foorseers
foorsees
foorseing
foorseize
foorsend
foorseense
foorseentence
foreset
foorseettle
foresettled
foresey
foreshadow
foreshadowed
foreshadower
foreshadowing
foreshadows
foreshaft
foreshank
foreshape
foresheet
foresheets
foreshift
foreship
foreshock
foreshoe
foreshop
foreshore
foreshorten
foreshortened
foreshortening
foreshortens
foeshot
foeshots
foeshoulder
foeshow
foeshowed
foeshower
foeshowing
foeshown
foeshows
foeshroud
foeside
foesides
foesight
foesighted
foesightedly
foesightedness
foesightful
foesightless
foesights
foesign
foesignify
foesin
foesing
foesinger
foeskin
foeskins
foreskirt
foreslack
foresleeve
foreslow
foresound
forespake
forespeak
forespeaker
forespeaking
forespecified
forespeech
forespeed
forespencer
forespent
forespoke
forespooken
forest
forestaff
forestaffs
forestage
forestair
forestal
forestall
forestalled
forestaller
forestalling
forestallment
forestalls
forestalment
forestarling
forestate
forestation
forestaves
forestay
forestays
forestaysail
forestcraft
forested
foresteep
forestem
forestep
forester
foresters
forestership
forestry
forestful
forestial
forestick
forestine
foresting
forestish
forestland
forestless
forestlike
forestology
forestral
forestress
forestries
forestry
forests
forestside
forestudy
forestwards
foresty
foresummer
foresummon
foreswear
foreswearing
foresweat
foreswore
foresworn
foret
foretack
foretackle
foretake
foretalk
foretalking
foretaste
foretasted
foretaster
foretastes
foretasting
foreteach
foreteeth
foretell
foretellable
foretellableness
foreteller
foretellers
foretelling
foretells
forethink
forethinker
forethinking
forethough
forethought
forethoughted
forethoughtful
forethoughtfully
forethoughtfulness
forethoughtless
forethrift
foretime
foretimed
foretimes
foretoken
foretokened
foretokening
foretokens
foretold
foretooth
foretop
foretopman
foretopmast
foretopmen
foretops
foretopsail
foretrace
foretriangle
foretrysail
foreturn
foretype
foretypified
foreuse
foreutter
forevalue
forever
forevermore
foreverness
forevers
foreview
forevision
forevouch
forevouched
forevow
foreward
forewarm
forewarmer
forewarn
forewarned
forewarner
forewarning
forewarningly
forewarnings
forficate
forficated
forfication
forficiform
forficulate
forfit
forfouchten
forfoughen
forfoughten
forgab
 forgainst
forgat
forgather
forgathered
forgathering
forgathers
forgave
forge
forgeability
forgeable
forged
forgedly
forgeful
forgeman
forgemen
forger
forgeries
forges
forgery
forgery's
forgs
forget
forgetable
forgetful
forgetfully
forgetfulness
forgetive
forgetness
forgets
forgett
forgettable
forgettably
forgets
forgetter
forgetters
forgettery
forgetting
forgettingly
formals
formamide
formamidine
formamido
formamidoxime
formanilide
formant
formants
format
formate
formatted
formates
formatting
formation
formation's
formational
formations
formative
formatively
formativeness
formats
formatted
formatter
formatter's
formatters
formatting
formature
formazan
formazyl
formboard
forme
formed
formedon
formee
formel
formelt
formene
formenic
fermentation
former
formeret
formerly
formerness
formers
formes
formfeed
formfeeds
formfitting
formful
formiate
formic
formica
formican
formicaria
formicarian
formicaries
formicarioid
formicarium
formicaroid
formicary
formicate
formicated
formicating
formication
formicative
formicide
formicid
formicide
formicine
formicivorous
formidability
formidable
formidableness
formidably
formidolous
formin
forminate
forming
formism
formity
formless
formlessly
formlessness
formly
formnail
formol
formolit
formolite
formols
formonitrile
formose
formosity
formous
formoxime
forms
frrue
forsado
forsake
forsaken
forsakenly
forsakenness
forsaker
forsakers
forsakes
forsaking
forsar
forsay
forsee
forseeable
forseek
forseen
forset
forshape
forslack
forslake
forsloth
forslow
forsook
forsooth
forspeak
forspeaking
forspend
forspent
forspoke
forspoken
forspread
forstall
forstand
forsteal
forsterite
forstraught
forsung
forswat
forswear
forswearer
forswearing
forswears
forswore
forsworn
forswornness
forsythia
forsythias
fort
fostress
fot
fotch
fotence
fother
fothering
fotive
fotmal
fotui
fou
foud
foudroyant
fouett
fouette
fouettée
fouettes
fougade
fougasse
fought
foughten
foughty
fog
foul
foulage
foulard
foulards
foulbrood
foulder
fouldre
fouled
fouler
foulest
fouling
foulings
foulish
fouly
foulmart
foulminded
foulmouth
foulmouthed
foulmouthedly
foulmouthedness
foulness
foulnesses
fouls
fountains
fountainwise
founte
fountful
founts
fouquieriaceous
four
fourb
fourbagger
fourball
fourberie
fourble
fourche
fourchee
fourcher
fourchet
fourchette
fourchite
fourdrinier
fourer
fourflusher
fourflusher
fourflushers
fourfold
fourgon
fourgons
fourhanded
fourier
fourierism
fourling
fourneau
fourness
fourniture
fourpence
fourpenny
fourposter
fourposters
fourpounder
fourquine
fourrag
fourragere
fourrageres
fourre
fourrier
fours
fourscore
foursome
fowl
fowled
fowler
fowlerite
fowlers
fowlery
fowlfoot
fowling
fowlings
fowlpox
fowlpoxes
fowls
fox
fox's
foxbane
foxberrries
foxberry
foxc chop
foxed
foxer
foxery
foxes
foxfeet
foxfinger
foxfire
foxfires
foxfish
foxfishes
foxglove
foxgloves
foxhole
foxholes
foxhound
foxhounds
foxie
foxier
foxiest
foxily
foxiness
foxinesses
foxing
foxings
foxish
foxite
foxlike
foxly
foxproof
foxship
frangipanis
frangipanni
frangula
frangulic
frangulin
frangulinc
franion
frank
frankability
frankable
frankalmoign
frankalmoigne
frankalmoin
franked
frankeniaceous
frankensteini
frankensteins
franker
frankers
frankest
frankfold
frankfort
frankforter
frankfurt
frankfurter
frankfurters
frankhearted
frankheartedly
frankheartedness
frankheartiness
frankincense
frankincensed
franking
frankish
franklandite
franklin
franklinian
franklinite
franklins
frankly
frankmarriage
frankness
frankpledge
franks
franseria
frantic
frantically
franticly
freckled
freckledness
freckleproof
freckles
frecklier
freckliest
freckliness
freckling
frecklish
freckly
fread
freadaine
free
freebee
freebees
freebie
freebies
freeboard
freeboot
freebooted
freebooter
freebooters
freebootery
freebooting
freeboots
freebooty
freeborn
freeby
freeed
freedman
freedmen
freedom
freedom's
freedoms
freedoot
freedstool
freedwoman
freedwomen
freefd
freeform
freehand
freehanded
freehandedly
freehandedness
frenzied
frenziedly
frenziedness
frenzies
frenzily
frenzy
frenzying
freon
freq
frequence
frequencies
frequency
frequent
frequentable
frequentage
frequentation
frequentative
frequented
frequenter
frequenter's
frequentest
frequencing
frequent
frequentness
frequents
frere
freres
frescade
fresco
frescoed
frescoer
frescoes
freshcoing
frescoist
frescoists
frescos
fresh
freshed
freshen
freshened
freshener
fresheners
freshening
freshens
fresher
freshest
friendly
friends
friendship
friendship's
friendships
frier
friers
fries
friese
frieseite
friesian
frieze
frieze's
frieyed
frieger
friegers
friezing
friey
frig
frigage
frigate
frigate's
frigates
frigatooon
frigefact
frigga
frigged
frigger
frigging
friggle
fright
frightable
frighted
frighten
frightenable
frightened
frightenedly
frightenedness
frightener
frightening
frighteningly
frighteningness
frightens
frighter
frightful
frightfully
frightfulness
frighting
frightless
frightment
frights
frightsome
frighty
frigid
frigidaire
frigidaria
frigidarium
frigiddaria
frigidities
frigidity
frigidly
frigidity
frigidness
frigidoreceptor
frigiferous
frigolabile
frigor
frigoric
frigorific
frigorifical
frigorifico
frigorify
frigorimeter
frigostable
frigotherapy
frigs
frijol
frijole
frijoles
frijolillo
frijolito
frike
frilal
frill
frill's
frillback
frilled
friller
frillers
frillery
frillier
frillies
frilliest
frillily
frilliness
frilling
frillings
frills
frilly
frim
frimaire
frimitts
fringe
fringed
fringeflower
fringefoot
fringehead
fringeless
fringelet
fringelike
fringent
fringepod
fringes
fringier
fringiest
fringillaceous
fringillid
fringilliform
fringilline
fringilloid
fringiness
fringing
fringy
fripponerie
fripper
fripperer
fripperies
frippery
frippet
fris
frisado
frisbee
frisbees
frisca
friscal
frisch
frisco
frise
frises
frisette
frisettes
friseur
friseurs
frisian
frisk
fritterers
frittering
fritters
fritting
frits
fritz
frivol
frivoled
frivoler
frivolers
frivoling
frivolism
frivolist
frivolities
frivoly
frivolize
frivolized
frivolizing
frivolled
frivoller
frivolling
frivolous
frivolously
frivolousness
frivols
frixon
friz
frizado
frize
frized
frizel
frizer
frizers
frizes
frizette
frizettes
frizing
frizz
frizzante
frizzed
frizen
frizzer
frizzers
frizzes
frizzler
frizziers
frizzly
frizziness
fructifying
fructiparous
fructivorous
fructokinase
fructosan
fructose
fructoses
fructoside
fructuarius
fructuary
fructuate
fructose
fructuous
fructuously
fructuousness
fructure
fructus
frug
frugal
frugalism
frugalist
frugalities
frugality
frugally
frugalness
fruggan
frugged
fruggin
frugging
frugiferous
frugiferousness
frugivorous
frugs
fruit
fruit's
fruitade
fruitage
fruitages
fruitarian
fruitarianism
fruitbearing
fruitcake
fruitcakes
fruitcakey
fruited
fruiter
fruiterer
frumperies
frumpery
frumpier
frumpiest
frumpily
frumpiness
frumpish
frumpishly
frumpishness
frumble
frumpled
frumpling
frumps
frumpy
frundel
frush
frusla
frust
frusta
frustrable
frustraneous
frustrate
frustrated
frustrately
frustrater
frustrates
frustrating
frustratingly
frustration
frustrations
frustrative
frustratory
frustula
frustule
frustulent
frustules
frustulose
frustulum
frustum
frustums
frutage
frutescence
frutescent
frutex
fruticant
fruticeous
frutices
fruticeta
fruticetum
fruticose
fruticous
fruticulose
fruticulture
frutify
frutilla
fruz
frwy
fry
fryer
fryers
frying
frypan
frypans
fs
fsiest
fstore
ft
fth
fthm
ftncmd
ftnerr
fu
fuage
fub
fubbed
fubbery
fubbing
fubby
fubs
fubsier
fubsieest
fubsy
fucaceous
fucate
fucation
fucatious
fuchi
fuchsia
fuchsias
fuchsin
fuchsine
fuchsines
fuchsinophil
fuchsinophilous
fuchsins
fuchsite
fugitives
fugitivism
fugitivity
fugle
fugled
fugleman
fuglemanship
fuglemen
fugler
fugles
fugling
fugs
fugu
fugue
fugued
fuguelike
fugues
fuguing
fuguist
fuguists
fuhrer
fuhrers
fuidhir
fuirdays
fuji
fujis
fula
fulani
fulciform
fulciment
fulcra
fulcraceous
fulcral
fulcrate
fulcrum
fulcrumage
fulcrumed
fulcruming
fulcrums
fulfil
fulfill
fulfilled
fulfiller
fulfillers
fulfilling
fulfillment
fulfillments
fulfills
fulmining
fulminous
fulminurate
fulminuric
fulness
fulnesses
fulsamic
fulsome
fulsomely
fulsomeness
fulth
fultz
fulvène
fulvescent
fulvid
fulvidness
fulvous
fulwa
fulyie
fulzie
fum
fumacious
fumade
fumado
fumados
fumage
fumagine
fumant
fumarase
fumases
fumarate
fumarates
fumaria
fumariaceous
fumaric
fumarin
fumarine
fumarium
fumaroid
fumaroidal
fumarole
fumaroles
fumarolic
fumaryl
fumatoria
fumatories
fumatorium
fumatoriums
fumatory
fumattoria
fumble
fumbled
fumbler
fumblers
fumbles
fumbling
fumblingly
fumblingness
fumbulator
fume
fumed
fumeless
fumelike
fumer
fumerel
fumeroot
fumers
fumes
fumet
fumets
fumette
fumettes
fumeuse
fumeuses
fumewort
fumid
fumidity
fumiduct
fumier
fumiest
fumiferana
fumiferous
fumify
fumigant
fumigrants
fumigate
fumigated
fumigates
fumigating
fumigation
fumigations
fumigator
fumigators
fumigatorium
fumigatory
functionals
functionaries
functionarism
functionary
functionate
functionated
functionating
functionation
functioned
functioning
functionize
functionless
functionlessness
functionnaire
functions
functor
functor's
functorial
functors
functus
fund
fundable
fundal
fundament
fundamental
fundamentalism
fundamentalist
fundamentalistic
fundamentalists
fundamentality
fundamentally
fundamentalness
fundamentals
fundatorial
fundatrices
fundatrix
funded
funder
funders
fundholder
fundi
fundic
fundiform
funding
funditor
funditores
fundless
fundmonger
fundmongering
fundraise
fundraising
funds
funduck
funduline
fundungi
fundus
funebre
funebrial
funebrious
funebrous
funeral
funeral’s
funerealize
funerally
funerals
funerary
funerate
funeration
funereal
funereality
funereally
funerealness
funest
funestal
funfair
funfairs
funfest
fungaceous
fungal
fungals
fungate
fungated
fungating
fungation
funge
fungi
fungian
fungibility
fungible
fungibles
fungic
fungicidal
fungicidally
fungicide
fungicides
fungicolous
fungid
fungiferous
fungiform
fungify
fungilliform
fungillus
fungin
fungistat
fungistic
fungistatically
fungite
fungitoxic
fungitoxicity
fungivorous
fungo
fungoes
fungoid
fungoidal
fungoids
fungological
fungologist
fungology
fungose
fungosities
fungosity
fungous
fungus
fungused
funguses
funguslike
fungusy
funic
funicle
funicles
funicular
funiculars
funiculate
funicule
funiculi
funiculitis
funiculus
funiform
funiliform
funipendulous
funis
funk
funked
funker
furanes
furanoid
furanose
furanoses
furanoside
furans
furazan
furazane
furazolidone
furbearer
furbelow
furbelowed
furbelowing
furbelows
furbish
furbishable
furbished
furbisher
furbishes
furbishing
furbishment
furca
furcae
furcal
furcate
furcated
furcately
furcates
furcating
furcation
furcellate
furciferine
furciferous
furciform
furcilia
furcraea
furcraeas
furcula
furculae
furcular
furcule
furculum
furdel
furdle
furdfur
furfuraceous
furfuraceousness
furfural
furfuralcohol
furfuraldehyde
furfurals
furfuramid
furfuramide
furfuran
furfurans
furfuration
furfures
furfurine
furfuroid
furfurol
furfurole
furfuluous
furfulyl
furfulylidene
furial
furiant
furibund
furicane
furied
furies
furify
furil
furile
furilic
furiosa
furiosity
furioso
furious
furiously
furioser
furiously
furiously
furison
furivae
furl
furlable
furlana
furlana
furlane
furled
furler
furlers
furless
furling
furlong
furlongs
furore
furores
furors
furosemide
furphy
furred
furrier
furriered
furrieries
furriers
furriery
furriest
furrily
furriner
furriners
furriness
furring
furrings
furrow
furrowed
furrower
furrowers
furrowing
furrowless
furrowlike
furrows
furrowy
furrure
furry
furs
fursemide
furstone
further
furtherance
furtherances
furthered
furtherer
furtherest
furthering
furtherly
furthermore
furthermost
furthers
furthersome
furthest
furth
furtive
furtive
furtively
furtiveness
furtum
furuncle
furuncles
furuncular
furunculoid
furunculosis
furunculous
furunculus
fury
fury's
furyl
furze
furzechat
furzed
furzeling
furzery
furzes
furzetop
furzier
furziest
furzy
fusain
fusains
fusarial
fusariose
fusariosis
fusarole
fusate
fusc
fuscescent
fuscin
fuscohyaline
fuscous
fuse
fuseau
fuseboard
fused
fusee
fusees
fusel
fuselage
fuselages
fuseless
fuselike
fusels
fuseplug
fuses
fusotron
fusht
fusibility
fusible
fusibleness
fusibly
fusiform
fusil
fusilade
fusiladed
fusilades
fusilading
fusile
fusileer
fusileers
fusilier
fusiliers
fusillade
fusilladed
fusillades
fusillading
fusilly
fusils
fusing
fusinist
fusinite
fusion
fusional
fusionism
fusionist
fusionless
fusions
fusk
fusobacteria
fusobacterium
fusobteria
fusoid
fuss
fussbudget
fussbudgets
fussbudgety
fussed
fusser
fussers
fusses
fussier
fussiest
fussification
fussify
fussily
fussiness
fussing
fussle
fussock
fusspot
fusspots
fussy
fust
fustanella
fustanelle
fustee
fuster
fusteric
fustet
fustian
fustianish
fustianist
fustianize
fustians
fustic
fustics
fustie
fustier
fustiest
fustigate
fustigated
fustigating
fustigation
fustigator
fustigatory
fustilarian
fustilugs
fustily
fustin
fustinella
fustinness
fustle
fustoc
fusty
fusula
fusulae
fusulas
fusuma
fusure
fut
futchel
gabgab
gabi
gabies
gabion
gabionade
gabionage
gabioned
gabions
gablatores
gable
gableboard
gabled
gableended
gablelike
gabler
gables
gablet
gablewindowed
gablewise
gabling
gablock
gabon
gaboon
gaboons
gabriel
gabs
gaby
gachupin
gad
gadabout
gadabouts
gadaea
gadarene
gadbee
gadbush
gadded
gadder
gadders
gaddi
gadding
gaddingly
gaddis
gaddish
gaddishness
gade
gadean
gader
gades
gadflies
gadfly
gadge

gadger

gadget

gadget's

gadgeteer

gadgeteers

gadgetries

gadgetry

gadgets

gadgety

gadhelic

gadi

gadid

gadids

gadinic

gadinine

gadis

gaditan

gadite

gadling


gadman

gadoid

gadoids

gadolinia

gadolinic

gadolinite

gadolinium

gadroon

gadroonage

gadrooned

gadrooning

gadroons

gads

gadsman

gadso


gaduin

gadwall

gadwalls

gadwell

gadzooks

gae

gaea

gaed

gaedelian

gaedown

gael
gainstand
gainstrive
gainturn
gaintwist
gainward
gainyield
gair
gairfish
gairfowl
gaisling
gai
gaist
gait
gaited
gaiter
gaiterless
gaiters
gaiting
gaits
gaitt
gaius
gaize

gaj
gal
gala
galabeh
galabia
galabieh
galabiya
galactagog
galactagogue
galactagoguic
galactan
galactase
galactemia
galachidrosis
galactic
galactically
galactidrosis
galactin
galactite
galactocele
galactodendron
galactodensimeter
galactogenetic
galactogogue
galactohemia
galactoid
galactolipide
galactolipin
galactolysis
galactolytic
galactoma
galactometer
galactometry
galactonic
galactopathy
galactophagist
galactophagous
galactophonebitis
galactophylysis
galactophore
galactophoritis
galactophorous
galactophthysis
galactophygous
galactopoiesis
galactopoietic
galactopyra
galactorrhea
galactorrhoea
galactosamine
galactosan
galactoscope
galactose
galactosemia
galactosemic
galactosidase
galactoside
galactosis
galactostasis
galactosuria
galactosyl
galactotherapy
galactotrophy
galacturia
galagala
galago
galagos
galah
galahad
galahads
galahs
galanas
galanga
galangal
galangals
galena
galenas
galenic
galenical
galenism
galenist
galenite
galenites
galenobismutite
galenoid
galeod
galeoid
galeopithecus
galeproof
galera
galere
galeres
galericulate
galerie
galerite
galerum
galerus
gales
galesaur
gaet
galette
galewort
galey
galgal
gali
galianes
galilean
galilee
galilees
galilei
galileo
galimatias
galinaceous
galingale
galiongee
galionji
galiot
galiots
galipidine
galipine
galipoidin
galipoidine
galipoipin
gallenging
galleryite
gallerylike
gallet
galleta
galletas
galleting
galley
galley's
galleylike
galleyman
galleypot
galleys
galleyworm
gallflies
gallflower
gallfly
galliambic
galliambus
gallian
galliard
galliardise
galliardize
galliardly
galliardness
galliards
galliass
galliasses
gallic
gallican
gallicanism
gallicism
gallicisms
gallicization
gallicize
gallicizer
galicola
galicole
galicolous
gallied
gallies
galliferous
gallification
galliform
galligaskin
galligaskins
gallimatia
gallimaufries
gallimaufry
gallinaceous
gallinaceous

gallinazo
galline
galling
gallingly
gallingness
gallinipper
gallinule
gallinulelike
gallinules
gallinuline
galliot
gallions
gallipot
gallipots
gallish
gallisin
gallium
galliums
gallivant
gallivanted
gallivanter
gallivanthers
gallivanting
gallivants
gallivat
gallivorous
galliwaspgallize
gallnut
gallnuts
gallocyanin
gallocyanine
galloflavin
galloflavine
galloflavine
gallon
gallon's
gallonage
galloner
gallons
galloon
gallooned
galloons
galopin
galoping
galops
galore
galores
galosh
galoshe
galoshed
galoshes
galoubet
galp
galravage
galravitch
gals
galt
galtrap
galuchat
galumph
galumphed
galumphing
galumphs
galumptious
galut
galuth
galv
galvanic
galvanical
galvanically
galvanisation
galvanise
galvanised
galvaniser
galvanising
galvanism
galvanist
galvanization
galvanizations
galvanize
galvanized
galvanizer
galvanizers
galvanizes
galvanizing
galvanocauteries
galvanocauterization
galvanocautery
galvanococontractility
galvanofaradization
galvanoglyph
galvanoglyphy
galvanograph
galvanographic
galvanography
galvanologist
galvanology
galvanalysis
galvanomagnet
galvanomagnetic
galvanomagnetism
galvanometer
galvanometers
galvanometric
galvanometrical
galvanometrically
galvanometry
galvanoplastic
galvanoplastical
galvanoplastically
galvanoplastics
galvanoplasty
galvanopsychic
galvanopuncture
galvanoscope
galvanoscopic
galvanoscopy
galvanoscopy
galvanosurgery
galvanotactic
galvanotaxis
galvanotherapy
galvanothermometer
galvanothermy
galvanotonic
galvanotropic
galvanotropism
galvayne
galvayned
galvayning
galvo
galvvanoscopy
galways
galwegian
galyac
galyacs
galyak
galyaks
galziekte
gamboges
gambogian
gambogic
gamboised
gambol
gamboled
gamboler
gamboling
gambolled
gamboller
gambolling
gambols
gambone
gambrel
gambreled
gambrelled
gambrels
gambroon
gambs
gambusia
gambusias
gamdeboo
gamdia
game
gamebag
gameball
gamecock
gamecocks
gamecraft
gamed
gameful
gamekeeper
gamekeepers
gamekeeping
gamelan
gamelang
gamelans
gameless
gamelike
gamelin
gamelote
gamelotte
gamely
gamene
gameness
gamenesses
gamer
games
gamophyllous
gamori
gamosepalous
gamostele
gamostelic
gamostely
gamotropic
gamotropism
gamp
gamphrel
gamps
gams
gamut
gamuts
gamy
gan
ganam
ganancial
gananciales
ganancias
ganch
ganched
ganching
ganda
gander
gandered
ganderess
gandergoose
gandering
gandermooner
ganders
ganderteeth
gandertmeeth
gandhi
gandhian
gandoura
gandul
gandum
gandurah
gane
ganef
ganefs
ganev
ganevs
gang
gang's
ganga
gangan
gangetic
gangflower
ganggang
ganging
gangion
gangism
gangland
ganglander
ganglands
ganglia
ganglial
ganglier
gangliasthenia
gangliate
gangliated
gangliectomy
ganglier
gangliest
gangliiform
gangglii
ganggliions
gangliitis
gangling
ganglioblast
gangliocyte
ganglioform
ganglioid
ganglioma
gangliomas
gangliomata
ganglion
ganglionary
ganglionate
ganglionated
ganglionectomies
ganglionectomy
ganglioneural
ganglioneure
ganglioneuroma
ganglioneuron
ganglionic
ganglionitis
ganglionless
ganglions
ganglioplexus
ganglioside
gangly
gangman
gangmaster
gangplank
gangplanks
gangplow
gangplows
gangrel
gangrels
gangrenate
gangrene
gangrened
gangrenes
gangrenescent
gangrening
gangrenous
gangs
gangsa
gangshag
gangsman
gangster
gangster's
gangsterism
gangsters
gangtide
gangue
gangues
gangwa
gangway
gangwayed
gangwayman
gangwaymen
gangways
ganister
ganisters
ganja
ganjas
ganner
gannet
gannetry
gannets
gannister
ganoblast
ganocephalan
ganocephalous
ganodont
ganof
ganofs
ganoid
ganoidal
ganoidean
ganoidian
ganoids
ganoin
ganoine
ganomalite
ganophyllite
ganoses
ganosis
gansa
gansel
ganser
gansey
gansy
gant
ganta
gantang
gantangs
gantelope
gantlet
gantleted
gantletting
gantlets
gantline
gantlines
gantlope
gantlopes
ganton
gantries
gantry
gantryman
gantsl
ganyie
ganymede
ganymedes
ganza
gargantua
gargantuan
gargarism
gargarize
garget
gargets
gargety
gargil
gargle
gargled
gargler
garglers
gargles
gargling
gargol
gargoyle
gargoyled
gargoyleles
gargoyley
gargoyleish
gargoyleishly
gargoyleism
garial
gariba
garibaldi
garigue
garish
garishly
garishness
garland
garlandage
garlanded
garlanding
garlandless
garlandlike
garlandry
garlands
garlandwise
garle
garlic
garlicky
garliclike
garlicmonger
garlics
garlicwort
garliion
garlopa
garment
garoo
garookuh
garote
garoted
garoter
garotes
garoting
garotte
garotted
garotter
garotters
garottes
garotting
garous
garpike
garpikes
garrafa
garran
garrat
gared
garet
garreted
garreeteer
garretemaster
garrets
garrick
garridge
garrigue
garring
garrison
garrisoned
garrisoning
garrisons
garnishable
garron
garrons
garroo
garrooka
garrot
garrote
garroted
garroter
garroter
garroters
garrottes
garrotting
garrotte
garrotted
garrotter
garrottes
garrotting
garruline
garrulity
garrulous
garrulously
garrulousness
garrupa
garrya
gars
garse
garsil
garston
garten
garter
garter's
gartered
gartering
garterless
garters
garth
garthonman
garths
garua
garum
garvance
garvanzo
garvey
garveys
garvie
garvock
gary
gas
gas's
gasalier
gasaliers
gasbag
gasbags
gasboat
gascheck
gascoign
gascoigny
gascon
gasconade
gasconaded
gasconader
gasconading
gasconism
gascons
gascoyne
gascromh
gaseity
gaselier
gaseliers
gaseosity
gaseous
gaseously
gaseousness
gases
gasfiring
gash
gash's
gashed
gasher
gashes
gashest
gashful
gashing
gashliness
gashly
gashholder
gashouse
gashouses
gashy
gasifiable
gasification
gasified
gasifier
gasifiers
gasifies
gasiform
gasify
gasifying
gasket
gaskets
gaskin
gasking
gaskings
gaskins
gasless
gaslight
gaslighted
gaslighting
gaslightness
gaslights
gaslike
gastrea

gastreas

gastrectasia

gastrectasis

gastrectomies

gastrectomy

gastrelcrosis

gastric

gastricism

gastrilegous

gastriloquial

gastriloquism

gastriloquist

gastriloquous

gastriloquy

gastrimargy

gastrin

gastrins

gastritic

gastritis

gastroadenitis

gastrodynamic

gastroalbuminorhea

gastroanastomosis

gastroarthritis

gastroatonia

gastroatrophia

gastroblennorrhea

gastrocatarrhal

gastrocele

gastrocentrous

gastrocnemial

gastrocnemian

gastrocnemii

gastrocnemius

gastrocoel

gastrocoele

gastrocolic

gastrocoeloptosis

gastrocolostomy

gastrocolotomy

gastrocolpotomy

gastrocystic

gastrocystis

gastrodermal

gastrodermis

gastrodialysis

gastrodiaphanoscopy
gastrodidymus
gastrodisc
gastrodisk
gastroduodenal
gastroduodenitis
gastroduodenoscopy
gastroduodenostomies
gastroduodenostomy
gastrodynia
gastroelytrotomy
gastroenteralgia
gastroenteric
gastroenteritis
gastroenteroanastomosis
gastroenterocolitis
gastroenterocolostomy
gastroenterologic
gastroenterological
gastroenterologically
gastroenterologist
gastroenterologists
gastroenterology
gastroenteroptosis
gastroenterostomies
gastroenterostomy
gastroenterotomy
gastroepiploic
gastroesophageal
gastroesophagostomy
gastrogastrotomy
gastrogenic
gastrogenital
gastrogenous
gastrograph
gastrohelcosis
gastrohepatic
gastrohepatitis
gastrohydorhhea
gastrohyperneuria
gastrohypertonic
gastrohysterectomy
gastrohysteropexy
gastrohysterorrhaphy
gastrohysterotomy
gastroid
gastrointestinal
gastrojejunal
gastrojejunoanostomies
gastrojejunoanostomy
gastrolater
gastrolatrous
gastrolavage
gastrolienal
gastrolith
gastrologer
gastrological
gastrologically
gastrologist
gastrologists
gastrology
gastrolysis
gastrolytic
gastromalacia
gastromancy
gastromelus
gastromenia
gastromyces
gastromycosis
gastromyoxorrhea
gastronephritis
gastronome
gastronomer
gastronomes
gastronomic
gastronomical
gastronomically
gastronomics
gastronomist
gastronomy
gastronosus
gastropancreatic
gastropancreatitis
gastroparalysis
gastroparasis
gastroparietal
gastropathic
gastropathy
gastroperiodynia
gastropexy
gastrophile
gastrophilism
gastrophilist
gastrophilite
gastrophrenic
gastrophthisis
gastroplasty
gastroplenic
gastropleuritis
gastroplication
gastropneumatic
gastropneumonic
gastropod
gastropodan
gastropodous
gastropods
gastropore
gastroptosis
gastroptosis
gastropulmonary
gastropulmonic
gastropyloric
gastorrhagia
gastrorrhaphy
gastrorrhaphy
gastrochisis
gastroscopy
gastroscopic
gastroscopies
gastroscopist
gastroscopy
gastrosphe
gastrosphe
gastrospasm
gastroplenic
gastrostaxis
gastrostegal
gastrostege
gastrostenosis
gastrostomies
gastrostomize
gastrostomy
gastrosuccorrhea
gastrotaxis
gastrotheca
gastrotheal
gastrotome
gastrotomic
gastrotomies
gastrotomy

---
gauzily
gauziness
gauzy
gavage
gavages
gavall
gave
gavel
gavelage
gaveled
gaveler
gavelet
gaveling
gavelkind
gavelkinder
gavelled
gaveller
gavelling
gavelman
gavelmen
gavelock
gavelocks
gavels
gaverick
gavial
gavialoid
gavials
gavot
gavots
gavotte
gavotted
gavottes
gavotting
gavyuti
gaw
gawain
gawby
gawceyJgawcie
gawgaw
gawish
gawk
gawked
gawker
gawkers
gawkhammer
gawkier
gawkies
gedanite
gedanken
gedd
gedder
gedds
gedeckt
gedecktwork
gedrite
geds
gedunk
gee
geebong
geebung
geed
geegaw
geegaws
geeing
geejee
geek
geeks
geelbec
geelbeck
geelbek
geeldikkop
geelhout
geepound
geepounds
geer
geerah
gees
geese
geest
geests
geet
geez
geezer
geezers
gefilte
gefulltefish
gegenion
gegenschein
gegg
geegee
gegger
gegger
gegery
gehenna
gehey
gehlenite
gemellione
gemellus
gemels
geminal
geminally
geminate
geminated
geminately
geminates
geminating
gemination
geminations
geminative
gemi
geminiflorous
geminiform
geminis
geminorum
geminous
gemitorial
gemless
gemlich
gemlike
gemma
gemmaceous
gemmae
gemman
gemmary
gemmate
gemmated
gemmates
gemmating
gemmation
gemmative
gemmed
gemmel
gemmeous
gemmer
gemmery
gemmier
gemmiest
gemmiferous
gemmiferousness
gemmification
gemmiform
gemmily
gemminess
gemming
gemmipara
gemmipares
gemmiparity
gemmiparous
gemmiparously
gemmoid
gemmological
gemmologist
gemmologists
gemmology
gemmula
gemmulation
gemmule
gemmules
gemmuliferous
gemmy
gemological
gemologies
gemologist
gemologists
gemology
gemonies
gemot
gemote
gemotes
gemots
gempylid
gems
gemsbok
gemsboks
gemsbuck
gemsbucks
gemse
gemses
gemshorn
gemstone
gemstones
gemuetlich
gemul
gemuti
gemutlich
gemutlichkeit
gemwork
gen
gen
genae
gen
genapp
generalate
generalcies
generalcy
generale
generalia
generalific
generalisable
generalisation
generalise
generalised
generaliser
generalising
generalism
generalissima
generalissimo
generalissimos
generalist
generalist's
generalistic
generalists
generaliter
generalities
generality
generalizable
generalization
generalization's
generalizations
generalize
generalizeable
generalized
generalizer
generalizers
generalizes
generalizing
generall
generally
generalness
generals
generalship
generalships
generality
generant
generate
generated
generator
generates
generating
generation
genetically
 geneticism
 geneticist
 geneticists
 genetics
 genetika
 genetmoil
 genetoid
 genetor
 genetous
 genetrix
 genets
 genette
 genettes
 geneva
 genevan
 genevas
 genevese
 genevoise
 genghis
 genial
 geniality
 genialize
 genially
 genialness
 genian
 genic
 genically
 genicular
 geniculate
 geniculated
 geniculately
 geniculation
 geniculum
 genie
 genies
 genii
 genin
 genio
 genioglossal
 genioglossi
 genioglossus
 geniohyoglossal
 geniohyoglossus
 geniohyoid
 geniolatry
 genion
 genioplasty
genomes
genomic
genoms
genonema
genophobia
genos
genospecies
genotype
genotypes
genotypic
genotypical
genotypically
genotypicity
genouillere
genovino
genre
genre's
genres
genro
genros
gens
genseng
gensengs
genson
gent
gentamicin
genteel
genteeler
genteelest
genteelish
genteelism
genteelize
genteelly
genteelness
gentes
genthite
gentian
gentianaceous
gentianal
gentinella
gentianic
gentianin
gentianose
gentians
gentianwort
gentiin
gentil
gentile
gentiledom
genties
gentilesse
gentilhomme
gentilic
gentilish
gentilism
gentilitial
gentilitian
gentilities
gentilitious
gentility
gentilization
gentilize
gentiobiose
gentiopicrin
gentisate
gentisein
gentisic
gentisin
gentium
gentle
gentled
gentlefolk
gentlefols
gentlehearted
gentleheartedly
gentleheartedness
gentlehood
gentleman
gentlemanhood
gentlemanism
gentlemanize
gentlemanlike
gentlemanlikeness
gentlemanliness
gentlemanly
gentlemanship
gentlemen
gentlemens
gentlemouthed
gentleness
gentlepeople
gentler
gentles
gentleship
gentlest
gentlewomen
gentlewomanhood
gentlewomanish
gentlewomanlike
gentlewomanliness
gentlewomanly
gentlewomen
gentling
gently
gentman
gentoo
gentrice
gentrices
gentries
gentrification
gentry
gents
genty
genu
genua
genual
genuclast
genuflect
genuflected
genuflecting
genuflection
genuflections
genuflector
genuflectory
genuflects
genuflex
genuflexion
genuflexuous
genuine
genuinely
genuineness
genupectoral
gen
genuses
genyantrum
genyoplasty
genyplasty
genys
go
goaesthesia
goagronomic
geoagronomic
goobiologic
goobiology
goobiont
geodetically
geodetician
geodetics
geodiatropism
geodic
geodiferous
geodist
geoduck
geoducks
geodynamic
geodynamical
geodynamicist
geodynamics
g eoemtry
g eooethnic
g eoffroyin
g eoffroyine
g eof orm
g eog
g eogen
g eogenesis
g eogenetic
g eogenic
g eogenous
g eogeny
g eoglyphic
g eognosies
g eognosis
g eognosist
g eognost
g eognostic
g eognostical
g eognostically
g eognosy
g eogonic
g eogonical
g eogony
g eographer
g eographers
g eographic
g eographical
g eographically
g eographics
g eographies
g eographism
g eographize
g eographized
g eography
geohydrologic
geohydrologist
geohydrology
goid
goidal
goids
geoisotherm
gol
golatry
goleugistings
golager
gologers
gologian
gologic
gologal
gologically
gologian
gologian
gologies
gologise
gologised
gologising
gologist
gologist's
gologists
gologize
gologized
gologizing
gology
gem
gomagnatic
gomagnetically
gomagnetrician
gomagnetics
gomagnetism
gomagnetist
gomalic
gomalism
gomaly
gomance
gomancer
gomancies
gomancy
gomant
gomantic
gomantical
gomantically
gomechanics
gomedical
geophagy
geophilid
ejgeophilous
ejgeophone
ejgeophones
ejgeophysical
ejgeophysically
ejgeophysicist
ejgeophysicists
ejgeophysics
ejgeophyte
ejgeophytes
ejgeophytic
ejgeoplagnetropism
ejgeopolar
ejgeopolitic
ejgeopolitical
ejgeopolitically
ejgeopolitician
ejgeopolitics
ejgeopolitist
ejgeoponic
ejgeonatical
ejgeonics
ejgeony
ejgeopositive
ejgeopotential
ejgeorama
ejgeordie
ejgeorge
ejgeorgette
ejgeorgia
ejgeorgiadesite
ejgeorgian
ejgeorgians
ejgeorgic
ejgeorgical
ejgeorgics
ejgeorgium
ejgeoscience
ejgeoscientist
ejgeoscientists
ejgeoscopic
ejgeoscopy
ejgeoselenic
ejgeosid
ejgeoside
ejgeosphere
geostatic
geostatics
gleostationary
gleostrategic
gleostrategist
gleostrategy
gleostrophic
gleostrophically
gleosynchronous
gleosynclinal
gleosyncline
gleosynclines
geotactic
geotactically
geotaxes
geotaxis
geotaxy
geotechnic
geotechnics
geotectology
geotectonic
geotectonically
geotectonics
geotherm
geothermal
geothermally
geothermic
geothermometer
geotic
geotical
geotilla
geotonic
geotonus
geotropic
geotropically
geotropism
geotropy
geoty
gephyrean
gephyrocercal
gephyrocercy
gephyrophobia
gepoun
ger
geraera
gerah
gerahs
gerald
geraniaceous
geranial
geranials
geranic
geranin
geraniol
geraniols
geranium
geraniums
geranomorph
geranomorphic
geranyl
gerara
gerardia
gerardias
gerastian
gerate
gerated
gerately
geratic
geratologic
geratologous
geratology
geraty
gerb
gerbe
gerbera
gerberas
gerbil
gerbille
gerbilles
gerbils
gerbo
gercrow
gere
gereagle
gerefa
gerenda
gerendum
gerent
gerents
gerenuk
gerenuks
gerfalcon
gerful
gerhardtite
geriatric
geriatrician
gerontism
geronto
gerontocracies
gerontocracy
gerontocrat
gerontocratic
gerontogeneous
gerontologic
gerontological
gerontologies
gerontologist
gerontologists
gerontology
gerontomorphosis
gerontophilia
gerontotherapies
gerontotherapy
gerontoxon
geropiga
gerousia
gerrhosaurid
gerrymander
gerrymandered
gerrymanderer
gerrymandering
gerrymanders
gers
gersdorffite
gersum
gertrude
gerund
gerundial
gerundially
gerundival
gerundive
gerundively
gerunds
gerusia
gervais
gervao
gery
gerygone
geryon
geryonid
gesellschaft
gesellschaften
gesith
gesithcund
gimmals
gimme
gimmer
gimmerly
gimmerpet
gimmick
gimmick's
gimmicked
gimmickery
gimmicking
gimmickry
gimmicks
gimmicky
gimmer

gimp
gimped
gimper
gimpier
gimpiest
gimping
gimps
gimpy
gin
gin's
ginep
ginete
ging
gingal
gingall
gingalls
gingals
gingeley
gingeleys
gingeli
gingelies
gingelis
gingellies
gingelly
gingly
ginger
gingerade
gingerberry
gingerbread
gingerbreadly
gingered
gingering
gingerleaf
gingerline
ginkgoes
ginks
ginmill
ginn
ginned
ginnel
ginner
ginneries
ginners
ginery
ginnet
ginney
ginnier
ginniest
ginning
ginnings
ginnle
ginny
ginorite
gins
ginseng
ginsengs
ginward
ginzo
ginzoes
gio
giobertite
giocoso
giojoso
giornata
giornatate
giottesque
gip
gipon
gipons
gipped
gipper
gippers
gipping
gippo
gippy
gips
gipseian
gipser
gipsied
gipsies
gipsiologist
gipsire
glanduliform
glanduligerous
glandulose
glandulosity
glandulous
glandulousness
glanis
glans
glar
glare
glared
glareless
glareole
glareous
glareproof
glares
glareworm
glarier
glariest
glarily
glariness
glaring
glaringly
glaringness
glarry
glary
glaserite
glasgow
glashan
glass
glassblower
glassblowers
glassblowing
glassed
glassen
glasser
glasses
glasseye
glassfish
glassful
glassfuls
glasshouse
glasshouses
glassie
glassier
glassies
glassiest
glassily
glaucophonize
glaucophyllous
glaucusis
glaucosis
glaucosuria
glaucous
glaucously
glaucousness
glaucus
glaum
glaumrie
glaur
glaury
glave
glaver
glavered
glavering
glayment
glaze
glazed
glazement
glazen
glazier
glaziers
glazes
glazework
glazier
glazieries
glaziers
glazierly
glaziness
glazing
glazings
glasy
glb
gld
glead
gleam
gleamed
gleamier
gleamiest
gleamily
gleaminess
gleaming
gleamingly
gleamless
gleams
greeting
gleet
gleety
gleewoman
gleg
glegly
glegness
glegnesses
gleir
gleet
gleization
glen
glen's
glendale
glendover
glene
glengarries
glengarry
glenlike
glenlivet
glenohumeral
glenoid
glenoidal
glens
glent
glenwood
glessite
gletscher
gletty
glew
gley
gleyde
gleys
glia
gliadin
gliadine
gliadines
gliadins
glial
glib
glibber
glibbery
glibbest
glibly
glibness
glibnesses
glick
glidder
gloatingly
gloats
glob
global
globalism
globalist
globalists
globality
globalization
globalize
globalized
globalizing
globally
globate
globated
globe
globe's
globed
globefish
globefishes
globeflower
globeholder
globelet
globalize
globes
globetrotter
globetrotters
globetrotting
globical
globiferous
globigerina
globigerinae
globigerinas
globigerine
globin
globing
globins
globoid
globoids
globeose
globosely
globoseness
globosites
globosities
globosity
globospherite
globous
globously
globousness
globs
globular
globulariaceous
globularity
globularly
globularness
globule
globules
globulet
globulicidal
globulicide
globuliferous
globuliform
globulimeter
globulin
globulins
globulinuria
globulite
globulitic
globuloid
globulolysis
globulose
globulous
globulousness
globulysis
globus
globy
glochchidia
glochid
glochideous
glochidia
glochidial
glochidian
glochidiate
glochidium
glochids
glochines
glochis
glockenspiel
glockenspiels
glod
gloea
gloeal
gloeocapsoid
gloeosporiose
glogg
gloggs
glom
glome
glomeli
glomera
glomerate
glomeration
glomeroporphyrinic
glomerular
glomerulate
glomerule
glomeruli
glomerulitis
glomerulonephritis
glomerulose
glomerulus
gloi
glommed
glomming
glommox
gloms
glomus
glonoin
glonoine
glood
gloom
gloomed
gloomful
gloomfully
gloomier
gloomiest
gloomily
gloominess
glooming
gloomingly
gloomings
gloomless
glooms
gloomth
gloomy
glop
glopnen
gloppen
gloppy
glops
glor
glare
gloria
gloriam
glossectomy
glossed
glossem
glossematic
glossematics
glosseme
glossemes
glossemic
glosser
glossers
glosses
glossic
glossier
glossies
glossiest
glossily
glossina
glossinas
glossiness
glossing
glossingly
glossist
glossitic
glossitis
glossless
glossmeter
glossocarcinoma
glossocele
glossocoma
glossocomium
glossocomon
glossodynamometer
glossodynia
glossoepiglottic
glossoepiglotidnian
glossograph
glossographer
glossographical
glossography
glossohyal
glossoid
glossokinesthetic
glossolabial
glossolabilaryngeal
glossolabiopharyngeal
glossolalia
glossolalist
glossolaly
glossolaryngeal
glossological
glossologies
glossologist
glossology
glossolysis
glossoncus
glossopalatine
glossopalatinus
glossopathy
glossopetra
glossophagine
glossopharyngeal
glossopharyngeus
glossophobia
glossophorous
glossophytia
glossoplasty
glossoplegia
glossoped
glossopodium
glossoptosis
glossopyrosis
glossorrhaphy
glossoscopia
glossoscopy
glossospasm
glossosteresis
glossotomies
glossotomy
glossotype
glossy
glost
glost
glottal
glottalite
glottalization
glottalize
glottalized
glottalizing
glottic
glottid
glottidean
glottides
glottis
glottoscope
glottises
glottitis
glucosamine
glucosan
glucosane
glucosazone
glucose
glucosemia
glucoses
glucosic
glucosid
glucosidal
glucosidase
glucoside
glucosidic
glucosidically
glucosin
glucosine
glucosone
glucosulfone
glucosuria
glucosuric
glucuronic
glucuronidase
glucuronide
glue
glued
glueing
gluelike
gluelikeness
gluemaker
gluemaking
glueman
gluapot
gluer
glers
glues
gluey
glueyness
glug
glugglug
gluhwein
gluier
gluiest
gluily
gluiness
gluing
gluish
gluishness
glum
gluma
glumaceous
glumal
glume
glumelike
glumella
glumes
glumiferous
glumly
glummer
glummest
glummy
glumness
glumnesses
glumose
glumosity
glumous
glump
glumpier
glumpiest
glumpily
glumpiness
glumpish
glumpy
glunch
glunched
glunches
glunching
glunimie
gluon
glusid
gluside
glut
gluaci
gluaceous
glutamate
glutamates
glutamic
glutaminase
glutamine
glutaminic
glutaraldehyde
glutaric
glutathione
glutch
gluteal
glutei
glutelin
glutelins
gluten
glutenin
glutenous
glutens
gluteofemoral
gluteoinguinal
gluteoperineal
glutetei
glutethimide
gluteus
glutimate
glutin
glutinant
glutinate
glutination
glutinative
glutinize
glutinos
glutinosity
glutinous
glutinously
glutinousness
glutation
glutoid
glutose
gluts
glutted
gluttei
glutter
gluttery
glutting
gluttingly
glutton
gluttoness
gluttonies
gluttonise
gluttonised
gluttonish
gluttonising
gluttonism
gluttonize
gluttonized
gluttonizing
gluttonous
gluttonously
gluttonousness
gluttons
gluttony
glyc
glycaemia
glycaemic
glycan
glycans
glycemia
glycemic
glyceral
glyceraldehyde
glycerate
glyceric
glyceride
glycericidic
glycerin
glycerinate
glycerinated
glycerinating
glycerination
glycerine
glycerinize
glycerins
glycerite
glycerize
glycerizin
glycerizine
glycerogel
glycerogelatin
glycerol
glycerolate
glycerole
glycerolize
glycerols
glycerolyses
glycerolysis
glycerophosphate
glycerophosphoric
glycerose
glyceroxide
glyceryl
glyceryls
glycic
glycid
glycide
glycidic
glycidol
glycin
glycine
glycines
glycinin
glycins
glycocholate
glycocholic
glycocin
glycocoll
glycogelatin
glycogen
glycogenase
glycogenesis
glycogenic

glycogenic

glycogenize
glycogenolysis
glycogenolytic
glycogenesis

glycogenous

glycogens

glycogeny

glycohaemia

glycohemia

glycol

glycolaldehyde

glycolate

glycolic

glycolide

glycolipid

glycolipide

glycolipin

glycolipine

glycollate

glycolic

glycollide

glycols

glycoluric

glycoluril

glycolyl

glycolylurea

glycolysis

glycolytic

glycolytically

glyconeane

glyconeogenesis

glyconeogenetic

glyconic

glyconics

glyconin
goaltenders
goaltending
goanna
goar
goas
goat
goat's
goatbeard
goatbrush
goatbush
goatee
goatee's
goateed
goatees
goatfish
goatfishes
goatherd
goatherdess
goatherds
goatish
goatishly
goatishness
goatland
goatlike
goatling
goatly
goatpox
goatroot
goats
goatsbane
goatsbeard
goatsfoot
goatskin
goatskins
goatstone
goatsucker
goatweed
goaty
goave
goaves
gob
goback
goban
gobang
gobangs
gobans
gobbe
gobbed
gobber
gobet
gobbets
gobbin
gobbing
gobble
gobbled
gobbledegook
gobbledygook
gobbler
gobblers
gobbles
gobbling
gobby
gobelin
gobemouche
gobernadora
gobet
gobi
gobies
gobiesocid
gobiesociform
gobiid
gobiiform
gobioid
gobioids
goblet
goblet's
gobleted
gobletful
goblets
goblin
goblin's
gobline
goblinesque
goblinish
goblinism
goblinize
goblinry
goblins
gobmouthed
gobo
goboises
gobonated
gobonee
gobony
gobos
gobs
gobstick
gobstopper
goburra
goby
gobylike
gocart
goclenian
god
god's
godawful
godchild
godchildren
goddam
goddammed
goddamming
goddammit
goddamn
goddamndest
goddamned
goddamnedest
goddamning
goddammit
goddamns
goddams
goddard
goddaughter
goddaughters
godded
goddess
goddess's
goddesses
goddesshood
goddessship
goddikin
godding
goddize
gode
godelich
godendag
godet
godetia
godfather
godfatherhood
godfathers
godfathership
godforsaken
godhead
godheads
goldenlocks
goldenly
goldenmouthed
goldenness
goldenpert
goldenrod
goldenrods
goldenseal
goldentop
goldenwing
golder
goldest
goldeye
goldeyes
goldfield
goldfielder
goldfields
goldfinch
goldfinches
goldfinnies
goldfinny
goldfish
goldfishes
goldflower
goldhammer
goldhead
goldie
goldilocks
goldin
golding
goldish
goldless
goldlike
goldminer
goldmist
goldney
golds
goldseed
goldsinny
goldsmith
goldsmithery
goldsmithing
goldsmithry
goldsmiths
goldspink
goldstone
goldtail
goldthread
goldtit
goldurn
goldurned
goldurnedest
goldurns
goldwater
goldweed
goldwork
goldworker
goldy
goldylocks
golee
golem
golems
goles
golet
golf
golfdom
golfed
golfer
golfers
golfing
golfings
golfs
golgotha
golgothas
goli
goliad
goliard
goliardery
goliardeys
goliardic
goliards
goliath
goliathize
goliaths
golilla
golkakra
goll
golland
gollar
goller
golliwog
golliwogg
golliwogs
gollop
golly
gollywobbler
gollywog
golch
goloe
goloka
golosh
goloshes
golp
golpe
golundauze
goluptious
gomari
gomarist
gomart
gomasha
gomasta
gomavel
gombay
gombeen
gombeenism
gombo
gombos
gomboon
gomboons
gome
gomer
gomeral
gomerals
gomerec
gomere
gomerels
gomeril
gomerils
gomlah
gommelin
gommier
gomorrah
gomor
gomphiasis
gomphodont
gomphoses
gomphosis
gomukhi
gomuti
gomutis
gon
gonad
gonadal
gonadectomies
gonadectomized
gonadectomizing
gonadectomy
gonadal
gonadic
gonadotrope
gonadotrophic
gonadotrophin
gonadotropic
gonadotropin
gonads
gonaduct
gonagia
gonagra
gonake
gonakie
gonal
gonalgia
gonangia
gonangial
gonangium
gonangiums
gonapod
gonapophysal
gonapophysial
gonapophysis
gonarthritis
goncalo
gond
gondang
gondi
gondite
gondola
gondolas
gondolet
gondoletta
gondolier
gondoliere
gondoliers
gone
goneness
gonenesses
goneoclinic
gonepoiesis
gonepoietic
goner
goners
gonesome
goney
gonfalcon
gonfalon
gonfalonier
gonfalonierate
gonfaloniership
gonfalons
gonfanon
gonfanons
gong
gong’s
gonged
gonging
gonglike
gongman
gongorism
gongoristic
gongs
gonia
goniac
gonial
goniale
goniatite
goniatitic
goniatitid
goniatitoid
gonid
gonidangium
gonidia
gonidial
gonidic
gonidiferous
gonidiogenous
gonidioid
gonidiophile
gonidiophile
gonidiode
gonidiospore
gonidium
gonif
gonifs
gonimic
goninium
gonimoblast
gonimolobe
gonimous
goninidia
goniocraniometry
goniometer
goodbyes
goodbys
goodeniaceous
gooder
gooders
goodhap
goodhearted
goodheartedly
goodheartedness
goodhumoredness
goodie
goodies
gooding
goodish
goodishness
goodless
goodlier
goodliest
goodlihead
goodlike
goodliness
goodly
goodman
goodmanship
goodmen
goodnaturedness
goodness
goodnesses
goodnight
goodrich
goods
goodship
goodsire
goodsome
goodtemperedness
goodwife
goodwilies
goodwill
goodwilled
goodwillie
goodwillies
goodwillit
goodwills
goodwilly
goodwily
goodwives
goody
goody's
goops
goopy
gooral
goorals
gooranut
gooroo
goos
goosander
goose
goosebeak
gooseberries
gooseberry
goosebill
goosebird
goosebone
gooseboy
goosecap
goosed
goosefish
goosefishes
gooseflesh
gooseflower
goosefoot
goosefoots
goosegirl
goosegog
goosegrass
gooseherd
goosehouse
gooselike
gooseliver
goosemouth
gooseneck
goosenecked
goosepimply
gooseries
gooserumped
goosery
gooses
gooseskin
goosetongue
gooseweed
goosewing
goosewinged
goosey
goosier
goosiest
goosing
goosish
goosishly
goosishness
goosy
gootee
goozle
gopak
gopher
gopherberries
gopherberry
gopherman
gopherroot
gophers
gopherwood
gopura
gor
gora
goracco
goral
gorical
gorals
goran
gorb
goral
gorbellied
gorbellies
gorbelly
gorbet
gorbit
gorble
gorblimey
gorblimy
gorblin
gorce
gorcock
gorcocks
gorcrow
gordiacean
gordiaceous
gordian
gordiid
gordioid
gordolobo
gordunite
gore
gorebill
gored
gorefish
grame
gramenite
gramercies
gramercy
gramericin
graminaceous
gramineal
gramineous
gramineousness
graminiculous
graminiferous
graminifolious
graminiform
graminin
graminivore
graminivorous
graminological
graminology
graminous
gramma
grammalogue
grammar
grammar's
grammatician
grammarianism
grammarians
grammarless
grammars
grammates
grammatic
grammatical
grammaticality
grammatically
grammaticalness
grammaticaster
grammatication
grammaticism
grammaticize
grammatics
grammatist
grammatistical
grammatite
grammatolator
grammatolatry
grammatology
gramme
grammel
grammes
grammies
grammy
gramanches
gramophone
gramophones
gramophonic
gramophonical
gramophonically
gramophonist
gramp
grampa
gramper
gramps
grampus
grampuses
grams
gramy
grana
granada
granadilla
granadillo
granado
granage
granam
granaries
granary
granary's
granat
granate
granatite
granatum
granch
grand
grandad
grandada
grandaddy
grandads
grandam
grandame
grandames
grandams
grandaunt
grandaunts
grandbaby
grandchild
grandchildren
granddad
granddada
granddaddies
granddaddy
granddads
granddam
granddaughter
granddaughterly
granddaughters
grande
grandee
grandeeism
grandees
grandeeship
grander
grandesque
grandest
grandeur
grandeurs
grandeval
grandevity
grandevous
grandezza
grandezza
grandfather
grandfather's
grandfatherhood
grandfatherish
grandfatherless
grandfatherly
grandfathers
grandfathership
grandfer
grandfilial
grandgore
grandiflora
grandiloquence
grandiloquent
grandiloquently
grandiloquous
grandiose
grandiosely
grandioseness
grandiosity
grandioso
grandisonant
grandisonian
grandisonous
grandity
grandly
grannom
granny
grannybush
grannyknot
gano
ganoblastic
ganodiorite
ganodioritic
ganogabbro
ganola
ganolite
ganolith
ganolithic
ganomerite
ganophyre
ganophytic
ganose
ganospherite
grant
grantable
granted
grantedly
grantee
grantees
grant
grant
granters
granthi
granting
grantor
grantors
grants
grantsman
grantsmanship
grantsmen
granula
granular
granularity
granularly
granulary
granulate
granulated
granulater
granulates
granulating
granulation
granulations
granulative
granulator
graphologists
graphology
graphomania
graphomaniac
graphomaniacal
graphometer
graphometric
graphometrical
graphometrist
graphometry
graphomotor
graphonomy
graphophobia
graphophone
graphophonic
graphorrhrea
graphoscope
graphospasm
graphostatic
graphostatistical
graphostatics
graphotype
graphotypic
graphs
graphy
grapier
grapiest
graping
graplin
grapline
graplines
graplings
grapnel
grapnels
grappa
grappas
grapple
grappled
grapplement
grappler
grapplers
grapples
grappling
grapsoid
graptolite
graptolitic
graptomancy
grapy
gras
grasni
grasp
graspable
grasped
grasper
graspers
grasping
graspingly
graspingness
graspless
grasps
grass
grassant
grassation
grassbird
grasschat
grasscut
grasscutter
grassed
grasser
grasserie
grassers
grasses
graset
grasseye
grassfinch
grassfire
grassflat
grassflower
grasshock
grasshop
grasshopper
grasshopperdom
grasshopperish
grasshoppers
grasshouse
grassie
grassier
grassiest
grassily
grassiness
grassing
grassland
grasslands
grassless
grasslike
grassman
grassmen
gassnut
gassplat
gassplot
gassquit
gassroots
gasswards
gassweed
gasswidow
gasswidnowhood
gasswork
gassworm
gassy
grat
grata
gratae
grate
grated
grateful
gratefuller
gratefullest
gratefully
gratefulness
grateless
gratelike
grateman
grat
graters
grates
gratewise
grather
gratia
gratias
graticulate
gratication
gratificable
gratification
gratifications
gratified
gratifiedly
gratifier
gratifies
gratify
gratifying
gratifyingly
gratility
gratillity
graveclod
gravecloth
graveclothes
graved
gravedigger
gravediggers
gravedo
gravegarth
gravel
graveldiver
graveled
graveless
gravelike
graveling
gravelish
gravelled
gravelliness
gravelling
gravelly
gravelous
gravelroot
gravel
gravelstone
gravelweed
gravely
gravemaker
gravemaking
graveman
gravemaster
graven
graveness
graveolence
graveolency
graveolent
graver
graverobber
graverobbing
gravers
gravery
graves
graveship
graveside
gravest
gravestead
gravestone
gravestones
gravette
graveward
grazie
grazer
grazierdom
grazier
grazing
grazingly
grazings
grazioso
gre
greable
greably
grease
greaseball
greasebush
greased
greasehorn
greaseless
greaselessness
greasepaint
greaseproof
greaseproofness
greaser
greasers
greases
greasewood
greasier
greasiest
greasily
greasiness
greasing
greasy
great
greatcoat
greatcoated
greatcoats
greaten
greatened
greatening
greatens
greater
greatest
greathead
greatheart
greathearted
greatheartedly
greatheartedness
greatish
greatly
greatmouthed
greatness
greats
greave
greaved
greaves
grebe
grebes
grecale
greece
grecian
grecianize
grecians
grecing
grecism
grecize
grecized
grecizes
grecizing
greco
grecoue
grecque
gree
greece
greed
greedier
greediest
greedily
greediness
greedless
greeds
greedsome
greedy
greedygut
greedyguts
greegree
greegres
greeging
greek
greek's
greekish
greekize
greekling
greeks
green
greenable
greenage
greenings
greenish
greenishness
greenkeeper
greenkeeping
greenland
greenlandite
greenleaf
greenleek
greenless
greenlet
greenlets
greenling
greenly
greenness
greenockite
greenovite
greenroom
greenrooms
greens
greensand
greensauce
greenshank
greensick
greensickness
greenside
greenskeeper
greenslade
greenstick
greenstone
greenstuff
greensward
greenswarded
greentail
greenth
greenths
greenthumbed
greenuk
greenware
greenwax
greenweed
greenwich
greenwing
greenwithe
greenwood
greenwoods
greenwort
greency
griffe
griffes
griffin
griffimage
griffinesque
giffinhood
griﬃnish
griﬃnism
griffins
grifﬁthite
grifﬁon
griﬀonage
grifﬁonne
griﬀons
griffs
grift
grifted
grifter
grifters
griftings
grifts
grig
grieggles
grignet
grigri
griﬃris
grigs
grihastha
grihyasutra
grike
grii
grillade
grilladed
griﬄades
grillading
griﬄage
griﬄages
grille
grilled
griﬄee
griﬄer
griﬄers
grilles
grﬄework
grilling
grﬄroom
grills
grﬄwork
grisly
grison
grisons
grisounite
grisoutine
grisping
grissen
grissens
grisset
grissons
grist
gristbite
grister
gristle
gristles
gristlier
gristliest
gristliness
gristly
gristmill
gristmiller
gristmilling
grists
gristy
grit
grit's
grith
gritbreach
gritman
griths
gritless
gritrock
grits
gritstone
gritten
gritter
grittie
grittier
grittiiest
grittily
grittiness
gritting
gritticle
gritty
grivation
grivet
grivets
grouching
grouchingly
groucho
grouchy
grouf
grough
ground
groundable
groundably
groundage
groundberry
groundbird
groundbreaker
grounded
groundedly
groundedness
grounden
groundenell
grounder
grounders
groundflower
groundhog
grounding
groundkeeper
groundless
groundlessly
groundlessness
groundline
groundliness
groundling
groundlings
groundly
groundman
groundmass
groundneedle
groundnut
groundout
groundplot
grounds
groundsel
groundsheet
groundsill
groundskeep
groundskeeping
groundsman
groundspeed
groundswell
groundswells
groundwall
groundward
groundwards
groundwater
groundwave
groundway
groundwood
groundwork
groundy
group
groupable
groupage
groupageness
grouped
grouper
groupers
groupie
groupies
grouping
groupings
groupist
grouplet
groupment
groupoid
groupoids
groups
groupthink
groupwise
grouse
grouseberry
groused
grouseless
grouselike
grouser
grouser
grouses
grouseward
grousewards
grousing
grousy
groat
gouted
grout
grouters
grouthead
groutier
groutiest
grouting
grown
grownup
grownup's
grownups
grows
growse
growsome
growth
growthful
growthiness
growthless
growths
growthly
growze
groyne
groynes
grozart
grozer
grozet
gr
grs
grub
grub's
grubbed
grubber
grubberies
grubbers
grubbery
grubbier
grubbies
grubbiest
grubbily
grubbiness
grubbing
grubble
grubby
grubhood
grubless
grubroot
grubs
grubstake
grubstaked
grubstaker
grubstakes
grubstaking
grubstreet
grubworm
grubworms
grumping
grumpish
grumpishness
grumps
grumpy
grun
grunch
grundel
grundsil
grundy
grunerite
gruneritization
grangier
grangiest
grangy
grunion
grunions
grunswel
grunt
grunted
grunter
grunters
grunting
gruntingly
gruntle
gruntled
gruntles
grunting
grunts
grunzie
gruppetto
gruppo
grush
grushie
grass
grutch
grutched
grutches
grutching
grutten
gruyere
gruys
grx
gry
gryde
gryle
grylli
gryllid
guaiasanol
guaiacan
guaiocum
guaiocums
guaiol
guajillo
guajira
guajiras
guaka
guam
guama
guamachil
guamuchil
guan
guana
guanabana
guanabano
guanaco
guanacos
guanajuatite
guanamine
guanare
guanase
guanases
guanay
guanayes
guanays
guaneide
guanethidine
guango
guanidin
guanidine
guanidins
guanidopropionic
guaniferous
guanin
guanine
guanines
guanins
guanize
guano
guanophore
guanos
guanosine
guans
guanyl
guanylic
guao
guapena
guapilla
guapinol
guar
guara
guarabu
guaracha
guarachas
guarache
guaraguao
guarana
guarand
guarani
guaranies
guaranin
guaranine
guaranis
guarantee
guaranteed
guaranteeing
guaranteer
guaranteers
guarantees
guaranteeship
guaranteing
guarantied
guaranties
guarantine
guarantor
guarantors
guarantorship
guaranty
guarantying
guarapo
guarapucu
guard
guardable
guardage
guardant
guardants
guarded
guardedly
guardedness
guardee
guardeen
guarder
guarders
guardfish
guerrillas
guerrillaship
guess
guessable
guessed
guesser
guessers
guesses
guessing
guessingly
guessive
guesstimate
guesstimated
guesstimates
guesstimating
guesswork
guessworker
guest
guest's
guestchamber
guested
guesten
guester
guesthouse
guesthouses
guestimate
guestimated
guestimating
guesting
guestive
guestless
guestling
guestmaster
guests
guestship
guestwise
guetre
gufa
guff
guffaw
guffawed
guffawing
guffaws
guffer
guffin
guffs
guffy
gufought
gugal
guggle
guggled
guggles
gugglet
guggling
guglet
guglets
guglia
guglio
gugu
guhr
guic

guiana
guib
guiba
guichet
guid
guidable
guidage
guidance
guidances

guide
guideboard
guidebook
guidebook's
guidebookish
guidebooks
guidebooky
guidecraft
guided
guideless
guideline
guideline's
guidelines

guidepost
guideposts

guider
guideress
guiders

guidership

guides

guideship

guideway

guiding

guidingly

guidman

gidon
guidonian
gudons
guids
guidsire
guidwife
guidwillie
guidwilly
guige
guigne
guignol
guijo
guild
guilder
guilders
guildhall
guildic
guildite
guildry
guilds
guildship
guildsman
guildsmen
guile
guiled
guileful
guilefully
guilefulness
guileless
guilelessly
guilelessness
guiler
guillery
guiles
guiffat
guiling
guillem
guillemet
guillemot
guillevat
guilloche
guillochee
guillotinade
guillotine
guillotined
guillotinement
guillotiner
guillotines
guillotining
guillotinism
guillotinist
guilt
guiltful
guiltier
guiltiest
guiltify
guiltiness
guiltless
guiltlessly
guiltlessness
guils
guiltsick
guilty
guily
guimbard
guimpe
guimpes
guinde
guinea
guinean
guineapig
guineas
guinevere
guinfo
guinness
guipure
guipures
guirlande
guiro
guisard
guisards
guisarne
guise
guise's
guised
guiser
guises
guisian
guising
guitar
guitar's
guitarfish
guitarfishes
guitarist
guitarists
guitarlike
guitars
gunner
gunner's
gunneress
gunneries
gunners
gunnership
gunnery
gunnies
gunning
gunnings
gunnung
gunny
gunnysack
gunnysacks
gunocracy
gunong
gunpaper
gunpapers
gunplay
gunplays
gunpoint
gunpoints
gunport
gunpowder
gunpowderous
gunpowdery
gunpower
gunrack
gunreach
gunroom
gunrooms
gunrunner
gunrunning
guns
gunsel
gunsels
gunship
gunships
gunshop
gunshot
gunshots
gunsling
gunslinger
gunslingers
gunslinging
gunsman
gunsmith
gunsmithery
guttula
guttulae
guttular
guttulate
guttule
guttulous
guttur
guttural
gutturalisation
gutturalise
gutturalised
gutturalising
gutturalism
gutturality
gutturalization
gutturalize
gutturalized
gutturalizing
gutturally
gutturalness
gutturals
gutturine
gutterize
guturonasal
gutturopalatal
gutturopalatine
gutturotetany
guttus
gutty
gutweed
gutwise
gutwort
guv
guvaccine
guvacoline
guy
guyana
guydom
guyed
guyer
guyers
guying
guylne
guyot
guyots
guys
guytrash
guywire
gymnasium
gymnasium's
gymnasiums
gymnast
gymnast's
gymnastic
gymnastical
gymnastically
gymnastics
gymnasts
gymnemic
gymnetrous
gymnic
gymnical
gymnics
gymnite
gymnoblastic
gymnocarpic
gymnocarpous
gymneceratous
gymnocidium
gymnodiniaceous
gymnodont
gynmogen
gymnogene
gymnogenous
gymnoglossate
gymnogynous
gymnolaematous
gymnopaedic
gymnophiona
gymnophobia
gymnoplast
gymnorhinal
gymnosoph
gymnosophical
gymnosophist
gymnosophy
gymnosperm
gymnospermal
gymnospermic
gymnospermism
gymnospermous
gymnosperms
gymnospermy
gymnospore
gymnosporous
gymnostomous
gymnotid
gymnotokous
gymnotus
gymnure
gymnurine
gympie
gyms
gymsia
gymslip
gyn
gynaecia
gynaecium
gynaecian
gynaecic
gynaecium
gynaecocoenic
gynaecocracies
gynaecocracy
gynaecocrat
gynaecocratic
gynaecoid
gynaecol
gynaecologic
gynaecological
gynaecologist
gynaecology
gynaecomastia
gynaecomasty
gynaecomorphous
gynaecomastis
gynaecocracy
gynaeolater
gynaeatry
gynander
gynandrarchic
gynandrarchy
gynandria
gynandrian
gynandries
gynandrism
gynandroid
gynandromorph
gynandromorphic
gynandromorphism
gynandromorphous
gynandromorphy
gynandrophone
gyneolatry
gynophobia
gynethusia
gynetype
gyniatrics
gyniatries
gyniatry
gynic
gynics
gyniolatry
gynobase
gynobaseous
gynobasic
gynocardia
gynocardic
gynocracy
gynocratic
gynodioecious
gynodioeciously
gynodioecism
gynoecia
gynoecium
gynoeciumcia
gynogenesis
gynogenetic
gynomonecious
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gynopara
gynophagite
gynophore
gynorphic
gynosporangium
gynosporangium
gynosporangium
gynosporangium
gynomonoecious
gynomonoeciously
gynomonoecism
gypping
gyps
gypseian
gypseous
gypsied
gypsies
gypsiferous
gypsine
gypsiologist
gysite
gypsography
gysologist
gysoology
gypsophila
gypsophilous
gypsophily
gypsoplast
gypsous
gyster
gypsum
gypsumed
gypsuming
gypsums
gypsy
gypsy's
gypsydom
gypsydoms
gypsyesque
gypsyfy
gypsyhead
gypsyhood
gypsying
gypsyish
gypsyism
gypsyisms
gypsylike
gypsyry
gypsyweed
gypsywise
gypsywort
gyral
gyrally
gyrant
gyrated
gyrates
gyrating
gyration
gyropilot
gyroplane
gyros
gyroscope
gyroscope's
gyrosopes
gyroscopic
gyroscopically
gyroscopics
gyrose
gyrostabilized
gyrostabilizer
gyrostat
gyrostatic
gyrostatically
gyrostatics
gyrostats
gyrosyn
gyrous
gyrovagi
gyrovague
gyrovagues
gyrowheel
gyrus
gyse
gyte
gytling
gytrash
gyttja
gyve
gyved
gyves
gyving
h
h'm
h's
ha
ha'
ha'nt
ha'p'orth
ha'pennies
ha'penny
haab
haaf
haafs
haak
haar
haars
hab
habaera
habakkuk
habanera
habaneras
habble
habbub
habdalahl
habdalahlhs
habeas
habena
habenal
habenar
habendum
habenula
habenulae
habenular
haberdash
haberdasher
haberdasheress
haberdasheries
haberdashers
haberdashery
haberdine
habere
habergeon
habet
habitable
habilant
habilitatory
habile
habilement
habiliment
habilimental
habilimentary
habilimentation
habilimented
habiliments
habilitate
habilitated
habilitating
habilitation
habilitator
hability
habille
habit
habit's
habitability
habitable
habitableness
habitably
habitacle
habitacule
habitally
habitant
habitance
habitancies
habitancy
habitans
habitant
habitants
habitat
habitat's
habitatal
habitate
habitatio
habitation
habitation's
habitational
habitations
habitative
habitator
habitats
habited
habiting
habits
habitual
habituality
habitualize
habitually
habitualness
habituate
habituated
habituates
habituating
habituation
habituations
habitude
habitudes
habitdinal
habitue
habitues
habiture
habitus
hable
habnab
haboob
haboub
habronemiasis
habronemic
habrowne
habsburg
habu
habub
habuka
habus
habutae
habutai
habutaye
haccucal
hacek
haceks
hacendado
hache
hachis
hachment
hacht
hachure
hachured
hachures
hachuring
hacienda
haciendado
haciendas
hack
hackamatak
hackamore
hackbarrow
hackberries
hackberry
hackbolt
hackbush
hackbut
hackbuteer
hackbuts
hackbutter
hackdriver
hacked
hackee
hackeem
hackees
hacker
hackeries
hackers
hadal
hadarim
hadaway
hadbot
hadbote
hadden
hadder
haddest
haddie
haddin
hadoo
haddock
haddocker
haddocks
hade
haded
hadentomoid
hadeophobia
hades
hading
hadit
hadith
hadiths
hadj
hadjee
hadjees
hadjes
hadji
hadjis
hadland
hadn't
hadnt
hadrom
hadrome
hadromycosis
hadron
hadronic
hadrons
hadrosaur
hadrosaurus
hadst
hae
haec
haecceities
haecceity
haed
haeing
haem
haematologist
haematology
haematolysis
haematoma
haematomas
haematomata
haematometer
haematophiline
haematophyte
haematopoiesis
haematopoietic
haematorrhachis
haematosepsis
haematosin
haematosis
haematothermal
haematoxylic
haematoxylin
haematoxylon
haematozoa
haematozoal
haematozoic
haematozoan
haematozoa
haematuria
haemic
haemin
haemins
haemoblast
haemochrome
haemocoel
haemoconcentration
haemocyanin
haemocyte
haemocytoblast
haemocytoblastic
haemocytometer
haemodialysis
haemodilution
haemodoraecous
haemodynamic
haemodynamics
haemoflagellate
haemoglobin
haemoglobinous
haemoglobinuria
haemogram
haemoid
haemolysin
haemolysis
haemolytic
haemometer
haemonchiasis
haemonchosis
haemony
haemophil
haemophile
haemophilia
haemophilic
haemopod
haemopoiesis
haemoptysis
haemorrhage
haemorrhaged
haemorrhagia
haemorrhagic
haemorrhaging
haemorrhagy
haemorrhoid
haemorrhoidal
haemorrhoidectomy
haemorrhoids
haemsporid
haemsporidian
haemostasia
haemostasis
haemostat
haemostatic
haemothorax
haemotoxic
haemotoxin
haems
haemuloid
haen
haeredes
haeremai
haeres
haes
haet
haets
haf
haff
haffat
haffet
haiduck
haik
haika
haikai
haikal
haiks
haiku
haikun
haikwan
hail
hailed
hailer
hailers
hailes
hailing
hailproof
hails
hailse
hailshot
hailstone
hailstoned
hailstones
hailstorm
hailstorms
hailweed
haily
hainsucken
hain
hain""t
hain't
hainberry
hainch
haine
hained
hair
hair's
hairball
hairballs
hairband
hairbands
hairbeard
hairbell
hairbird
hairbrain
hairbrained
hairbreadth
hairbreadths
hairbrush
hairpins
hairs
hairsbreadth
hairsbreadths
hairse
hairsplitter
hairsplitters
hairsplitting
hairspray
hairsprays
hairspring
hairsprings
hairst
hairstane
hairstone
hairstreak
hairstyle
hairstyles
hairstyling
hairstylist
hairstylists
hairtail
hairup
hairweave
hairweaver
hairweavers
hairweaving
hairweed
hairwood
hairwork
hairworks
hairworm
hairworms
hairy
hairycheested
hait
haiti
haitian
haitians
haitsai
haiver
haj
haje
hajes
haji
hajib
hajilij
hajis
hajj
hajjes
hajji
hajjis
hak
hakafoth
hakam
hakamim
hakdar
hake
hakea
hakeem
hakeems
hakenkreuz
hakes
hakim
hakims
hako
haku
hala
halacha
halachah
halachist
halaka
halakah
halakahs
halakhist
halakic
halakist
halakistic
halakists
halakoth
halal
halala
halalah
halalahs
halalas
halalcor
halapepe
halas
halation
halations
halavah
halavahs
halazone
halberd
halberdier
halberdman
halberds
halberdsman
halbert
halberts
halch
halcyon
halcyonian
halcyonic
halcyonine
halcyons
haldu
hale
halebi
halecret
haled
haleday
halely
haleness
halenesses
haler
halers
haleru
halerz
hales
halesia
halesome
halest
haleweed
half
halfa
halfback
halfbacks
halfbeak
halfbeaks
halfblood
halfcock
halfcocked
halfen
halfendeal
halfer
halfheaded
halfheated
halfheartedly
halfheartedness
halfhourly
halflang
halflife
halflin
halfling
halflings
halflives
halfly
halfman
halfmoon
halfness
halfnesses
halfpace
halfpaced
halfpence
halfpennies
halfpenny
halfpennyworth
halftime
halftimes
halftone
halftones
halftack
halfungs
halfway
halfwise
halfwit
halfword
halfwords
halfy
halibios
halibiologic
halibiologic
halibiotic
halibu
halibut
halibuter
halibuts
halichondrine
halichondroid
halicore
halicot
halid
halide
halides
halidom
halidome
halidomes
halidoms
halids
halieutic
halieutical
halieutically
halieutics
halohydrin
haloid
haloids
haloing
halolike
halolimnic
halomancy
halometer
halomorphic
halomorphism
haloperidol
halophile
halophilic
halophilism
halophilous
halophyte
halophytic
halophytism
haloragidaceous
halos
haloscope
halosere
halothane
halotrichite
haloxene
haloxylan
halp
halpace
halper
hals
halse
halsen
halser
halsfang
halt
halte
halted
halter
halterbreak
haltere
haltered
halteres
haltering
halterlike
halterproof
halters
halting
haltingly
haltingness
haltless
halts
halucket
halukkah
halurgist
halurgy
halutz
halutzim
halva
halvah
halvahs
halvaner
halvans
halvas
halve
halved
halvelings
halver
halvers
halves
halving
halwe
halyard
halyards
ham
ham's
hamacratic
hamada
hamadryad
hamadryades
hamadryads
hamadryas
hamal
hamald
hamals
hamamelidaceous
hamamelidin
hamamelin
haman
hamantasch
hamantaschen
hamantash
hamantashen
hamartia
hamartias
hamartiologist
hamartiology
hamartite
hamartophobia
hamata
hamate
hamated
hamates
hamatum
hamaul
hamauls
hamster
hambergite
hamble
hambone
hambro
hambroline
hamburg
hamburger
hamburger's
hamburgers
hamburgs
handmaid
hame
hameil
hamel
hamelt
hames
hamesoken
hamesucken
hametugs
hametz
hamewith
hamfare
hamfat
hamfatter
hamhung
hami
hamiform
hamilt
hamilton
hamiltonian
hamiltonianism
hamingja
haminoea
hamirostrate
hamite
hamitic
hamlah
hamlet
hamlet's
hamleted
hamleteer
hamletization
hamletize
hamlets
hamli
hamline
hamlinite
hammada
hammaid
hammal
hammals
hammam
hammed
hammer
hammerable
hammerbird
hammercloth
hammercloths
hammerdress
hammered
hammerer
hammerers
hammerfish
hammerhead
hammerheaded
hammerheads
hammering
hammeringly
hammerkop
hammerless
hammerlike
hammerlock
hammerlocks
hammerman
hammers
hammersmith
hammerstone
hammertoe
hammertoes
hammerwise
hammerwork
hammerwort
hammier
hammiest
hammily
hamminess
handcrafted
handcrafting
handcraftman
handcrafts
handcraftsmen
handcuff
handcuffed
handcuffing
handcuffs
handed
handedly
handedness
handel
hander
handsome
handfast
handfasted
handfasting
handfastly
handfastness
handfasts
handfeed
handfish
handflag
handflower
handful
handfuls
handgallop
handgrasp
handgravure
handgrip
handgriping
handgrips
handgun
handguns
handhaving
handhold
handholds
handhole
handicap
handicap's
handicapped
handicapper
handicappers
handicapping
handicaps
handicraft
handicrafter
handicrafts
handicraftship
handicraftsman
handicraftsmanship
handicraftsmen
handicraftswoman
handicuff
handier
handiest
handily
handiness
handing
handiron
handistroke
handiwork
handjar
handkercher
handkerchief
handkerchief's
handkerchiefful
handkerchiefs
handkerchieves
handlaid
handle
handleable
handlebar
handlebars
handled
handleless
handler
handlers
handles
handless
handlike
handline
handling
handlings
handlist
handlists
handload
handloader
handloading
handlock
handloom
handloomed
handlooms
handmade
handmaid
handshaking
handsled
handsmooth
handsome
handsomeish
handsomely
handsomeness
handsomer
handsomest
handspade
handspan
handspec
handspike
handspoke
handspring
handsprings
handstaff
handstand
handstands
handstone
handstroke
handtrap
handwaled
handwaving
handwear
handweaving
handwheel
handwhile
handwork
handworked
handworker
handworkman
handworks
handworm
handwoven
handwrist
handwrit
handwrite
handwrites
handwriting
handwritings
handwrote
handwrought
handy
handybillies
handybilly
handyblow
hanselling
hansels
hansenosis
hances
hansgrave
hansom
hansomcab
hansomcs
hant
hanted
hanting
hantle
hantles
hants
hanukkah
hanuman
hanumans
hao
haoles
haoma
haori
haoris
hap
hapalote
hapax
hapaxanthous
hapaxes
hapchance
haphazard
haphazardly
haphazardness
haphazardry
hapophobias
haphtarah
hapiton
hapless
haplessly
haplessness
haplithes
haplite
haplites
haplitical
haplobiont
haplobiontic
haplocaulescent
haplochlamydeous
haplodont
haplodonty
haplography
haploid
haploidy
haploidy
haploid
haploidic
haploidies
haploids
haploidy
haplolaly
haplologic
haplology
haploma
haplome
haplomid
haplomitis
haplomous
haplont
haplontic
haplonts
haploperistomic
haploperistomous
haplopetalous
haplophase
haplophyte
haplophia
haplopias
haploscope
haploscopic
haploses
haplosis
haploscope
haplostemonous
haplotype
haply
happed
happen
happenchance
happened
happening
happenings
happens
happenstance
happer
happier
happiest
happify
happiless
happily
happiness
happing
happy
haps
hapsburg
hapten
haptene
haptenes
haptenic
haptnes
haptera
haptere
hapteron
haptic
haptical
haptics
haptoglobin
haptometer
haptophobia
haptophor
haptophobic
haptorphorous
haptor
haptotropic
haptotropically
haptotropism
hapu
hapuku
haquebut
haqueton
harace
harakeke
haraiki
haram
harambee
harang
harangue
haranged
harangeful
haranguer
haranguers
harangues
haranguing
haras
harass
harassable
harassed
harassedly
harasser
harassers
harasses
hardberry
hardboard
hardboiled
hardboot
hardboots
hardbought
hardbound
hardcase
hardcopy
hardcore
hardcover
hardcovered
hardcovers
harden
hardenability
hardenable
hardened
hardenedness
hardener
hardeners
hardening
hardenite
hardens
harder
harderian
hardest
hardfern
hardfist
hardfisted
hardfistedness
hardhack
hardhacks
hardhanded
hardhandedness
hardhat
hardhats
hardhead
hardheaded
hardheadedly
hardheadedness
hardheads
hardhearted
hardheartedly
hardheartedness
hardhewer
hardie
hardier
hardies
hardyhead
hardystonite
hare
hare's
harebell
harebells
harebottle
harebrain
harebrained
harebrainedly
harebrainedness
harebur
hared
hareem
hareems
harefoot
harefooted
harehearted
harehound
harel
harelke
harelip
harelipped
harelips
harem
haremism
haremlik
harems
harengiform
harenut
hares
harewood
harfang
hariana
harianas
harico
haricot
haricots
harier
hariffe
harigalds
harijan
harijans
harikari
harim
haring
hariolate
hariolation
hariolize
harish
hark
harka
harked
harkee
harken
harkened
harkener
harkeners
harkening
harkens
harking
harks
harl
harle
harled
harleian
harlem
harlequin
harlequina
harlequinade
harlequinery
harlequinesque
harlequinic
harlequinism
harlequinize
harlequins
harling
harlock
harlot
harlot's
harlotries
harlotry
harlots
harls
harm
harmal
harmala
harmalin
harmaline
harman
harmattan
harmed
harmel
harmer
harmers
harmful
harpoon
harpooned
harpooneer
harpooner
harpooners
harpooning
harpoonlike
harpoons
harpess
harps
harpsical
harpsichon
harpsichord
harpsichordist
harpsichords
harpula
harpwaytuning
harpwise
harpy
harpylike
harquebus
harquebusade
harquebuse
harquebuses
harquebusier
harquebuss
harr
harrage
harrateen
harre
harrid
harridan
harridans
harried
harrier
harriers
harries
harriet
harris
harrisite
harrison
harrovian
harrow
harrowed
harrower
harrowers
harrowing
harrowingly
harrowingness
harrowment
harrows
harrowtry
harrumph
harrumphed
harrumphing
harrumphs
harry
harrycane
harrying
harsh
harshen
harshened
harshening
harshens
harsher
harshest
harshish
harshlet
harshlets
harshly
harshness
harshweed
harslet
harslets
harst
harstigite
harstrang
harstrong
hart
hartail
hartake
hartal
hartall
hartals
hartberry
hartebeest
hartebeests
harten
hartford
hartin
hartite
hartleian
hartly
harts
hartshorn
hartstongue
hartite
hartwort
haruspex
haruspical
haruspicate
haruspication
haruspice
haruspices
haruspicy
harvard
harvest
harvestable
harvestbug
harvested
harvester
harvesters
harvestfish
harvestfishes
harvesting
harvestless
harvestman
harvestmen
harvestry
harvests
harvesttime
harvey
harynges
harzburgite
has
hasan
hasard
hasenpfeffer
hash
hashab
hashabi
hashed
hasheesh
hasheeshes
hasher
hashery
hashes
hashhead
hashheads
hashimite
hashing
hashish
hashishes
hasht
hastefully
hasteless
hastelessness
hasten
hastened
hastener
hasteners
hastening
hastens
hasteproof
haster
hastes
hastier
hastieth
hastif
hastifly
hastifness
hastifolate
hastiform
hastile
hastilude
hastily
hastiness
hasting
hastings
hastingsite
hastish
hastive
hastler
hastula
hasty
hat
hat's
hatable
hatband
hatbands
hatbox
hatboxes
hatbrim
hatbrush
hatch
hatchability
hatchable
hatchback
hatchbacks
hatcheck
hatched
hatchel
hatemongering
hater
haters
hates
hatful
hatfuls
hath
hatherlite
hathi
hathpace
hating
hatless
hatlessness
hatlike
hatmaker
hatmakers
hatmaking
hatpin
hatpins
hatrack
hatracks
hatrail
hatred
hatreds
hatress
hats
hatsful
hatstand
hatt
hatte
hatted
hatter
hatteria
hatterias
hatters
hattery
hatti
hatting
hattock
hatty
hau
haubergeon
hauberget
hauberks
haubers
hauberticum
haubois
hauchecornite
hauerite
hauflin
haug
haughland
haughs
haught
haughtier
haughtiest
haughtily
haughtiness
haughtly
haughtness
haughtonite
haughty
haul
haulabout
haulage
haulages
haulageway
haulaway
haulback
hauld
hauled
hauler
haulers
haulier
hauliers
hauling
haulm
haulmier
haulmiest
haulms
haulmy
hauls
haulse
haulster
hault
haulyard
haulyards
haum
haunce
haunch
haunch's
haunched
hauncher
haunches
haunching
haunchless
haunchy
haunt
haunted
haunter
haunters
haunting
hauntingly
haunts
haunty
haupia
hauriant
haurient
hausa
hause
hausen
hausens
hausfrau
hausfrauen
hausfraus
hausmannite
hausse
haussmannize
haust
haustella
haustellate
haustellated
haustellous
haustellum
haustement
haustoria
haustorial
haustorium
hastral
haustrum
haustus
haut
hautain
hautbois
hautboy
hautboyist
hautboys
haute
hautein
hautesse
hauteur
hauteurs
hauyne
haunynte
headload
headlock
headlocks
headlong
headlongly
headlongness
headlongs
headlongwise
headly
headman
headmark
headmaster
headmasterly
headmasters
headmastership
headmen
headmistress
headmistresses
headmistressship
headmold
headmost
headmould
headnote
headnotes
headpenny
headphone
headphones
headpiece
headpieces
headpin
headpins
headplate
headpost
headquarter
headquartered
headquartering
headquarters
headrace
headraces
headrail
headreach
headrent
headrest
headrests
headrig
headright
headring
headroom
headrooms
headrope
heads
headsail
headsails
headsaw
headscarf
headset
headsets
headshake
headshaker
headsheet
headsheets
headship
headships
headshrinker
headslill
headskin
headsman
headsman
headsman
headspace
headspring
headsquare
headstall
headstalls
headstand
headstands
headstay
headstays
headstick
headstock
headstone
headstones
headstream
headstrong
headstrongly
headstrongness
headtire
headwaiter
headwaiters
headwall
headward
headwards
headwark
headwater
headwaters
headway
headways
heaps
heapstead
heapy
hear
hearable
heard
hearer
hearers
hearing
hearingless
hearings
hearken
hearkened
hearkener
hearkening
hearkens
hears
hearsay
hearsays
hearse
hearsecloth
hearsed
hearselike
hearses
hearsing
heast
heart
heartache
heartaches
heartaching
heartbeat
heartbeats
heartbird
heartblock
heartblood
heartbreak
heartbreaker
heartbreaking
heartbreakingly
heartbreaks
heartbroke
heartbroken
heartbrokenly
heartbrokenness
heartburn
heartburning
heartburns
heartdeep
heathbird
heathbrd
heathen
heathendom
heatheness
heathenesse
heathenhood
heathenise
heathenised
heathenish
heathenishly
heathenishness
heathenising
heathenism
heathenist
heathenize
heathenized
heathenizing
heathenly
heathenness
heathenry
heathens
heathenship
heather
heathered
heatheriness
heathers
heathery
heathfowl
heathier
heathiest
heatless
heathlike
heathrman
heaths
heathwort
heathy
heating
heatingly
heatless
heatlike
heatmaker
heatmaking
heatproof
heatronic
heats
heatsman
heatstroke
hebraizes
hebraizing
hebrew
hebrews
hebrician
hebridean
hebronite
hecastotheism
hecate
hecatomb
hecatombed
hecatombs
hecatomped
hecatompedon
hecatonstylon
hecatontarchy
hecatontome
hecatophyllous
hechsmhaer
hecco
hectkaerre
hech
hechsher
hechsherim
hechshers
hecht
heck
heckphone
heckimal
heckle
heckled
heckler
hecklers
heckles
heckling
hecks
hectar
hectare
hectares
hecte
hectic
hectical
hectically
hecticly
hecticness
hective
hectocotyl
hectocotyle
hedonology
hedonophobia
hedriophthalmous
hedrocele
hedrumite
hedyphanie
hee
heed
heeded
heeder
heeders
heedful
heedfully
heedfulness
heedily
heediness
heeding
heedless
heedlessly
heedlessness
heeds
heedy
heehaw
heehawed
heehawing
heehaws
heel
heelball
heelballs
heelband
heelcap
heeled
heeler
heelers
heelgrip
heeling
heelings
heelless
heelmaker
heelmaking
heelpath
heelpiece
heelplate
heelpost
heelposts
heelprint
heels
heelstrap
heeltap
heeltaps
heelTree
heelwork
heemraad
heemraat
heep
heer
heezed
heezes
heeze
heezy
heft
hefted
hefter
hefters
heftier
heftiest
heftily
heftiness
hefting
hefts
hefty
hegari
hegaris
hegelian
hegelianism
hegemon
hegemonic
hegemonical
hegemonies
hegemonist
hegemonistic
hegemonizer
hegemony
hegira
hegiras
hegumen
hegumene
hegumenes
hegumeness
hegumenies
hegumenos
hegumens
hegumeny
heh
helicorubin
helicotrema
helictite
helide
helidrome
heling
helio
heliocentric
heliocentrical
heliocentrically
heliocentricism
heliocentricity
heliochrome
heliochromic
heliochromoscope
heliochromotype
heliochromy
helioculture
heliodon
heliodor
helioelectric
helioengraving
heliofugal
heliogram
heliograph
heliographer
heliographic
heliographical
heliographically
heliographs
heliography
heliogravure
heliod
heliolater
heliolator
heliolatrous
heliolatry
heliolite
heliolithic
heliological
heliologist
heliology
heliometer
heliometric
heliometrical
heliometrically
heliometry
heliomicrometer
helispheric
helispherical
helistop
helistops
helium
heliums
helix
helixes
helixin
helizitic
hell
hell's
hellandite
hellanodic
hellbender
hellbent
hellbore
hellborn
hellbox
hellboxes
hellbred
hellbroth
hellcat
hellcats
helldiver
helldog
helleboraceous
helleboraster
hellebore
helleborein
hellebores
helleboric
helleborin
helleborine
helleborism
helled
hellene
hellenes
hellenian
hellenic
hellenism
hellenist
hellenistic
hellenists
hellenization
hellenize
heller
helleri
helmetlike
helmetmaker
helmetmaking
helmetpod
helmets
helming
helminth
helminthagogic
helminthagogue
helminthiasis
helminthic
helminthism
helminthite
helminthoid
helminthologic
helminthological
helminthologist
helminthology
helminthophobia
helminthosporiose
helminthosporoid
helminthous
helminths
helmless
helms
helmsman
helmsmanship
helmsmen
helobious
heloderm
helodermatoid
helodermatous
helodes
heloe
heloma
helonin
helosis
helot
helotage
helotages
helotism
helotisms
helotize
helotomy
helotries
helotry
helots
help
hemadrometer
hemadrometry
hemadromograph
hemadromometer
hemadynameter
hemodynamic
hemodynamics
hemodynamometer
hemafibrite
hemagglutinate
hemagglutinated
hemagglutinating
hemagglutination
hemagglutinative
hemagglutinin
hemagog
hemagogic
hemagogs
hemagogue
hemal
hemalbumen
hemameba
hemamoeba
heman
hemanalysis
hemangioma
hemangiomas
hemangiomata
hemangiomatosis
hemangiosarcoma
hemaphein
hemaphobia
hemapod
hemapodous
hemapoiesis
hemapoietic
hemapophyseal
hemapophysial
hemapophysis
hemarthrosis
hemase
hemaspectroscope
hemastatics
hematachometer
hematachometry
hematal
hematein
hemateins
hematemesis
hematemetic
hematencephalon
hematherapy
hematherm
hemathermal
hemathermous
hemathidrosis
hematic
hematics
hematid
hematidrosis
hematimeter
hematin
hematine
hematines
hematinic
hematinometer
hematinometric
hematins
hematinuria
hematite
hematites
hematitic
hematobic
hematobious
hematobium
hematoblast
hematoblastic
hematobranchiate
hematocatharsis
hematocathartic
hematocele
hematochezia
hematochrome
hematochlurya
hematoclasis
hematoclastia
hematoclasia
hematocolpus
hematocrit
hematoesmat
hematocryal
hematocyst
hematocystin
hematocyte
hematocytoblast
hematocytogenesis
hematocytometer
hematocytotripsis
hematocytozoon
hematocyturia
hematodynamics
hematodynamometer
hematodystrophy
hematogen
hematogenesis
hematogenetic
hematogenic
hematogenous
hematoglobulin
hematography
hematohidrosis
hematoid
hematoidin
hematoids
hematolin
hematolite
hematologic
hematological
hematologies
hematologist
hematologists
hematology
hematolymphangioma
hematolysis
hematolytic
hematoma
hematomancy
hematomas
hematomata
hematometer
hematometra
hematometry
hematophalocoele
hematomyelia
hematomyelitis
hematonephrosis
hematonic
hematopathology
hematopericardium
hematopexis
hematophagous
hematophobia
hematophyte
hematoplast
hematoplastic
hematopoiesis
hematopoietic
hematopoietically
hematoporphyria
hematoporphyrin
hematoporphyrinuria
hematorrhachis
hematorrhea
hematosalpinx
hematoscope
hematoscopy
hematose
hematosepsis
hematosin
hematosis
hematospectrophotometer
hematospectroscope
hematospermatocyte
hematospermia
hematostibiite
hematotherapy
hematothermal
hematotherax
hemotoxic
hematoxylic
hematoxylin
hematozoa
hematozoal
hematozoan
hematozoic
hematozoon
hematozymosis
hematozymotic
hematozooa
hematuresis
hematuria
hematuric
hemautogram
hemautograph
hemautographic
hemautography
heme
hemellitene
hemellitic
hemelytra
hemelytral
hemelytron
hemelytrum
hemelytra
hemen
hemera
hemeralope
hemeralopia
hemeralopic
hemerobian
hemerocallis
hemerologium
hemerology
hemerythrin
hemes
hemiablepsia
hemiacetal
hemiachromatopsia
hemiageusia
hemiageustia
hemialbumin
hemialbumose
hemialbumosuria
hemialgia
hemiamaurosis
hemiamb
hemiamblyopia
hemiamyosthenia
hemianacusia
hemianalgesia
hemianatropous
hemianesthesia
hemianopia
hemianopic
hemianopsia
hemianoptic
hemianosmia
hemiapraxia
hemiasynergia
hemiataxia
hemiataxy
hemiathetosis
hemiatrophy
hemiauxin
hemiazygous
hemibasidium
hemibathybian
hemibenthic
hemibenthonic
hemibranch
hemibranchiate
hemic
hemicanities
hemicardia
hemicardiac
hemicarp
hemicatalepsy
hemicataleptic
hemicellulose
hemicentrum
hemicephalous
hemicerebrum
hemicolinium
hemicordate
hemicohera
hemicromatopsia
hemicircle
hemicircular
hemiclastic
hemicolli
hemicrane
hemicrania
hemicraniac
hemicrany
hemicrystalline
hemicycle
hemicyclic
hemicyclium
hemicyindrical
hemidactyl
hemidactylous
hemidemisemiquaver
hemidiapente
hemidiaphoresis
hemiditone
hemidomatic
hemidome
hemidracm
hemidysergia
hemidysesthesia
hemidystrophy
hemiektion
hemieliptic
hemielytra
hemielytural
hemielytron
hemiepes
hemiepilepsy
hemifacial
hemiform
hemigastrectomy
hemigeusia
hemiglobin
hemiglossal
hemiglossitis
hemiglyph
hemignathous
hemihdry
hemihedral
hemihedrally
hemihedric
hemihedrism
hemihedron
hemiholohedral
hemihydrate
hemihydrated
hemihydrosis
hemihypalgesia
hemihyperesthesia
hemihyperidrosis
hemihypertonia
hemihypertrophy
hemihypesthescia
hemihypoesthescia
hemihypotonia
hemikaryon
hemikaryotic
hemilaminectomy
hemilaryngectomy
hemilethargy
hemiligulate
hemilingual
hemimellitene
hemimellitic
hemimelus
hemimetabola
hemimetaboile
hemimetabolic
hemimetabolism
hemimetabolous
hemimetaboloy
hemimetamorphic
hemimetamorphosis
hemimetamorphous
hemimorph
hemimorphic
hemimorphism
hemimorphite
hemimorphy
hemin
hemina
hemine
heminee
hemineurasthenia
hemingway
hems
hemibol
hemiola
hemiolas
hemiola
hemionic
hemiparalysis
hemiparanesthesia
hemiparaplegia
hemiparasite
hemiparasitic
hemiparasitism
hemiparesis
hemiparesthesia
hemiparetic
hemipenis
hemipeptone
hemiphase
hemipic
hemipinnate
hemiplane
hemiplankton
hemiplegia
hemiplegic
hemiplegy
hemipod
hemipodan
hemipode
hemippe
hemiprism
hemiprismatic
hemiprotein
hemipter
hemitrichous
hemitriglyph
hemitropical
hemitrope
hemitropic
hemitropism
hemitropous
hemitropy
hemitype
hemitypic
hemivagotony
hemizygote
hemizygous
heml
hemline
hemlines
hemlock
hemlock's
hemlocks
hemmed
hemmel
hemmer
hemmers
hemming
hemoalkalimeter
hemoblast
hemochromatosis
hemochromatotic
hemochrome
hemochromogen
hemochromometer
hemochromometry
hemoclasis
hemoclasis
hemoclastic
hemocoel
hemocoele
hemocoelic
hemocoelom
hemocoels
hemoconcentration
hemoconia
hemoconiosis
hemocry
hemocrystallin
hemoculture
hemocyanin
hemocyte
hemocytes
hemocytoblast
hemocytoblastic
hemocytogenesis
hemocytolysis
hemocytometer
hemocytotriptis
hemocytozoan
hemocyturia
hemodia
hemodiagnosis
hemodialyses
hemodialysis
hemodialyzor
hemodilution
hemodrometer
hemodrometry
hemodromograph
hemodromometer
hemodynamometer
hemodynamic
hemodynamically
hemodynamics
hemodystrophy
hemoerythrin
hemoflagellate
hemofuscin
hemogastric
hemogenesis
hemogenetic
hemogenia
hemogenic
hemogenous
hemoglobic
hemoglobin
hemoglobinemia
hemoglobinic
hemoglobiniferous
hemoglobinocholia
hemoglobinometer
hemoglobinopathy
hemoglobinophilic
hemoglobinous
hemoglobinuria
hemoglobinuric
hemoglobinuric
hemoglobulin
hemogram
hemogregarine
hemoid
hemokonia
hemokoniosis
hemol
hemoleucocyte
hemoleucocytic
hemologist
hemology
hemolymp
hemolympathic
hemolysate
hemolysin
hemolysis
hemolytic
hemolyze
hemolyzed
hemolyzes
hemolyzing
hemomanometer
hemometer
hemometry
hemonephrosis
hemopathology
hemopathy
hemopericardidum
hemoperitoneum
hemopexis
hemophage
hemophagia
hemophagocyte
hemophagocytosis
hemophagous
hemophagy
hemophile
hemophilia
hemophilic
hemophilia
hemophilic
hemophilioid
hemophobia
hemophthalmia
hemophthisis
hemopiezometer
hemoplasmodium
hemoplastic
hemopneumothonax
hemopod
hemopoiesis
hendecasemic
hendecasyllabic
hendecasyllable
hendecatoic
hendeoic
hendecyl
hendedra
hendiadys
hendly
hendness
hendy
heneicosane
henen
henequen
henequens
henequin
henequins
henfish
heng
henge
hengest
henhawk
henhearted
henheartedness
henhouse
henhouses
henhussies
henhussy
heniquen
heniquens
henism
henlike
henmoldy
henna
hennaed
hennaing
hennas
henneries
hennery
hennes
hennin
hennish
henny
henogeny
henotheism
henotheist
henotheistic
henothic
hepaticas
hepaticoduodenostomy
hepaticoenterostomies
hepaticoenterostomy
hepaticogastrostomy
hepaticologist
hepaticology
hepaticopulmonary
hepaticostomy
hepaticotomy
hepatics
hepatisation
hepatise
hepatised
hepatising
hepatite
hepatitis
hepatization
hepatize
hepatized
hepatizes
hepatizing
hepatocele
hepatocellular
hepatocirrhosis
hepatocolic
hepatocystic
hepatocyte
hepatoduodenal
hepatoduodenostomy
hepatodynia
hepatodysentery
hepatoenteric
hepatoflavin
hepatogastric
hepatogenic
hepatogenous
hepatography
hepatoid
hepatolenticular
hepatolith
hepatolithiasis
hepatolithic
hepatological
hepatologist
hepatology
hepatolysis
hepatoesis
heptace
heptachlor
heptachord
heptachronous
heptacolic
heptacosane
heptad
heptadecane
heptadecyl
heptadic
heptads
heptaglot
heptagon
heptagonal
heptagons
heptagrid
heptagynia
heptagynous
heptahedra
heptahedral
heptahedrdra
heptahedralical
heptahedron
heptahedrons
heptahexahedral
heptahydrate
heptahydrated
heptahydrlic
heptahydroxy
heptal
heptameride
heptamerous
heptameter
heptameters
heptamethylene
heptametrical
heptanaphthene
heptandria
heptandrous
heptane
heptanes
heptangular
heptanoic
heptanone
heptapetalous
heptaphyllic
heptaploid
heptaploidy
heptapodic
heptapody
heptarch
heptarchal
heptarchic
heptarchical
heptarchies
heptarchist
heptarchs
heptarchy
heptasemic
heptasepalous
heptaspermous
heptastich
heptastrophic
heptastylar
heptastyle
heptastylos
heptasulphide
heptasyllabic
heptasyllable
heptateuch
heptatomic
heptatonic
heptavalent
heptene
hepteris
heptine
heptite
heptitol
heptode
heptoid
heptorite
heptose
heptoses
heptoxide
heptyl
heptylene
heptylic
heptyne
her
her'n
hera
heraclean
heracleid
heracleonite
heraclitean
herakles
hereditably
hereditary
hereditament
hereditaments
hereditarian
hereditarianism
hereditarily
hereditariness
hereditarist
hereditary
hereditas
hereditation
hereditative
hereditives
hereditism
hereditist
hereditivity
heredity
heredium
heredofamilial
heredolues
heredoluetic
heredosyphilis
heredosyphilitic
heredosyphilogy
heredotuberculosis
herford
herfords
herefore
herefrom
heregeld
heregild
herehence
herein
hereinabove
hereinafter
hereinbefore
hereinbelow
hereinto
herem
heremeit
herenach
hereness
hereniging
hereof
hereon
hereout
hereright
hermeticism
hermetics
hermetism
hermetist
hermi
hermidin
hermit
hermit's
hermitage
hermitages
hermitary
hermitess
hermitian
hermitic
hermitical
hermitically
hermitish
hermitism
hermitize
hermitlike
hermitries
hermitry
hermits
hermitship
hermodact
hermodactyl
hermogenian
hermogeniarun
hermoglyphic
hermoglyphist
hermokopid
herns
hern
hernandiaceous
hernanesell
hermani
hermant
herne
hernia
herniae
hernial
herniarin
herniary
hernias
herniate
herniated
herniates
herniating
herniation
herniations
hernioenterotomy
hernioid
herniology
hernioplasties
hernioplasty
herniopuncture
herniorrhaphies
herniorrhaphy
herniotome
herniotoromies
herniotomist
herniotomy
herns
hernsew
hernshaw
hero
heroarchy
herodian
herodionine
heroes
heroess
herohead
herohood
heroic
heroical
heroically
heroicalness
heroicity
heroicly
heroicness
heroicomic
heroicomical
heroics
heroid
heroify
heroin
heroine
heroine’s
heroines
heroineship
heroins
heroism
heroins
heroisms
heroistic
heroization
heroize
heroized
heroizes
heroizing
herola
herolike
heromonger
heron
heron's
heronbill
heroner
heronite
heronries
heronry
herons
heronsew
heroogony
heroologist
heroology
heros
heroship
herotheism
heroworshipper
herp
herpangina
herpes
herpeses
herpestine
herpesvirus
herpet
herpetic
herpetiform
herpetism
herpetography
herpetoid
herpetologic
herpetological
herpetologically
herpetologist
herpetologists
herpetology
herpetomonad
herpetophobia
herpetotomist
herpetotomy
herpolhode
herquein
hetaerism
hetaerist
hetaeristic
hetaerocracy
hetaerolite
hetaery
hetaira
hetairai
hetairas
hetairia
hetairic
hetairism
hetairist
hetairistic
hetairy
hetchel
hete
heteradenia
heteradenic
heterakid
heterandrous
heterandry
heteratomic
heterauxesis
heteraxial
heterecious
heteric
heterically
hetericism
hetericist
heterism
heterization
heterize
hetero
heteroagglutinin
heteroalbumose
heteroaromatic
heteroatom
heteroatomic
heteroautotrophic
heteroauxin
heteroblastic
heteroblastically
heteroblasty
heterocarpism
heterocarpous
heterocaryon
heterocaryosis
heterocaryotic
hetercaseose
heterocellular
heterocentric
heterocephalous
heterocerc
heterocercal
heterocercality
heterocercy
heterocerous
heterochiral
heterochlamydeous
heterochromatic
heterochromatin
heterochromatism
heterochromatization
heterochromatized
heterochrome
heterochromia
heterochromic
heterochromosome
heterochromous
heterochromy
heterochronic
heterochronism
heterochronistic
heterochronous
heterochrony
heterochrosis
heterochthon
heterochthonous
heteroclinal
heteroclinous
heteroclinal
heteroclital
heteroclite
heteroclitical
heteroclitic
heteroclitation
heteroclitary
heterocoealous
heterocoeleous
heterocoeleous
heterocrine
heterocyst
heterocystous
heterodont
heterodontism
heterodontoid
heterodox
heterodoxal
heterodoxical
heterodoxies
heterodoxly
heterodoxnness
heterodoxy
heterodromous
heterodromy
heterodyne
heterodyned
heterodyning
heteroeccious
heteroecciously
heteroecciousness
heteroeccism
heteroeccismal
heteroeocy
heteroeptic
heteroepy
heteroerotic
heteroerotism
heterofermentative
heterofertilization
heterogalactic
heterogamete
heterogametic
heterogametism
heterogamety
heterogamic
heterogamous
heterogamy
heterogangliate
heterogen
heterogene
heterogeneal
heterogenean
heterogeneities
heterogeneity
heterogeneous
heterogeneously
heterogeneousnss
heterogenesis
heterogenetic
heterogenetically
heterogenic
heterogenicity
heterogenisis
heterogenist
heterogenous
heterogeny
heteroglobulose
heterognath
heterogone
heterogonic
heterogonism
heterogenous
heterogonously
heterogony
heterograft
heterographic
heterographical
heterographies
heterography
heterogynal
heterogynous
heteroicous
heteroimmune
heteroinfection
heteroinoculable
heteroinoculation
heterointoxication
heterokaryon
heterokaryosis
heterokaryotic
heterokinesia
heterokinesis
heterokinetic
heterokontan
heterolalia
heterolateral
heterolecithal
heterolith
heterolobous
heterologic
heterological
heterologically
heteralogies
heterologous
heterologously
heterology
heterolysin
heterolysis
heterolytic
heteromallous
heteromastigate
heteromastigote
heteromeral
heteromeran
heteromeric
heteromerous
heteromesotrophic
heterometabole
heterometabolic
heterometabolism
heterometabolous
heterometaboly
heterometatrophic
heterometric
heteromorphic
heteromorphism
heteromorphite
heteromorphosis
heteromorphous
heteromorphy
heteromyarian
heteronereid
heteronereis
heteronomic
heteronomous
heteronomously
heteronomy
heteronuclear
heteronym
heteronymic
heteronymous
heteronymously
heteronymy
heterousia
heterousian
heterousious
heteropathic
heteropathy
heteropelmaeous
heteropetalous
heterophagous
heterophasia
heterophemism
heterophemist
heterophemistic
heterophemize
heterophemy
heterophil
heterophile
heterophilic
heterophobia
heterophonic
heterophony
heterophoria
heterophoric
heterophylesis
heterophyletic
heterophyllous
heterophyllly
heterophyly
heterophyte
heterophytic
heteroplasia
heteroplasm
heteroplastic
heteroplasties
heteroplasty
heteroploid
heteroploidy
heteropod
heteropoda
heteropodal
heteropodous
heteropolar
heteropolarity
heteropoly
heteropolysaccharide
heteroproteide
heteroproteose
heteropter
heteroptera
heteropterous
heteroptics
heteropycnosis
heteros
heteroscedasticity
heteroscleral
heteroscope
heteroscopy
heteroses
heterosex
heterosexual
heterosexualty
heterosexually
heterosexuals
heteroside
heterosis
heterosomatous
heterosome
heterosomal
heterosphere
heterosporic
heterosporous
heterospory
heterostatic
heterostemonous
heterostracan
heterostrophic
heterostrophous
heterostrogy
heterostyled
heterostylistic
heterostylic
heterostyly
heterosuggestion
heterosyllabic
heterotactic
heterotactous
heterotaxia
heterotaxic
heterotaxis
heterotaxy
heterotelic
heterotelism
heterothallic
heterothallism
heterothermal
heterothermic
heterotic
heterotopia
heterotopic
heterotopism
heterotopous
heterotomy
heterotransplant
heterotransplantation
heterotrich
heterotrichosis
heterotrichous
heterotropical
heterotrophic
heterotrophically
heterotrophy
heterotropia
heterotropic
heterotropous
heterotype
heterotypic
heterotypical
heteroxanthine
heteroxenous
heterozetesis
heterozygosis
heterozygosity
heterozygote
heterozygotes
heterozygotic
heterozygous
heterozygousness
heth
hethen
hething
heths
hetman
hetmanate
hetmans
hetmanship
hetter
hetterly
heuau
heuch
heuchs
heugh
heuchs
heuk
heulandite
heumite
heureka
heuretic
heuristic
heuristic's
heuristically
heuristics
heuvel
hevea
heved
hevi
hew
hewable
hewe
hewed
hewel
hewer
hewers
hewettite
hewgag
hewgh
hewhall
hewhole
hewing
hewn
hews
hwt
hex
hexa
hexabasic
hexabiose
hexabromid
hexabromide
hexacanth
hexacanthous
hexacapsular
hexacarbon
hexace
hexachloraphene
hexachlorethane
hexachloride
hexachlorocyclohexane
hexachloroethane
hexachlorophene
hexachord
hexachronous
hexacid
hexacolic
hexacorallan
hexacosane
hexacosihedroid
hexact
hexactinal
hexactine
hexactinellid
hexactinellidan
hexactinelline
hexactinian
hexacyclic
hexad
hexadactyle
hexadactyl
hexadactylism
hexadactylous
hexadactyly
hexadd
hexade
hexadecaayedroid
hexadecane
hexadecanoic
hexadecene
hexadecimal
hexadecyl
hexades
hexadic
hexadiene
hexadiine
hexadiyne
hexads
hexaemeric
hexaemeron
hexafluoride
hexafoil
hexaglot
hexagon
hexagonal
hexagonally
hexagonalial
hexagonical
hexagonalous
hexagons
hexagram
hexagrammoid
hexagrams
hexagyn
hexagynia
hexagynian
hexagynous
hexahedra
hexahedral
hexahedron
hexahedrons
hexahemeric
hexahemeron
hexahydrate
hexahydrated
hexahydric
hexahydride
hexahydrite
hexahydrobenzene
hexahydrothymol
hexahydroxy
hexahydroxycyclohexane
hexakisoctahedron
hexakistetrahedron
hexamer
hexameral
hexameric
hexamerism
hexameron
hexamerous
hexameter
hexameters
hexamethonium
hexamethylenamine
hexamethylene
hexamethylenetetramine
hexametral
hexametric
hexametrical
hexametrist
hexametrize
hexametrographer
hexamine
hexamines
hexamitiasis
hexammin
hexammine
hexammino
hexanal
hexanaphthene
hexandria
hexandric
hexandrous
hexandry
hexane
hexanedione
hexanes
hexangle
hexangular
hexangularly
hexanitrate
hexanitrodiphenylamine
hexapartite
hexapartite
hexaped
hexapetaloid
hexapetaloidous
hexapetalous
hexaphyllous
hexapla
hexaplar
hexaplarian
hexaplaric
hexaplas
hexaploid
hexaploidy
hexapod
hexapodal
hexapodan
hexapodic
hexapodies
hexapodous
hexapods
hexapody
hexapterous
hexaradial
hexarch
hexarchies
hexarchy
hexascha
hexaseme
hexasemical
hexasepalous
hexaspermous
hexastemonous
hexaster
hexastich
hexasticha
hexastichic
hexastichon
hexastichous
hexastichy
hexastigm
hexastylar
hexastyle
hexastylos
hexasulphide
hexasyllabic
hexasyllable
hexatetrahedron
hexateuch
hexathlon
hexahedral
hexatomic
hexatriacontane
hexatriose
hexavalent
hexaxon
hexdra
hexecontane
hexed
hexenbesen
hexene
hexer
hexerei
hexereis
hexeris
hexers
hexes
hexestrol
hexicological
hexicology
hexine
hexing
hexiological
hexiology
hexis
hexitol
hexobarbital
hexobiose
hexoctahedral
hexoctahedron
hexode
hexoestrol
hexogen
hexoic
hexokinase
hexone
hexones
hexonic
hexosamine
hexosaminic
hexosan
hexosans
hexose
hexosediphosphoric
hexosemonophosphoric
hexosephosphatase
hexosephosphoric
hexoses
hexylenes
hexpartite
hexs
hexsub
hexyl
hexylene
hexylic
hexylresorcinol
hexyls
hexyne
hey
heyday
heydays
heydegy
heydey
heydeys
heyduck
heygh
heynne
heypen
heyrat
hezekiah
hf
hg
hgmotine
ht
hgwy
hhd
hi
hia
hiant
hiatal
hiate
hiation
hiatus
hiatues
hiawatha
hibachi
hibachis
hibbin
hibernacle
hibernacula
hibernacular
hibernaculum
hibernal
hibernate
hibernated
hibernates
hibernating
hibernation
hibernator
hibernators
hiddenly
hiddenmost
hiddenness
hide
hideaway
hideaways
hidebind
hidebound
hideboundness
hided
hidegeld
hidel
hideiland
hideless
hideling
hideosity
hideous
hideously
hideousness
hideout
hideout's
hideouts
hider
hiders
hides
hiding
hidings
hilding
hidlings
hidlins
hidradenitis
hidrocystoma
hidromancy
hidropoiesis
hidropoietic
hidroses
hidrosis
hidrotic
hie
hied
hieder
hieing
hielaman
hielamen
hielamon
hieland
hiel
hielmite
hiemal
hiemate
hiemation
hiems
hiera
hieracite
hieracium
hieracosphinges
hieracosphinx
hieracosphinxes
hierapiera
hierarch
hierarchal
hierarchial
hierarchic
hierarchical
hierarchically
hierarchies
hierarchise
hierarchised
hierarchising
hierarchism
hierarchist
hierarchize
hierarchized
hierarchizing
hierarchs
hierarchy
hierarchy's
hieratic
hieratica
hieratical
hieratically
hieraticism
hieratite
hierocracies
hierocracy
hierocratic
hierocratical
hierodeacon
hierodule
hierodulic
hierogamy
hieroglyph
hieroglypher
hieroglyphic
hieroglyphical
hieroglyphically
hieroglyphics
hieroglyphist
hieroglyphize
hieroglyphologist
hieroglyphology
hieroglyphy
hierogram
hierogrammat
hierogrammate
hierogrammateus
hierogrammatic
hierogrammatical
hierogrammatist
hierograph
hierographer
hierographic
hierographical
hierography
hierolatry
hierologic
hierological
hierologist
hierology
hieromachy
hieromancy
hieromartyr
hierомнemon
hieron
hieronymian
hieronymite
hieropathic
hierophancy
hierophant
hierophantes
hierophantic
hierophantically
hierophanticly
hierophants
hierophobia
hieros
hieroscopy
hierosolymitan
hierurgical
hierurgical
hierurgies
hierurgy
hies
highhat
highhatting
highhearted
highheartedly
highheartedness
highholder
highhole
highish
highjack
highjacked
highjacker
highjacking
highjacks
highland
highlander
highlanders
highlandish
highlands
highlife
highlight
highlighted
highlighting
highlights
highline
highliving
highlow
highly
highman
highmoor
highmost
highness
highness's
highnesses
highpockets
highroad
highroads
highs
highschool
hight
hightail
hightailed
hightailing
hightails
highted
hifth
hifths
highting
hightoby
hinoid
hinoideous
hinoki
hins
hindsdalite
hint
hinted
hintedly
hinter
hinterland
hinterlander
hinterlands
hinters
hinting
hintingly
hintproof
hints
hintzeite
hiodont
hiortdahlite
hip
hip's
hipberry
hipbone
hipbones
ripe
hiper
hipflask
hiphalt
hiphape
hiphuggers
hiplength
hipless
hiplike
hipline
hipmi
hipmold
hipness
hipniness
hippalectryon
hipparch
hipparchs
hipparion
hippeastrum
hipped
hippen
hipper
hippest
hippi
hippiant
hippiater
hippiatric
hippiatrical
hippiatrics
hippiatrist
hippiatry
hippic
hippie
hippiedom
hippiehood
hippier
hippies
hippiest
hipping
hippish
hipple
hippo
hippoboscid
hippocamp
hippocampal
hippocampi
hippocampine
hippocampus
hippocastanaceous
hippocaust
hippocentaur
hippocentauric
hippocerf
hippocoprosterol
hippocras
hippocrateaceous
hippocrates
hippocratic
hippocratism
hippocrene
hippocrepian
hippocrepiform
hippodame
hippodamous
hippodrome
hippodromes
hippodromic
hippodromist
hippogastronomy
hippogriph
hippogriph
hippogryph
hippod
hippolite
hippolith
hippological
hippologist
hippology
hippolytus
hippomachy
hippomancy
hippomanes
hippomelanin
hippomenes
hippometer
hippometric
hippometry
hipponosological
hipponosology
hipponous
hippopathological
hippopathology
hippophagi
hippophagism
hippophagist
hippophagistical
hippophagous
hippophagy
hippophile
hippophobia
hippod
hippopotami
hippopotamian
hippopotamic
hippopotamine
hippopotamoid
hippopotamus
hippopotamuses
hippos
hippotigrine
hippotomical
hippotomist
hippotomy
hippotragine
hippurate
hippuria
hippuric
hippurid
hippurite
hissed
hissel
hissel
hissers
hisses
his
hisself
hisser
hisings
hiss
hisses
hissingly
hissproof
hissy
hist
histamin
histaminase
histamine
histaminergic
histamines
histaminic
histamins
histed
hister
histidin
histidine
histidins
histie
histing
histiocyte
histiocytic
histoid
histiology
histoblast
histochemical
histochemical
histochemically
histochemistry
histoclastic
histocompatibility
histocyte
histodiagnosis
histodialysis
histodialytic
histogen
histogenes
histogenesis
histogenetic
histogenetically
histogenic
histogenous
histogens
historicalness
historian
historicism
historicism
historicist
historicity
historicize
historicocabbalistical
historicocritical
historicocultural
historicodogmatic
historicogeographical
historicophilosophica
historicophysical
historicopolitical
historicoprophetic
historicoreligious
historics
historicus
historied
historier
histories
historiette
historify
historiograph
historiographer
historiographers
historiographership
historiographic
historiographical
historiographically
historiographies
historiography
historiological
historiology
historiometric
historiometry
historionomer
historious
historism
historize
history
history's
histotherapist
histotherapy
histothrombin
histotome
histotomies
histotomy
histotrophic
histotrophy
histotropic
histozoic
histozyme
histrio
histrion
histrionic
histrionical
histrionically
histrionicism
histronics
histrionism
histrionize
hists
hit
hit's
hitch
hitched
hitchel
hitcher
hitchers
hitches
hitchhike
hitchhiked
hitchhiker
hitchhikers
hitchhikes
hitchhiking
hitchier
hitchiest
hitchily
hitchiness
hitching
hitchproof
hitchy
hithe
hither
hithermost
hithertills
hitherto
hithertoward
hitherunto
hitherward
hitherwards
hitler
hitlerian
hitlerism
hitless
hits
hittable
hitter
hitter's
hitters
hitting
hittite
hive
hived
hiveless
hivelike
hiver
hives
hiveward
hiving
hiyakkin
hizz
hizzie
hl
hld
hlqn
hm
hny
ho
hoactzin
hoactzines
hoactzins
hoagie
hoagies
hoagy
hoaming
hoar
hoard
hoarded
hoarder
hoarders
hoarding
hoardings
hoards
hoardward
hoared
hoarfrost
hoarfrosts
hoarhead
hoarheaded
hoarhound
hoarier
hoariest
hoarily
hoariness
hoarish
hoarness
hoars
hoarse
hoarsely
hoarsen
hoarsened
hoarseness
hoarsening
hoarsens
hoarser
hoarser
hoarest
hoarstone
hoarwort
hoary
hoaryheaded
hoast
hoastman
hoatching
hoatzin
hoatzines
hoatzins
hoax
hoaxability
hoaxable
hoaxed
hoaxee
hoaxer
hoaxers
hoaxes
hoaxing
hoaxproof
hoazin
hob
hobbed
hobber
hobbesian
hobbet
hobbies
hobhil
hobbing
hobbinoll
hobbism
hobbit
hobble
hoboism
hoboisms
hobos
hobs
hobthrush
hoe
hocco
hoch
hochheimer
hochhuth
hock
hockamore
hocked
hockelty
hocker
hockers
hocket
hockey
hockeys
hocking
hockle
hockled
hockling
hockmoney
hocks
hockshin
hockshop
hockshops
hocktide
hocky
hocus
hocused
hocuses
hocusing
hocussed
hocusses
hocussing
hod
hodad
hodaddies
hodaddy
hodads
hodden
hoddens
hodder
hoddin
hoddins
hoddle
hogfishes
hogframe
hogg
hoggaster
hogged
hoggee
hogger
hoggerel
hoggeries
hoggers
hoggery
hogget
hoggie
hoggin
hogging
hoggins
hogghish
hoggishly
hoggishness
hoggism
hoggler
hogs
hogy
hoghead
hogherd
hoghide
hoghood
hoglike
hogling
hogmace
hogmanay
hogmanays
hogmane
hogmanes
hogmenay
hogmenays
hogmollies
hogmolly
hognose
hognoses
hognut
hognuts
hogo
hopen
hogreeve
hogrophyte
hogs
hogshead
<table>
<thead>
<tr>
<th>hoistway</th>
</tr>
</thead>
<tbody>
<tr>
<td>hoit</td>
</tr>
<tr>
<td>hoju</td>
</tr>
<tr>
<td>hoke</td>
</tr>
<tr>
<td>hoked</td>
</tr>
<tr>
<td>hoker</td>
</tr>
<tr>
<td>hokerer</td>
</tr>
<tr>
<td>hokerly</td>
</tr>
<tr>
<td>hokes</td>
</tr>
<tr>
<td>hokey</td>
</tr>
<tr>
<td>hokeyness</td>
</tr>
<tr>
<td>hokeypokey</td>
</tr>
<tr>
<td>hokier</td>
</tr>
<tr>
<td>hokiest</td>
</tr>
<tr>
<td>hoking</td>
</tr>
<tr>
<td>hokku</td>
</tr>
<tr>
<td>hokum</td>
</tr>
<tr>
<td>hokums</td>
</tr>
<tr>
<td>hokypokies</td>
</tr>
<tr>
<td>hokypoky</td>
</tr>
<tr>
<td>hol</td>
</tr>
<tr>
<td>holagogue</td>
</tr>
<tr>
<td>holandric</td>
</tr>
<tr>
<td>holandry</td>
</tr>
<tr>
<td>holarctic</td>
</tr>
<tr>
<td>holard</td>
</tr>
<tr>
<td>holards</td>
</tr>
<tr>
<td>holarthritic</td>
</tr>
<tr>
<td>holarthritis</td>
</tr>
<tr>
<td>holaspidean</td>
</tr>
<tr>
<td>holcad</td>
</tr>
<tr>
<td>holcodont</td>
</tr>
<tr>
<td>hold</td>
</tr>
<tr>
<td>holdable</td>
</tr>
<tr>
<td>holdall</td>
</tr>
<tr>
<td>holdalls</td>
</tr>
<tr>
<td>holdback</td>
</tr>
<tr>
<td>holdbacks</td>
</tr>
<tr>
<td>holden</td>
</tr>
<tr>
<td>holdenate</td>
</tr>
<tr>
<td>holder</td>
</tr>
<tr>
<td>holders</td>
</tr>
<tr>
<td>holdership</td>
</tr>
<tr>
<td>holdfast</td>
</tr>
<tr>
<td>holdfastness</td>
</tr>
<tr>
<td>holdfasts</td>
</tr>
<tr>
<td>holding</td>
</tr>
</tbody>
</table>
holism
holisms
holist
holistic
holistically
holists
holk
holked
holking
holks
holl
holla
hollaed
hollaing
hollaite
holland
hollandaise
hollander
hollanders
hollandite
hollands
hollantide
hollas
holleke
holler
hollered
hollering
hollers
hollies
hollin
holliper
hollo
holloa
holloaed
holloaing
holloas
hollock
holloed
holloes
holloing
hollong
holloo
hollooed
hollooing
holloos
hollos
hollow
holloware
holochoanitic
holochoanoid
holochoanoidal
holochordate
holochroal
holoclastic
holocrine
holocryptic
holocrystalline
holodactylic
holodedron
holoenzyme
holofernes
hologamous
hologamy
hologastrula
hologastrular
holognathous
hologonidia
hologonidium
hologoninidia
hologram
hologram's
holograms
holograph
holographic
holographical
holographically
holographies
holographs
holography
hologynic
hologynies
hologyny
holohedral
holohedric
holohedrism
holohedron
holohedry
holohemihedral
holohyaline
holoku
hololith
holomastigote
holometabola
holometabole
holometabolian
holometabolic
holometabolism
holometabolous
holometably
holometer
holomorph
holomorphic
holomorphism
holomorphosis
holomorphy
holomyarian
holoparasite
holoparasitic
holophage
holophotal
holophote
holophotometer
holophrase
holophrases
holophrasis
holophrasm
holophrastic
holophyte
holophytic
holoplankton
holoplanktonic
holoplexia
holopneustic
holoproteide
holoptic
holoptychian
holoptychiid
holoquinoid
holoquinoidal
holoquinonic
holoquinonoid
holorhinal
holosaprophyte
holosaprophytic
holoscope
holosericeous
holoside
holosiderite
holosiphanate
holosomatous
holosondaic
holostean
holosteous
holosteric
holostomate
holostomatous
holostome
holostomous
holostylic
holosymmetric
holosymmetrical
holosymmetry
holosystematic
holosystolic
holothecal
holothoracic
holothurian
holothurioic
holotonia
holotonic
holotony
holotrich
holotrichal
holotrichous
holotype
holotypes
holotypic
holour
holozoic
holp
holpen
hols
holsom
holstein
holsteins
holster
holstered
holsters
holt
holts
holw
holy
holyday
holydays
holyokeite
holystone
holystoned
holystones
holystoning
holytide
holytides
homs
homacanth
homage
homageable
homaged
homager
homagers
homages
homaging
homagium
homalogonatous
homalographic
homaloid
homaloidal
homalosternal
homard
homarine
homaroid
homatomic
homaxial
homaxional
homaxonic
hombre
hombres
homburg
homburgs
home
homebodies
homebody
homeborn
homebound
homebred
homebreds
homebrew
homebrewed
homebuild
homebuilder
homebuilders
homebuilding
homecome
homecomer
homecoming
homecomings
homecraft
homecroft
homecrofter
homecrofting
homeder
homefarer
homefarm
homefelt
homefolk
homefolks
homegoer
homeground
homegrown
homekeeper
homekeeping
homeland
homelander
homelands
homeless
homelessly
homelessness
homelet
homelier
homeliest
homelife
homelike
homelikeness
homelily
homeliness
homeling
homelovingness
homely
homelyn
homemade
homemake
homemaker
homemaker's
homemakers
homemaking
homeoblastic
homeochromatic
homeochromatism
homeochronous
homeocrystalline
homeogenic
homeogenous
homeoid
homeoidal
homeoidality
homeokinesis
homeokinetic
homeomerous
homeomorph
homeomorphic
homerology
homeroom
homerooms
homers
homes
homeseeker
homesick
homesickly
homesickness
homesite
homesites
homesome
homespun
homespuns
homestall
homestead
homesteader
homesteaders
homesteads
homester
homestretch
homestretches
hometown
hometowns
homeward
homewardly
homewards
homework
homeworker
homeworks
homewort
homey
homeyness
homiclaphobia
homicidal
homicidally
homicide
homicides
homicidious
homicidium
homiculture
homier
homiest
homiform
homilette
homiletic
homiletically
homiletics
homiliaries
homiliarium
homiliary
homilies
homilist
homilists
homilite
homilize
homily
hominal
hominem
hominess
hominesses
homing
hominian
hominians
hominid
hominidae
hominids
hominies
hominiform
hominify
hominine
hominisection
hominivorous
hominization
hominized
hominoid
hominoids
homy
homish
homishness
hommack
hommage
homme
hommock
hommocks
homo
homoanisaldehyde
homoanisic
homoarecoline
homobaric
homoblastic
homoblasty
homobront
homocarpous
homocategoric
homogen
homogenate
homogene
homogeneal
homogenealness
homogeneate
homogeneities
homogeneity
homogeneity's
homogeneization
homogeneize
homogeneous
homogeneously
homogeneousness
homogenesis
homogenetic
homogenetical
homogenetically
homogenic
homogenies
homogenization
homogenize
homogenized
homogenizer
homogenizers
homogenizes
homogenizing
homogenous
homogentisic
homogeny
homoglot
homogene
homogonies
homogonous
homogonously
homogony
homograft
homograph
homographic
homographs
homography
homohedral
homoiotherm
homoiothermal
homoiothermic
homoiothermism
homoiothermous
homoiothermy
homoiousia
homoiousian
homoiousianism
homoiousious
homolateral
homolecithal
homolegalis
homolog
homologal
homologate
homologated
homologating
homologation
homologic
homological
homologically
homologies
homologise
homologised
homologiser
homologising
homologist
homologize
homologized
homologizer
homologizing
homologon
homologoumena
homologous
homolographic
homolography
homologs
homologue
homologumena
homology
homolosine
homolysin
homolysis
homolytic
homomallous
homomeral
homomerous
homometrical
homometricaly
homomorph
homomorphic
homomorphism
homomorphism's
homomorphisms
homomorphosis
homomorphous
homomorphy
homonid
homonomous
homonomy
honuclear
homonym
homonymic
homonymies
homonymity
homonymous
homonymously
homonyms
homonymy
homoousia
homoousian
homoousianism
homoousious
homopathy
homopause
homoperiodic
homopetalous
homophene
homophenous
homophile
homophiles
homophobia
homophobic
homophone
homophones
homophonic
homophonically
homophonically
homophonous
homophony
homophthalic
homophylic
homophyllous
homophyly
homopiperonyl
homoplasis
homoplasmic
homoplasmic
homoplastic
homoplastically
homoplasy
homopolar
homopolarity
homopolic
homopolymer
homopolymerization
homopolymerize
homopter
homoptera
homopteran
homopteron
homopterous
homorganic
homos
homoscedastic
homoscedasticity
homoseismal
homosexual
homosexualism
homosexualist
homosexuality
homosexually
homosexuals
homosphere
homosporous
homospory
homostyled
homostylic
homostylistism
homostyloous
homostyly
homosystemic
homotactic
homotatic
homotaxeous
homotaxia
homotaxial
homotaxially
homotaxic
homotaxy
homothallic
homothallism
homotherm
homothermal
homothermic
homothermism
homothermous
homothermy
homothetic
homothety
homotonic
homotonous
homotonously
homotony
homotopic
homotomy
homotransplant
homotransplantation
homotropal
homotropous
homotypal
homotype
homotypic
homotypical
homotypy
homousian
homovanillic
homovanillin
homoveratric
homoveratrole
homozygosis
homozygosity
homozygote
homozygotes
homozygotic
homozygous
homozygously
homozygousness
homrai
homuncio
homuncle
homuncular
homuncule
homunculi
homunculus
homy
hon
honan
honans
honcho
honchos
hond
honda
hondas
hondo
honeyhearted
honeying
honeyless
honeylike
honeylipped
honeymonth
honeymoon
honeymooned
honeymooner
honeymooners
honeymooning
honeymoonlight
honeymoons
honeymoonshine
honeymoonstruck
honeymoony
honeymouthed
honeypod
honeypot
honeys
honeystone
honeystucker
honesuck
honesucker
honesuckle
honesuckled
honesuckles
honesweet
honeyware
honeywood
honeywort
hong
hongkong
hongs
honied
honily
honing
honiton
honk
honked
honker
honkers
honkey
honkeys
honkie
honkies
honking
honks
honky
honkytonks
honolulu
honor
honorability
honorable
honorableness
honorables
honorableship
honorably
honorance
honorand
honorands
honorararia
honoraria
honoraries
honorarily
honorarium
honorariums
honorary
honored
honoree
honorees
honorer
honorers
honoress
honourific
honorifical
honorifically
honorifics
honorifying
honorless
honorable
honourable
honourableness
honourably
honoured
honourer
honourers
honouring
honourless
honours
hont
hontish
hontous
hoo
hooch
hooches
hoochinoo
hood
hoodcap
hooded
hoodedness
hoodful
hoodie
hoodies
hooding
hoodle
hoodless
hoodlike
hoodlum
hoodlumish
hoodlumism
hoodlumize
hoodlums
hoodman
hoodmen
hoodmold
hoodoes
hoodoo
hoodooed
hoodooing
hoodooism
hoodoos
hoods
hoodsheaf
hoodshy
hoodshyness
hoodwink
hoodwinkable
hoodwinked
hoodwinker
hoodwinking
hoodwinks
hoodwise
hoodwort
hoody
hooey
hooeys
hoof
hoof's
hoofbeat
hoofbeats
hoofbound
hoofed
hoofer
hoofers
hoofiness
hoofing
hoofish
hoofless
hooflet
hooflike
hoofmark
hoofmarks
hoofprint
hoofrot
hoofs
hoofworm
hoofy
hoogaars
hook
hooka
hookah
hookahs
hookaroon
hookas
hookcheck
hooked
hookedness
hookedwise
hooker
hookerman
hookers
hooley
hooneys
hookheal
hookier
hookies
hookiest
hooking
hookish
hookland
hookless
hooklet
hooklets
hooklike
hookmaker
hookmaking
hookman
hooves
hoovey
hooye
hop
hopak
hopbind
hopbine
hopbush
hopcalite
hopcrease
hope
hoped
hopeful
hopefully
hopefulness
hopefuls
hopeite
hopeless
hopelessly
hopelessness
hoper
hopers
hopes
hophead
hopheads
hopi
hoping
hopingly
hopis
hoplite
hoplites
hoplitic
hoplitodromos
hoplology
hoplomachic
hoplomachist
hoplomachos
hoplomachy
hoplonemertean
hoplonemertine
hoplophoneus
hopoff
hopped
hopper
hopper's
hopperburn
hoppercar
hopperdozer
horologe
horologer
horologes
horologian
horologic
horological
horologically
horologies
horologistic
horologist
horologists
horologium
horologue
horology
horometrical
horometry
horopito
horopter
horopteric
horoptery
horoscopical
horoscope
horoscoper
horoscopes
horoscopic
horoscopical
horoscopist
horoscopy
horotelic
horotely
horrah
horral
horray
horrendous
horrendously
horrent
horrescent
horreum
horribleness
horrible
horribleness
horribles
horribly
horrid
horridity
horridly
hort
hortation
hortative
hortatively
hortator
hortatorily
hortatory
hortensia
hortensial
hortensian
hortesian
horticultor
horticultural
horticulturalist
horticulturally
horticulture
horticulturist
horticulturists
hortite
hortonolite
hortorium
hortulan
hortyard
hory
hosanna
hosannaed
hosannaing
hosannas
hose
hose’s
hosea
hosebird
hosecock
hosed
hosel
hoseless
hoselike
hosels
hoseman
hosen
hosepipe
hoses
hosier
hosieries
hosiers
hoisery
hosing
hosiomartyr
houndfish
houndfishes
hounding
houndish
houndlike
houndman
hounds
houndsbane
houndsberry
houndfoot
houndshark
hourney
houns kull
hou pelande
houppelande
hour
hourful
hourglass
hourglasses
houri
houris
hourless
hourlong
hourly
hours
hous age
housal
house
houseball
houseboat
houseboating
houseboats
housebote
housebound
houseboy
houseboys
housebreak
housebreaker
housebreakers
housebreaking
housebroke
housebroken
housebrokenness
housebug
housebuilder
housebuilding
housecarl
houseclean
housewife
housewives
housework
houseworker
houseworkers
housewrecker
housewright
housing
housings
houbling
houss
houston
houstonia
housty
housy
hout
houting
houtou
houvari
houve
houyhnhnrm
hove
hovedance
hovel
hovel's
hoveled
hoveler
hoveling
hovelled
hoveller
hovelling
hovels
hoven
hover
hovercar
hovercraft
hovercrafts
hovered
hoverer
hoverers
hovering
hoveringly
hoverly
hoverport
hovers
hovertrain
how
howadji
howardite
howbeit
howdah
howdahs
howder
howdie
howdies
howdy
howe
howe'er
howel
howes
however
howf
howff
howffs
howffing
howfs
howgates
howish
howitz
howitzer
howitzers
howk
howked
howker
howking
howkit
howks
howl
howled
howler
howlers
howlet
howlets
howling
howlingly
howlite
howls
hows
howsabout
howsso
howsoever
howsoever
howsour
howtowdie
hox
hoy
huddler
huddlers
huddles
huddling
huddlingly
haddock
huddroun
huddup
hudiblastic
hudson
hudsonia
hudsonite
hue
hue's
hued
hueful
huehuetl
hueless
huelessness
huemul
huer
huerta
hues
huff
huffaker
huffcap
huffed
huffer
huffier
huffiest
huffily
huffiness
huffing
huffingly
huffish
huffishly
huffishness
huffle
huffler
huffs
huffy
hug
huge
hugelite
hugely
hugeness
hugenesses
hugeous
humanest
humanhood
humanics
humanification
humaniform
humaniformian
humanify
humanisation
humanise
humanised
humaniser
humanises
humanish
humanising
humanism
humanisms
humanist
humanistic
humanistical
humanistically
humanitarian
humanitarianism
humanitarianist
humanitarianize
humanitarians
humanitary
humanitian
humanities
humanity
humanity's
humanitymonger
humanization
humanize
humanized
humanizer
humanizers
humanizes
humanizing
humankind
humanlike
humanly
humanness
humanoid
humanoids
humans
humate
humates
humation
humbird
humble
humblebee
humbled
humblehearted
humblemouthed
humbleness
humbler
humblers
humbles
humblesse
humblesso
humblest
humbie
humbling
humblingly
humbly
humbo
humboldtite
humboldtine
humboldtite
hunbug
hunbugability
hunbugable
hunbugged
hunbugger
hunbuggers
hunbuggery
hunbugging
hunbuggism
hunbugs
hunbuzz
humdinger
humdingers
humdrum
humdrumminess
humdrummish
humdrummishness
humdrumness
humdrums
humdudgeon
humect
humectant
humectate
humectation
humective
humeral
humoring
humorism
humorist
humoristic
humoristical
humorists
humorize
humorless
humorlessly
humorlessness
humorology
humorous
humorously
humorousness
humorproof
humors
humorsome
humorsomely
humorsomeness
humour
humoural
humoured
humourful
humouring
humourist
humourize
humourless
humourlessness
humours
humoursome
humous
hump
humpback
humpbacked
humpbacks
humped
humph
humphed
humphing
humphs
humpier
humpies
humpiest
humpiness
humping
humpless
humps
humpty
hurr
hurrah
hurrahed
hurrahing
hurrahs
hurray
hurrayed
hurraying
hurrays
hurrer
hurricane
hurricane's
hurricanes
hurricanize
hurricano
hurridly
hurried
hurriedly
hurriedness
hurrier
hurriers
hurries
hurrisome
hurrock
hurroo
hurroosh
hurry
hurrygraph
hurrying
hurryingly
hurryproof
hursinghar
hurst
hurt
hurttable
hurted
hurter
hurters
hurtful
hurtfully
hurtfulness
hurting
hurtingest
hurtle
hurtleberries
hurtleberry
hurtled
hurtles
hushpuppy
husht
husk
huskanaw
husked
huskened
husker
huskers
huskershredder
huskier
huskies
huskiest
huskily
huskiness
husking
huskings
husklike
huskroot
husks
huskwort
husky
huso
huspel
huspil
huss
hussar
hussars
hussies
hussite
hussitism
hussy
hussydom
hussyness
hust
husting
hustings
hustle
hustlecap
hustled
hustlement
hustler
hustlers
hustles
hustling
huswife
huswives
huswives
huswife
huswifes
huswife
hut
hut's
hutch
hutched
hutcher
hutches
hutchet
hutchie
hutching
hutchinsonian
hutchinsonite
huthold
hutholder
hutia
hutkeeper
hutlet
hutlike
hument
hutments
hutre
huts
hutted
hutting
huttonian
huttoning
huttonweed
hutukhtu
hutuktu
hutung
hutzpa
hutzpah
hutzpahs
hutzpas
huurder
huvelyk
huxter
huyghenian
huzoor
huzz
huzza
huzzaed
huzzah
huzzahed
huzzahing
huzzahs
huzzas
huzzy
hv
hvy
hw
hwan
hwt
hwy
hwy1
hy
hyacine
hyacinth
hyacinthian
hyacinthin
hyacinthine
hyacinths
hyacinthus
hyades
hyaena
hyaenas
hyaenic
hyaenic
hyaenid
hyaenodon
hyaenodont
hyaenodontoid
hyahya
hyalescence
hyalescent
hyalin
hyaline
hyalines
hyalinization
hyalinize
hyalinized
hyalinizing
hyalinocrystalline
hyalinos
hyalins
hyalite
hyalites
hyalithe
hyalitis
hyaloandesite
hyalobasalt
hyalocrystalline
hyalodacite
hyalog
hyalogens
hyalograph
hyalographer
hyalography
hyaloid
hyaloiditis
hyaloids
hyaloliparite
hyalolith
hyalomelan
hyalomere
hyalomucoid
hyalonema
hyalophagia
hyalophane
hyalophyre
hyaloplilitic
hyaloplasm
hyaloplasma
hyaloplasmic
hyalopsite
hyalopterous
hyalosiderite
hyalotekite
hyalotype
hyalts
hyaluronic
hyaluronidase
hyblaean
hybodont
hybosis
hybrid
hybrida
hybridae
hybridal
hybridation
hybridisable
hybridise
hybridised
hybridiser
hybridising
hybridism
hybridist
hybridity
hybridizable
hybridization
hybridizations
hybridize
hybridized
hybridizer
hybridizers
hybridizes
hybridizing
hybridous
hybrids
hybris
hybrises
hybristic
hyd
hydage
hydantoate
hydantoic
hydantoin
hydathode
hydatic
hydatid
hydatidiform
hydatidinous
hydatidocele
hydatids
hydatiform
hydatigenous
hydatogenesis
hydatogenic
hydatogenous
hydatoid
hydatomorphic
hydatomorphism
hydatopneumatic
hydatopneumatolytic
hydatopyrogenic
hydatoscopy
hyde
hydnaceous
hydnocarpate
hydnocarpic
hydnoid
hydnoraceous
hydra
hydracetin
hydrachnid
hydracid
hydracids
hydracoral
hydracrylate
hydracrylic
hydractic
hydractinian
hydradephagan
hydradephagous
hydrea
hydraemia
hydraemic
hydragog
hydragogs
hydragogue
hydragogy
hydralazine
hydramide
hydramine
hydramnion
hydramnios
hydrangea
hydrangeaceous
hydrangeas
hydrant
hydranth
hydranths
hydrants
hydrarch
hydrargillite
hydrargyrate
hydrargyria
hydrargyriasis
hydrargyric
hydrargyrismos
hydrargyrosis
hydrargyrum
hydrarthrosis
hydrarthrus
hydras
hydrase
hydrases
hydrastine
hydrastinine
hydrastis
hydrate
hydrated
hydrates
hydrating
hydration
hydrations
hydrator
hydrators
hydratropic
hydratropic
hydratropic
hydratropic
hydrault
hydraulti
hydraulic
hydraulically
hydraulician
hydraulicity
hydraulicked
hydraulicking
hydraulicon
hydraulics
hydraulis
hydraulist
hydraulus
hydrauluses
hydrazide
hydrazidine
hydrazimethylene
hydrazin
hydrazine
hydrazino
hydrazo
hydrazoate
hydrazobenzene
hydrazoic
hydrazone
hydrazyl
hydremia
hydremic
hydrencephalocele
hydrencephaloid
hydrencephalus
hydria
hydriad
hydriae
hydriatic
hydriatrist
hydriatry
hydric
hydrically
hydrid
hydride
hydrides
hydrids
hydriform
hydrindene
hydriodate
hydriodic
hydriodide
hydrion
hydriontaphia
hydro
hydroa
hydroacoustic
hydroadipsia
hydroaeric
hydroairplane
hydroalcoholic
hydroaromatic
hydroatmospheric
hydroaviation
hydrobarometer
hydrobenzoin
hydrobilirubin
hydrobiological
hydrobiologist
hydrobiology
hydrobiosis
hydrobiplane
hydrobomb
hydroboracite
hydroborofluoric
hydrobranchiate
hydrobromate
hydrobromic
hydrobromid
hydrobromide
hydrocarbide
hydrocarbon
hydrocarbonaceous
hydrocarbonate
hydrocarbonic
hydrocarbonous
hydrocarbons
hydrocarbostyril
hydrocarburet
hydrocardia
hydrocaryaceous
hydrocatalysis
hydrocauline
hydrocaulus
hydrocele
hydrocellulose
hydrocephali
hydrocephalic
hydrocephalies
hydrocephalocele
hydrocephaloid
hydrocephalous
hydrocephalus
hydrocephaly
hydroceramic
hydrocerussite
hydrocharidaceous
hydrocharitateous
hydrochemical
hydrochemistry
hydrochlorate
hydrochlorauric
hydrochloric
hydrochlorid
hydrochloride
hydrochlorothiazide
hydrochloroplatinic
hydrochlorplatinous
hydrocholecystis
hydrocinchonine
hydrocinnamaldehyde
hydrocinnamic
hydrocinnamoyl
hydrocinnamyl
hydrocirsocele
hydrocladium
hydroclastic
hydroclimate
hydrocobalticyanic
hydrocoeles
hydrocollidine
hydrocolloid
hydrocolloidal
hydroconion
hydrocoral
hydrocoralline
hydrocorisan
hydrocortisone
hydrocotarnine
hydrocumaric
hydrocrack
hydrocracking
hydrocupreine
hydrocyanate
hydrocyanic
hydrocyanide
hydrocycle
hydrocyclic
hydrocyclist
hydrocyst
hydrocystic
hydrodesulfurization
hydrodesulphurization
hydrodrome
hydrodromican
hydrodynamic
hydrodynamical
hydrodynamically
hydrodynamicist
hydrodynamics
hydrodynamometer
hydroeconomics
hydroelectric
hydroelectrically
hydroelectricity
hydroelectrization
hydroergotinine
hydroextract
hydroextractor
hydroferricyanic
hydroferrocyanate
hydroferrocyanic
hydrofluoride
hydrofluoric
hydrofluorid
hydrofluoboric
hydrofluosilicate
hydrofluosilicic
hydrofluozirconic
hydrofoil
hydrofoils
hydroformer
hydroforming
hydroformylation
hydrofranklinite
hydrofuge
hydrogalvanic
hydrogasification
hydrogel
hydrogels
hydrogen
hydrogen's
hydrogenase
hydrogenate
hydrogenated
hydrogenates
hydrogenating
hydrogenation
hydrogenations
hydrogenator
hydrogenic
hydrogenide
hydrogenisation
hydrogenise
hydrogenised
hydrogenising
hydrogenium
hydrogenization
hydrogenize
hydrogenized
hydrogenizing
hydrogenolyses
hydrogenolysis
hydrogenous
hydrogens
hydrogeologic
hydrogeological
hydrogeologist
hydrogeology
hydroglider
hydrogosity
hydrogode
hydrograph
hydrographer
hydrographers
hydrographic
hydrographical
hydrographically
hydrography
hydroguret
hydrogymnastics
hydrohalide
hydrohematite
hydrohemоторax
hydroid
hydroidean
hydrooids
hydroiodic
hydrokineter
hydrokinetic
hydrokinetical
hydrokinetics
hydrol
hydrolant
hydrolase
hydromels
hydromeningitis
hydromeningocele
hydrometallurgical
hydrometallurgically
hydrometallurgy
hydrometamorphism
hydrometeor
hydrometeorologic
hydrometeorological
hydrometeorologist
hydrometeorology
hydrometer
hydrometers
hydrometra
hydrometric
hydrometrical
hydrometrifid
hydrometry
hydromica
hydromicaceous
hydromonoplane
hydromorph
hydromorphic
hydromorphous
hydromorphy
hydromotor
hydromyelia
hydromyelocele
hydromyoma
hydronaut
hydrone
hydrenegative
hydrenephelite
hydrenephrosis
hydrenephrotic
hydronic
hydronically
hydronitric
hydronitrogen
hydronitroprussic
hydronitrous
hydronium
hydropac
hydroparacoumaric
hydropath
hydropathic
hydropathical
hydropathically
hydropathist
hydropathy
hydropericarditis
hydropericardium
hydropere period
hydropereitoneum
hydropereitonitis
hydroperoxide
hydropene
hydropenanous
hydropheid
hydropil
hydropiphile
hydropilic
hydropilicity
hydropilid
hydropilism
hydropilite
hydropiloid
hydropilious
hydropily
hydropob
hydropobia
hydropobic
hydropobical
hydropobicity
hydropobist
hydropobophobia
hydropobous
hydropoboby
hydropoid
hydropone
hydropones
hydroporan
hydropone
hydroporia
hydroporous
hydropthalmia
hydropthalmos
hydropthalmus
hydrophylacium
hydrophyll
hydropyllaceous
hydropylliaceous
hydropyllium
hydropysometra
hyropolyte
hydrophytic
hydrophytism
hydrophyton
hydrophytous
hydropic
hydropical
hydropically
hydropigenous
hydroplane
hydroplaned
hydroplaner
hydroplanes
hydroplaning
hydroplanula
hydroplatinocyanic
hydroplutonic
hydropneumatic
hydropneumatization
hydropneumatosis
hydropneumopericardium
hydropneumothorax
hydropolyp
hydroponic
hydroponically
hydroponicist
hydroponics
hydroponist
hydropositive
hydropot
hydropower
hydropulsion
hydraps
hydrapses
hydrapsies
hydrapsy
hydroptic
hydropult
hydropultic
hydroquinine
hydroquinol
hydroquinoline
hydroquinone
hydrorachis
hydrorhiza
hydrorhizae
hydrorhizal
hydrorrhachis
hydrorrhachitis
hydrorrhea
hydrorrhoea
hydrorubber
hydros
hydrosalpinx
hydrosalt
hydrorsarcocele
hydroscope
hydroscoptic
hydroskopical
hydrosopicity
hydroskopist
hydrorselenic
hydrorselenide
hydrorselenuret
hydrorseparation
hydrorsere
hydrorsilicate
hydrorsilicon
hydrorski
hydrorsol
hydrorsole
hydrorsolic
hydrorsols
hydrorsoma
hydrorsomal
hydrorsomata
hydrorsomatous
hydrorsome
hydrorsorhic
hydrorspace
hydrorsphere
hydrorspheres
hydrorspheric
hydrorspire
hydrorspiric
hydrorsrat
hydrorsstatic
hydrorsstatical
hydrorsstatically
hydrorsstatician
hydrorsstatics
hydrorsstome
hydrorsulfate
hydrorsulfide
hydrorsulfite
hydrorsulfurous
hydrorsulphate
hydrosulphide
hydrosulphite
hydrosulphocyanic
hydrosulphurated
hydrosulphuret
hydrosulphured
hydrosulphuric
hydrosulphurous
hydrosulphuryl
hydrotachymeter
hydrotactic
hydrotalcite
hydrotasimeter
hydrotaxis
hydrotechnic
hydrotechnical
hydrotechnologist
hydrotechny
hydroterpene
hydrotheca
hydrothecae
hydrothecal
hydrotherapeutic
hydrotherapeutical
hydrotherapeutically
hydrotherapeutician
hydrotherapeuticians
hydrotherapeutics
hydrotherapies
hydrotherapist
hydrotherapy
hydrothermal
hydrothermally
hydrothoracic
hydrothorax
hydrotic
hydrotical
hydrotimeter
hydrotimetric
hydrotimetry
hydrotomy
hydrotropic
hydrotropically
hydrotropism
hydroturbine
hydroturbine
hydrous
hydrovane
hydroxamic
hydroxamino
hydroxide
hydroxides
hydroximic
hydroxy
hydroxyacetic
hydroxyanthraquinone
hydroxyapatite
hydroxyazobenzene
hydroxybenzene
hydroxybutyricacid
hydroxycorticosterone
hydroxydehydrocorticosterone
hydroxydesoxyxycorticosterone
hydroxyketone
hydroxyl
hydroxylactone
hydroxylamine
hydroxylase
hydroxylate
hydroxylation
hydroxylic
hydroxylation
hydroxylize
hydroxyls
hydroxyproline
hydroxytryptamine
hydroxyurea
hydroxyzine
hydrozincite
hydrozoa
hydrozoal
hydrozoan
hydrozoic
hydrozoom
hydrula
hydruret
hydrus
hydurate
hydurilate
hydurilic
hye
hyemal
hyena
hyenadog
hyenanchin
hyenas
hyenia
hyenic
hyeniform
hyenine
hyenoid
hyetal
hyetograph
hyetographic
hyetographical
hyetographically
hyetography
hyetological
hyetologist
hyetology
hyetometer
hyetometric
hyetometergraph
hyetometergraphic
hygeen
hygeia
hygeian
hygeiolatry
hygeist
hygeistic
hygeists
hygenics
hygeology
hygiastic
hygiantics
hygiastic
hygiastics
hygieist
hygieists
hygienal
hygiene
hygienes
hygienic
hygienical
hygienically
hygienics
hygienist
hygienists
hygienization
hygienize
hygiologist
hygiology
hygic
hygric
hygrine
hygristor
hygroblepharic
hygrodeik
hygroexpansivity
hyrogram
hyrograph
hyrology
hyroma
hygromatous
hygrometer
hygrometers
hygrometric
hygrometrical
hygrometrically
hygrometries
hygrometry
hygrophaney
hygrophanous
hygrophilous
hygrophobia
hygrophilous
hygrophobe
hygrophobe
hygrophyle
hygrophytic
hygroplasm
hygroplasma
hygroscopy
hygrosopic
hygrosopical
hygrosopically
hygrosopicity
hygrosopic
hygrostat
hygrostatics
hygrostomia
hygothermal
hygrothermograph
hying
hyingly
hyke
hyla
hylactic
hylactism
hylaeosaurus
hylarchic
hylarchical
hylarchical
hylas
hylasmus
hyle
hylean
hyleg
hylegiacal
hyli
hylic
hylicism
hylicist
hylidae
hylids
hylism
hylist
hylobatian
hylobatic
hylobatine
hylodes
hylogenesis
hylogeny
hyloid
hyloist
hylology
hyломorphic
hyломorphical
hyломorphism
hyломorphist
hyломorphous
hylopathism
hylopathist
hylopathy
hylophagous
hylotheism
hylotheist
hylotheistic
hylotheistical
hylotomous
hylotropic
hylozoic
hylozoism
hylozoist
hylozoistic
hylozoistically
hymen
hymenaic
hymenal
hymeneal
hymeneally
hymeneals
hymenean
hymenia
hymenial
hymenic
hymenicolar
hymeniferous
hymeniophore
hymenium
hymeniumnia
hymeniums
hymenogeny
hymenoid
hymenomycetal
hymenomycete
hymenomycetoid
hymenomycetous
hymenophore
hymenophorum
hymenophyllaceous
hymenopter
hymenoptera
hymenopteran
hymenopterist
hymenopterological
hymenopterologist
hymenopterology
hymenopteron
hymenopterous
hymenoptera
hymenotome
hymenotomies
hymenotomy
hymens
hymn
hymn's
hymnal
hymnals
hymnaria
hymnaries
hymnarium
hymnariunaria
hymnary
hymnbook
hymnbooks
hymned
hymner
hymnic
hymning
hymnist
hymnists
hymnless
hymnlike
hymnode
hymnodical
hymnodies
hymnodist
hymnody
hymnograher
hymnographer
hymnography
hymnologic
hymnological
hymnologically
hymnologist
hymnology
hymns
hymnwise
hynd
hynde
hynder
hyne
hyobranchial
hyocholalic
hyocholic
hyoepiglottic
hyoepiglottidean
hyoglossal
hyoglossi
hyoglossus
hyoglycocholic
hyoid
hyoidal
hyoidan
hyoideal
hyoidean
hyoides
hyoids
hyolithid
hyolithoid
hyomandibula
hyomandibular
hyomental
hyoplastral
hyoplastron
hyoscapular
hyoscine
hyoscines
hyoscyamine
hyoscyamus
hyosternal
hyosternum
hyostylic
hyostyly
hyothere
hyothyreoid
hyothyroid
hyp
hypabyssal
hypabyssally
hypacusia
hypacusis
hypaesthesia
hypaesthetic
hypaethral
hypaethron
hypaethros
hypaethrum
hypalgia
hypalgic
hypallactic
hypallage
hypanthia
hypanthial
hypanthium
hypaethron
hypapophysial
hypapophysis
hyparterial
hypaspist
hypate
hypaton
hypautomorphic
hypaxial
hype
hyped
hypagiaphobia
hyper
hyperabelian
hyperabsorption
hyperaccuracy
hyperaccurate
hyperaccurately
hyperaccurateness
hyperacid
hyperacidaminuria
hyperacidity
hyperacousia
hyperacoustics
hyperaction
hyperactive
hyperactively
hyperactivities
hyperactivity
hyperacuity
hyperacuness
hyperacusia
hyperacusis
hyperacute
hyperacuteness
hyperadenosis
hyperadipose
hyperadiposis
hyperadiposity
hyperadrenalemia
hyperadrenalism
hyperadrenia
hyperaemia
hyperaemic
hyperaerialism
hyperaesthesia
hyperaesthete
hyperaesthetic
hyperalbuminosis
hyperaldosteronism
hyperalgebra
hyperalgesia
hyperalgesic
hyperalgesis
hyperalgetic
hyperalgia
hyperalimentation
hyperalkalinity
hyperaltruism
hyperaltruist
hyperaltruistic
hyperaminoacidemia
hyperanabolic
hyperanabolism
hyperanacinesia
hyperanakinesia
hyperanakinesis
hyperanarchic
hyperanarchy
hyperangelic
hyperangelical
hyperangelically
hyperaphia
hyperaphic
hyperapophyseal
hyperapophysial
hyperapophysysis
hyperarchaeological
hyperarchepiscopal
hyperaspist
hyperazotemia
hyperazoturia
hyperbarbarism
hyperbarbarous
hyperbarbarously
hyperbarbarousness
hyperbaric
hyperbarically
hyperbarism
hyperbata
hyperbatbata
hyperbatic
hyperbatically
hyperbaton
hyperbatons
hyperbola
hyperbolae
hyperbolaeon
hyperbolas
hyperbole
hyperboles
hyperbolic
hyperbolical
hyperbolically
hyperbolism
hyperbolist
hyperbolize
hyperbolized
hyperbolizing
hyperboloid
hyperboloidal
hyperboreal
hyperborean
hyperbrachycephal
hyperbrachycephalic
hyperbrachycephaly
hyperbrachycranial
hyperbrachyskelic
hyperbranchia
hyperbranchial
hyperbrutal
hyperbrutally
hyperbulia
hypercalcaemia
hypercalcemia
hypercalcemic
hypercalcinemia
hypercalcinuria
hypercalciuria
hypercalcuria
hypercapnia
hypercapnic
hypercarbamidemia
hypercarbia
hypercarbureted
hypercarburetted
hypercarnal
hypercarnally
hypercatabolism
hypercatalectic
hypercatalexis
hypercatharsis
hypercathartic
hypercathexis
hypercenosis
hyperchamaerrhine
hypercharge
hyperchloreaemia
hyperchloremia
hyperchlorhydria
hyperchloric
hyperchlorination
hypercholesteremia
hypercholesteremic
hypercholesterinememia
hypercholesterolemia
hypercholesterolemic
hypercholesterolgia
hypercholia
hypercivilization
hypercivilized
hyperclassical
hypercyanosis
hypercyanotic
hypercycle
hypercylinder
hypercythemia
hypercytosis
hyperdactyl
hyperdactylia
hyperdactylism
hyperdactyly
hyperdeification
hyperdeified
hyperdeify
hyperdeifying
hyperdelicacy
hyperdelicate
hyperdelicately
hyperdelicateness
hyperdelicious
hyperdeliciously
hyperdeliciousness
hyperdelness
hyperdemocracy
hyperdemocratic
hyperdeterminant
hyperdiabolical
hyperdiabolically
hyperdiabolicalness
hyperdialecticism
hyperdiapason
hyperdiapente
hyperdiastole
hyperdiastolic
hyperdiatessaron
hyperdiazeuxis
hyperdicrotic
hyperdicrotism
hyperdicrotous
hyperdimensional
hyperdimensionality
hyperdiploid
hyperdissyllable
hyperdistention
hyperditone
hyperdivision
hyperdolichocephal
hyperdolichocephalic
hyperdolichocephaly
hyperdolichocranial
hyperdoricism
hyperdulia
hyperdulic
hyperdulical
hyperelegance
hyperelegancy
hyperelegant
hyperelegantly
hyperlambi
hyperelement
hyperelemental
hyperelementality
hyperelementary
hyperelementation
hyperelementization
hyperelementize
hyperelementized
hyperelementizing
hyperendocrinia
hyperendocrinism
hyperendocrinia
hyperendocrisia
hyperenergetic
hyperenthusiasm
hyperenthusiastic
hyperenthusiastically
hypereosinophilia
hyperephidrosis
hyperepinephria
hyperepinephrinemia
hyperepinephry
hyperequatorial
hypererethism
hypereresence
hyperesthesia
hyperesthete
hyperesthetic
hyperethical
hyperethically
hyperethicalness
hyperethicality
hyperethereal
hyperetheral
hyperetherality
hyperetherality
hyperexcitable
hyperexcitableness
hyperexcitably
hyperexcitement
hyperexcursive
hyperexcursively
hyperexcursiveness
hyperexophoria
hyperextend
hyperextension
hyperfastidious
hyperfastidiously
hyperfastidiousness
hyperfederalist
hyperfine
hyperflexibility
hyperflexible
hyperflexibleness
hyperflexibly
hyperflexion
hyperfocal
hyperform
hyperfunction
hyperfunctional
hyperfunctionally
hyperfunctioning
hypergalactia
hypergalactosia
hypergalactosis
hyergamous
hyergamy
hyergenesis
hyergenetic
hyergenetical
hyergenetically
hyergenetalness
hyergeometric
hyergeometrical
hyergeometry
hyergeusesthesia
hyergeusia
hyergeustia
hyerglobulia
hyerglobulism
hyerglycaemia
hyerglycaemic
hyerglycemia
hyerglycemic
hyperglycistia
hyperglycorrhachia
hyperglycosuria
hypergoddess
hypergol
hypergolic
hypergolically
hypergols
hypergrammatical
hypergrammatically
hypergrammaticalness
hyperhedonia
hyperhemoglobinemia
hyperhepatia
hyperhidrosis
hyperhidrotic
hyperhilarious
hyperhilariously
hyperhilariousness
hyperhypocrisy
hypericaceous
hypericin
hypericism
hypericum
hyperidealistic
hyperidealistically
hyperideation
hyperidrosis
hyperimmune
hyperimmunity
hyperimmunization
hyperimmunize
hyperimmunized
hyperimmunizing
hyperin
hyperinflation
hyperingenuity
hyperinosis
hyperinotic
hyperinsulinism
hyperinsulinization
hyperinsulinize
hyperintellectual
hyperintellectually
hyperintellectualness
hyperintelligence
hyperintelligent
hyperintelligently
hyperinvolution
hyperion
hyperirritability
hyperirritable
hyperisotonic
hyperite
hyperkalemia
hyperkalemic
hyperkaliemia
hyperkatabolism
hyperkeratoses
hyperkeratosis
hyperkeratotic
hyperkinesia
hyperkinesis
hyperkinetic
hyperlactation
hyperleptoprosopie
hyperlethal
hyperlethargy
hyperleucocytosis
hyperleucocytotic
hyperleukocytosis
hyperlexis
hyperlipaemia
hyperlipaemic
hyperlipemia
hyperlipemic
hyperlipidemia
hyperlipoidemia
hyperlithuria
hyperlogical
hyperlogicality
hyperlogically
hyperlogicalness
hyperlustrous
hyperlustrously
hyperlustrousness
hypermagical
hypermagically
hypermakrosketic
hypermarket
hypermedication
hypermegasoma
hypermenorrhea
hypermetabolism
hypermetamorphic
hypermetamorphism
hypermetamorphoses
hypermetamorphosis
hypermetamorphic
dermetaphoric
hypermetaphorical
hypermetaphysical
hypermetaplasia
hypermeter
hypermetric
hypermetrical
hypermetron
hypermetrope
hypermetropia
hypermetropic
hypermetropical
hypermetry
hypermicrosoma
hypermiraculous
hypermiraculously
hypermiraculousness
hypermixolydian
hypermnesia
hypermnesic
hypermnesis
hypermnestic
hypermodest
hypermodestly
hypermodestness
hypermonosyllable
hypermoral
hypermorally
hypermorphic
hypermorphemic
hypermorphical
hypermorphosis
hypermotile
hypermotility
hypermyotonia
hypermyotrophy
hypermyrionema
hypermyristical
hypermyristically
hypermyristicalness
hypernatremia
hypernatronemia
hypernatural
hypernaturally
hypernaturalness
hypernephroma
hyperneuria
hyperneurotic
hypernemic
hypernik
hypernitrogenous
hypernomian
hypernomic
hypernormal
hypernormality
hypernormally
hypernormalness
hypernote
hypermotion
hypernotions
hypernutrition
hypernutritive
hyperoartian
hyperobtrusive
hyperobtrusively
hyperobtrusiveness
hyperodontogeny
hyperon
hyperons
hyperodon
hyperoon
hyperope
hyperopes
hyperopia
hyperopic
hyperorganic
hyperorganically
hyperorthodox
hyperorthodoxy
hyperorthognathic
hyperorthognathous
hyperorthognathy
hyperosmia
hyperosmic
hyperosteogeny
hyperostoses
hyperostosis
hyperostotic
hyperothodox
hyperothodoxy
hyperotretan
hyperotretous
hyperovaria
hyperovarianism
hyperovarism
hyperoxemia
hyperoxidation
hyperoxide
hyperoxygenate
hyperoxygenating
hyperoxygenation
hyperoxygenize
hyperoxygenized
hyperoxygenizing
hyperoxymuriate
hyperoxymuriatic
hyperpanegyric
hyperparasite
hyperparasitic
hyperparasitism
hyperparasitize
hyperparathyroidism
hyperparoxysm
hyperpathetic
hyperpathetical
hyperpathetically
hyperpathia
hyperpathic
hyperpatriotic
hyperpatriotically
hyperpatriotism
hyperpencil
hyperpepsinia
hyperper
hyperperfection
hyperperistalsis
hyperperistaltic
hyperpersonal
hyperpersonally
hyperphagia
hyperphagic
hyperphalangeal
hyperphalangism
hyperpharyngeal
hyperphenomena
hyperphoria
hyperphoric
hyperphosphatemia
hyperphospheremia
hyperphosphorescence
hyperphysical
hyperphysically
hyperphysics
hyperpiaia
hyperpiaia
hyperpiaia
hyperpiaia
hyperpiaia
hyperpiaia
hyperplane
hyperplasia
hyperplastic
hyperplastic
hyperplatyrrhine
hyperploid
hyperploidy
hyperpnea
hyperpneic
hyperpnoea
hyperpolarization
hyperpolarize
hyperpolysyllabic
hyperpolysyllabically
hyperpotassemia
hyperpotassemic
hyperpredator
hyperprism
hyperproduction
hyperprognathous
hyperprophetic
hyperprophetical
hyperprophetically
hyperprosexia
hyperpulmonary
hyperpure
hyperpurist
hyperpyramid
hyperpyretic
hyperpyrexia
hyperpyrexial
hyperquadric
hyperrational
hyperrationally
hyperreactive
hyperrealize
hyperrealized
hyperrealizing
hyperresonance
hyperresonant
hyperreverential
hyperrhythmical
hyperridiculous
hyperridiculously
hyperridiculousness
hyperritualism
hyperritualistic
hyperromantic
hyperromantically
hyperromanticism
hypersacerdotal
hypersaintly
hypersalivation
hypersceptical
hyperscholastic
hyperscholastically
hyperscrupulosity
hyperscrupulous
hypersecretion
hypersensibility
hypersensitisation
hypersensitise
hypersensitised
hypersensitising
hypersensitive
hypersensitiveness
hypersensitivities
hypersensitivity
hypersensitization
hypersensitize
hypersensitized
hypersensitizing
hypersensual
hypersensualism
hypersensually
hypersensualness
hypersensuous
hypersensuously
hypersensuousness
hypersentimental
hypersentimentally
hypersexual
hypersexualities
hypersexuality
hypersolid
hypersomnia
hypersonic
hypersonically
hypersonics
hypersophisticated
hypersophistication
hyperspace
hyperspatial
hyperspeculative
hyperspeculatively
hyperspeculativeness
hypersphere
hyperspherical
hyperspiritualizing
hypersplenia
hypersplenism
hyperstatic
hypersthene
hyperthenia
hyperthenic
hyperthenite
hyperstoic
hyperstoical
hyperstrophic
hypersubtle
hypersubtlety
hypersuggestibility
hypersuggestible
hypersuggestibleness
hypersuggestibly
hypersuperlative
hypersurface
hypersusceptibility
hypersusceptible
hypersystole
hypersystolic
hypertechnical
hypertechnically
hypertechnicalness
hypertelic
hypertely
hypertense
hypertensely
hypertenseness
hypertensin
hypertensinase
hypertensinogen
hypertension
hypertensive
hyperterrestrial
hypertetrahedron
hyperthermal
hyperthermalgesia
hyperthermally
hyperthermesthesia
hyperthermia
hyperthermic
hyperthermy
hyperthesis
hyperthetic
hyperthetical
hyperthrombinemia
hyperthymia
hyperthyreosis
hyperthyroid
hyperthyroidism
hyperthyroidization
hyperthyroidize
hyperthyroids
hypertocicity
hypertonia
hypertonic
hypertonicity
hypertonous
hypertorrid
hypotoxic
hypotoxicity
hypertragic
hypertragical
hypertragically
hypertranscendent
hypertrichosis
hypertrichy
hypertridimensional
hypertrophic
hypertrophied
hypertrophies
hypertrophous
hypertrophy
hypertrophying
hypertrophymphied
hypertropia
hypertropical
hypertype
hypertypic
hypertypical
hyperurbanism
hyperuresis
hyperuricemia
hypervascular
hypervascularity
hypervelocity
hypervenosity
hyperventilate
hyperventilation
hypervigilant
hypervigilantly
hypervigilantness
hyperviscosity
hyperviscous
hypervitalization
hypervitalize
hypervitalized
hypervitalizing
hypervitaminosis
hypervolume
hypervoluminous
hyperwrought
hypes
hypesthesis
hypesthetic
hypethral
hypha
hyphae
hyphaeresis
hyphal
hyphantria
hyphedonia
hyphem
hyphemias
hyphen
hyphen's
hyphenate
hyphenated
hyphenates
hyphenating
hyphenation
hyphenations
hyphened
hyphenic
hyphenening
hyphenisation
hyphenise
hyphenised
hyphenising
hyphenism
hyphenization
hyphenize
hyphenized
hyphenizing
hyphenless
hyphens
hypho
hyphodrome
hyphomycete
hyphomycetic
hyphomycetous
hyphomycosis
hyphopodia
hyphopodia
hyphopodium
hypidiomorphic
hypidiomorphically
hyping
hypnosis
hypnotic
hypnaceous
hypnagogic
hypnale
hypnesthesia
hypnesthetic
hypnic
hypnoanalyses
hypnoanalysis
hypnoanalytic
hypnobate
hypnocyst
hypnody
hypnoetic
hypnogenesis
hypnogenetic
hypnogenetically
hypnogia
hypnogonic
hypnograph
hypnoid
hypnoidal
hypnoidization
hypnoidize
hypnologic
hypoactivity
hypoacusia
hypoacussis
hypoadenia
hypoadrenia
hypoaeolian
hypoalbuminemia
hypoalimentation
hypoalkaline
hypoalkalinity
hypoalonemia
hypoaminoacidemia
hypoantimonate
hypoazoturia
hypobaric
hypobarism
hypobaropathy
hypobasal
hypobases
hypobasis
hypobatholithic
hypobenthonic
hypobenthos
hypoblast
hypoblastic
hypobole
hypobranhcial
hypobranhchiate
hypobromite
hypobromites
hypobromous
hypobulia
hypobulic
hypocalcemia
hypocalcemic
hypocarp
hypocarpium
hypocarpogeon
hypocatharsis
hypocathartic
hypocathexis
hypocaust
hypocenter
hypocenters
hypocentral
hypocentre
hypocentrum
hypoccephalus
hypochchilia
hypochdria
hypochil
hypochilia
hypochilium
hypochloreemia
hypochloremic
hypochlorhydria
hypochlorhydric
hypochloric
hypochloridemia
hypochlorite
hypochlorous
hypochloruria
hypochnose
hypocholesteremia
hypcholesterinemia
hypcholesterolemia
hypochondrer
hypochondria
hypochondriac
hypochondriacal
hypochondriacally
hypochondriacism
hypochondriacs
hypchodndrial
hypochondriasis
hypochondriast
hypochondric
hypochondrium
hypochondry
hypochondral
hypochromia
hypochromic
hypochrosis
hypochyilia
hypocist
hypocistis
hypocleidian
hypocteildium
hypocoelom
hypocoendylar
hypocone
hypoconid
hypoconule
hypoconulid
hypocopy
hypocoracoid
hypocorism
hypocoristic
hypocoristical
hypocoristically
hypocotyl
hypocotyleal
hypocotyledonary
hypocotyledonous
hypocotylous
hypocrater
hypocrateriform
hypocraterimorphous
hypocreaceous
hypocrinia
hypocrinism
hypocrisies
hypocrisy
hypocritical
hypocritic
hypocriticalness
hypocrize
hypocrystalline
hypocyclid
hypocyclidal
hypocystotomy
hypocytosis
hypodactylum
hypoderm
hypoderma
hypodermal
hypodermatic
hypodermatically
hypodermatocysis
hypodermatomy
hypodermic
hypodermically
hypodermics
hypodermis
hypodermocysis
hypodermosis
hypodermous
hypoderms
hypodiapason
hypodiapente
hypodiastole
hypodiatessaron
hypodiazeuxis
hypodicrotic
hypodicrotous
hypodiploid
hypodiplody
hypoditone
hypodorian
hypodynamia
hypodynamic
hypoeutectic
hypoeutectoid
hypofunction
hypogaecic
hypogamy
hypogastria
hypogastic
hypogastrium
hypogastrocele
hypogea
hypogean
hypogeal
hypogee
hypogeic
hypogetiody
hypogene
hypogenesis
hypogenetic
hypogenic
hypogenous
hypogeocarpous
hypogeous
hypogeugea
hypogeum
hypogeusia
hypoglobulia
hypoglossal
hypoglossis
hypoglossitis
hypoglossus
hypoglottis
hypoglycaemia
hypoglycemia
hypoglycemic
hypognathism
hypognathous
hypogonadia
hypogonadism
hypogonadation
hypogyn
hypogynic
hypogynies
hypogynium
hypogynous
hypogyny
hypohalous
hypohemia
hypohepatia
hypohidrosis
hypohyal
hypohyaline
hypohydrochloria
hypohypophysism
hypoid
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoidrosis
hypoid
hypolimnia
hypolimniial
hypolimnnion
hypolimnienia
hypolithic
hypolocrian
hypolydian
hypomania
hypomanic
hypomelancholia
hypomeral
hypomere
hypomeron
hypometropia
hypomixolydian
hypomnematic
hypomnesia
hypomnesia
hypomochlion
hypomorph
hypomorphic
hypomotility
hypomyotonia
hyponastic
hyponastically
hyponasty
hyponatremia
hyponea
hyponeas
hyponeuria
hyponitric
hyponitrite
hyponitrous
hyponoetic
hyponoia
hyponoias
hyponome
hyponomic
hyponychial
hyponychium
hyponym
hyponymic
hyponymous
hypoparathyroidism
hypopepsia
hypopepsinia
hypopepsy
hypopetalous
hypopetaly
hypophalanism
hypophamin
hypophamine
hypophare
hypopharyngeal
hypopharynges
hypopharyngoscope
hypopharyngoscopy
hypopharynx
hypopharynxes
hypophloedal
hypophloedic
hypophloeous
hypophonesis
hypophonia
hypophonic
hypophonous
hypophora
hypophoria
hypophosphate
hypophosphite
hypophosphoric
hypophosphorous
hypophrenia
hypophrenic
hypophrenosis
hypophrygian
hypophyge
hypophyll
hypophyllium
hypophyllous
hypophyllum
hypophy physism
hypophyse
hypophyseal
hypophysectomies
hypophysectomize
hypophysectomized
hypophysectomizing
hypophysectomy
hypophyseoprivic
hypophyseoprivous
hypophyses
hypophysial
hypophysical
hypophysics
hypophysis
hypophysitis
hypopial
hypopiesia
hypopiesis
hypopinealism
hypopituitarism
hypopituitary
hypoplankton
hypoplanktonic
hypoplasia
hypoplastic
hypoplastical
hypoplastron
hypoplasty
hypoplasy
hypoploid
hypoploidy
hypopnea
hypopneas
hypopnoea
hypopoddia
hypopodia
hypopodium
hypopotassemia
hypopotassemic
hypopraxia
hypoprosexia
hypoproteinemia
hypoproteinosis
hypopselaphesia
hypopsychosis
hypopteral
hypopteron
hypoptilar
hypoptilum
hypoptosis
hypopytialism
hypopus
hypopygial
hypopygidium
hypopygium
hypopyon
hypopyons
hyporadial
hyporadiolus
hyporadius
hyporchema
hyporchemata
hyporchematic
hyporcheme
hyporchesis
hyporhachidian
hyporhachis
hyporhined
hyporight
hyporit
hyporrhythmic
hypos
hyposalemia
hyposarca
hyposcenium
hyposcleral
hyposcope
hyposecretion
hyposensitive
hyposensitivitiy
hyposensitization
hyposensitize
hyposensitized
hyposensitizing
hyposkeletal
hyposmia
hypospadiac
hypospadias
hyposphene
hyposphresia
hypospray
hypostase
hypostases
hypostasis
hypostasise
hypostasised
hypostasising
hypostasization
hypostasize
hypostasized
hypostasizing
hypostasy
hypostatic
hypostatical
hypostatically
hypostatisation
hypostatise
hypostatised
hypostatising
hypostatization
hypothalline
dynothallus
dyptothami
dynothec
hypotheca
dynothecal
dynothecary
dynothecate
dynothecated
dynothecater
dynothecates
dynothecating
dynothecation
dynothecative
dynothecator
dynothecatory
dynothecia
dynothecial
dynothecium
dynothecs
dynothenal
dynothenar
hyperothenic
hyperothenusal
hyperothenuse
hyperothermal
hyperothemia
hyperothemic
hyperothery
hyperotheses
hyperothesi
hyperothesys
dynothesise
dynothesised
dynothesiser
dynothesising
dynothesist
dynothesists
dynothesize
dynothesized
dynothesizer
dynothesizers
dynotheses
hypothetical
hypothetically
hypotheticalness

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 5563
hypothetics
hypothetist
hypothetize
hypothetizer
hypothyreosis
hypothyroid
hypothyroidism
hypothyroids
hypotonia
hypotonic
hypotonically
hypotonicity
hypotonus
hypotony
hypotoxic
hypotoxicity
hypotracchelia
hypotrichelium
hypotralia
hypotrich
hypotrichosis
hypotrichous
hypotrochanteric
hypotrochoid
hypotrochoidal
hypotrophic
hypotrophies
hypotrophy
hypothalli
hypotympanic
hypotype
hypotypic
hypotypical
hypotyposis
hypovalve
hypovanadate
hypovanadic
hypovanadious
hypovanadous
hypovitaminosis
hypoxanthic
hypoxanthine
hypoxemia
hypoxemic
hypoxia
hypoxias
hypoxic
hypozeugma
hypozeuxis
hypozoan
hypozoic
hypped
hyppish
hyps
hypsibrachycephalic
hypsibrachycephalism
hypsibrachycephaly
hypsicephalic
hypsicephalous
hypsicephaly
hypsidochocephalic
hypsidochocephalism
hypsidochocephaly
hypsiliform
hypsiloid
hypsilophodont
hypsilophodontid
hypsilophodontoid
hypsipylye
hypsistarian
hypsistenocephalic
hypsistenocephalism
hypsistenocephaly
hypsochondric
hypsochondriac
hypsochondry
hypsocortic
hypsocktism
hypsocktic
hypsockty
hypso graphical
hypso graphical
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graphic
hypso graph
hypsophyllary
hypsophyllous
hypsophyllum
hypsothermometer
hypt
hyptural
hyraces
hyraceum
hyracid
hyraciform
hyracodont
hyracodontid
hyracodontoid
hyracoid
hyracoidan
hyracoidian
hyracoids
hyracothere
hyracotherian
hyrate
hyrax
hyraxes
hyrse
hyrst
hyson
hysons
hyssop
hyssops
hystazarin
hysteralgia
hysteralgic
hysteranthous
hysterectomies
hysterectomize
hysterectomized
hysterectomizes
hysterectomizing
hysterectomy
hysterelcosis
hysteresial
hysteresis
hysteretic
hysteretically
hysteria
hysteriac
hysterias
hysteric
hysterical
hysterically
hystericky
hysterics
hystericus
hysteriform
hysterioid
hysterocatalepsy
hysterocoele
hysterocleisis
hysterocrystalline
hysterocystic
hysterodynia
hysterogen
hysterogenetic
hysterogenic
hysterogenous
hysterogeny
hysteroid
hysteroidal
hysterolaparotomy
hysterolith
hysterolithiasis
hysterology
hysterolysis
hysteromania
hysteromaniac
hysteromaniacal
hysterometer
hysterometry
hysteromorphous
hysteromyoma
hysteromyomectomy
hysteron
hysteroneurasthenia
hysteropathy
hysteropexia
hysteropexy
hysterophore
hysterophytal
hysterophyte
hysteroproterize
hysteroptosis
hysteroptosis
hysterorrhaphy
hysterorrhexitis
hysteroscope
hysterosis
hysterotely
hysterotome
hysterotonies
hysterotomy
hysterotraumatism
hystriciasis
hystricid
hystricine
hystricism
hystricismus
hystricoid
hystricomorph
hystricomorphic
hystricomorphous
hyte
hythergraph
hyzene
i
i'
i'd
i'faith
i'll
i'm
i's
i've
i/c
ia
iago
iamatology
iamb
iambelegus
iambi
iambic
iambical
iambically
iambics
iambist
iambize
iambographer
iambes
iambus
iambuses
ianthine
ianthinite
iao
iare
iarovization
iarovize
iarovized
icespar
icework
ich
ichebu
ichibu
ichneumon
ichneumoned
ichneumonid
ichneumonidan
ichneumoniform
ichneumonized
ichneumonoid
ichneumonology
ichneumous
ichneutic
ichnite
ichnite
ichnographic
ichnographical
ichnographically
ichnographies
ichnography
ichnolite
ichnolithology
ichnolitic
ichnological
ichnology
ichnomancy
icho
ichoglan
ichor
ichorous
ichorrhæmia
ichorrhea
ichorrhæmia
ichorrhœa
ichors
ichs
iceth
icethammol
ichthulin
ichthulinic
ichthus
ichthyal
ichthyian
ichthyic
ichthyician
ichthyism
ichthyisms
ichthyismus
ichthyization
ichthyized
ichthyobatrachian
ichthyocephalous
ichthyocol
ichthyocola
ichthyocoprolite
ichthyodian
ichthyodont
ichthyodorulite
ichthyodorylite
ichthyofauna
ichthyofaunal
ichthyiform
ichthyographer
ichthyographyia
ichthyographic
ichthyographies
ichthyography
ichthyoid
ichthyoidal
ichthyol
ichthyolatrous
ichthyolatry
ichthyolite
ichthyolitic
ichthyologic
ichthyological
ichthyologically
ichthyologist
ichthyologists
ichthyology
ichthyomancy
ichthyomania
ichthyomantic
ichthyomorphic
ichthyomorphous
ichthyonomy
ichthyopaleontology
ichthyophagan
ichthyophagi
ichthyophagian
ichthyophagist
ichthyophagize
ichthyophagous
ichthyophagy
ichthyophile
ichthyophobia
ichthyophthalmite
ichthyophthiriasis
ichthyophthirius
ichthyopolism
ichthyopolist
ichthyopsid
ichthyopsida
ichthyopsidan
ichthyopterygian
ichthyopterygium
ichthyornis
ichthyornithic
ichthyornithoid
ichthyosaur
ichthyosaurian
ichthyosaurid
ichthyosauroid
ichthyosaurus
ichthyosaurus
ichthyosaurus
ichthyosaurus
ichthyosiform
ichthyosis
ichthyosism
ichthyotic
ichthyotomist
ichthyotomous
ichthyotomy
ichthyotoxin
ichthyotoxism
ichthys
ichthyotaxidermy
ichu
ichulle
icica
icicle
icicled
icicles
icier
iciest
icily
iciness
icinesses
icing
icings
icker
ickers
ickier
ickiest
ickle
icky
icod
icon
icones
iconic
iconical
iconically
iconicity
iconism
iconize
iconoclasm
iconoclast
iconoclastic
iconoclastically
iconoclasticism
iconoclastics
iconodule
iconodolic
iconodulist
iconoduly
iconograph
iconographer
iconographic
iconographically
iconographies
iconography
iconolagny
iconolater
iconolatrous
iconolatry
iconological
iconologist
iconology
iconomachal
iconomachist
iconomachy
iconomania
iconomatic
iconomatically
iconomaticism
iconomatography
iconometer
iconometric
iconometrical
iconometrically
iconometry
iconophile
iconophilism
iconophilist
iconophily
iconoplast
iconoscope
iconostas
iconostases
iconostasion
iconostasis
iconotype
icons
iconv
iconvert
icosaheddra
icosahedra
icosahedral
icosahedron
icosahedrons
icosandria
icosasemic
icosian
icositedra
icositetrahedra
icositetrahedron
icositetrahedrons
icosteid
icosteine
icotype
icteric
icterical
icterics
icterine
icteritious
icteritous
icterode
icterogenetic
icterogenic
icterogenous
icterohematuria
icteroid
icterous
icterus
icteruses
ictic
ictuate
idealness
ideological
idealogies
ideologue
idealogy
ideals
idealy
ideamonger
ideas
ideata
ideate
ideated
ideates
ideating
ideation
ideational
ideationally
ideations
ideative
ideatum
idee
ideefixe
ideist
idem
idemfactor
idempotency
idempotent
idence
identifiers
ident
identic
identical
identicalism
identically
identicalness
identities
identifier
identifiers
identifiability
identifiable
identifiableness
identifiably
identific
identification
identificational
identifications
identified
identifier
ideophonous
ideoplastia
ideoplastic
ideoplastics
ideoplasty
ideopraxist
ideotype
ides
idesia
idest
ideta
idgah
idiasm
idic
idigbo
idiobiology
idioblast
idioblastic
idiocromatic
idiocromatic
idiocromatic
idiocromatic
idiocromatic
idiocromatic
idiocromatic
idiocy
idiocyclic
idiocyclic
idiodynamic
idiodynamics
idioelectric
idioelectrical
idiogenesis
idiogenetic
idiogenous
idioglossia
idioglottic
idiograph
idiographic
idiographical
idiophantasm
idiopathic
idiolalia
idiolatry
idiolalic
idiolatrical
idiolects
idiologism
idiolysin
idiom
idiomatic
idiomatical
idiomatically
idiomaticalness
idiomaticity
idiomaticness
idiomelon
idiometer
idiomography
idiomology
idiomorphic
idiomorphically
idiomorphism
idiomorphous
idioms
idiomuscular
idion
idiopathic
idiopathic
idiopathical
idiopathically
idiopathies
idiopathy
idiophanism
idiphanous
idiophone
idiophonic
idioplasm
idioplasmatic
idioplasmic
idiopsychological
idiopsychology
idioreflex
idiorepulsive
idioretinal
idiorrhythmic
idiorrhythmism
idiorrhythmy
idiosome
idiospasm
idiospastic
idiostatic
idiosyncracies
idiosyncracy
idiosyncrasies
idiosyncrasy
idiosyncrasy's
idiosyncratic
idiosyncratical
idiosyncratically
idiot
idiot's
idiots
idiocy
idiotical
idiotical
idiotically
idioticalness
idioticon
idiotise
idiotised
idiotish
idiotising
idiotism
idiotisms
idiotize
idiotized
idiotizing
idiotropian
idiotropic
idiotry
idiots
idiotype
idiotypic
idiotype
idite
iditol
idle
idleby
iled
idleful
idleheaded
idlehood
idleman
idlemen
idlement
idleness
idlenesses
idolism
idolisms
idolist
idolistic
idolization
idolize
idolized
idolizer
idolizers
idolizes
idolizing
idoloclast
idoloclastic
idolodulia
idolographical
idololater
idololatrical
idololatry
idolomancy
idolomania
idolon
idolophyte
idolophytic
idolous
idols
idolum
idoneal
idoneities
idoneity
idoneous
idoneousness
idorgan
idosaccharic
idose
idrialin
idrialine
idrialite
idrosis
idryl
ids
idyl
idyler
idylian
idyism
idylist
idylists
idylize
idyll
idyller
idyllia
idyllian
idyllic
idyllical
idyllically
idyllicism
idyllion
idyllist
idyllists
idyllium
idylls
idyls
ie
ieee
if
ife
ifecks
iff
iffier
iffiest
iffiness
iffinesses
iffy
ifint
ifreal
ifree
ifrit
ifs
igad
igarape
igasuric
igdrasil
igelstromite
ighly
igitur
iglesia
igloo
igloos
iglu
iglus
ign
igname
ignaro
ignatia
ignatian
ignatias
ignavia
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 5588
illegitimatize
illegitimatized
illegitimatizing
illeism
illeist
iller
illos
illes
illest
illeviable
illfare
illguide
illguided
illguiding
illhumor
illhumored
illiberal
illiberalise
illiberalism
illiberality
illiberate
illiberate
illiberate
illiberating
illiberally
illiberalness
illicit
illicitly
illicitness
illicium
illigation
illighten
illimitability
illimitable
illimitableness
illimitably
illimitate
illimitation
illimited
illimitedly
illimitedness
illing
illinition
illinium
illiniums
illinois
illinoisan
illipene
illiquation
illiquid
illiquidity
illiquidly
illish
illation
illite
illiteracies
illiteracy
illiteral
illiterate
illiterately
illiterateness
illiterates
illiterati
illiterature
illites
illitic
illium
illmanneredness
illnature
illness
illness's
illnesses
illocal
illocality
illocally
illocution
illogic
illogical
illogicalities
illogicality
illogically
illogicalness
illogician
ilogicity
ilogics
illoricate
illoricated
illoyal
illoyalty
ills
illtempered
illth
illtreatment
illucidate
illucidation
illucidative
illude
illuded
illudedly
illuder
illuding
illume
illumed
illumer
illumes
illuminability
illuminable
illuminance
illuminant
illuminate
illuminated
illuminates
illuminati
illuminating
illuminatingly
illumination
illuminational
illuminations
illuminatism
illuminatist
illuminative
illuminato
illuminator
illuminators
illuminatory
illuminatus
illumine
illumined
illuminee
illuminer
illumines
illuming
illumining
illuminism
illuminist
illuminize
illuminometer
illuminous
illumonate
illupi
illure
illumrement
illus
illusible
illusion
illusion’s
imbrications
imbricative
imbrices
imbrier
imbrium
imbrocado
imbroccata
imbroglio
imbroglios
imbroin
imbrown
imbrowned
imbrowning
imbrows
imbrue
imbrued
imbruement
imbrues
imbruing
imbrute
imbruted
imbrutement
imbrutes
imbruting
imbu
imbue
imbued
imbuement
imbues
imbuia
imbuing
imburse
imbursed
imbursement
imbursing
imbute
imcnt
imdtly
imelle
imi
imid
imidazol
imidazole
imidazolyl
imide
imides
imidic
imid
imidogen
imids
imiazole
imine
imines
imino
iminoxydrin
iminoxyrea
imipramine
imit
imitability
imitable
imitableness
imitancy
imitant
imitate
imitated
imitatee
imitates
imitating
imitation
imitational
imitationist
imitations
imitative
imitatively
imitativeness
imitator
imitators
imitatorship
imitatress
imitatrix
immaculacy
immaculance
immaculate
immaculately
immaculateness
immailed
immalleable
immanacle
immanacled
immanacling
immanation
immane
immanely
immanence
immanency
immaneness
immanent
immanental
immanentism
immanentist
immanentistic
immanently
immanifest
immanence
immanency
immantle
immantled
immantling
immarble
immarcescible
immarcescibly
immargibleness
immarginate
immartial
immask
immatchable
immatchless
immaterality
immaterial
immaterialise
immaterialised
immaterialising
immaterialism
immaterialist
immaterialistic
immaterialities
immateriality
immaterialization
immaterialize
immaterialized
immaterializing
immaterially
immaterialness
immaterials
immateriate
immatriculate
immatriculation
immature
immatured
immaturely
immaturity
immatureness
immatures
immaturities
immaturity
imminentness
imingle
immingled
immingles
immingling
immminute
immination
imnis
immiscibility
immiscible
immiscibly
immiss
immission
immit
immitigability
immitigable
immitigableness
immitigably
immittance
immitted
immix
immixable
immixed
immixes
immixing
immixt
immixting
immixture
immobile
immobiles
immobilia
immobilisation
immobilise
immobilised
immobilising
immobilism
immobilities
immobility
immobilization
immobilize
immobilized
immobilizer
immobilizes
immobilizing
immoderacy
immoderate
immoderately
immoderateness
immunizes
immunizing
immunoassay
immunochemical
immunochemically
immunochemistry
immunodiffusion
immunoelectrophoresis
immunoelectrophoretic
immunoelectrophoretically
immunochemistry
immunochemistry
immunofluorescence
immunochemical
immunogen
immunogen
immunogenetic
immunogenetical
immunogenetically
immunogenetics
immunogenic
immunogenically
immunogenicity
immunoglobulin
immunohematologic
immunohematological
immunohematology
immunolog
immunologic
immunological
immunologically
immunologies
immunologist
immunologists
immunology
immunopathologic
immunopathological
immunopathologist
immunopathology
immunoreaction
immunoreactive
immunoreactivity
immunosuppressant
immunosuppressants
immunosuppression
immunosuppressive
immunotherapies
immunotherapy
immunotoxin
immuration
impairers
imparing
impairment
impairments
impairs
impala
impalace
impalas
impalatable
impale
impaled
impalement
impalements
impaler
impalers
impales
impaling
impall
impallid
impalm
impalmed
impalpability
impalpable
impalpably
impalsy
impaludism
impanate
impanated
impanation
impanator
impan
impanet
impaneled
impaneling
impanelled
impanelling
impanelment
impanels
impapase
impapyrate
impapyrated
impar
imparadise
imparadised
imparadising
imparalleled
imparasitic
impardonable
impassibility
impassible
impassibleness
impassibly
impassion
impassionable
impassionate
impassionately
impassioned
impassionedly
impassionedness
impassioning
impassionment
impassive
impassively
impassiveness
impassivity
impastation
impaste
impasted
impastes
impasting
impasto
impastoed
impastos
impasture
impaternate
impatible
impatience
impatiency
impatiens
impatient
impatientaceous
impatiently
impatientness
impatronize
impave
impavid
impavidity
impavidly
impawn
impawned
impawning
impawns
impayable
impeach
impeachability
impeachable
impediment
impeditive
impedometer
impedor
impeevish
impel
impelled
impellent
impeller
impellers
impelling
impellor
impellors
impels
impen
impend
impended
impendence
impendency
impendant
impending
impendingly
impends
impenetrability
impenetrable
impenetrableness
impenetrably
impenetrate
impenetration
impenetrative
impenitence
impenitency
impenitent
impenitently
impenitentness
impenitible
impenitibleness
impennate
impennous
impent
impeople
imper
imperance
imperant
imperate
imperation
imperatival
imperativally
imperforated
imperforates
imperforation
imperformable
imperia
imperial
imperialin
imperialine
imperialisation
imperialise
imperialised
imperialising
imperialism
imperialist
imperialist's
imperialistic
imperialistically
imperialists
imperialities
imperiality
imperialization
imperialize
imperialized
imperializing
imperially
imperialness
imperials
imperialty
imperii
imperial
imperiled
imperiling
imperilled
imperilling
imperilment
imperiments
imperils
imperious
imperiously
imperiousness
imperish
imperishability
imperishable
imperishableness
imperishably
imperite
imperium
imperiums
impermanence
impermanency
impermanent
impermanently
impermeabilities
impermeability
impermeabilization
impermeabilize
impermeable
impermeableness
impermeably
impermeated
impermeator
impermissibility
impermissible
impermissibly
impermixt
impermutable
imperperia
imps
imperscriptible
imperscrutable
imperseverant
impersonable
impersonal
impersonalisation
impersonalise
impersonalised
impersonalising
impersonalism
impersonalities
impersonality
impersonalization
impersonalize
impersonalized
impersonalizing
impersonally
impersonate
impersonated
impersonates
impersonating
impersonation
impersonations
impersonative
impersonator
impersonators
impersonatress
impersonatrix
impersonification
impersonify
impersonization
impersonize
imperspicable
imperspicuity
imperspicuous
imperspirability
imperspirable
impersuadability
impersuadable
impersuadableness
impersuasibility
impersuasible
impersuasibleness
impersuasibly
impertinacy
impertinence
impertinences
impertinencies
impertinency
impertinent
impertinently
impertinentness
impertransible
imperturbability
imperturbable
imperturbableness
imperturbably
imperturbation
imperturbed
impersive
impervertible
impervestigable
imperviability
imperviable
imperviableness
impervial
impervious
imperviously
imperviousness
impery
impest
impestation
impester
impeticos
impetiginous
impetigo
impings
impinguate
impious
impiously
impiousness
impis
impish
impishly
impishness
impiteous
impiably
implacability
implacable
implacableness
implacably
implacement
implacental
implacentalia
implacentate
implant
implantable
implantation
implanted
implanter
implanting
implants
implastic
implasticity
implate
implausibilities
implausibility
implausible
implausibleness
implausibly
implieach
implead
impleadable
impleaded
impleadable
impleading
impleads
impleasing
impledge
impleged
impleges
impleging
implement
implementable
implemental
implementation
implementation's
implementational
implementations
implemented
implementer
implementers
implementer's
implementors
implements
implete
impletion
impletive
implex
impliability
impliable
impliably
implial
implicant
implicant's
implicants
implicate
implicated
implicately
implicateness
implicates
implicating
implication
implicational
implications
implicative
implicatively
implicativeness
implicatory
implicit
implicitly
implicitness
implicit
implied
impliedly
implicatedness
implies
impling
implode
imploded
implodont
implodes
imploding
implorable
imploration
implorations
implorator
imploratory
implore
implored
implorer
implorers
implores
imploring
imploringly
imploringness
implosion
implosions
implosive
implosively
implume
implumed
implunge
impluvia
impluvium
imply
implying
impocket
impogo
impoison
impoisoner
impolarily
impolarizable
impolder
impolicies
impolicy
impolished
impolite
impolitely
impoliteness
impolitic
impolitical
impolitically
impoliticalness
impoliticly
impoliticness
impollute
importunement
importuner
importunes
importuning
importunite
importunities
importunity
imposable
imposableness
imposal
impose
imposed
imposition
imposer
imposers
imposes
imposing
imposingly
imposingness
imposition
imposition's
impositional
impositions
impositive
impossibilia
impossibilification
impossibilism
impossibilist
impossibilitate
impossibilities
impossibility
impossible
impossibleness
impossibly
impost
imposted
imposter
imposterous
imposters
imposthumate
imposthume
imposting
impostor
impostor's
impositorism
impostors
impositorship
impostress
impresario
impresarios
impresas
impresscience
impresscribable
impresscriptibility
impresscriptible
impresscriptibly
imprese
impresses
impress
impressa
impressable
impressari
impressario
impressed
impressedly
impresser
impressers
impresses
impressibility
impressible
impressibleness
impressibly
impressing
impression
impression's
impressionability
impressionable
impressionableness
impressionably
impressional
impressionalist
impressionality
impressionally
impressionary
impressionis
impressionism
impressionist
impressionistic
impressionistically
impressionists
impressionless
impressions
impressive
impressively
impressiveness
impressment
improbatory
improbity
improcreant
improcurability
improcurable
improducible
improduction
improficiency
improficiency
improfitable
improgressive
improgressively
improgressiveness
improlific
improlificate
improlificical
imprompt
impromptitude
impromptu
impromptuary
impromptuist
improof
improper
improperation
improperly
improprierness
impropitious
improportion
impropriate
impropriated
impropriating
impropriation
impropriator
impropriatrice
impropriatrix
improprieties
impropriety
improprium
improperly
improsperity
improsperous
improvability
improvable
improvableness
improvably
improve
improved
improvement
improvements
improver
improvers
improvership
improves
improvided
improvidence
improvident
improvidentially
improvidently
improving
improvingly
improvisate
improvisation
improvisation's
improvisational
improvisations
improvisatize
improvisator
improvisatore
improvisatorial
improvisatorially
improvisatorize
improvisatory
improvisatrice
improvise
improvised
improvisedly
improviser
improvisers
improvises
improvising
improvision
improviso
improvisor
improvisors
improvvisatore
improvvisatori
imprudence
imprudency
imprudent
imprudential
imprudently
imprudentness
imps
impsonite
impsonite
impuberal
impurify
impuritan
impuritanism
impurities
impurity
impurity's
impurple
input
imputability
imputable
imputableness
imputably
imputation
imputations
imputative
imputatively
imputativeness
impute
imputed
imputedly
imputer
imputers
imputes
imputing
imputrescence
imputrescibility
imputrescible
imputrid
imputting
impv
impy
imshi
imsonic
imu
imvia
in
in't
inabilities
inability
able
inabordable
inabstinence
inabstracted
inabusively
inaccentuated
inaccentuation
inacceptable
inaccessibility
inaccessible
inaccessibleness
inaccessibly
inaccordance
inaccordancy
inaccordant
inaccordantly
inaccuracies
inaccuracy
inaccurate
inaccurately
inaccurateness
inachid
inachoid
inacquaintance
inacquiescent
inact
inactinic
inaction
inactionist
inactions
inactivate
inactivated
inactivates
inactivating
inactivation
inactivations
inactive
inactively
inactiveness
inactivities
inactivity
inactuate
inactuation
inadaptability
inadaptable
inadaptation
inadaptive
inadept
inadeptly
inadeptness
inadequacies
inadequacy
inadequate
inadequately
inadequateness
inadequation
inadequative
inadequately
inadherent
inadhesion
in adhesive
in adjustment
in adjustable
inadmissability
inadmissible
inadmissibility
inadmissible
inadmissibly
inadulterate
inadventurous
inadventant
inadventantly
inadver tence
inadvertences
inadvertencies
inadvertency
in advertent
inadvertently
in advertisement
inadvisability
inadvisable
inadvisableness
inadvisably
in advisedly
inaesthetic
inaffability
inaffable
inaffably
inaffectation
ina cted
inagglutimability
inagglutinable
inaggressive
in agile
inaidable
inaidible
inaja
inalacrity
inalienability
inalienable
inalienableness
inalienably
inalimental
inalterability
inalterable
inalterableness
inalterably
inamia
inamissibility
inamissible
inamissibleness
inamorata
inamoratas
inamorate
inamoration
inamorato
inamoratos
inamour
inamovability
inamovable
inane
inanely
inaneness
inaner
inaners
inanes
inanest
inanga
inangular
inangulate
inanimadvertence
inanimate
inanimated
inanimately
inanimateness
inanimation
inanities
inanition
inanity
inantherate
inapathy
inapostate
inapparent
inapparently
inappealable
inappeasable
inappellability
inappellable
inappendiculate
inapperceptible
inappertinent
inappetence
inappetency
inappetent
inappetible
inapplicability
inapplicable
inapplicableness
inapplicably
inapplication
inapposite
inappositely
inappositeness
inappreciability
inappreciable
inappreciably
inappreciation
inappreciative
inappreciatively
inappreciativesness
inapprehensibility
inapprehensible
inapprehensibly
inapprehension
inapprehensive
inapprehensively
inapprehensiveness
inapproachability
inapproachable
inapproachably
inappropriable
inappropriableness
inappropriate
inappropriately
inappropriateness
inapropos
inapt
inaptitude
inaptly
inaptness
inaquate
inaqueous
inarable
inarach
inarched
inarches
inarching
inarculum
inarguable
inarguably
inark
incapabilities
incapability
incapable
incapableness
incapably
incapacious
incapacitousness
incapacitant
incapacitate
incapacitated
incapacitates
incapacitating
incapacitation
incapacitator
incapacities
incapacity
incapsulate
incapsulated
incapsulating
incapsulation
incaptivate
incarcerate
incarcerated
incarcerates
incarcerating
incarceration
incarcerations
incarcerative
incarcerator
incarcerators
incardinate
incardinated
incardinating
incardination
incarmined
incarn
incarnadine
incarnadined
incarnadines
incarnadining
incarnalise
incarnalised
incarnalising
incarnalyze
incarnalized
incarnalizing
incarnant
incarnate
incarnated
carnates
carnating
carnation
incarnation's
carnational
carnationist
carnations
carnative
carve
icas
icase
icased
icasement
icases
icasing
icask
icast
icastellate
icastellated
icatenate
icatenation
icautelous
icaution
icautious
icautiously
icautiousness
icavate
icavated
icavation
icave
icavern
icavo
incede
incedingly
incelebrity
incend
incendiaries
incendiarius
incendiary
incendious
incendium
incendivity
incensation
incense
inclined
inliner
inliners
inlines
inlining
inclinograph
inclinometer
inclip
inclipped
inclipping
inclips
incloister
inclose
inclosed
incloser
inclosers
incloses
inclosing
inclosure
incloude
includable
include
included
includedness
includer
includes
includible
including
inclusa
incluse
inclusion
inclusion's
inclusionist
inclusions
inclusive
inclusively
inclusiveness
inclusory
inclusus
incoached
incoacted
incoagulable
incoalescence
incocted
incoercible
incoexistence
incoffin
incog
incogent
incogitability
incogitable
incogitance
incogitancy
incogitant
incogitantly
incogitative
incognita
incognite
incognitive
incognito
incognitos
incognizability
incognizable
incognizance
incognizant
incognoscent
incognoscibility
incognoscible
incogs
incoherence
incoherences
incoherencies
incoherency
incoherent
incoherentific
incoherently
incoherentness
incohering
incohesion
incohesive
incoincidence
incoincident
incolant
incolumity
incomber
incombining
incombustibility
incombustible
incombustibleness
incombustibly
incombustion
income
incomeless
incomer
incomers
incomes
incompassionate
incompassionately
incompassateness
incompatibilities
incompatibility
incompatibility's
incompatible
incompatibleness
incompatibles
incompatibly
incompendious
incompensated
incompensation
incompetence
incompetence
incompetencies
incompetency
incompetent
incompetent's
incompetently
incompetentness
incompetents
incompatible
incompleatability
incompletable
incompletableness
incomplete
incompleted
incompletely
incompleteness
incompletion
incomplex
incompliable
incompliance
incompliancies
incompliancy
incompliant
incompliantly
incomplicate
incomplying
incomportable
incomposed
incomposedly
incomposedness
incomposite
incomposibility
incompossible
incomposure
incomprehended
incomprehending
incomprehendingly
incomprehensibility
incomprehensible
incomprehensible
incomprehensibleness
incomprehensibilities
incomprehensibly
incomprehension
incomprehensive
incomprehensively
incomprehensiveness
incompressable
incompressibility
incompressible
incompressibles
incompressibly
incompt
incomputable
incomputably
inconcealable
inconceivabilities
inconceivability
inconceivable
inconceivableness
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconceivable
inconceivables
inconceivably
inconcurring
inconcussible
incondensability
incondensable
incondensibility
incondensible
inconditie
inconditional
inconditionate
inconditioned
inconducive
inconel
inconfirm
inconfirmed
inconform
inconformable
inconformably
inconformity
inconfused
inconfusedly
inconfusion
inconfutable
inconfutably
incongealable
incongealableness
incongenerous
incongenial
incongeniality
inconglomerate
incongruence
incongruent
incongruently
incongruities
incongruity
incongruous
incongruously
incongruousness
inconjoinable
inconjunct
inconnected
inconnectedness
inconnection
inconnexion
inconnu
inconnus
inconquerable
inconscience
inconscent
inconsciently
inconscionable
inconscious
inconsciously
inconsecutive
inconsecutively
inconsecutiveness
inconsequence
insequent
insequentia
insequential
inconsequentiality
inconsequently
inconsequently
inconsequentness
inconsiderable
inconsiderableness
inconsiderably
inconsideracy
inconsiderate
inconsiderately
inconsiderateness
inconsideration
inconsidered
inconsistable
inconsistence
inconsistencies
inconsistency
inconsistency's
inconsistent
inconsistently
inconsistentness
inconsolability
inconsolable
inconsolableness
inconsolably
insole
inconsolately
inconsonance
inconsontant
inconsontantly
inconsipuous
inconsipuously
inconsipuousness
inconstance
inconstancy
inconstant
inconstantly
inconstantness
inconstruable
inconsultable
inconsumable
inconsumably
inconsumed
inconsummate
inconsumptible
incontaminable
incontaminate
incontaminateness
incontemptible
incontestabilities
incontestability
incontestable
incontestableness
incontestably
incontested
incontiguous
incontinence
incontinencies
incontinency
incontinent
incontently
incontinuity
incontinuous
incontracted
incontractile
incontraction
incontrollable
incontrollably
incontrolled
incontrovertibility
incontrovertible
incontrovertibleness
incontrovertibly
inconvenience
inconvenienced
inconveniences
inconveniencies
inconveniencing
inconveniency
inconvenient
inconvenienti
inconveniently
inconvenientness
inconversable
inconversant
inconversibility
inconverted
inconvertibilities
inconvertibility
inconvertible
inconvertibleness
inconvertibly
inconvinced
inconvincedly
inconvincibility
inconvincible
inconvincibly
incony
incoordinate
incoordinated
incoordination
incopresentability
incopresentable
incor
incord
incornished
incoromate
incoronated
incoronation
incorp
incorporable
incorporal
incorporality
incorporally
incorporalness
incorporate
incorporated
incorporatedness
incorporates
incorporating
incorporation
incorporations
incorporative
incorporator
incorporators
incorporatorship
incorporeal
incorporealism
incorporealist
incorporeality
incorporealize
incorporeally
incorporealness
incorporeities
incorporeity
incorporeous
incorpse
incorpsed
incorpse
incorpsing
incorr
incorrect
incorrection
incorrectly
incorrectness
incorrespondence
incorrespondency
incorrespondent
incorresponding
incorrigibility
incorrigible
incorrigibleness
incorrigibly
incorrodable
incorrodible
incorrosive
incrupt
incrupted
incruptibilities
incruptibility
incruptible
incruptibleness
incruptibly
incruption
incruptive
incruptly
incruptness
incoup
incourse
incourteous
incourteously
incr
incra
incrash
incrassate
incrassated
incrassating
incrassation
incrassative
increaseable
increasableness
increase
increased
increasedly
increaseful
increasement
increaser
increasers
increases
increasing
increasingly
increate
increately
increative
incredibilities
incredibility
incredible
incredibleness
incredibly
increditability
incredible
incredited
incredulity
incredulous
incredulously
incredulousness
increep
increeping
incremable
incremate
incremated
incremating
incremation
increment
incremental
incrementalism
incrementalist
incrementally
incrementation
incremented
incrementer
incrementing
increments
increpate
increpation
incrept
increscence
increscent
incubators
incubatory
incube
incubee
incubi
incubiture
incubous
incubus
incubuses
incudal
incudate
incudectomy
incudes
incudomalleal
incudostapedial
inculcate
inculcated
inculcates
inculcating
inculcation
inculcative
inculcator
inculcatory
inculk
inculp
inculpability
inculpable
inculpableness
inculpably
inculpate
inculpated
inculpates
inculpating
inculpation
inculpative
inculpatory
incult
incultivated
incultivation
inculture
incumbant
incumbence
incumbencies
incumbency
incumbent
incumbentess
incumbently
incumbents
incumber
incumbered
incumbering
incumberment
incumbers
incumbition
incumbrance
incumbrancer
incumbrances
incumbar
incunabula
incunabular
incunabulist
incunabulum
incunabulum
incuneation
incur
incurability
incurable
incurableness
incurably
incuriosity
incurious
incursively
incuriousness
incurment
incurable
incurred
incurrence
incurrent
incurrer
incurring
incurs
incurse
incursion
incursionary
incursionist
incursions
incursive
incertain
incurve
incurved
incurves
indecencies
indecency
indecent
indecenter
indecentest
indecently
indecentness
indeciduate
indeciduous
indecimable
indecipherability
indecipherable
indecipherableness
indecipherably
indecision
indecisive
indecisively
indecisiveness
indecl
indeclinable
indeclinableness
indeclinably
indecomponible
indecomposable
indecomposableness
indecorous
indecorously
indecorousness
indecorum
indeed
indeedy
indef
indefaceable
indefatigability
indefatigable
indefatigableness
indefatigably
indefeasibility
indefeasible
indefeasibleness
indefeasibly
indefeatable
indefectibility
indefectible
indefectibly
indefective
indefensibility
indefensible
indefensibleness
indefensibly
indefensive
indeficiency
indeficient
indeficiently
indefinability
indefinable
indefinableness
indefinably
infinite
indefinitely
indefiniteness
indefinitive
indefinitively
indefinitiveness
indefinitude
indefinity
indeflectible
indefluent
indeformable
indehiscence
indehiscent
indelectable
indelegability
indelegable
indeliberate
indeliberately
indeliberateness
indeliberation
indelibility
indelible
indelibleness
indelibly
indelicacies
indelicacy
indelicate
indelicately
indelicateness
indemnification
indemnifications
indemnificator
indemnificatory
indemnified
indemnifier
indemnifies
indemnify
indemnifying
indifferentism
indifferentist
indifferentistic
indifferently
indifference
indifulvin
indifuscin
indigen
indigena
indigenae
indigenal
indigenate
indigence
indigency
indigene
indigeneity
indigenes
indigenist
indigenerity
indigenous
indigenously
indigenousness
indigens
indigent
indigently
indigents
indiges
indigest
indigested
indigestedness
indigestibility
indigestibilty
indigestible
indigestibleness
indigestibly
indigestion
indigestive
indigitamenta
indigitate
indigation
indigites
indiglucin
indign
indignance
indignancy
indignant
indignantly
indignation
indignatory
indignified
indignify
indignifying
indignities
indignity
indignly
indigo
indigoberry
indigoes
indigoferous
indigogen
indigoid
indigoids
indigometer
indigos
indigotate
indigotic
indigotin
indigotindisulphonic
indigotine
indiguria
indihumin
indii
indijbiously
indilatory
indiligence
indimensible
indimensional
indiminishable
indimple
indin
indirect
indirected
indirecting
indirection
indirections
indirectly
indirectness
indirects
indirubin
indirubine
indiscernibility
indiscernible
indiscernibles
indiscernibly
indiscernible
indiscernibility
indiscerptible
indiscerptibleness
indiscerptibly
indisciplinable
indiscipline
indisciplined
indiscoverable
indiscoverably
indiscovered
indiscovery
indiscreet
indiscreetly
indiscreetness
indiscrete
indiscretely
indiscretion
indiscretionary
indiscretions
indiscrimanently
indiscriminantly
indiscriminate
indiscriminated
indiscriminately
indiscriminariness
indiscriminating
indiscriminatingly
indiscrimination
indiscriminative
indiscriminatively
indiscriminatory
indiscussable
indiscussed
indiscussible
indish
indispensable
indispensabilities
indispensability
indispensable
indispensable
indispensableness
indispensably
indispensable
indispersed
indispose
indisposed
indisposedness
indisposing
indisposition
indispositions
indisputability
indisputable
indisputableness
indisputably
indisputed
indissipable
indissociable
indissociably
indissolubility
indissoluble
indissolubleness
indissolubly
indissolute
indissolvability
indissolvable
indissolvableness
indissolvably
indissuadable
indissuadably
indistance
indistant
indistinct
indistinctible
indistinction
indistinctive
indistinctively
indistinctiveness
indistinctly
indistinctness
indistinguishability
indistinguishable
indistinguishableness
indistinguishably
indistinguished
indistinguishing
indistortable
indistributable
indisturbable
indisturbance
indisturbed
inditch
indite
indited
inditement
inditer
inditers
indites
inditing
indium
indiums
indiv
indivertible
indivertibly
individ
individable
indived
individua
individual
individual's
individualisation
individualise
individualised
individualiser
individualising
individualism
individualist
individualistic
individualistically
individualists
individualities
individuality
individualization
individualize
individualized
individualizer
individualizes
individualizing
individualizingly
individually
individuals
individuate
individuated
individuates
individuating
individuation
individuative
individuator
individuity
individuous
individuum
individuums
indivinable
indivinity
indivisibility
indivisible
indivisibleness
indivisibly
indivisim
indivision
indn
indochina
indochinese
indocibility
indocible
indocibleness
indocile
indocilely
indocility
indoctrinate
indoctrinated
indoctrinates
indoctrinating
indoctrination
indoctrinations
indoctrinator
indoctrine
indoctrinization
indoctrinize
indoctrinized
indoctrinizing
indogen
indogenide
indoin
indol
indole
indolence
indolent
indolently
indoles
indolin
indoline
indologenous
indoloid
indols
indolyl
indomable
indomethacin
indomitability
indomitable
indomitableness
indomitably
indone
indonesia
indonesian
inducedly
inducement
inducement's
inducements
inducer
inducers
induces
induciae
inducibility
inducible
inducing
inductive
induct
inductance
inductances
inducted
inductee
inductees
inducteous
inductile
inductility
inducting
induction
induction's
inductional
inductionally
inductionless
inductions
inductive
inductively
inductiveness
inductivity
inductometer
inductophone
inductor
inductor's
inductorium
inductors
inductory
inductoscope
inductothermy
inductril
inducts
indue
indued
induement
indues
induing
induism
indulge
indulgeable
indulged
indulgement
indulgence
indulgence's
indulgenced
indulgences
indulgencies
indulgency
indulgent
indulgential
indulgentially
indulgently
indulgentness
indulger
indulgers
indulges
indulgiate
indulging
indulgingly
indulin
induline
indulines
indulins
indultz
indulto
indults
indument
indumenta
indumentum
indumentums
induna
induplicate
induplication
induplicative
indurable
indurance
indurate
indurated
indurates
indurating
induration
indurations
indurative
indure
indurite
indus
indusia
indusial
indusiate
indusiated
indusiform
indusoid
indusium
industrial
industrialisation
industrialise
industrialised
industrialising
industrialism
industrialist
industrialist's
industrialists
industrialization
industrialize
industrialized
industrializes
industrializing
industrially
industrialness
industrials
industries
industrious
industriously
industriousness
industrochemical
industry
industry's
industrys
indutive
induviæ
induviæal
induviate
indwell
indweller
indwelling
indwellingness
indwells
indwelt
indy
indyl
indyllic
inearth
inefficiency
efficiencies
efficiency
inefficient
inefficiently
ineffulgent
inegalitarian
inelaborate
inelaborated
inelaborately
inelastic
inelastically
inelasticate
inelasticity
inelegance
inelegances
inelegances
inelegancy
inelegant
inelegantly
ineligibility
ineligible
ineligibleness
ineligibles
ineligibly
ineliminable
ineloquence
ineloquent
ineloquently
ineluctability
ineluctable
ineluctably
ineludible
ineludibly
inembryonate
inemendable
inemotivity
inemulous
inenarrability
inenarrable
inenarrably
inenergic
inenubilable
inenucleable
inept
ineptitude
ineptly
ineptness
inequable
inequal
inequalitarian
inequalities
inequality
inequally
inequalness
inequation
inequiauxial
inequicostate
inequidistant
inequigranular
inequilateral
inequilaterally
inequilibrium
inequilobate
inequilobed
inequipotential
inequipotentiality
inequitable
inequitableness
inequitably
inequitate
inequities
inequity
inequivalent
inequivalve
inequalved
inequivalvular
ineradicability
ineradicable
ineradicableness
ineradically
inerasable
inerasableness
inerasably
inerasible
inergetic
inerm
inermous
inerarrability
inerarrable
inerarrableness
inerarrably
inerancy
inerant
inerantly
ineratic
inerring
inerringly
inerroneous
inert
inertance
inertia
inertial
inertially
inertias
inertion
inertly
inertness
inerts
inerubescent
inerudite
ineruditely
inerudition
inescapable
inescapableness
inescapably
inescate
inescation
inescent
inescutcheon
inesite
inesential
inessentiality
inessive
inesthetic
inestimability
inestimable
inestimableness
inestimably
inestivation
inethical
ineunt
ineuphonious
inevadible
inevadibly
inevaporable
inevasible
inevasibleness
inevasibly
inevidence
inevident
inevitabilities
inevitability
inevitable
inevitableness
inevitably
inexact
inexacting
inexactitude
inexactly
inexactness
inexcellence
inexcitability
inexcitable
inexcitableness
inexcitably
inexclusive
inexclusively
inexcommunicable
inexcusability
inexcusable
inexcusableness
inexcusably
inexecrable
inexecutable
inexecution
inexertion
inexhalable
inexhaust
inexhausted
inexhaustedly
inexhaustibility
inexhaustible
inexhaustibleness
inexhaustibly
inexhaustive
inexhaustively
inexhaustless
inexigible
inexist
inexistence
inexistence
inexistent
inexorability
inexorable
inexorableness
inexorably
inexpansible
inexpansive
inexpectable
inexpectable
inexpectance
inexpectancy
inexpectant
inexpectation
inexpected
inexpectedly
inexpectedness
inexpedience
inexpediency
inexpedient
inexpeditiously
inexpensive
inexpensively
inexpensiveness
inexperience
inexperienced
inexpert
inexpertly
inexpertness
inexperts
inexpiable
inexpiableness
inexpiably
inexpiate
inexplainable
inexplorable
inexplicable
inexplicableness
inexplicables
inexplicably
inexplicit
inexplicitly
inexplicitness
inexplorable
inexplosive
inexportable
inexposable
inexposure
inexpress
inexpressibilities
inexpressibility
inexpressible
inexpressibleness
inexpressibles
inexpressibly
inexpressive
inexpressively
inexpressiveness
inexpugnability
inexpugnable
inexpugnableness
inexpugnably
inexpungeable
inexpungibility
inexpungible
inexsuperable
inextant
inextended
inextensibility
inextensible
inextensile
inextension
inextensional
inextensive
inextender
inexterminable
inextinct
inextinguible
inextinguishability
inextinguishable
inextinguishables
inextinguishably
inextinguished
inextirpable
inextirpableness
inextricable
inextricability
inextricable
inextricableness
inextricably
ineye
inf
inface
infair
infall
infall
infallibilism
infallibilist
infallibility
infallible
infallibleness
infallibly
infallid
infalling
in falsifiable
infamisation
infamatory
infame
infamed
infamia
infamies
infamiliar
infamiliar
infamilarity
infamize
infamized
infamizing
infamonize
infamous
infamously
infamousness
infamy
infancies
infancy
infand
infandous
infang
infanglement
infangthef
infangthief
infans
infant
infant's
infanta
infantado
infantas
infante
infantes
infanthood
infanticidal
infanticide
infanticides
infantile
infantilism
infantility
infantilize
infantine
infantine
infantive
infantlike
infantly
infantries
infantry
infantryman
infantrymen
infants
infarce
infarct
infarctate
infectum
infectuous
infecund
infecundity
infeebler
infeed
infeet
infeeting
infeiment
infeijdation
infelicific
infelicities
infelicitous
infelicitously
infelicitousness
infelicity
infelonious
infelt
infeminine
infenible
infedation
infeof
infeof
infefoff
infefoffed
infefoffing
infefoffment
infefoffs
infer
inferable
inferably
inference
inference's
inferences
inferent
inferential
inferentialism
inferentialist
inferentially
inferial
inferible
inferior
inferior's
inferiorism
inferiorities
inferiority
inferiorize
inferiorly
inferiorness
infinite
ininitely
infiniteness
infinites
infinitesimal
infinitesimalism
infinitesimality
infinitesimally
infinitesimalness
infinitesimals
infiniteth
infinites
infinitieth
infinitival
infinitivaly
infinitive
infinitive's
infinitively
infinitives
infinitize
infinitized
infinitizing
infinitude
infinitum
infinituple
infinity
infirn
infirrnable
infirrnarer
infirmaress
infirrnarian
infirrnaries
infirmary
infirrnate
infirrnation
infirrnative
infirrnatory
infirrned
infirrniring
infirrnities
infirrnity
infirrnily
infirrnness
infirms
infissile
infit
infitter
infix
infixal
infixation
infixed
infixes
infixing
infixion
infixions
infl
inflammable
inflame
inflamed
inflamedly
inflamedness
inflamer
inflamers
inflames
inflaming
inflamingly
inflammabilities
inflammability
inflammable
inflammableness
inflammably
inflammation
inflammations
inflammative
inflammatorily
inflammatory
inflatable
inflate
inflated
inflatedly
inflatedness
inflater
inflaters
inflates
inflatable
inflating
inflatingly
inflation
inflationary
inflationary
inflationism
inflationist
inflationists
inflations
inflative
inflator
inflators
infracotyloid
infract
infracted
infractible
infracting
infraction
infractions
infractor
infracts
infradentary
infradiaphragmatic
infragenual
infraglacial
infraglenoid
infraglottic
infragrant
infragular
infrahuman
infrahyoid
infralabial
infralapsarian
infralapsarianism
infralinear
infralittoral
inframammary
inframamillary
inframandibular
inframarginal
inframaxillary
inframedian
inframercurial
inframercurian
inframolecular
inframontane
inframundane
infranatural
infranaturalism
infranchise
infrangibility
infrangible
infrangibleness
infrangibly
infranodal
infranuclear
infraoccipital
infraocclusion
infraocular
infraoral
infraorbital
infraordinary
infrapapillary
infrapatellar
infraperipherial
infrapose
infraposed
infraposing
infraposition
infraprotein
infrapubian
infraradular
infrared
infrareds
infrarenal
infrarenally
infrarimal
infrascapular
infrascapularis
infrascientific
infrasonic
infrasonics
infraspecific
infraspinal
infraspinate
infraspinatus
infraspinous
infrastapedial
infrasternal
infrastigmatal
infrastipular
infrastructure
infrastructures
infrasutral
infratemporal
infraterrene
infrateritorial
infrathoracic
infratonsillar
infratraguchal
infratrochanteric
infratrochlear
infratubal
infraturbinal
infravaginal
infraventral
infree
infrequency
ingulfed
ingulfing
ingulfment
ingulfs
ingurgitate
ingurgitated
ingurgitating
ingurgitation
ingustable
inhabile
inhabit
inhabitability
inhabitable
inhabitance
inhabitancies
inhabitancy
inhabitant
inhabitant's
inhabitants
inhabitate
inhabitation
inhabitativo
inhabitativeness
inhabited
inhabitedness
inhabiter
inhabiting
inhabitiveness
inhabitress
inhabits
inhalant
inhalants
inhalation
inhalational
inhalations
inhalator
inhalators
inhale
inhaled
inhalement
inhalent
inhaler
inhalers
inhales
inhaling
inhame
inhance
inharmonic
inhumes
inhuming
inhumorous
inhumorously
inia
inial
inidoneity
inidoneous
inimaginable
inimicability
inimicable
inimical
inimicality
inimically
inimicalness
inimicitious
inimicous
inimitability
inimitable
inimitableness
inimitably
inimitative
iniome
iniomous
inion
inique
iniquitable
iniquitably
iniquities
iniquitous
iniquitously
iniquitousness
iniquity
iniquity's
iniquous
inirritability
inirritable
inirritably
inirritant
inirritative
inisle
inissuable
init
initial
initialer
initialing
injected
injecting
injection
injection's
injections
injective
injector
injectors
injects
injelly
injoin
injoint
injucundity
injudicial
injudicially
injudicious
injudiciously
injudiciousness
injunct
injunction
injunction's
injunctions
injunctive
injunctively
injurable
injure
injured
injuredly
injuredness
injurer
injurers
injures
injuria
injuries
injuring
injurious
injurlously
injuriousness
injury
injury's
injust
injustice
injustice's
injustices
injustifiable
injustified
injustly
ink
inkberries
inkstain
inkstand
inkstandish
inkstands
inkster
inkstone
inkweed
inkwell
inkwells
inkwood
inkwoods
inkwriter
inky
inlace
inlaced
inlaces
inlacing
inlagary
inlagation
inlaid
inlaik
inlake
inland
inlander
inlanders
inlandish
inlands
inlapidate
inlapidatee
inlard
inlaut
inlaw
inlawry
inlay
inlayed
inlayer
inlayers
inlaying
inlays
inleague
inleagued
inleaguer
inleaguing
inleak
inleakage
inless
inlet
inlet's
innermostly
innerness
inners
innersole
innerspring
innervate
innervated
innervates
innervating
innervation
innervational
innervations
innerve
innerved
innerves
innerving
inness
innest
innet
innholder
inning
innings
inninmorite
innitency
innkeeper
innkeepers
inless
innobedient
innocence
innocencies
innocency
innocent
innocenter
innocentest
innocently
innocentness
innocents
innocuity
innoculate
innoculated
innoculating
innoculation
innocuous
innocuously
innocuousness
innodate
innominability
innominable
inobnoxious
inobscorable
inobservable
inobservance
inobservancy
inobservant
inobservantly
inobservantness
inobservation
inobtainable
inobtrusive
inobtrusively
inobtrusiveness
inobvious
inocarpin
inoccupation
inochondritis
inochondroma
inocula
inoculability
inoculable
inoculant
inocular
inoculate
inoculated
inoculates
inoculating
inoculation
inoculations
inoculative
inoculativity
inoculator
inoculum
inoculums
inocystoma
inocyte
inodiate
inodorate
inodorous
inodorously
inodorousness
inoepithelioma
inoffending
inoffensive
inoffensively
inoffensiveness
inofficial
inofficially
inofficiosity
inofficious
inofficiously
inofficiousness
inogen
inogenesis
inogenic
inigenous
inoglia
inhymenitic
inolith
inoma
inominous
inomyoma
inomyositis
inomyxoma
inone
inoneuroma
inoperability
inoperable
inoperation
inoperational
inoperative
inoperativeness
inopercular
inoperculate
inopinable
inopinate
inopinately
inopine
inopportune
inopportunely
inopportuneness
inopportunism
inopportunist
inopportunity
inoppressive
inoppugnable
inopulent
inorb
inorderly
inordinacy
inordinance
inordinancy
inordinary
inordinate
inordinately
inordinateness
inordination
inorg
inorganic
inorganical
inorganically
inorgany
inorganizable
inorganization
inorganized
inoriginate
inornate
inornateness
inorthography
inosclerosis
inoscopy
inosculate
inosculated
inosculating
inosculation
inosic
inosilicate
inosin
inosine
inosinic
inosite
inosites
inositol
inositols
inostensible
inostensibly
inotropic
inower
inoxidability
inoxidable
inoxidizable
inoxidize
inoxidized
inoxidizing
inparabola
inpardonable
inparfit
inpatient
inpatients
inpayment
inpensioner
inphase
inphases
inpolygon
insatiateness
insatiety
insatisfaction
insatisfactorily
insaturable
inscape
inscension
inscibe
inscience
inscient
inscious
insconce
inscribable
inscribability
inscribe
inscribed
inscriber
inscribers
inscribes
inscribing
inscript
inscriptible
inscription
inscription's
inscriptional
inscriptioned
inscriptionist
inscriptionless
inscriptions
inscriptive
inscriptively
inscriptured
inscroll
inscrollled
inscrolling
inscrolls
inscrutability
inscrutable
inscrutableness
inscrutables
inscrutably
insculp
insculped
insculping
insculps
insculpture
insculptured
inscutcheon
inserters
inserting
insertion
insertion's
insertional
insertions
insertive
inserts
inserve
inserviceable
inservient
insession
insessor
insessores
insessorial
inset
insets
insetted
insetter
insetters
inserting
inseverable
inseverably
inshade
inshave
insheath
insheathe
insheathed
insheathing
insheaths
inshell
inshining
inship
inshoe
inshoot
inshore
inshrine
inshrined
inshrines
inshrining
inside
insident
insider
insiders
insides
insidiate
insidiation
insidiator
insidiosity
insidious
insidiously
insidiousness
insight
insight's
insighted
insightful
insightfully
insights
insigne
insignes
insignia
insignias
insignificance
insignificancies
insignificancy
insignificant
insignificantly
insignificative
insignisigne
insignment
insimplicity
insimulate
insincere
insincerely
insincerely
insincerities
insincerity
insinew
insinking
insinuant
insinuate
insinuated
insinuates
insinuating
insinuatingly
insinuation
insinuations
insinuative
insinuatively
insinuativeness
insinuator
insinuators
insinuatory
insinuendo
insipid
insipidities
insipidity
insipidly
insipidness
insipience
insipient
insipiently
insist
insisted
insistence
insistencies
insistency
insistent
insistently
insister
insisters
insisting
insistingly
insistive
insists
insisture
insistuvree
insite
insitiency
insition
insitious
insnare
insnared
insnarement
insnarer
insnarers
insnares
insnaring
insobriety
insociability
insociable
insociableness
insociably
insocial
insocially
insociate
insofar
insol
insolate
insolated
insolates
insolating
insolation
insole
insolence
insolency
insolent
insolently
insolentness
insolents
insoles
insolid
insolidity
insolite
insolubilities
insolubility
insolubilization
insolubilize
insolubilized
insolubilizing
insoluble
insolubleness
insolubly
insolvability
insolvable
insolvably
insolence
insolvencies
insolvency
insolvent
insomnia
insomniac
insomniacs
insomnias
insomnious
insomnlence
insomnlency
insomnolent
insomnolently
insomuch
insonorous
insooth
insorb
insorbent
insordid
insouciance
insouciant
insouciantly
insoul
insouled
insouling
insouls
insp
instigant
instigate
instigated
instigates
instigating
instigatingly
instigation
instigative
instigator
instigator's
instigators
instigatrix
instil
instill
instillation
instillator
instillatory
instilled
instiller
instillers
instilling
instillment
instills
instilment
instils
instimulate
instinct
instinct's
instinction
instinctive
instinctively
instinctiveness
instinctivist
instinctivity
instincts
instinctual
instinctually
instipulate
institor
institorial
institorian
institory
institue
institute
instituted
instituter
instituters
institutes
instituting
institution
institutional
institutionalisation
institutionalise
institutionalised
institutionalising
institutionalism
institutionalist
institutionalists
institutionality
institutionalization
institutionalize
institutionalized
institutionalizes
institutionalizing
institutionally
institutionary
institutionize
institutions
institutive
institutively
institutor
institutors
institutress
institutrix
instatement
instatement
instep
instore
instr
instratified
instreaming
instrengthen
instressed
instroke
instrokes
instruct
instructable
instructed
instructedly
instructedness
instructer
instructible
instructing
instruction
instruction's
instructional
instructionary
insulator's
insulators
insulin
insulinase
insulination
insulinize
insulinized
insulinizing
insulins
insulize
insulphured
insulse
insulsity
insult
insultable
insultant
insultation
insulted
insulter
insulters
insulting
insultingly
insultment
insultproof
insults
insume
insunk
insuper
insuperability
insuperable
insuperableness
insuperably
insupportable
insupportableness
insupportably
insusposable
insuspressibility
insuspressible
insuspressibly
insuspressive
insurability
insurable
insurance
insurant
insurants
insure
insured
insureds
inwarming
inswathe
inswathed
inswathem
inswathes
inswathing
insweping
inswell
inswept
inswing
inswinger
int
inta
intablater
intabulate
intact
intactible
intactile
intactly
intactness
intagli
intagliated
intagliament
intaglio
intaglioed
intaglioing
intaglios
intagliotype
intail
intake
intaker
intakes
intaminated
intangibilities
intangibility
intangible
intangible's
intangibleness
intangibles
intangibly
intangle
intaria
intarissable
intarsa
intarsas
intarsia
intarsiate
intarsist
intastable
intaxable
intbred
intebreeding
intechnicality
integer
integer's
integers
integrability
integrable
integrals
integrally
integrals
integun
inteind
intel
intellect
intellect's
intellection
intellectible
intellectively
intelleccts
intellectual
intellectualisation
intellectualise
intellectualised
intellectualiser
intellectualising
intellectualism
intellectualist
intellectualistic
intellectualistically
intellectualities
intellectuality
intellectualization
intellectualizations
intellectualize
intellectualized
intellectualizer
intellectualizes
intellectualizing
intellectually
intellectualness
intellectuals
intelligence
intelligenced
intelligencer
intelligences
intelligencing
intelligency
intelligent
intelligential
intelligentiary
intelligently
intelligentsia
intelligibilities
intelligibility
intelligible
intelligibleness
intelligibly
intelligize
intelsat
intemperate
intemerately
intemerateness
intemeration
intemperable
intemperably
intemperament
intemperance
intemperances
intemperancy
intemperant
intemperate
intemperately
intemperateness
intemperateness
intemperature
intemperies
intempestive
intempestively
intempestivity
intemperoral
intemporally
intenability
intenable
intenancy
intend
intendance
intendancies
intendancy
intendant
intendantism
intendantship
intended
intendedly
intendedness
intendeds
intendence
intendencia
intendencies
intendency
intendente
intender
intenders
intendible
intendiment
intending
intendingly
intendit
intendment
intends
intenerate
intenerated
intenerating
inteneration
intenible
ints
intensate
intensation
intensative
intense
intensely
intenseness
intenser
intensest
intensification
intensifications
intensified
intensifier
intensifiers
intensifies
intensify
intensifying
intension
intensional
intensionally
intensities
intensive
intensives
intensive
intensitometer
intensity
intensive
intensively
intensiveness
intensivenyess
intensives
intent
intentation
intented
intention
intentional
intentionalism
intentionality
intentionally
intentioned
intentionless
intentions
intensive
intently
intentiveness
intently
intentness
intents
inter
interabang
interabsorption
interacademic
interacademically
interaccessory
interaccuse
interaccused
interaccusing
interacinar
interacinous
interacra
interact
interactant
interacted
interacting
interaction
interaction's
interactional
interactionism
interactionist
interactions
interactive
interactively
interactivity
interacts
interadaptation
interadaption
interadditive
interadventual
interaffiliate
interaffiliated
interaffiliation
interagencies
interagency
interagent
interagglutinate
interagglutinated
interagglutinating
interagglutination
interagree
interagreed
interagreeing
interagreement
interalar
interall
interalliance
interallied
interally
interalveolar
interambulacra
interambulacral
interambulacrum
interamnian
interangular
interanimate
interanimated
interanimating
interannular
interantagonism
interantennal
interantennary
interapophysal
interapophyseal
interapplication
interarboration
interarch
interarcualis
interarmy
interarrival
interarticlar
interarticular
interartistic
interarytenoid
interassociate
interassociated
interassociation
interassure
interassured
interassuring
interasteroidal
interastral
interatomic
interatrial
interattrition
interaulic
interaural
interauricular
interauricular
interavailability
interavailable
interaxal
interaxes
intercalations
intercalative
intercalatory
intercale
intercalm
intercanal
intercanalicular
intercapillary
intercardinal
intercarotid
intercarpal
intercarpellary
intercarrier
intercartilaginous
intercaste
intercatenated
intercausative
intercavernous
intercede
interceded
intercedent
interceder
intercedes
interceding
intercellular
intercellularly
intercensal
intercentra
intercentral
intercentrum
intercept
interceptable
intercepted
intercepter
intercepting
interception
interceptions
interceptive
interceptor
interceptors
interceptress
intercepts
intercerebral
intercess
intercession
intercessional
intercessionary
intercessionate
intercivic
intercivilization
interclash
interclasp
interclass
interclavicle
interclavicular
interclerical
interclose
intercloud
interclub
interclude
interclusion
intercoastal
intercoccygeal
intercoccygean
intercohesion
intercollege
intercollegian
intercollegiate
intercolline
intercolonial
intercolonially
intercolonization
intercolonize
intercolonized
intercolonizing
intercolumn
intercolumnal
intercolumnar
intercolumnation
intercolumniation
intercom
intercombat
intercombination
intercombine
intercombined
intercombining
intercome
intercommission
intercommissural
intercommon
intercommonable
intercommonage
intercommoned
intercommoner
intercommoning
intercommunal
intercommune
intercommuned
intercommuner
intercommunicability
intercommunicable
intercommunicate
intercommunicated
intercommunicates
intercommunicating
intercommunication
intercommunicational
intercommunications
intercommunicative
intercommunicator
intercommuning
intercommunion
intercommunional
intercommunities
intercommunity
intercompany
intercomparable
intercompare
intercompared
intercomparing
intercomparison
intercomplexity
intercomplimentary
intercoms
interconal
interconciliary
intercondenser
intercondylar
intercondylie
intercondyloid
interconfessional
interconfound
interconnect
interconnected
interconnectedness
interconnecting
interconnection
interconnection's
interconnections
interconnects
interconnexion
interconsonantal
intercontinental
intercontorted
intercontradiction
intercontradictory
interconversion
interconvert
interconvertibility
interconvertible
interconvertibly
intercooler
intercooling
intercoracoid
intercorporate
intercorpuscular
intercorrelate
intercorrelated
intercorrelating
intercorrelation
intercorrelations
intercortical
intercosmic
intercosmically
intercostal
intercostally
intercostobrachial
intercostohumeral
intercotylar
intercounty
intercouple
intercoupled
intercoupling
intercourse
intercoxal
intercranial
intercreate
intercreated
intercreating
intercreedal
intercrecence
intercral
intercrop
intercropped
intercropping
intercross
intercrossed
intercrossing
intercruental
intercrust
intercrystalline
intercrystallization
interfollicular
interforce
interframe
interfraternal
interfraternally
interfraternity
interfret
interfretted
interfriction
interfronital
interfruitful
interfulgent
interfuse
interfused
interfusing
interfusion
intergalactic
interganglionic
intergatory
intergenerant
intergenerating
intergeneration
intergenerational
intergenerative
intergeneric
intergential
intergesture
intergilt
interglacial
interglandular
interglobular
interglyph
intergonial
intergossip
intergossiped
intergossipping
intergovernmental
intergradation
intergradational
intergrade
intergraded
intergradient
intergrading
intergraft
intergranular
intergrapple
interior's
interiorism
interiorist
interiority
interiorization
interiorize
interiorized
interiorizes
interiorizing
interiorly
interiorness
interiors
interirrigation
interisland
interj
interjacence
interjacency
interjacent
interjacula
interjacula
ted
interjaculating
interjaculatory
interjangle
interjealousy
interject
interjected
interjecting
interjection
interjectional
interjectionalise
interjectionalised
interjectionalising
interjectionalize
interjectionalized
interjectionalizing
interjectionally
interjectionary
interjectionize
interjections
interjectiveness
interjector
interjectorialy
interjectors
interjectory
interjects
interjunctural
interjoin
interjoinder
interjoist
interjudgment
interjugal
interjugular
interjunction
interkinesis
interkinetic
interknit
interknitted
interknitting
interknot
interknotted
interknotting
interknow
interknowledge
interlabial
interlaboratory
interlace
interlaced
interlacedly
interlacement
interlacer
interlacery
interlaces
interlacing
interlacustrine
interlaid
interlain
interlake
interlamellar
interlamellation
interlaminar
interlaminate
interlaminated
interlaminating
interlamination
interlanguage
interlap
interlapped
interlapping
interlaps
interlapse
interlard
interlardation
interlarded
interlarding
interlardment
interlards
interlatitudinal
interlaudation
interlay
interlayer
interlayering
interlaying
interlays
interleaf
interleague
interleave
interleaved
interleaver
interleaves
interleaving
interlibel
interlibeled
interlibelling
interlibrary
interlie
interligamentary
interligamentous
interlight
interlimitation
interline
interlineal
interlineally
interlinear
interlinearly
interlineary
interlineate
interlineated
interlineating
interlineation
interlineations
interlined
interlinement
interliner
interlines
interlingua
interlingual
interlinguist
interlinguistic
interlining
interlink
interlinkage
interlinked
interlinking
interludes
interludial
interluency
interlunar
interlunary
interlunation
interlying
intermachine
intermalar
intermalleolar
intermammary
intermammillary
intermandibular
intermanorial
intermarginal
intermarine
intermarriage
intermarriageable
intermarriages
intermarried
intermarries
intermarr
intermarrying
intermason
intermastoid
intermat
intermatch
intermatted
intermatting
intermaxilla
intermaxillar
intermaxillary
intermaze
intermazed
intermazing
intermean
intermeasurable
intermeasure
intermeasured
intermeasuring
intermeddle
intermeddled
intermeddlement
intermeddler
intermeddlesome
intermeddlesomeness
intermeddling
intermeddlingly
intermede
intermedia
intermediacy
intermediae
intermedial
intermediaries
intermediary
intermediate
intermediate's
intermediated
intermediately
intermediateness
intermediates
intermediating
intermediation
intermediator
intermediatory
intermedin
intermedious
intermedium
intermedius
intermeet
intermeeting
intermell
intermelt
intermembral
intermembranous
intermeningeal
intermenstrual
intermenstruum
interment
intermental
intermention
interments
intermercurial
intermesenterial
intermesenteric
intermesh
intermeshed
intermeshes
intermeshing
intermessage
intermessenger
intermet
intermetacarpal
intermetallic
intermetameric
intermetatarsal
intermix
intermixable
intermixed
intermixedly
intermixes
intermixing
intermixt
intermixtly
intermixture
intermixture
intermodillion
intermodification
intermodulation
intermodule
intermolar
intermolecular
intermolecularly
intermomentary
intermontane
intermorainic
intermotion
intermountain
intermundane
intermundial
intermundian
intermundium
intermunicipal
intermunicipality
intermural
intermure
intermuscular
intermuscularity
intermuscularly
intermutation
intermutual
intermutually
intermutule
intern
internal
internalities
internality
internalization
internalize
internalized
internalizes
internalizing
interneuronal
interneuronic
internidal
interning
internist
internists
internity
internment
internments
internobasal
internodal
internode
internodes
internodia
internodial
internodian
internodium
internodular
interns
internship
internships
internuclear
internunce
internuncial
internuncially
internunciary
internunciatory
internunciess
internuncio
internuncios
internuncioship
internuncius
internuptial
internuptials
interobjective
interoceanic
interoceptive
interoceptor
interocular
interoffice
interolivary
interopercle
interopercular
interoperculum
interoptic
interorbital
interorbitally
interoscillate
interoscillated
interoscillating
interosculant
interosculate
interosculated
interosculating
interosclusion
interosseal
interossei
interosseous
interosseus
interownership
interpage
interpalatine
interpale
interpalpebral
interpapillary
interparenchymal
interparenatal
interparenthecmic
interparenthetically
interparenthetically
interparietal
interparietale
interparliament
interparliamentary
interparoxysmal
interparty
interpass
interpause
interpave
interpaved
interpaving
interpeal
interpector
interpeduncular
interpel
interpellant
interpellate
interpellated
interpellating
interpellation
interpellator
interpelled
interpelling
interpendent
interpenetrable
interpenetrant
interpenetrate
interpenetrated
interpenetrating
interpenetration
interpenetrative
interpenetratively
interpermeate
interpermeated
interpermeating
interpersonal
interpersonally
interpervade
interpervaded
interpervading
interpervasive
interpervasively
interpervasiveness
interpetaloid
interpetalous
interpetiolar
interpetiolary
interphalangeal
interphase
interphone
interphones
interpiece
interpilaster
interpilastering
interplace
interplacental
interplait
interplanetary
interplant
interplanting
interplay
interplaying
interplays
interplea
interplead
interpleaded
interpleader
interpleading
interpleads
interpled
interpledge
interpledged
interpledging
interpleural
interquarter
interrace
interracial
interracialism
interradial
interradially
interradiate
interradiated
interradiating
interradiation
interradii
interradium
interradius
interrailway
interramal
interramicorn
interramification
interran
interreact
interreceive
interreceived
interreceiving
interrecord
interred
interreflect
interreflection
interregal
interregency
interregent
interreges
interregimental
interregional
interregionally
interregna
interregnal
interregnum
interregnnums
interreign
interrelate
interrelated
interrelatedly
interrelatedness
interrelates
interrelating
interrelation
interrelations
interrelationship
interrelationship's
interrelationships
interreligious
interreligiously
interrelena
interrenal
interrenalism
interrepellent
interrepulsion
interrer
interressist
interresistance
interresistibility
interresponsibility
interresponsible
interresponsive
interretticular
interretticulation
interrex
 interrhyme
 interrhymed
 interrhyming
 interright
 interring
 interiven
 interroad
 interrobang
 interrog
 interrogability
 interrogable
 interrogant
 interrogate
 interrogated
 interrogatedness
 interrogatee
 interrogates
 interrogating
 interrogatingly
 interrogation
 interrogational
 interrogations
 interrogative
 interrogatively
 interrogator
 interrogatories
 interrogatorily
 interrogators
 interrogatory
 interrogatrix
interrogee
interroom
interrule
interruled
interruling
interrun
interrunning
interrupt
interruptable
interrupted
interruptedly
interruptedness
interrupter
interrupters
interruptible
interrupting
interruptingly
interruption
interruption's
interruptions
interruptive
interruptively
interruptor
interruptory
interrupts
inters
intersale
intersalute
intersaluted
intersaluting
interscapilium
interscapular
interscapulum
interscendent
interscene
interscholastic
interschool
interscience
interscribe
interscribed
interscribing
interscription
interseaboard
interseam
interseamed
intersecant
intersect
intersectant
intersected
intersecting
intersection
intersection's
intersectional
intersections
intersector
intersects
intersegmental
interseminal
interseminate
intersemimated
interseminating
intersentimental
interseptal
interseptum
intersert
intersertal
interservice
intersesamoid
intersession
intersessional
intersessions
interset
intersetting
intersex
intersexes
intersexual
intersexualism
intersexualities
intersexuality
intersexually
intershade
intershaded
intershading
intershifting
intershock
intershoot
intershooting
intershop
intershot
intersidereal
intersituate
intersituated
intersituating
intersocial
intersocietal
intersociety
intersoil
intersole
intersoled
intersoling
intersolubility
intersoluble
intersomnial
intersomnious
intersonant
intersow
interspace
interspaced
interspacing
interspatial
interspatially
interspeaker
interspecial
interspecies
interspecific
interspeech
interspersal
intersperse
interspersed
interspersedly
intersperses
interspersing
interspersion
interspersion
interspherical
intersphere
interspicular
interspinal
interspinalis
interspinous
interspiral
interspiration
interspire
intersporal
intersprinkle
intersprinkled
intersprinkling
intersqueeze
intersqueezed
intersqueezing
intersshot
interstade
interstadial
interstage
intersystemically
intertalk
intertangle
intertangled
intertanglement
intertangles
intertangling
intertarsal
intertask
interteam
intertear
intertentacular
intertergal
interterminal
interterritorial
inter tessellation
inter testamental
inter tex
inter texture
inter thing
inter thread
interthreaded
inter threading
inter thronging
inter tidal
inter tidally
inter tie
inter tied
inter tie ing
inter ties
inter till
inter till age
inter tinge
inter tinged
inter tinging
inter tissue
inter tissue d
inter toll
inter tone
inter tongue
inter t onic
inter touch
inter town
inter trabecular
inter trace
inter traced
inter tracing
inter trade
intertraded
intertrading
intertraffic
intertrafficked
intertrafficking
intertragian
intertransformability
intertransformable
intertransmissible
intertransmission
intertranspicuous
intertransversal
intertransversalis
intertransversary
intertransverse
intertrappean
intertree
intertribal
intertriginous
intertriglyph
intertrigo
intertrinitarian
intertrochanteric
intertrochlear
intertropic
intertropical
intertropics
intertrude
interuberal
interubicular
interubular
inter twin
interwine
interwined
intertwinement
intertwinements
intertwines
intertwining
intertwiningly
intertwist
intertwisted
intertwisting
intertwisingly
interungular
interungulate
interunion
interuniversity
interurban
interureteric
intervaginal
interval
interval's
intervalle
intervaled
intervalic
intervaling
intervalled
intervalley
intervallic
intervalling
intervalomenter
intervals
intervalvular
intervariation
intervared
intervarietal
intervarsity
intervary
intervarying
intervascular
intervein
interveinal
interveined
interveining
interveinous
intervenant
intervene
intervened
intervener
interveners
intervenes
intervenience
interveniency
intervenient
intervening
intervenium
intervenor
intervent
intervention
intervention's
interventional
interventionism
interventionist
interventionists
interventions
interventive
interventor
interventral
interventralia
interventricular
intervenue
intervenular
interverbal
interversion
intervert
intervertebra
intervertebral
intervertebrally
interverting
intervesicular
interview
interviewable
interviewed
interviewee
interviewees
interviewer
interviewers
interviewing
interviews
intervillos
intervisibility
intervisible
intervisit
intervisitation
intervital
intervocal
intervocalic
intervocalically
intervolute
intervolution
intervolve
intervolved
intervolving
interwar
interwarred
interwarring
interweave
interweaved
interweavement
interweaver
interweaves
interweaving
interweavingly
intimates
intimidating
intimidation
intimidations
intimidator
intimidatory
intimidity
intimism
intimist
intimiste
intimity
intimous
intinct
intinction
intinctivity
intine
intines
intire
intisy
intitle
intitled
intitles
intitling
intitulation
intitule
intituled
intitules
intituling
intl
intnl
into
intoed
intolerability
intolerable
intolerableness
intolerably
intolerance
intolerancy
intolerant
intolerantly
intolerantness
intolerated
intolerating
intolation
intollerably
intomb
intomboed
intombing
intoxicative
intoxicatively
intoxicator
intoxicators
intr
intra
intraabdominal
intraarterial
intraarterially
intrabiotic
intrabranchial
intrabred
intrabronchial
intrabuccal
intracalicular
intracanaliculic
intracanonical
intracapsular
intracardiac
intracardial
intracardially
intracarpal
intracarpellary
intracartilaginous
intracellular
intracellularly
intracerebellar
intracerebral
intracerebrally
intracervical
intrachordal
intracistern
intracity
intraclitelline
intracloacal
intracoastal
intracoelomic
intracolic
intracollelgiate
intracommunication
intracompany
intracontinental
intracorporeal
intracorpuscular
intracortical
intracosmic
intracosmical
intracosmically
intracostal
intracranial
intracrani ally
intractability
intractable
intractableness
intractably
intractile
intracutaneous
intracutaneously
intracystic
intra da
intrade partment
intradepartmental
intradermal
intradermally
intradermic
intradermically
intradermically
intradermo
intradistrict
intradivisional
intrado
intrados
intradoses
intradoss
intraduodenal
intradural
intraecclesiastical
intraepiphyseal
intraepithelial
intrafactory
intrafascicular
intrafissural
intrafistular
intrafoliaceous
intraformational
intrafusal
intragalactic
intrag ametes
intragastric
intragemmal
intraglandular
intraglobular
intragroup
intragroupal
intragyral
intrahepatic
intrahyoid
intrainperial
intrait
intragular
intralamellar
intralaryngeal
intralaryngeally
intraleukocytic
intraligamentary
intraligamentous
intraliminal
intraline
intralingual
intralobar
intralobular
intralocular
intralogical
intralumbar
intramachine
intramammary
intramarginal
intramastoid
intramatrical
intramatically
intramedullary
intramembranous
intrameningeal
intramental
intrametropolitan
intramolecular
intramolecularly
intramontane
intramorainic
intramundane
intramural
intramuralism
intramurally
intramuscular
intramuscularly
intramyocardial
intraranial
intranasal
intranutal
intranimal
intraneous
intraneous
intranetwork
intraneural
intranidal
intranquil
intranquillity
intrans
intranscalency
intranscalent
intransferable
intransferrable
intransformable
intransfusible
intransgressible
intransient
intransigence
intransigeancy
intransigeant
intransigeantly
intransigence
intransigency
intransigent
intransigentism
intransigentist
intransigently
intransigents
intransitable
intransitive
intransitively
intransitiveness
intransitives
intransitivity
intransitu
intranslatable
intransmissible
intransmutability
intransmutable
intransparency
intransparent
intrant
intrants
intranuclear
intraoctave
intraocular
intraoffice
intraoral
intraorbital
intraorganization
intraossal
intraosseous  
intraosteo  
intraovarian  
intrap  
intrapair  
intraparenchymatous  
intraparietal  
intraparochial  
intraparty  
intrapelvic  
intrapericardiac  
intrapericardial  
intrapеринеal  
intrapеритостеal  
intrapеритонеal  
intrapеритонеally  
intrapersonal  
intrapetiolar  
intraphilosophic  
intrapial  
intraplacental  
intraplant  
intrapleural  
intrapolar  
intrapontine  
intrapopulation  
intraprocess  
intraprocessor  
intraprostatic  
intraprotoplasmic  
intrapyschic  
intrapyschical  
intrapyschically  
intrapulmonary  
intrapyretic  
intrarachidian  
intrarectal  
intrarelation  
intrarenal  
intraretinal  
intrarhachidian  
intraschool  
intrascrotal  
intrasegmental  
intraselection  
intrasellar  
intraseminal  
intrasепtal
intraserous
intrashop
intraspecies
intraspecific
intraspecifically
intraspinal
intraspinally
intrastate
intrastromal
intrasusception
intrasynovial
intratarsal
intrate
intratelluric
intraterritorial
intratesticular
intrathecal
intrathoracic
intrathyroid
intratomic
intratonsillar
intratrabecular
intratracheal
intratracheally
intratropical
intratubal
intratubular
intratympanic
intrauterine
intravaginal
intravalvular
intravasation
intravascular
intravascularly
intravenous
intravenously
intraventricular
intraverbal
intraversible
intravertebral
intravertebrally
intravesical
intravitil
intravitally
intravitam
intravitelline
intravitreous
intraxylary
intrazonal
intreasure
intreat
intreatable
intreated
intreating
intreats
intrench
intrenchant
intrrenched
intrencer
intrences
intrencing
intrenchment
intrepid
intrepidity
intrepidly
intrepidness
intricable
intricacies
intricacy
intricate
intricately
intricateness
intrication
intrigant
intrigante
intrigantes
intrigants
intrigaunt
intrigo
intriguant
intriguante
intrigue
intrigued
intrigueproof
intriguer
intriguers
intriguery
intrigues
intriguess
intriguing
intriguingly
intrince
intrine
intrinsic
intrinsical
introjection
introjective
intromissibility
intromissible
intromission
intromissive
intromit
intromits
intromitted
intromittence
intromittent
intromitter
intromitting
intropression
intropulsive
intropunitive
intoreception
intorsal
introrse
introrsely
intros
introscope
introsensible
introsentient
introspect
introspectable
introspected
introspectible
introspecting
introspection
introspectional
introspectionism
introspectionist
introspectionistic
introspections
introspective
introspectively
introspectiveness
introspectivism
introspectivist
introspector
introsuction
introsume
introsuscept
introsusception
introthoracic
introtraction
introvenient
intwinement
intwines
intwining
intwist
intwisted
intwisting
intwists
inukshuk
inula
inulaceous
inulase
inulases
inulin
inulins
inuloid
inumbrate
inumbraion
inunct
inunction
inunctum
inunctuosity
inunctuous
inundable
inundant
inundate
inundated
inundates
inundating
inundation
inundations
inundator
inundatory
inunderstandable
inunderstanding
inurbane
inurbanely
inurbaneness
inurbanity
inure
inured
inuredness
inurement
inurements
inures
inuring
inurn
inurned
inurning
invigilance
invigilancy
invigilate
invigilated
invigilating
invigilation
invigilator
invigor
invigorant
invigorate
invigorated
invigorates
invigorating
invigoratingly
invigoratingness
invigoration
invigorations
invigorative
invigoratively
invigorator
invigour
invile
invillage
invinate
invination
invincibility
invincible
invincibleness
invincibly
inviolability
inviolable
inviolableness
inviolably
inviolacy
inviolate
inviolated
inviolately
inviolateness
invious
inviousness
invirile
invirility
invirtuate
inviscate
inviscation
inviscerate
inviscid
inviscidity
invoker
invokers
invokes
invoking
involatile
involatility
involucel
involucelate
involucelated
involucellate
involucellated
involucra
involucral
involucrate
involucre
involucred
involucret
involucriformal
involucrum
involunterily
involunteriness
involuntary
involute
involuted
involutedly
involutely
involutes
involuting
involution
involutional
involutionary
involutions
involutorial
involutory
involve
involved
involvedly
involvedness
involvement
involvement's
involvements
involvent
involver
involvers
involves
involving
invoy
invz
invulgar
invulnerability
invulnerable
invulnerableness
invulnerably
invulnerate
invultuation
invultvation
inwale
inwall
inwalled
inwalling
inwalls
inwandering
inward
inwardly
inwardness
inwards
inweave
inweaved
inweaves
inweaving
inwedged
inweed
inweight
inwheel
inwick
inwind
inwinding
inwinds
inwit
inwith
inwood
inwork
inworks
inworn
inwound
inwove
inwoven
inwrap
inwraption
inwrapped
inwrapping
inwraps
inwrapt
inwreathe
inwreathed
inwreathing
iodizer
iodizers
iodizes
iodizing
iodo
iodobehenate
iodobenzene
iodobromite
iodocasein
iodochlorid
iodochloride
iodochromate
iodocresol
iododerma
iodoethane
iodoform
iodoforms
iodogallicin
iodohydrate
iodohydric
iodohydrin
iodol
iodols
iodomercurate
iodomercuriate
iodomethane
iodometric
iodometrical
iodometrically
iodometry
iodonium
iodophor
iodophors
iodoprotein
iodopsin
iodopsins
iodoso
iodosobenzene
iodospongin
iodotannic
iodotherapy
iodothyrin
iodous
iodoxy
iodoxybenzene
iodyrite
iof
iolite
iridectome
iridectomies
iridectomise
iridectomised
iridectomising
iridectomize
iridectomized
iridectomizing
iridectomy
iridectropium
iridemia
irideneleisis
iridentropium
irideous
irideremia
irides
iridesce
iridescence
iridescences
iridescency
iridescent
iridescently
iridal
iridian
iridiate
iridic
iridical
iridin
iridine
iridiocyte
iridiophore
iridioplatinum
iridious
iridite
iridium
iridiums
iridization
iridize
iridized
iridizing
irido
iridoavulsion
iridocapsulitis
iridocele
iridoceratitic
iridochoroiditis
iridocoloboma
iridoconstrictor
iridocyclitis
iridocyte
iridodesis
iridodiagnosis
iridodialysis
iridodonesis
iridokinesia
iridoline
iridomalacia
iridomotor
iridoncus
iridoparalysis
iridophore
iridoplegia
iridoptosis
iridopupillary
iridorhexis
iridosclerotomy
iridosmine
iridosmium
iridotasis
iridotome
iridotomies
iridotomy
iridous
iring
iris
irisate
irisated
irisation
iriscope
irised
irises
irish
irishism
irishman
irishmen
irishry
irishwoman
irishwomen
irisin
irising
irislike
irisroot
iritic
iritis
iritises
irk
ironlike
ironly
ironmaker
ironmaking
ironman
ironmaster
ironmen
ironmonger
ironmongeries
ironmongering
ironmongery
ironness
ironnesses
irons
ironshod
ironshot
ironside
ironsided
ironsides
ironsmith
ironstone
ironstones
ironware
ironwares
ironweed
ironweeds
ironwood
ironwoods
ironwork
ironworked
ironworker
ironworkers
ironworking
ironworks
ironwort
irony
iroquoian
iroquoians
iroquois
irous
irpe
irradiance
irradiancy
irradiant
irradiate
irradiated
irradiates
irradiating
irradiatingly
irradiation
irradiations
irradiative
irradiator
irradicable
irradically
irradicate
irradicated
irradicable
irradicably
irradiate
irrationability
irrationalizable
irrationally
irrational
irrationalse
irrationalised
irrationalising
irrationalism
irrationalist
irrationalistic
irrationalities
irrationality
irrationalize
irrationalized
irrationalizing
irrationally
irrationalness
irrationalist
irrationalists
irreal
irreality
irrealizable
irrebuttable
irreceptive
irreceptivity
irreciprocal
irreciprocity
irreclaimability
irreclaimable
irreclaimableness
irreclaimably
irreclaimed
irrecognition
irrecognizability
irrecognizable
irrecognizably
irrecognizant
irrecollection
irreconcilability
irreconcilable
irreconcilableness
irreconcilably
irreconcile
irreconciled
irreconcilement
irreconciliability
irreconciliable
irreconciliableness
irreconciliably
irreconciliation
irrecordable
irrecoverable
irrecoverableness
irrecoverably
irrecuperable
irrecurable
irrecusuable
irrecusably
irred
irredeemability
irredeemable
irredeemableness
irredeemably
irredeemed
irredenta
irredential
irredentism
irredentist
irredentists
irredressibility
irredressible
irredressibly
irreducibilities
irreducibility
irreducible
irreducibleness
irreducibly
irreductibility
irreductible
irreduction
irreferable
irreflection
irreflective
irreflectively
irreflectiveness
irreflexive
irreformability
irreformable
irrefragability
irrefragable
irrefragableness
irrefragably
irrefrangibility
irrefrangible
irrefrangibleness
irrefrangibly
irrefusable
irrefutability
irrefutable
irrefutableness
irrefutably
irreg
irregardless
irregeneracy
irregenerate
irregeneration
irregular
irregularism
irregularist
irregularities
irregularity
irregularize
irregularly
irregularness
irregulars
irregulate
irregulated
irregulation
irregulous
irrejectable
irrelapsable
irrelate
irrelated
irrelation
irrelative
irrelatively
irrelativeness
irrelevance
irrelevances
irrelevancies
irrelevancy
irrelevant
irrelevantly
irreliability
irrelievable
irreligion
irreligionism
irreligionist
irreligionize
irreligiosity
irreligious
irreligiously
irreligiousness
irreluctant
irremeable
irremeably
irremediable
irremediableness
irremediably
irremediless
irrememberable
irremissibility
irremissible
irremissibleness
irremissibly
irremission
irremissive
irremittable
irremovability
irremovable
irremovableness
irremovably
irremunerable
irrenderable
irrenewable
irrenowned
irrenunciable
irrepair
irrepairable
irreparability
irreparable
irreparableness
irreparably
irrepassable
irrepatriable
irrepelability
irrepealable
irrepealableness
irrepealably
irrepentance
irrepentant
irrepentantly
irrepetant
irreplacable
irreplacably
irreplaceability
irreplaceable
irreplaceableness
irreplaceably
irrepleviable
irreplevisable
irreportable
irreprehensibility
irreprehensible
irreprehensibleness
irreprehensibly
irrepresentable
irrepresentableness
irrepressibility
irrepressible
irrepressibleness
irrepressibly
irrepressive
irreproachability
irreproachable
irreproachableness
irreproachably
irreproducibility
irreproducible
irreproductive
irreprovable
irreprovableness
irreprovably
irreption
irreptitious
irrepublican
irreputable
irresilience
irresiliency
irresilient
irresistable
irresistably
irresistance
irresistibility
irresistible
irresistibleness
irresistibly
irresistless
irresolubility
irresoluble
irreverence
irreverences
irreverend
irreverendly
irreverent
irreverential
irreverentialism
irreverentially
irreverently
irreversibility
irreversible
irreversibleness
irreversibly
irrevertible
irreviewable
ir revisable
irrevocability
irrevocable
irrevocableness
irrevocably
irrevoluble
irrination
irride
irridenta
irrigable
irrigably
irrigant
irrigate
irrigated
irrigates
irrigating
irrigation
irrigational
irrigationist
irrigations
irrigative
irrigator
irrigatorial
irrigators
irrigatory
irriguous
irriguousness
irrisible
irrision
irrisor
irrisory
irritabilities
irritability
irritable
irritableness
irritably
irritament
irritancies
irritancy
irritant
irritants
irritate
irritated
irritatedly
irritates
irritating
irritatingly
irritation
irritations
irritative
irritativeness
irritator
irritatory
irrite
irritomotile
irritomotility
irrogate
irrorate
irrorated
irroration
irrotational
irrotationally
irrubrical
irrugate
irruration
irrupt
irrupted
irruptible
irrupting
irruption
irruptions
irruptive
irruptively
irrupts
irs
irvingite
is
isaac
isabel
isabelina
isabelita
isabelite
isabella
isabelline
isabnormal
isaconitine
isacoustic
isadelphous
isadnormal
isago
gisagoge
isagoge
isagolog
isagogic
isagogical
isagogically
isagogics
isagon
isaiah
isallobar
isallobaric
isallotherm
isamin
isamine
isandrous
isanemone
isangoma
isanomal
isanomalous
isanthous
isapostolic
isarioid
isarithm
isarithms
isatate
isatic
isatid
isatide
isatin
isatine
isatines
isatinic
isatins
isatis
isatogen
isatogenic
isauxesis
isauxetic
isazoxy
isba
isbas
iscariot
ischaemia
ischaemic
ischar
ischchia
ischemia
ischemias
ischemic
ischia
ischiac
ischiadic
ischiadicus
ischial
ischialgia
ischialgic
ischiatic
ischidrosis
ischioanal
ischiobulbar
ischiocapsular
ischiocaudal
ischiocavernous
ischiocavernous
ischiocele
ischiocerite
ischiococygeal
ischiofemoral
ischiofibular
ischioiliac
ischioneuralgia
ischioperineal
ischiopodite
ischiopubic
ischiopubis
ischirectal
ischiihologenic
ischiosacral
ischiotibial
ischiovaginal
ischiovertebral
ischium
ischocholia
ischuretic
ischuria
ischury
iscose
isdn
ise
islandmen
islandologist
islandology
islandress
islandry
islands
islandy
islay
isle
isle's
isled
isleless
isleman
isles
islesman
islesmen
islet
islet's
isleted
islets
isleward
isling
islot
isls
ism
ismaelian
ismaelite
ismal
ismatic
ismatical
ismaticalness
ismdom
isms
ismy
isn
isn't
isnad
isnt
iso
isoabnormal
isoagglutination
isoagglutinative
isoagglutinin
isoagglutinogen
isosalantolactone
isovalloxazine
isoallyl
isoamarine
isoamid
isoamide
isoamyl
isoamylamine
isoamylene
isoamylethyl
isoamylidene
isoantibody
isoantigen
isoantigenic
isoantigenicity
isoapiole
isoasparagine
isoauore
isobar
isobarbaloin
isobarbituric
isobare
isobares
isobaric
isobarism
isobarometric
isobars
isobase
isobath
isobathic
isobaths
isobathytherm
isobathythermal
isobathythermic
isobenzofuran
isobilateral
isobilianic
isobiogenetic
isoborneol
isobornyl
isobront
isobronton
isobutane
isobutene
isobutyl
isobutylene
isobutyraldehyde
isobutyrate
isobutyric
isobutyryl
isocamphor
isocamphoric
isocaproic
isocarbostyril
isocarpic
isocarpous
isocellular
isocephalic
isocephalism
isocephalous
isocephaly
isoceraunic
isocercal
isocercy
isochasm
isochasmic
isochaim
isochimal
isochimenal
isochemic
isochimonal
isochims
isochela
isochimal
isochime
isochimenal
isochimes
isochlor
isochlorophyll
isochlorophyllin
isocholanic
isocholesterin
isocholesterol
isochor
isochore
isochores
isochoric
isochors
isochromatic
isochron
isochronal
isochronally
isochrone
isochronic
isochronical
isochronism
isochronize
isochronized
isochronizing
isochronon
isochronous
isochronously
isochrons
isochrony
isochroous
isocinchoronomic
isocinchonine
isocitric
isoclasite
isoclimatic
isoclinal
isoclinally
isocline
isoclines
isoclinic
isoclinically
isocodeine
isocola
isocolic
isocolon
isocoria
isocorybulbin
isocorybulbine
isocorydine
isocoumarin
isocracies
isocracy
isocrat
isocratic
isocreosol
isocrotonic
isocrymal
isocryme
isocrymic
isocyanate
isocyanic
isocyanid
isocyanide
isocyanin
isocyanine
isocyno
isocyanogen
isocyanurate
isocyanuric
isocyclic
isocymene
isocytic
isodactylism
isodactylyous
isodef
isodiabatic
isodialuric
isodiametric
isodiametrical
isodiaphere
isodiazoo
isodiazo
isodialzotate
isodimorphic
isodimorphism
isodimorphous
isodomic
isodomon
isodomous
isodomum
isodont
isodontous
isodose
isodrin
isodrome
isodrosotherm
isodulcic
isodune
isodynamia
isodynamic
isodynamical
isodynamous
isoelastic
isoelectric
isoelectrically
isoelectronic
isoelectronically
isolemicin
isoldemodin
isoeenergetic
isoenzymatic
isoenzyme
isoenzymic
isoeuteric
isoeugenol
isoflavone
isoflor
isogam
isogamete
isogametic
isogametism
isogamic
isogyre
isohaline
isohalsine
isohel
isohels
isohemolysis
isohemopyrrole
isohexane
isohesperidin
isohexyl
isohume
isohydric
isohydrocyanic
isohydroisorbic
isohyet
isohyetal
isohyets
isoimmune
isoimmunity
isoimmunization
isoimmunize
isoindazole
isoindigotin
isoindole
isoionone
isokeraunic
isokeraunographic
isokeraunophonic
isokontan
isokurtic
isolability
isolable
isolapachol
isolatable
isolate
isolated
isolately
isolates
isolating
isolation
isolationalism
isolationalist
isolationalists
isolationism
isolationist
isolationists
isolations
isolative
isometrograph
isometropia
isometry
isomorph
isomorphic
isomorphically
isomorphism
isomorphism's
isomorphisms
isomorphous
isomorphs
isomyarian
isoneph
isonephelic
isonergic
isoniazid
isonicotinic
isonitramine
isonitril
isonitrile
isonitro
isonitroso
isonomic
isonomies
isonomous
isonomy
isonuclear
isonym
isonymic
isonymy
isooctane
isoolieic
isoosmosis
isopach
isopachous
isopag
isoparaffin
isopathy
isopectic
isopedin
isopedine
isopelletierin
isopelletierine
isopentane
isopentyl
isoperimeter
isoperimetric
isoperimetrical
isoperimetry
isopetalous
isophanal
isophane
isophasal
isophene
isophenomenal
isophone
isophoria
isophorone
isophotal
isophote
isophotes
isophthalic
isophthalyl
isophyllous
isophyllly
isopicramic
isopiestic
isopiestically
isopilocarpine
isopleric
isopleth
isoplethic
isopleths
isopleural
isopleuran
isopleure
isopleurous
isopod
isopodan
isopodans
isopodiform
isopodimorphous
isopodous
isopods
isopogonous
isopolite
isopolitical
isopolity
isopoly
isopor
isoporic
isoprenaline
isoprene
isoprenes
isoprenoid
isopropanol
isopropenyl
isopropyl
isopropylacetic
isopropylamine
isopropylideneacetone
isoproterenol
isosephic
isosephism
isopterous
isoptic
isopulegone
isopurpurin
isopycnal
isopycnic
isopyre
isopyromucic
isopyrrole
isouercitrin
isoquinine
isoquinoline
isorcinol
isorhamnose
isorhodeose
isorhythm
isorhythmic
isorhythmically
isorithm
isorosindone
isorrhythmic
isorropic
isort
isosaccharic
isosaccharin
isoscele
isosceles
isoscope
isoseismal
isoseismic
isoseismical
isoseist
isoserine
isosmotic
isosmotically
isospin
isospins
isospodylous
isospore
isosporic
isospories
isosporous
isospory
isostacy
isostasies
isostasis
isostasy
isostatic
isostatically
isostemonous
isostemony
isoster
isostere
isosteric
isosterism
isostructural
isostrychnine
isosuccinic
isosulphide
isosulphocyanate
isosulphocyanic
isosultam
isotac
isotach
isotachs
isotactic
isoteles
isotely
isoteniscope
isotere
isoteric
isothermal
isotheral
isothere
isotheres
isotherm
isothermal
isothermally
isothermic
isothermical
isothermobath
isothermobathic
isothermobaths
isothermous
isotherms
isotherombrose
isothiocyanates
isothiocyanic
isothiocyanate
isothujone
isotimal
isotimic
isotome
isotomous
isotone
isotones
isotonia
isotonic
isotonically
isotonicity
isotony
isotope
isotope's
isotopes
isotopic
isotopically
isotopies
isotopism
isotopy
isotrehalose
isotrimorphic
isotrimorphism
isotrimorphous
isotron
isotronic
isotrope
isotropic
isotropies
isotropil
isotropism
isotropous
isotropy
isotype
isotypes
isotypic
isotypical
isotypical
isovalerate
isovalerianate
isovalerianic
isovaleric
isovalerone
isovaline
isovanillic
isovoluminal
isoxanthine
isoxazine
isoxazole
isoxime
isoxylene
isoyohimbine
isozooit
isozyme
isozymes
isozymic
ispaghul
ispravnik
ispraynik
israel
israeli
israelis
israelite
israelites
issachar
issanguila
issei
isseis
issite
issuable
issuably
issuance
issuances
issuant
issue
issued
issueless
issuer
issuers
issues
issuing
ist
istana
istanbul
isth
isthm
isthmal
isthmectomies
isthmectomy
isthmi
isthmial
isthmian
isthmians
isthmiate
isthmic
isthmics
jacinths
jacitara
jack
jackal
jackals
jackanapes
jackanapeses
jackanapish
jackaroo
jackarooed
jackarooing
jackaroos
jackash
jackass
jackassery
jackasses
jackassification
jackassism
jackassness
jackbird
jackboot
jackbooted
jackboots
jackbox
jackboy
jackdaw
jackdaws
jacked
jackeen
jacker
jackeroo
jackeroood
jackerooing
jackeroos
jackers
jacket
jacketed
jacketing
jacketless
jacketlike
jackets
jacketwise
jackety
jackey
jackfish
jackfishes
jackfruit
jackhammer
jahveh
jahvis
jai
jail
jailage
jailbait
jailbird
jailbirds
jailbreak
jailbreaker
jailbreaks
jaildom
jailed
jailer
jaileress
jailering
jailers
jailership
jailhouse
jailhouses
jailing
jailish
jailkeeper
jailless
jaillike
jailmate
jailor
jailoring
jailors
jails
jailward
jailyard
jain
jainism
jajman
jak
jakarta
jake
jakes
jakey
jakfruit
jako
jakos
jalap
jalapa
jalapeno
jalapenos
jalapic
jangler
janglers
janglery
jangles
jangling
jangly
janiceps
janiform
janisaries
janisary
janissary
janitor
janitor's
janitorial
janitors
janitorship
janitress
janitresses
janitrix
janizaries
janizary
jank
janker
jankers
jann
janner
jannock
jansenism
jansenist
jant
jantee
jantu
janty
janua
januaries
january
january's
janus
jaob
jap
japaconin
japaconine
japaconitin
japaconitine
japan
japanese
japanesery
japanization
japanize
japanized
japanizes
japanizing
japanned
japanner
japanners
japannery
japanning
japans
jape
japed
japer
japeries
japers
japery
japes
japheth
japhetic
japing
japingly
japish
japishly
japishness
japonaiserie
japonic
japonica
japonicas
japygid
japygoid
jaquette
jaquima
jar
jar's
jara
jarabe
jaragua
jarana
jararaca
jararacussu
jarbird
jarble
jarbot
jarde
jardin
jardini
jardiniere
jardinières
jawbreaker
jawbreakers
jawbreaking
jawbreakingly
jawcrusher
jawed
jawfall
jawfallen
jawfeet
jawfish
jawfishes
jawfoot
jawfooted
jawhole
jawing
jawless
jawlike
jawline
jawlines
jawn
jawp
jawrope
jaws
jawsmith
jawtwister
jawy
jay
jaybird
jaybirds
jaycee
jaycees
jaygee
jaygees
jayhawk
jayhawker
jaypie
jaypiet
jays
jayvee
jayvees
jaywalk
jaywalked
jaywalker
jaywalkers
jaywalking
jaywalks
jayzeran
jayzerant
jejunely
jejuneness
jejunities
jejunitis
jejunity
jejunoduodenal
jejunoileitis
jejunostomies
jejunostomy
jejunotomy
jejenum
jejenumms
jekyll
jelab
jelerang
jelib
jelick
jell
jellab
jellaba
jellabas
jelled
jellib
jellica
jellico
jellied
jelliedness
jellies
jellification
jellified
jellifies
jellify
jellifying
jellily
jelling
jello
jelloid
jells
jelly
jelly's
jellybean
jellybeans
jellydom
jellyfish
jellyfishes
jellying
jellyleaf
jellylike
jetsams
jetsom
jetsoms
jetstream
jettage
jettatore
jettatura
jetteau
jetted
jetter
jettied
jetties
jettiness
jetting
jettingly
jettison
jettisonable
jettisoned
jettisoning
jettisons
jetton
jettons
jettru
jetty
jettyhead
jettying
jettywise
jetware
jew
jeunesse
jeux
jew
jewbird
jewbush
jewed
jewel
jeweled
jeweler
jewelers
jewelfish
jewelfishes
jewelhouse
jeweling
jewelled
jeweller
jewellers
jewellery
jewellless
jimminy
jimmy
jimmying
jimmyweed
jimp
jimper
jimpest
jimply
jimpness
jimpricute
jimpy
jimsedge
jimson
jimsonweed
jin
jina
jincamas
jinet
jing
jingal
jingall
jingalls
jingals
jingbang
jingko
jingkoes
jingle
jinglebob
jingled
jinglejangle
jingler
jinglers
jingles
jinglet
jinglier
jingliest
jingling
jinglingly
jingly
jingo
jingodom
jingoed
jingoed
jingoing
jingoish
jingoism
jingoisms
jingoist
joan
joannes
joaquinite
job
job's
jobade
jobarbe
jobation
jobbed
jobber
jobberies
jobbernowl
jobbernowlism
jobbers
jobbery
jobbet
jobbing
jobbish
jobble
jobe
jobholder
jobholders
jobless
joblessness
joblots
jobman
jobmaster
jobmen
jobmistress
jobmonger
jobname
jobnames
jobo
jobs
jobsite
jobsmith
jobson
jocant
jocasta
jocatory
joch
jock
jocker
jockette
jockettes
jockey
jockeydom
jockeyed
jovialties
jovialty
jovian
jovicentric
jovilabe
jovinianist
jovy
jow
jowar
jowari
jowars
jowed
jowel
jower
jowery
jowing
jowl
jowed
jowler
jowlie
jowliest
jowlish
jowlop
jowls
jowly
jowpy
jows
jowser
jowter
joy
joy's
joyance
joyances
joyancy
joyant
joyce
joycean
joyed
joyful
joyfuller
joyfullest
joyfully
joyfulness
joyhop
joyhouse
joying
joyleaf
joyless
jugglery
juggles
juggling
jugglingly
jugglings
jughead
jugheads
juglandaceous
juglandin
juglar
juglone
jugoslav
jugs
jugsful
jugula
jugular
jugulars
jugulary
jugulate
jugulated
jugulates
jugulating
jugulation
jugulum
jugum
jugums
juice
juice's
juiced
juiceful
juicehead
juiceless
juicelessness
juicer
juicers
juices
juicier
juiciest
juicily
juiciness
juicing
juicy
juise
jujitsu
jujitsus
juju
jujube
jujubes
kachcha
kachin
kachina
kachinas
kadaya
kadder
kaddish
kaddishes
kaddishim
kadein
kadi
kadikane
kadine
kadis
kadischi
kadish
kadishim
kados
kadsura
kae
kaempferol
kaes
kaf
kaferita
kaffeeklatsch
kaftar
kaffirs
kaffiyeh
kaffiyehs
kafila
kafir
kafiri
kafirin
kafirs
kafiz
kafka
kafta
kaftan
kaftans
kago
kagos
kagu
kagura
kagus
kahala
kahar
kahau
kaitaka
kaivalya
kaiwhiria
kaiwi
kajawah
kajeput
kajeputs
kajugaru
kaka
kakapo
kakapos
kakar
kakarali
kakaralli
kakariki
kakas
kakawahie
kakemono
kakemonos
kaki
kakidrosis
kakis
kakistocracies
kakistocracy
kakistocratical
kakkak
kakke
kakogenic
kakorrhapiaphobia
kakortokite
kakotopia
kal
kala
kalaazar
kalach
kaladana
kalam
kalamalo
kalamansanai
kalamkari
kalamks
kalan
kalanchoe
kalasie
kalathoi
kalathos
kale
kaleege
kaleidoscope
kaleidophon
kaleidophone
kaleidoscope
kaleidoscopes
kaleidoscopic
kaleidoscopical
kaleidoscopically
kalema
kalend
kalendar
kalendarial
kalends
kales
kalewife
kalewives
kaleyard
kaleyards
kali
kalian
kaliants
kaliborite
kalidium
kalif
kalifate
kalifates
kaliform
kalifs
kaligenous
kalimba
kalimbas
kalinite
kalinite
kaliophilite
kalipaya
kaliph
kaliphs
kalis
kalium
kaliums
kalkvis
kallah
kallege
kallidin
kallidins
kallilite
kallitype
kalmia
kalmias
kappe
kappellmeister
kappie
kappland
kapuka
kapur
kaput
kaputt
karabiner
karaburan
karacul
karagan
karaism
karaite
karaka
karakul
karakule
karakuls
karakurt
karamu
karanda
karat
karatas
karate
karateist
karates
karats
karatto
karaya
karbi
karch
kareao
kareau
kareeta
karela
karelian
karen
karewa
karez
karinghota
karite
kariti
karma
karmadharaya
karmas
karmathian
karmic
karmouth
katsup
katuka
katun
katurai
katydid
katydids
katzenjammer
kauch
kauri
kauries
kauris
kaury
kava
kavaic
kavas
kavass
kavasses
kaver
kavika
kaw
kawaka
kawakawa
kawika
kay
kayak
kayaker
kayakers
kayaks
kayan
kayles
kayo
kayoed
kayoes
kayoing
kayos
kays
kayward
kazachki
kazachok
kazatske
kazatski
kazatskies
kazatsky
kazi
kazoo
kazoos
kb
kbar
keelson
keelsons
keelvat
keen
keena
keened
keener
keeners
keenest
keening
keenly
keenness
keenesses
keens
keep
keepable
keeper
keeperess
keepering
keeperless
keepers
keepership
keeping
keepings
keepnet
keeps
keepsake
keepsakes
keepsaky
keepworthy
keerie
keerogue
keeshond
keeshonden
keeshonds
keeslip
keest
keester
keesters
keet
keets
keeve
keeves
kef
keffel
keffiyeh
kefiatoid
kefirfel
kemptken
kempts
kempy
ken
kenaf
kenafs
kenareh
kench
kenches
kend
kendal
kendir
kendna
kendo
kendoist
kendos
kendy
kendyr
kenema
kenlore
kenmark
kenmpty
kennebecker
kenned
kennedy
kennel
kennel's
keneled
kenneling
kennell
kennelled
kennelling
kennelly
kennelman
kennels
kenner
kennet
kenning
kennings
kenningwort
kenno
kenny
keno
kenogenesis
kenogenetic
kenogenetically
kenogeny
keracele
keraci
keralite
keramic
keramics
kerana
keraphylocele
keraphyllous
kerasin
kerasine
kerat
keratalgia
keratectacia
keratectasia
keratectomies
keratectomy
keratin
keratinization
keratinize
keratinized
keratinizing
keratinoid
keratinophilic
keratinose
keratinous
keratins
keratits
keratoangioma
keratocele
keratocentesis
keratoceni
keratoconi
keratoconjunctivitis
keratoconus
keratocricoid
keratode
keratoderma
keratodermia
keratogenic
keratogenous
keratoglobus
keratoglossus
keratohelcosis
keratohyal
keratoid
keratoiritis
keratol
keratoleukoma
keratolysis
keratolytic
keratoma
keratomalacia
keratomas
keratomata
keratome
keratometer
keratometric
keratometry
keratomycosis
keratoncus
keratonosus
keratonyxis
keratophyr
keratophyre
keratoplastic
keratoplasties
keratoplasty
keratorrhesis
keratoscope
keratoscopy
keratose
keratoses
keratosic
keratosis
keratoscopy
keratotic
keratotome
keratotomies
keratotomy
keratto
keraulophon
keraulophone
keraunia
keraunion
keraunograph
keraunographic
keraunography
keraunophobia
keraunophone
keraunophonic
keraunoscopy
kerb
kerbaya
kerbed
kerbing
kevil
kevils
kevutzah
kevutzoth
keweenawite
kewpie
kex
kexes
kexy
key
keyage
keyaki
keyboard
keyboard's
keyboarded
keyboarder
keyboarding
keyboards
keybutton
keyed
keyhole
keyholes
keying
keyless
keylet
keylock
keyman
keymen
keymove
keynesian
keynote
keynoted
keynoter
keynoters
keynotes
keynoting
keypad
keypad's
keypads
keypress
keypresses
keypunch
keypunched
keypuncher
keypunchers
keypunches
keypunching
keys
kiang
kiangs
kiaugh
kiaughs
kibbeh
kibber
kibble
kibbled
kibbler
kibblerman
kibbles
kibbling
kibbutz
kibbutzim
kibbutznik
kibe
kihei
kibes
kibitka
kibitz
kibitzed
kibitzer
kibitzers
kibitzes
kibitzing
kibla
kiblah
kiblahs
kiblas
kibosh
kiboshed
kiboshes
kiboshing
kibsey
kiby
kichel
kick
kickable
kickback
kickbacks
kickball
kickboard
kickdown
kicked
kickee
kicker
kickers
kickier
kidling
kidnap
kidnapped
kidnapee
kidnaper
kidnapers
kidnaping
kidnapped
kidnappee
kidnapper
kidnapper's
kidnappers
kidnapping
kidnapping's
kidnappings
kidnaps
kidney
kidney's
kidneylike
kidneylipped
kidneyroot
kidneys
kidnector
kids
kidskin
kidskins
kidsman
kidvid
kie
kief
kiefekil
kiefs
kiekie
kiel
kielbasas
kielbasas
kielbasi
kielbasy
kier
kiers
kieselguhr
kieselgur
kieserite
kieselguhr
kieselgur
kieserite
kiester
kiesters
killer
killers
killese
killick
killickinmic
killickinmick
killicks
killifish
killifishes
killig
killikinic
killikinick
killing
killingly
killingness
killings
killinite
killjoy
killjoys
killoch
killock
killocks
killogie
killow
kills
killweed
killwort
killy
kiln
kilned
kilneye
kilnhole
kilning
kilnman
kilnrib
kilns
kilnstick
kilntree
kilo
kiloampere
kilobar
kilobars
kilobit
kilobits
kiloblock
kilobuck
kilobyte
kilobytes
kinematographically
kinematography
kinemometer
kineplasty
kinepox
kines
kinesalgia
kinescope
kinescoped
kinescopes
kinescoping
kineses
kinesiatric
kinesiatrics
kinesic
kinesically
kinesics
kinesimeter
kinesiologic
kinesiological
kinesiologies
kinesiology
kinesiometer
kinesipathy
kinesis
kinesitherapy
kinesodic
kinestheses
kinesthesia
kinesthesias
kinesthesis
kinesthetic
kinesthetically
kinetic
kinetical
kinetical
kinetically
kineticism
kineticist
kinetics
kinetin
kinetins
kinetochore
kinetogenesis
kinetogenetic
kinetogenetically
kinetogenic
kinetogram
kinetograph
kinglet
kinglets
kinglier
kingliest
kinglihood
kinglike
kinglily
kingliness
kingling
kingly
kingmaker
kingmaking
kingpiece
kingpin
kingpins
kingpost
kingposts
kingrow
kings
kingship
kingships
kingside
kingsides
kingsize
kingsman
kingsnake
kingston
kingweed
kingwood
kingwoods
kinhin
kinic
kinin
kininogen
kininogenic
kinins
kink
kinkable
kinkaider
kinkajou
kinkajous
kinkcough
kinked
kinker
kinkhab
kinkhaust
kinkhost
kinkier
kittenlike
kittens
kittenship
kitter
kittereen
kitthoge
kittie
kitties
kitting
kittisol
kittiwake
kittle
kittled
kittlepins
kittler
kittles
kittlest
kittling
kittlish
kittly
kittock
kittool
kittul
kitty
kittycorner
kittycornered
kittysol
kittysol
kiutle
kiva
kivas
kiver
kivikivi
kivu
kiwach
kiwanian
kiwi
kiwikiwi
kiwis
kiyas
kiyi
kjeldahlization
kjeldahlize
kl
klaberjass
klafter
klaftern
klam
koilanaglyphic
koilon
koilonychia
koimesis
koine
koines
koinon
koinonia
kojang
kojima
kojiri
kokako
kokam
kokama
kakan
kokanee
kokanees
kokerboom
kokia
kokil
kokila
kokio
koklas
koklass
koko
kokobeh
kokoon
kokoona
kokopu
kokoromiko
kokos
kokowai
kokra
koksgaghzyz
koksgagyzy
kokstad
koktaite
koku
kokum
kokumin
kokumingun
kola
kolach
kolacky
kolami
kolas
kolattam
kolea
kompow
komtok
kon
kona
konak
kondo
konfyt
kong
kongo
kongoni
kongsbergite
kongu
konilite
konimeter
koninekite
konini
koniology
koniophobia
koniscope
konjak
konkani
konohiki
konseal
konstantin
kontakia
kontakion
koodoo
koodoos
kook
kooka
kookaburra
kookeree
kookery
kookie
kookier
kookiest
kookiness
kookri
kooks
kooky
koolah
koolau
kooleta
kooliman
koolokamba
koombar
koomkie
koonti
koopbrief
koorajong
koorhm
koorka
koosin
kootcha
kootchar
kop
kopec
kopeck
kopecks
kopek
kopeks
kopfring
kop
kophs
kopi
kopis
kopje
kopjes
kopophobia
koppa
koppas
koppen
koppie
koppies
koppite
kops
kor
kora
koradji
korai
korait
korakan
koran
korari
kordax
kore
korea
korean
koreans
korec
koreci
korero
korfball
korhm
kori
korimako
kotower
kotowers
kotowing
kotows
kotschubeite
kottaboi
kottabos
kottigite
kotuku
kotukutuku
kotwal
kotwalee
kotwali
kotyle
kotylos
kou
koulan
koulibiaca
koumis
koumises
koumiss
koumisses
koumys
koumyses
koumyss
koumysses
kouprey
koupreys
kouproh
kourbash
kouroi
kouros
kousin
koussin
koussos
kouza
kovil
kowbird
kowhai
kowtow
kowtowed
kowtower
kowtowers
kowtowing
kowtows
koyan
koyemshi
kyathos
kyats
kyaung
kyd
kye
kyke
kyl
kyle
kylies
kylies
kylke
kylin
kylite
kylix
kyloe
kymation
kymatology
kymbalon
kymnel
kymogram
kymograms
kymograph
kymographic
kymography
kymric
kynurenic
kynurin
kynurine
kyoodle
kyoodled
kyoodling
kyoto
kyphoscoliosis
kyphoscoliotic
kyphoses
kyphosis
kyphotic
kyrial
kyriale
kyrie
kyrielle
kyries
kyrine
kyriologic
kyrios
kyschty
kyschtymite
labiogression
labioguttural
labiolingual
labiomancy
labiomental
labionasal
labiopalatal
labiopalatalize
labioplatine
labiopharyngeal
labioplasty
labiose
labiotenaculum
labiovelar
labiovelarisation
labiovelarise
labiovelarised
labiovelarising
labiovelarization
labiovelarize
labiovelarized
labiovelarizing
labioversion
labis
labite
labium
lablab
labor
laborability
laborable
laborage
laborant
laboratorial
laboratorially
laboratorian
laboratories
laboratory
laboratory's
labordom
labored
laboredly
laboredness
laborer
laborers
labores
laboress
laborhood
laboring
labrets
labrid
labroid
labroids
labrosaurid
labrosauroid
labrose
labrum
labrums
labrusca
labrys
labs
laburnum
laburnums
labyrinth
labyrinthal
labyrinthally
labyrinthed
labyrinthian
labyrinthibranch
labyrinthibranchiate
labyrinthic
labyrinithical
labyrinithically
labyrinithiform
labyrinithine
labyrinithitis
labyrinithodon
labyrinithodont
labyrinithodontian
labyrinithodontid
labyrinithodontoid
labyriniths
lac
lacatan
lacca
laccaic
laccainic
laccase
laccic
laccin
laccol
laccolite
laccolith
laccolithic
laccoliths
laccolitic
lace
lacebark  
laced  
lacedaemonian  
laceflower  
laceier  
laceiest  
laceleaf  
laceless  
lacelike  
lacemaker  
lacemaking  
laceman  
lacemen  
lacepiece  
lacepod  
lacer  
lacerability  
lacerable  
lacerant  
lacerate  
lacerated  
lacerately  
lacerates  
lacerating  
laceration  
lacerations  
lacerative  
lacerna  
lacernae  
lacernas  
lacers  
lacert  
lacertian  
lacertid  
lacertids  
lacertiform  
lacertilian  
lacertiloid  
lacertine  
lacertoid  
lacertose  
lacery  
laces  
lacet  
lacetilian  
lacetilian  
lacewing  
lacewing  
lacewings  
lacewoman
lacewomen
lacewood
lacewoods
lacework
laceworker
laceworks
lacey
laceybark
lache
laches
lachesis
lachryma
lachrymable
lachrymae
lachrymaeform
lachrymal
lachrymally
lachrymalness
lachrymary
lachrymation
lachrymator
lachrymatories
lachrymatory
lachrymiform
lachrymist
lachrymogenic
lachrymonasal
lachrymosal
lachrymose
lachrymosely
lachrymosity
lachrymous
lachsa
lacier
laciest
lacily
laciness
lacinesses
lacing
lacings
lacinia
laciniate
laciniated
laciniation
laciniform
laciniola
laciniolate
laciniose
lacinious
lacinula
lacinulas
lacinulate
lacinulose
lacis
lack
lackadaisic
lackadaisical
lackadaisicality
lackadaisically
lackadaisicalness
lackadaisy
lackaday
lackbrained
lackbrainedness
lacked
lacker
lackered
lackerer
lackering
lackers
lackey
lackeydom
lackeyed
lackeying
lackeyism
lackeys
lackeyship
lackies
lacking
lackland
lackluster
lacklustered
lacklusterness
lacklustre
lacklustrous
lacks
lacksense
lackwit
lackwitted
lackwittedly
lackwittedness
lacmoid
lacmus
lacoca
lacolith
laconian
laconic
lactary
lactase
lactases
lactate
lactated
lactates
lactating
lactation
lactational
lactationally
lactations
lacteal
lacteally
lacteals
lactean
lactenin
lacteous
lactesce
lactescence
lactescency
lactescenle
lactescense
lactescent
lactic
lacticinia
lactid
lactide
lactiferous
lactiferousness
lactific
lactificial
lactification
lactified
lactiflorous
lactifluous
lactiform
lactifuge
lactify
lactifying
lactigenic
lactigenous
lactigerous
lactim
lactimide
lactinate
lactobaccilli
ladhood
ladies
ladified
ladify
ladifying
ladin
lading
ladings
ladino
ladinos
ladkin
ladle
ladled
ladleful
ladlefuls
ladler
ladlers
lades
ladewood
ladling
ladner
ladron
ladrone
ladrones
ladronism
ladronize
ladrons
lads
lady
lady's
ladybird
ladybirds
ladybug
ladybugs
ladyclock
ladydom
ladyfern
ladyfinger
ladyfingers
ladyfish
ladyfishes
ladyflies
ladyfly
ladyfy
ladyhood
ladyhoods
ladyish
ladyishly
ladyishness
ladyism
ladykiller
ladykin
ladykind
ladykins
ladyless
ladylike
ladylikely
ladylikeness
ladyling
ladylintywhite
ladylove
ladyloves
ladyly
ladypalm
ladypalms
ladysfinger
ladyship
ladyships
ladyslipper
ladysnow
laemodipod
laemodipodan
laemodipodiform
laemodipodous
laemoparalysis
laemostenosis
laen
laender
laetropic
laetropism
laetropous
laertes
laet
laetation
laeti
laetic
laetrile
laevigate
laevo
laevoduction
laevogyrate
laevogyre
laevogyrus
laevolactic
laevorotation
laevorotatory
lagomorphous
lagomorph
lagonite
lagoon
lagoon's
lagoonal
lagoons
lagoonside
lagophthalmos
lagophthalmus
lagopode
lagopodous
lagopous
lagopus
lagostoma
lagrangian
lags
laguna
lagunas
lagune
lagunes
lagwort
lah
lahar
lahnda
lahore
lai
laic
laical
laicality
laically
laich
laichs
laicisation
laicise
laicised
laicises
laicising
laicism
laicisms
laicity
laicization
laicize
laicized
laicizer
laicizes
laicizing
laics
lamellate
lamellated
lamellately
lamellation
lamellibranch
lamellibranchiate
lamellicorn
lamellicornate
lamellicornous
lamelliferous
lamelliform
lamellirostral
lamellirostrate
lamellloid
lamellose
lamellosity
lamellule
lamely
lameness
lamesenesses
lament
lamentable
lamentability
lamentable
lamentableness
lamentably
lamentation
lamentation's
lamentational
lamentations
lamentatory
lamented
lamentedly
lamenter
lamenters
lamentful
lamenting
lamentingly
lamentive
lamentory
laments
lamer
lames
lamest
lamester
lamestery
lameter
lametta
lamia
lamiaceous
lamiae
lamias
lamiger
lamiid
lamin
lamina
laminability
laminable
laminae
laminal
laminar
laminaria
laminariaceous
laminarian
laminarin
laminarioid
laminarite
laminary
laminas
lamine
laminated
laminates
laminating
lamination
laminator
laminboard
laminectomy
laming
lamington
laminiferous
laminiform
laminiplantar
laminiplantation
laminitis
laminose
laminous
lamish
lamister
lamisters
lamiter
lamm
lammes
lammed
lammer
lammergeier
lammergeir
lammergeyer
lammie
lamming
lammock
lammy
lamnectomy
 lamnid
lamnoid
lamp
lamp's
lampad
lampadaire
lampadaries
lampadary
lampadedromy
lampadephore
lampadephoria
lampadist
lampadite
lampads
lampara
lampas
lampases
lampate
lampatia
lampblack
lampblackened
lampblackening
lamped
lamper
lampern
lampers
lamperses
lampf
lampflower
lampfly
lampful
lamphole
lampic
lamping
lampion
lampions
lampist
lampistry
lampless
lamplet
lamplight
lamplighted
landladies
landlady
landlady's
landladydom
landladyhood
landladyish
landladyship
landleaper
lander
landlers
landless
landlessness
landlike
landline
landlock
landlocked
landlook
landlooker
landloper
landloping
landlord
landlord's
landlordism
landlordly
landlordry
landlords
landlordship
landlouper
landloupings
landlubber
landlubberish
landlubberly
landlubbers
landlubbing
landman
landmark
landmark's
landmarks
landmass
landmasses
landmen
landmil
landmonger
landocracies
landocracy
landocrat
landolphia
landowner
landowner's
landowners
landownership
landowning
landplane
landrace
landrail
landraker
landreeve
landright
lands
landsale
landsat
landscape
landsaped
landscaper
landscapers
landscapes
landscaping
landscapist
landshard
landshark
landship
landsick
landside
landsides
landskip
landsips
landsknecht
landsleit
landslid
landslidden
landslide
landsliced
landsides
landslanding
landslip
landsips
landsmaal
landsman
landsmanleit
landsmanshaft
landsmanshaften
landsmen
landspout
landspringy
landstorm
landsturm
landswoman
landtrost
landwaiter
landward
landwards
landwash
landway
landways
landwehr
landwhin
landwire
landwreck
landwreck
landyard
lane
lane's
lanely
lanes
lanesome
lanete
laneway
laney
lang
langaha
langarai
langate
langauge
langbanite
langbeinite
langca
langeel
langel
langi
langiel
langite
langka
langlauf
langlauffer
langlaufers
langlaufs
langle
langley
langleys
langobardic
langoon
langooty
langosta
langouste
langur
langurs
laniard
laniards
laniaries
laniariform
laniary
laniate
lanier
laniferous
lanific
lanifice
laniflorous
laniform
lanigerous
laniiform
laniod
lanista
lanistae
lanital
lanitals
lank
lanker
lankest
lanket
lankier
lankiest
lankily
lankiness
lankish
lankly
lankness
lanknesses
lanky
lanner
lanneret
lannerets
lanners
lanolated
lanolin
lanoline
lanolines
lanolins
lanose
lanosities
lanosity
lansa
lansat
lapsided
lapsing
lapsingly
lapstone
lapstrake
lapstreak
lapstreaked
lapstreaker
lapsus
laptop
lapulapu
laputan
laputically
lapwing
lapwings
lapwork
laquais
laquear
laquearia
laquearian
laquei
laqueus
lar
larararia
lararia
lararium
larboard
larboards
larbolins
larbowlines
larcenable
larcener
larceners
larcenic
larcenies
larcenish
larcenist
larcenists
larcenous
larcenously
larcenousness
larceny
larch
larchen
larcher
larches
larcin
larcinry
lard
lardacein
lardaceous
larded
larder
larderellite
larderer
larderful
larderie
larderlike
larders
lardier
lardiest
lardiform
lardiner
larding
lardite
lardizeralaceous
lardlike
lardon
lardons
lardoon
lardoons
lardry
lards
lardworm
lardy
lare
lareabell
lares
largamente
largando
large
largebrained
largehanded
largehearted
largeheartedly
largeheartedness
largely
largemouth
largemouthed
largen
largeness
largeour
largeous
larger
larges
largess
larvicide
larvicolous
larviform
larvigerous
larvikite
larviparous
larviposit
larviposition
larvivorous
larvule
laryngal
laryngalgia
laryngeal
laryngeally
laryngean
laryngeating
laryngectomee
laryngectomies
laryngectomize
laryngectomized
laryngectomizing
laryngectomy
laryngemphraxis
laryngendoscope
larynges
laryngic
laryngismal
laryngismus
laryngitic
laryngitis
laryngitus
laryngocele
laryngocentesis
laryngofission
laryngofissure
laryngograph
laryngography
laryngologic
laryngological
laryngologist
laryngology
laryngometry
laryngoparalysis
laryngopathy
laryngopharyngeal
laryngopharynges
laryngopharyngitis
laryngopharynx
laryngopharynxes
laryngophony
laryngophthisis
laryngoplasty
laryngoplegia
laryngorrhagia
laryngorrhrea
laryngoscleroma
laryngoscope
laryngoscopic
laryngoscopical
laryngoscopically
laryngoscopies
laryngoskopist
laryngoscopy
laryngospasm
laryngostasis
laryngostenosis
laryngostomy
laryngostroboscope
laryngotome
laryngotomies
laryngotomy
laryngotracheal
laryngotracheitis
laryngotracheoscopy
laryngotracheotomy
laryngotyphoid
laryngovestibulitis
larynx
larynxes
las
lasa
lasagna
lasagnas
lasagne
lasagnes
lasarwort
lascar
lascaree
lascarine
lascars
laschety
lascivient
lasciviently
lascivious
lasciously
lasciviousness
lase
lased
laser
laser's
laserdisk
laserdisks
laserjet
lasers
laserwort
lases
lash
lashed
lasher
lashers
lashes
lashing
lashingly
lashings
lashins
lashkar
lashkars
lashless
lashlight
lashlite
lashness
lashorn
lasianthous
lasing
lasiocampid
lasiocarpous
lask
lasket
lasking
laspring
lasque
lass
lass's
lasses
lasset
lassie
lassiehood
lassieish
lassies
lassiky
lassitude
lassitudes
lasslorn
lasso
latericumbent
lateriflexion
laterifloral
lateriflorous
laterifolious
laterigrade
laterinerved
laterite
laterites
lateritic
lateritious
lateriversion
laterization
lateroabdominal
lateroanterior
laterocaudal
laterocervical
laterodeviation
laterodorsal
lateroduction
lateroflexion
lateromarginal
lateronuchal
lateroposition
lateroposterior
lateropulsion
laterostigmatial
laterostigmatic
laterotemporal
laterotorsion
lateroventral
lateroverversion
latescence
latescent
latesome
latest
lates
lateward
latewhile
latewhiles
latewood
latewoods
latex
latexes
latexosis
lath
latham
lathe
lathed
lathee
latheman
lathen
lather
latherability
latherable
lathered
lathereeve
latherer
latherers
lathering
latheron
lathers
latherwort
lathery
lathes
lathesman
lathesmen
lathhouse
lathi
lathie
lathier
lathiest
lathing
lathings
lathlike
lathreeve
laths
lathwork
lathworks
lathy
lathyric
lathyrism
lathyritic
lati
latian
latibule
latibulize
latices
laticifer
laticiferous
laticlave
laticostate
latidentate
latifolia
latifoliate
latifolious
latifundia
latifundian
latifundio
latifundium
latigo
latigoes
latigos
latimer
latimeria
latin
latinate
latinian
latinism
latinist
latinities
latinity
latinization
latinize
latinized
latinizes
latinizing
latino
latinos
latins
lation
latipennate
latipennine
latiplantar
latirostral
latirostrous
latisept
latiseptal
latiseptate
latish
latissimi
latissimus
latisternal
latitancy
latitant
latitat
latite
latitude
latitude's
latitudes
latitudinal
latitudinally
latitudinarian
latitudinarianism
lauric
laurin
laurinoxylon
laurionite
laurite
laurone
laurotetanine
lauroyl
laurustine
laurustinus
laurvikite
laury
lauryl
laus
lautarite
lautenclavicymbal
lauter
lautite
lautitious
lautu
lauwine
lauwines
lav
lava
lavable
lavabo
lavaboes
lavabos
lavacre
lavadero
lavage
lavages
lavalava
lavalavas
lavalier
láveliere
lávelieres
láveliers
lávelike
lavallière
lavament
lavandera
lavanderas
lavandero
lavanderos
lavandin
lavanga
lavant
lavaret
lavas
lavash
lavatic
lavation
lavational
lavations
lavatorial
lavatories
lavatory
lavatory's
lavature
lave
laveche
laved
laveer
laveered
laveering
laveers
lavement
lavender
lavendered
lavendering
lavenders
lavenite
laver
laveroc
laverock
laverocks
lavers
laverwort
laves
lavette
lavialite
lavic
laving
lavish
lavished
lavisher
lavishers
lavishes
lavishest
lavishing
lavishingly
lavishly
lavishment
lavishness
lavolta
laxist
laxities
laxity
laxly
laxness
laxnesses
lay
layabout
layabouts
layaway
layaways
layback
layboy
laydown
layed
layer
layerage
layerages
layered
layering
layerings
layers
lavery
layette
layettes
layfolk
laying
layland
laylight
layloc
laylock
layman
laymanship
laymen
layne
layner
layoff
layoffs
layout
layout's
layouts
layover
layovers
layperson
layrock
lays
layshaft
layship
laystall
laystow
layup
laywoman
laywomen
lazar
lazaret
lazarets
lazarette
lazaretto
lazarettos
lazarist
lazarlike
lazarily
lazareole
lazarone
lazarous
lazars
lazarus
lazary
laze
lazed
lazes
lazied
lazier
lazies
laziest
lazily
laziness
lazinesses
lazing
lazule
lazuli
lazuline
lazulis
lazulite
lazulites
lazulitic
lazurite
lazurites
lazy
lazyback
lazybed
lazybird
lazybone
lazybones
lazyboots
lazyhood
leadenpated
leader
leaderess
leaderette
leaderless
leaders
leadership
leadership's
leaderships
leadeth
leadhillite
leader
leadiest
leadin
leadiness
leading
leadingly
leadings
leadless
leadline
leadman
leadoff
leadoffs
leadout
leadplant
leadproof
leads
leadsman
leadsmen
leadstone
leadway
leadwood
leadwork
leadworks
leadwort
leadworts
leady
leaf
leafage
leafages
leafbird
leafboy
leafcup
leafdom
leafed
leafen
leafer
leafery
leafgirl
leafhopper
leafhoppers
leafier
leafiest
leafiness
leafing
leafit
leafless
leaflessness
leaflet
leaflet's
leafleteer
leaflets
leaflike
leafmold
leafs
leafstalk
leafstalks
leafwood
leafwork
leafworm
leafworms
leafy
league
leagued
leaguelong
leaguer
leaguered
leaguerer
leaguering
leaguers
leagues
leaguing
leak
leakage
leakage's
leakages
leakance
leaked
leaker
leakers
leakier
leakiest
leakily
leakiness
leaking
leakless
leathercraft
leathered
leatherer
leatherette
leatherfish
leatherishes
leatherflower
leatherhead
leatherine
leatheriness
leathering
leatherize
leatherjacket
leatherleaf
leatherleaves
leatherlike
leatherlikeness
leathermaker
leathermaking
leathern
leatherneck
leathernecks
leatheroid
leatherroot
leathers
leatherside
leatherware
leatherwing
leatherwood
leatherwork
leatherworker
leatherworking
leathery
leathere
leathewake
leatman
leatmen
leave
leaved
leaveless
leavelooker
leaven
leavened
leavening
leavenish
leavenless
leavenous
leavens
leaver
leavers
leaverwood
leaves
leavetaking
leavier
leaviest
leaving
leavings
leavy
leawill
leban
lebanese
lebanon
lebban
lebbe
leben
lebens
lebensraum
lebes
lebhaft
lebkuchen
lebrancho
lecama
lecaniid
lecanine
lecanomancer
lecanomancy
lecanomantic
lecanoraceous
lecanoric
lecanorine
lecanoroid
lecanoscopic
lecanoscopy
lech
lechatelierite
lechayim
lechayims
leche
lecher
lechered
lecherer
lecheries
lechering
lecherous
lecherously
lecherousness
lechers
lechery
leches
lechosa
lechriodont
lechuguilla
lechuguillas
lechwe
lecidaceous
lecidiform
lecideine
lecidioid
lecithal
lecithalbumin
lecithality
lecithic
lecithin
lecithinase
lecithins
lecithoblast
lecithoid
lecithoprotein
leck
leckier
leckierite
lecticopal
lect
lectern
lecterns
lecithi
lectica
lection
lectionaries
lectionary
lections
lectisternium
lector
lectorate
lectorial
lectors
lectorship
lectotype
lectress
lectrice
lectual
lectuary
lecture
lected
lecturee
leechcraft
leechdom
leecher
leechery
leeches
leeching
leechkin
leechlike
leechman
leechwort
leed
leeds
leef
leefang
leefange
leeftail
leeful
leefully
leegatioen
leegte
leek
leekish
leeks
leeky
leelane
leelang
leep
leepit
leer
leered
leerfish
leerier
leeriest
leerily
leeriness
leering
leeringly
leerish
leerness
leeroway
leers
leery
lees
leese
leeser
leeshyy
leesing
leesome
leesomely
leet
leetle
leetman
leetmen
leets
leewan
leeward
leewardly
leewardmost
leewardness
leewards
leeway
leeways
leewill
lefsel
lefsen
left
left
leftest
lefties
leftish
leftism
leftisms
leftist
leftist's
leftists
leftments
leftmost
leftness
leftover
leftover's
leftovers
lefts
leftward
leftwardly
leftwards
leftwing
leftwinger
lefty
leg
legacies
legacy
legacy's
legal
legalese
lege
legend
legend's
legenda
legendarian
legendaries
legendarily
legendary
legendic
legendist
legendize
legendized
legendizing
legendless
legendries
legendry
legends
leger
legerdemain
legerdemainist
legerete
legerities
legerity
legers
leges
legge
legged
legger
leggiadrous
leggier
leggiero
leggiest
leggins
legginess
legging
legginged
leggings
leggins
leggy
legharness
leghorn
leghorns
legibilities
legibility
legible
legibleness
legibly
legifer
legitimatised
legitimatising
legitimatist
legitimatization
legitimatize
legitimatized
legitimatizing
legitime
legitimisation
legitimise
legitimised
legitimising
legitimism
legitimist
legitimistic
legitimity
legitimization
legitimizations
legitimize
legitimized
legitimizer
legitimizes
legitimizing
legitimum
legits
leglen
legless
leglessness
leglet
leglike
legman
legmen
legoa
legong
legpiece
legpull
legpuller
legpulling
legrete
legroom
legrooms
legrope
legs
legua
leguan
leguleian
leguleious
leishmania
leishmanial
leishmaniasis
leishmanic
leishmanioid
leishmaniosis
leiss
leister
leistered
leisterer
leistering
leisters
leisurate
leisurable
leisurably
leisure
leisured
leisureful
leisureless
leisureliness
leisurely
leisureness
leisures
leitmotif
leitmotifs
leitmotiv
leitneriaceous
lek
lekach
lekanai
lekan
lekha
lekker
leks
lekythi
lekythoi
lekythos
lekythus
lelwel
leman
lemanry
lemans
leme
lemel
lemma
lemma's
lemmas
lemmata
lemmatize
tlemming
tlemmings
ntlemmitis
ntlemmobilastic
ntlemmocyte
ntlemmon
ntlemmus
ntlemnaceous
ntlemnad
ntlemnian
ntlemniscata
ntlemniscate
ntlemniscatic
ntlemnisci
ntlemniscus
ntlemnisnisci
ntlemogra
ntlemography
ntlemology
ntlemmon
ntlemon's
ntlemonade
ntlemonades
ntlemonado
ntlemonfish
ntlemonishes
ntlemongrass
ntlemonish
ntlemonlike
ntlemons
ntlemonweed
ntlemonwood
ntlemony
ntlempira
ntlempiras
ntlemur
ntlemures
ntlemurian
ntlemurid
ntlemuriform
ntlemurine
ntlemurlike
ntlemuroid
ntlemuroids
ntlemurs
ntlenad
ntlenard
lenticulate
lenticulated
lenticulating
lenticulation
lenticule
lenticulosstriate
lenticulothalamic
lentiform
lentigerous
lentigines
lentiginose
lentiginous
lentigo
lentil
lentil's
lentile
lentils
lentiner
lentisc
lentiscine
lentisco
lentiscus
lentisk
lentisks
lentissimo
lentitude
lentitudinous
lentner
lento
lentoid
lentor
lentos
lentous
lenvoi
lenvoy
leo
leodicid
leon
leonard
leonardesque
leonardo
leoncito
leone
leones
leonhardite
leonid
leonine
leoninely
leonines
leonite
leontiasis
leontocepalous
leontodon
leopard
leopard's
leoparde
leopardess
leopardine
leopardite
leopards
leopardskin
leopardwood
leopoldite
leos
leotard
leotards
lep
lepa
lepadid
lepadoid
lepage
lepal
lepargylic
leper
leperdom
lepered
lepero
lepers
lepid
lepidene
lepidin
lepidine
lepidity
lepidly
lepidoblastic
lepidodendraceous
lepidodendrid
lepidodendrds
lepidodendroid
lepidodendroids
lepidoid
lepidolite
lepidomelane
lepidophylous
lepidophyte
lepidophytic
lepidoporphyrin
lepidopter
lepidoptera
lepidopteral
lepidopteran
lepidopterid
lepidopterist
lepidopterological
lepidopterologist
lepidopterology
lepidopteron
lepidopterous
lepidosaurian
lepidoses
lepidosiren
lepidosirenoid
lepidosis
lepidosteoid
lepidote
lepidotic
lepsmoid
lepocyta
lepocyte
leporicide
leporid
leporidae
leporide
leporids
leporiform
leporine
lepospondylous
lepothrix
leppy
lepra
lepralian
lepre
leprechaun
leprechauns
lepric
leprid
leprine
leproid
leprologic
leprologist
leprology
leproma
lepromatous
leprosaria
leptokurtic
leptokurtosis
leptology
leptomatic
leptome
leptomedusan
leptomeningeal
leptomeninges
leptomeningitis
leptomeningx
leptometer
leptomonad
lepton
leptonecrosis
leptonema
leptonic
leptons
letopellic
leptophyllous
leptoprosope
leptoprosoptic
leptoprosopous
leptoprosopy
leptorrhin
leptorrhine
leptorrhinian
leptorrhininism
leptorrhiny
leptosomatic
leptosome
leptosomic
leptosperm
leptospira
leptospirae
leptospiral
leptospiras
leptospire
leptospirosis
leptosporangiate
leptostracan
leptostracous
leptotene
leptus
leptynite
lequear
ler
lernaean
lernaefiform
leucemic
leuch
leuchaemia
leuchemia
leuchtenbergite
leucic
leucin
leucine
leucines
leucins
leucism
leucite
leucites
leucitic
leucitis
leucitite
leucitohedron
leucitoid
leucitophyre
leuco
leucobasalt
leucoblast
leucoblastic
leucocarpous
leucochalcite
leucocholic
leucocholy
leucochroic
leucocidic
leucocidin
leucocism
leucocrate
leucocratic
leucocyan
leucocytal
leucocyte
leucocythaemia
leucocythaemic
leucocythemia
leucocythemic
leucocytic
leucocytoblast
leucocytogenesis
leucocytoid
leucocytology
leucocytolsin
leucocytolysis
leucocytolytic
leucocytometer
leucocytopenia
leucocytopenic
leucocytoplania
leucocytopoiesis
leucocytosis
leucocytotherapy
leucocytic
leucoderma
leucodermatous
leucodermia
leucodermic
leucoencephalitis
leucoethiop
leucogenic
leucoid
leucoindigo
leucoindigotin
leucoline
leucolytic
leucoma
leucomaine
leucomas
leucomatous
leucomelanic
leucomelanous
leucon
leucones
leuconoid
leuconostoc
leucopenia
leucopenic
leucophane
leucophanite
leucophlegmacy
leucophoenicite
leucophage
leucophyllous
leucophyre
leucoplakia
leucoplakial
leucoplast
leucoplastid
leucopoiesis
leucopoietic
leucopus
leucopyrite
leucoquinizarin
leucorrhrea
leucorrhreal
leucorrhoea
leucorrhoeal
leucoryx
leucosis
leucospermous
leucosphenite
leucosphere
leucospheric
leucostasis
leucosticte
leucosyenite
leucotactic
leucotaxin
leucotaxine
leucotic
leucotome
leucotomies
leucotomy
leucotoxic
leucous
leucoxene
leucyl
leud
leudes
leuds
leuk
leukaemia
leukaemic
leukemia
leukemias
leukemic
leukemics
leukemid
leukemoid
leukoblast
leukoblastic
leukocidic
leukocidin
leukoctyoid
leukocyte
leukocytes
leukocythemia
leukocytic
leukocytoblast
leukocytoid
leukocytopenia
leukocytosis
leukocytotic
leukoderma
leukodystrophy
leukoma
leukomas
leukon
leukons
leukopedesis
leukopenia
leukopenic
leukopoiesis
leukopoietic
leukorrhea
leukorrheal
leukorrhoea
leukorrhoeal
leukoses
leukosis
leukotaxon
leukotaxine
leukotic
leukotomies
leukotomy
leuma
lev
leva
levade
levalloisian
levance
levancy
levant
levanted
levanter
levantera
levanters
levantine
levanting
levanto
levants
leverterenol
levation
levator
levatores
levators
leve
leveche
levee
levorotatory
levotartaric
levoversion
levulic
levulin
levulinic
levulins
levulose
levuloses
levulosuria
levy
levying
levyist
levyne
levynite
lew
lewder
lewdest
lewdry
lewdness
lewdnesses
lewdster
lewing
lewis
lewises
lewisite
lewisites
lewisson
lewissons
lewist
lewnite
lewnth
lewy
lex
lexeme
lexemic
lexia
lexic
lexica
lexical
lexicalic
lexicality
lexically
lexicog
lexicographer
lexicographers
lexicographian
liberalizing
liberally
liberalness
liberals
liberate
liberated
liberates
liberating
liberation
liberationism
liberationist
liberationists
liberations
liberative
liberator
liberator's
liberators
liberatory
liberatress
liberatrice
liberatrix
liberia
liberian
liberians
liberomotor
libers
libertarian
libertarianism
libertarians
liberticidal
liberticide
liberties
libertinage
libertine
libertines
libertinism
liberty
liberty's
libertyless
liberum
libethenite
libget
libidibi
libidinal
libidinally
libidinist
libidinization
libidinized
libyan
libyans
licareol
licca
lice
licence
licenceable
/licenced
licencee
licencees
licencer
licencers
licences
licencing
licensable
license
licensed
licensee
licensees
licenseless
licenser
licensors
licenses
licensing
licensor
licensors
licensure
licentiate
licentiates
licentiateship
licentiation
licentious
licentiously
licentiousness
licet
lich
licham
lichanos
lichee
lichees
lichen
lichen's
lichenaceous
lichened
lichened
lichenian
licheniasis
lichenic
lichenicolous
lickers
lickety
licking
lickings
lickpenny
licks
lickspit
lickspits
lickspittle
lickspittling
licorice
licories
licorn
licorne
licorous
licour
lictor
lictorian
lectors
licuri
licury
lid
lid's
lidar
lidars
lidded
lidded
lidden
lidder
lidderon
lidding
lidflower
lidgate
lidia
lidias
lidicker
lidless
lidlessly
lido
lidocaine
lidos
lids
lie
liebenerite
lieberkuhn
liebfraumilch
liebgeaitor
liebig
liebigite
lieblich
lifelessly
lifelessness
lifelet
lifelike
lifelikeness
lifeline
lifelines
lifelong
lifemanship
lifen
lifer
liferent
liferented
liferenter
liferenting
liferentrix
liferoot
lifers
lifesaver
lifesavers
lifesaving
lifemanship
lifespan
lifespan
lifespans
lifespring
lifestyle
lifestyles
lifetime
lifetime's
lifetimes
lifeward
lifeway
lifeways
lifework
lifeworks
lifey
liflod
lifo
lift
liftable
liftable
lifboy
lifted
lifter
lifters
lifting
lignifies
ligniform
tlignify
tlignifying
tlignin
tlignins
ligninsulphonate
ligniperdous
lignite
lignites
lignitic
lignitiferous
lignitize
lignivorous
lignocaine
lignocellulose
lignocellulosic
lignoceric
lignography
lignone
lignose
lignosity
lignosulfonate
lignosulphite
lignosulphonate
lignous
lignum
lignums
ligroin
ligroine
ligroines
ligroins
ligula
ligulae
ligular
ligulas
ligulate
ligulated
ligule
ligules
liguliflorous
liguliform
ligulin
liguloid
ligure
ligures
ligurian
ligurite
liminal
liminary
limine
liminess
liminesses
liming
limit
limitability
limitable
limitableness
limitably
limital
limitanean
limitarian
limitaries
limitary
limitate
limitation
limitation's
limitational
limitations
limitative
limitatively
limited
limitedly
limitedness
limiteds
limiter
limiters
limits
limiting
limitive
limitless
limitlessly
limitlessness
limitor
limitrophe
limits
limity
limivorous
limli
limma
limmata
limmer
limmers
limmock
limmu
limn
limnal
limnanth
limnanthaceous
limned
limner
limners
limnery
limnetic
limniad
limnic
limnimeter
limnimetric
limning
limnite
limnobiologic
limnobiological
limnobiologically
limnobiology
limnobios
limnograph
limnologic
limnological
limnologically
limnologist
limnology
limnometer
limnophil
limnophile
limnophilid
limnophilous
limnophobia
limnoplankton
limnoroid
limns
limo
limoid
limoncillo
limoncito
limonene
limonenes
limoniaid
limonin
limonite
limonites
limonitic
limonitization
limonium
limos
lineage
lineaged
lineages
lineal
lineality
lineally
lineament
lineamental
lineamentation
lineaments
lineameter
linear
linearifolius
linearisation
linearise
linearised
linearising
linearities
linearity
linearizable
linearization
linearize
linearized
linearizes
linearizing
linearly
lineary
lines
lineate
lineated
lineation
lineatum
lineature
linebacker
linebackers
linebacking
linebred
linebreed
linebreeding
linecaster
linecasting
linecut
linecuts
lined
linefeed
linefeeds
lineiform
lineless
lipocytes
lipodystrophia
lipodystrophy
lipoferous
lipofibroma
lipogenesis
lipogenetic
lipogenic
lipogenous
lipogram
lipogrammatic
lipogrammatism
lipogrammatist
lipographic
lipography
lipohemia
lipoid
lipoidemia
lipoidal
lipoidemia
lipoidic
lipoids
lipotic
lipolyses
lipolysis
lipolytic
lipoma
lipomas
lipomata
lipomatosis
lipomatous
lipometabolic
lipometabolism
lipomorph
lipomyoma
lipomyxoma
lipoqueptic
lipopexia
lipophagic
lipophilic
lipophore
lipopod
lipopolysaccharide
lipoprotein
liposarcoma
liposis
liposoluble
liposome
liquidization
liquidize
liquidized
liquidizer
liquidizes
liquidizing
liquidless
liquidly
liquidness
liquidogenic
liquidogenous
liquids
liquidus
liquidy
liquified
liquifier
liquifiers
liquifies
liquiform
liquify
liquifying
liquor
liquor's
liquored
liquorer
liquorice
liquoring
liquorish
liquorishly
liquorishness
liquorist
liquorless
liquors
liquory
lir
lira
liras
lirate
liration
lire
lirella
lirellate
lirelliform
lirelline
lirellous
liroiddra
liroidendra
liroidendron
liriodendrons
lirripe
liripipes
liripoop
liroconite
lirot
liroth
lis
lisbon
lisere
lisette
lish
lisiere
lisk
lisle
lisles
lisp
lisp's
lisped
lisper
lispers
lisping
lispingly
lispound
lisp
lispund
liss
lissamphibian
lissencephalic
lissencephalous
lisses
lissoflagellate
liism
liissome
liissomely
liissomeness
liissomly
liissomness
liissetrichan
liissetrichous
liissetrichy
list
listable
listed
listedness
listel
listels
listen
lammable
 listen
 listener
 listeners
 listenership
 listening
 listenings
 listens
 lister
 listerelloses
 listerellosis
 listeria
 listerian
 listeriases
 listeriasis
 listerioses
 listeriosis
 lists
 listful
 listing
 listing's
 listings
 listless
 listlessly
 listlessness
 listred
 lists
 listwork
 listy
 liszt
 lit
 litai
 litaneutical
 litanies
 litany
 litanywise
 litarge
 litas
 litation
 litatu
 litch
 litchi
 litchis
 lite
 liter
 literacies
 literacy
 literaehumaniores
liters
lites
lith
lithaemia
lithaemic
lithagogue
lithangiuria
lithanode
lithanthrax
litharge
litharges
lithate
lithatic
lithe
lithectasy
lithectomy
lithely
lithemia
lithemias
lithemic
litheness
lither
litherly
litherness
lithesome
lithesomeness
lithest
lithi
lithia
lithias
lithiastic
lithiatic
lithiate
lithic
lithically
lithification
lithified
lithify
lithifying
lithiophilite
lithite
lithium
lithiums
lithless
litho
lithobiid
lithobioid
lithocenosis
lithochemistry
lithochromatic
lithochromatics
lithochromatographic
lithochromatography
lithochromatic
lithochromomography
lithochromy
lithoclase
lithoclast
lithoclastic
lithoclasty
lithoculture
lithocyst
lithocystotomy
lithodesma
lithodialysis
lithodid
lithodomous
lithoed
lithofellic
lithofellinic
lithofracteur
lithofractor
lithog
lithogenesis
lithogenesy
lithogenetic
lithogenous
lithogeny
lithoglyph
lithoglypher
lithoglyphic
lithoglyptic
lithoglyptics
lithograph
lithographed
lithographer
lithographers
lithographic
lithographical
lithographically
lithographing
lithographize
lithographs
lithography
lithogravure
lithoid
lithoidal
lithoidite
lithoing
lithol
litholabe
litholapaxy
litholatrous
litholatry
lithologic
lithological
lithologically
lithologist
lithology
litholysis
litholyte
litholytic
lithomancy
lithomarge
lithometeor
lithometer
lithonephria
lithonephritis
lithonephrotomies
lithonephrotomy
lithontriptic
lithontriptist
lithontriptor
lithopaedion
lithopaedium
lithopedion
lithopedium
lithophagous
lithophane
lithophanic
lithophany
lithophile
lithophilous
lithophile
lithophone
lithophotography
lithophotogravure
lithophthisis
lithophyl
lithophyll
lithophyllous
lithophysa
lithophysae
lithophysal
lithophyte
lithophytic
lithophytous
lithopone
lithoprint
lithoprinter
lithos
lithoscope
lithosere
lithosian
lithosiid
lithosis
lithosol
lithosols
lithosperm
lithospermon
lithospermous
lithosphere
lithospheric
lithotint
lithotome
lithotomic
lithotomical
lithotomies
lithotomist
lithotomize
lithotomous
lithotomy
lithotony
lithotresis
lithotripsy
lithotriptor
lithotrite
lithotritic
lithotrities
lithotritist
lithotritor
lithotrity
lithotype
lithotyped
lithotypic
lithotyping
lithotypy
lithous
lithoxyl
lithoxyle
lithoxylite
lithsman
litterers
littering
littermate
littermates
litters
littery
little
littleleaf
littleneck
littlenecks
littleness
litter
littles
littlest
littlest
littlewale
littlin
littling
littlish
littoral
littorals
litrature
littress
litu
lituate
litui
lituiform
lituite
lituitoid
lituoline
lituoloid
liturate
liturgic
liturgical
liturgically
liturgician
liturgics
liturgies
liturgiologics
liturgiology
liturgism
liturgist
liturgistic
liturgistical
liturgists
liturgize
liturgy
litus
lituus
litz
livability
livable
livableness
livably
live
liveability
liveable
liveableness
livebearer
liveborn
lived
livedo
livelier
liveliest
livelhead
livelihood
livelihoods
livelily
liveliness
livelong
lively
liven
livened
livener
liveners
liveness
livenesses
livening
livens
liver
liverance
liverberries
liverberry
livered
liverhearted
liverheartedness
liveried
liveries
livering
liverish
liverishness
liverleaf
liverleaves
liverless
liverpool
liverpudlian
loansharking
loanshift
loanword
loanwords
loasaceous
loath
loathe
loathed
loather
loaters
loathes
loathful
loathfully
loathfulness
loathing
loathingly
loathings
loathliness
loathly
loathness
loathsome
loathsomely
loathsomeness
loathy
loave
loaves
lob
lobal
lobar
lobate
lobated
lobately
lobation
lobations
lobbed
lobber
lobbers
lobbied
lobbies
lobbing
lobbish
lobby
lobbyer
lobbyers
lobbygow
lobbygows
lobbying
lobbyism
localistic
localists
localite
localites
localities
locality
locality's
localizable
localization
localizations
localize
localized
localizer
localizes
localizing
localised
localling
local
localness
locals
locanda
locatable
locate
located
locater
locaters
locates
locating
locatio
location
locational
locationally
locations
locative
locatives
locator
locator's
locators
locatum
locellate
locellus
loch
lochaber
lochage
lochagus
lochan
loche
lochetic
lochi
lochia
lochial
lochiocolpos
lochiocyte
lochiometra
lochiometritis
lochiopyra
lochiorrhagia
lochiorrhea
lochioschesis
lochometritis
lochoperitonitis
lochopyra
lochs
lochus
lochy
loci
lociation
lock
lockable
lockage
lockages
lockbox
lockboxes
locked
locker
lockerman
lockermen
lockers
locket
lockets
lockfast
lockful
lockhole
lockian
locking
lockings
lockjaw
lockjaws
lockless
locklet
lockmaker
lockmaking
lockman
locknut
locknuts
lockout
locomotivity
locomotor
locomotory
locomutation
locos
locoweed
locoweeds
loculament
loculamentose
loculamentous
locular
loculate
loculated
loculation
locule
loculed
locules
loculi
loculicidal
loculicidally
loculose
loculous
loculus
locum
locums
locuple
locupletely
locus
locusca
locust
locust's
locusta
locustae
locustal
locustberry
locustelle
locustid
locusting
locustlike
locusts
locution
locutionary
locutions
locutor
locutoria
locutories
locutorium
locutorship
locutory
locuttoria
lod
lode
lodeman
lodemanage
laden
laden
lodens
lodes
lodesman
lodesmen
lodestar
lodestars
lodestone
lodestuff
lodge
lodgeable
lodged
lodgeful
lodgeman
lodgement
lodgements
lodgepole
lodger
lodgerdom
lodgers
lodes
lodging
lodginghouse
lodgings
lodgment
lodgments
lodicula
lodicule
lodicules
loe
loed
loeil
loeing
loellingite
loess
loessal
loesses
loessial
loessic
loessland
loessoid
lof
logicizing
logicless
logics
logie
logier
logiest
logily
login
loginess
loginesses
logins
logion
logions
logis
logistic
logistical
logistically
logistician
logicians
logistics
logium
logjam
logjams
loglet
loglike
loglog
logman
lognormal
lognormality
lognormally
logo
logocracy
logodaedalus
logodaedaly
logoes
logoff
logogogue
logogram
logogrammatic
logogrammatically
logograms
logograph
logographer
logographic
logographical
logographically
logography
logogriph
logographic
logoi
logolatry
logology
logomach
logomacher
logomachic
logomachical
logomachies
logomachist
logomachize
logomachs
logomachy
logomancy
logomania
logomaniac
logometer
logometric
logometrical
logometrically
logopaedics
logopedia
logopedic
logopedics
logophobia
logorrhea
logorheic
logorrhoea
logos
logothete
logotype
logotypes
logotypies
logotypy
logout
logperch
logperches
logroll
logrolled
logroller
logrolling
logrolls
logs
logship
logway
logways
logwise
logwood
loneliness
lonelinesses
loner
loners
lonesome
lonesomely
lonesomeness
lonesomes
long
longa
longacre
longan
longanamous
longanimities
longanimity
longanimous
longans
longbeak
longbeard
longbill
longboat
longboats
longbow
longbowman
longbows
longcloth
longe
longear
longed
longee
longeing
longer
longeron
longerons
longers
longes
longest
longeval
longeve
longevities
longevity
longeuous
longfelt
longfin
longful
longhair
longhaired
longhairs
longhand
longhands
longhead
longheaded
longheadedly
longheadedness
longheads
longhorn
longhorns
longhouse
longicaudal
longicaudate
longicone
longicorn
longies
longilateral
longilingual
longiloquence
longiloquent
longimanous
longimetric
longimetry
longing
longingly
longingness
longings
longinuity
longipennate
longipennine
longirostral
longirostrate
longirostrine
longissection
longish
longitude
longitude's
longitudes
longitudianl
longitudinal
longitudinally
longjaw
longjaws
longleaf
longleaves
lough
lougeen
loughs
louie
louies
louis
louise
louisiana
louisianan
louisianans
louisianian
louisianians
louisine
louisville
louk
loukoum
loukoumi
loulu
loun
lounder
lounderer
lounge
lounged
lunger
loungers
lounges
lounging
loungingly
loungy
loup
loupcervier
loupcerviers
loupe
louped
loupen
loupes
louping
loups
lour
lourd
lourdish
lourdy
loured
lourie
louring
louringly
louringness
lours
lovesickness
lovesome
lovesomely
lovesomeness
lovevine
lovevines
loveworthy
lovey
lovier
loviers
loving
lovingkindness
lovingly
lovingness
low
iowa
lowable
lowan
lowance
lowball
lowbell
lowborn
lowboy
lowboys
lowbred
lowbrow
lowbrowism
lowbrows
lowdah
lower
lowerable
lowercase
lowerclassman
lowerclassmen
lowered
lowerer
lowering
loweringly
loweringness
lowermost
lowers
lucban
lucet
lucia
lucian
lucible
lucid
lucida
lucidae
lucidities
lucidity
lucidly
lucidness
lucifee
lucifer
luciferase
luciferian
luciferin
luciferoid
luciferous
luciferously
luciferousness
lucifers
lucific
luciform
lucifugal
lucifugous
lucigen
lucille
lucimeter
lucina
lucinoid
lucite
luciveau
luck
lucumia
lucumo
lucumony
lucy
lud
ludden
luddite
luddy
ludefisk
ludibrious
ludibry
ludicrous
ludicrously
ludicrousness
ludification
ludlamite
ludo
ludwig
ludwigite
lue
lues
luetic
luetically
luetics
lufberry
lufbery
luff
luffa
luffas
luffed
luffer
luffing
luffs
lug
luge
luger
luges
luggage
luggageless
luggages
luggar
luggard
lugged
lumbocostal
lumbodorsal
lumbodynia
lumbosacral
lumbovertebral
lumbrical
lumbricales
lumbricalis
lumbricid
lumbriciform
lumbricine
lumbricoid
lumbricosis
lumbricus
lumbrous
lumbus
lumen
lumenal
lumens
lumeter
lumina
luminaire
luminal
luminance
luminant
luminaire
luminaria
luminaries
luminarious
luminarism
luminarist
luminary
luminate
lumination
luminative
luminator
lumine
lumined
luminesce
luminesced
luminescence
luminescent
luminesces
luminescing
luminiferous
luminificent
lumining
luminin
luminism
lunkhead
lunkheaded
lunkheads
lunks
lunn
lunoid
lunt
lunted
lunting
lunts
lunula
lunulae
lunular
lunulate
lunulated
lunule
lunules
lunulet
lunulite
luny
lunyie
lupanar
lupanarian
lupanars
lupanin
lupanine
lupe
lupeol
lupeose
lupercal
lupercalia
lupetidin
lupetidine
lupicide
lupiform
lupin
lupinaster
lupine
lupines
lupinin
lupinine
lupinosis
lupinous
lupins
lupis
lupoid
lupoma
lupous
lupulic
lupulin
lupuline
lupulinic
lupulinous
lupulins
lupulinum
lupulone
lupulus
lupus
lupuserythematous
lupuses
lur
lura
luracan
lural
lurch
lurched
lurcher
lurchers
lurches
lurching
lurchingly
lurching fully
lurchline
lurdan
lurdane
lurdanes
lurdanism
lurdans
lure
lured
lureful
lurement
lurer
lurers
lures
luresome
lurg
lurgworm
lurid
luridity
luridly
luridness
luring
luringly
lurk
lurked
lutecia
lutecium
luteciums
luted
luteic
lutein
luteinization
luteinize
luteinized
luteinizing
luteins
lutelet
lutemaker
lutemaking
lutenist
lutenists
luteo
luteocobaltic
luteofulvous
luteofuscescent
luteofuscous
luteolin
luteolins
luteolous
luteoma
luteorufescent
luteotrophic
luteotrophin
luteotropic
luteotropin
luteous
luteovirescent
luter
lutes
lutescent
lutestring
lutetium
lutetiums
luteum
luteway
lutfisk
luther
lutheran
lutheranism
lutherans
lutherism
luthern
lutherns
lycopene
lycopenes
lycoperdaceous
lycoperdoid
lycoperdon
lycopin
lycopod
lycopode
lycopodiaceous
lycopodium
lycopods
lycorine
lycosid
lyctid
lyddite
lyddites
lydian
lydite
lye
lyencephalous
lyery
lyes
lyfkie
lygaeid
lygus
lying
lyingly
lyings
lyken
lykewake
lym
lymantriid
lympangiophlebitis
lymnaean
lymnaeid
lymph
lymphad
lymphadenectasia
lymphadenectasis
lymphadenia
lymphadenitis
lymphadenoid
lymphadenoma
lymphadenomas
lymphadenomata
lymphadename
lymphadenopathy
lymphadenosis
lymphhaemia
lymphagogue
lymphangeitis
lymphangial
lymphangiectasis
lymphangiectatic
lymphangiectodes
lymphangiitis
lymphangiectatic
lymphangiectodes
lymphangiitis
lymphangioendothelioma
lymphangiofibroma
lymphangiography
lymphangioma
lymphangiomas
lymphangiomata
lymphangiomatous
lymphangioplasty
lymphangiosarcoma
lymphangiotomy
lymphangitic
lymphangitides
lymphangitis
lymphatic
lymphatical
lymphatically
lymphation
lymphatism
lymphatitus
lymphapolysin
lymphapolysis
lymphatolytic
lymphectasia
lymphedema
lymphemia
lymphenteritis
lymphoadenoma
lymphoblast
lymphoblastic
lymphoblastoma
lymphoblastosis
lymphocele
lymphocyst
lymphocystosis
lymphocyte
lymphocytes
lymphocytemia
lymphocytic
lymphocytoma
lymphocytomatosis
lymphocytosis
lymphocytotic
lymphocytotoxin
lymphodermia
lymphoduct
lymphoedema
lymphogenic
lymphogenous
lymphoglandula
lymphogranuloma
lymphogranulomas
lymphogranulomata
lymphogranulomatosis
lymphogranulomatous
lymphographic
lymphography
lymphoid
lymphoidectomy
lymphoidocyte
lymphology
lymphoma
lymphomas
lymphomata
lymphomatoid
lymphomatosis
lymphomatous
lymphomonocyte
lymphomyxoma
lymphopathy
lymphopenia
lymphopenial
lymphopoieses
lymphopoiesis
lymphopoietic
lymphoprotease
lymphorrhage
lymphorrhagia
lymphorrhagic
lymphorrhea
lymphosarcoma
lymphosarcomata
lymphosarcomatosis
lymphosarcomatous
lymphosphoridiosis
lymphostasis
lymphotaxis
lymphotome
lymphotomy
lymphotoxemia
lymphotoxin
lymphotrophic
lymphotrophy
lymphous
lymphs
lymphuria
lymphy
lyn
lycean
lynch
lynchable
lynched
lyncher
lynchers
lynches
lynchet
lynching
lynchings
lycine
lynn
lynnhaven
lynx
lynx's
lynxes
lynxlike
lyocratic
lyolysis
lyolytic
lyomerous
lyon
lyonetiid
lyonnaise
lyonnesse
lyophil
lyophile
lyophilied
lyophilic
lyophilization
lyophilize
lyophilized
lyophilizer
lyophilizing
lyophobe
lyophobic
lyopomatous
lyotrope
lyotropic
macies
macilence
macilency
macilent
macing
macintosh
macintoshes
mack
mackallow
mackaybean
mackenboy
mackerel
mackereler
mackereling
mackerels
mackinaw
mackinawed
mackinaws
mackinboy
mackins
mackintosh
mackintoshed
mackintoshes
mackintoshite
mackle
mackled
mackles
macklike
mackling
macks
macle
macled
macles
maclib
maclurin
maco
macoma
maconite
maconne
macquereau
macracanthrorhynchiasis
macradenous
macram
macrame
macrames
macrandre
macrandrous
macrauchene
macrauchenii
dacraucheniiiform
macraucheniioid
macrencephalic
macrencephalous
macrencephaly
macrli
macro
macro's
macroaggregate
macroaggregated
macroanalysis
macroanalyst
macroanalytical
macrobacterium
macrobian
macrobiosis
macrobiote
macrobiotic
macrobiotically
macrobiotics
macroblast
macrobrachia
macrocarpous
macrocephali
macrocephalia
macrocephalic
macrocephalism
macrocephalous
macrocephalus
macrocephaly
macrochaeta
macrochaetae
macrocheilia
macrochemical
macrochemically
macrochemistry
macrochirian
macrochiria
macrochiropteran
macrocladous
macroclimate
macroclimatic
macroclimatically
macroclimatology
macrococcus
macrocoly
macroconidial
macroconidium
macroconjugant
macrocornea
macrocosm
macrocosmic
macrocosmical
macrocosmically
macrocosmology
macrocosmos
macrocosms
macrocystine
macrocyst
macrocyte
macrocythemia
macrocytic
macrocytosis
macrodactyl
macrodactyla
macrodactylic
macrodactylysm
macrodactylous
macrodactyly
macrodont
macrodontia
macrodontic
macrodontism
macroeconomic
macroeconomics
macroelement
macroergate
macroevolution
macroevolutionary
macrofarad
macrofossil
macrogamete
macrogametocyte
macrogamy
macrogastria
macroglobulin
macroglobulinemia
macroglobulinemic
macroglossate
macroglossia
macroglossic
macrognathism
macrogнатinous
macrogонidium
macrograph
macrogнаphic
macrogнаphry
macroinstruction
macrolecithal
macrolepidoptera
macrolepidopterous
macrolinguistic
macrolinguistical
macrolinguistics
macrolith
macrology
macromandibular
macromania
macromastia
macromazia
macromelia
macromeral
macromere
macromeric
macromerite
macromeric
macromeritic
macromesentery
macrometeorological
macrometeorology
macrometer
macromethod
macromole
macromolecular
macromolecule
macromolecule's
macromolecules
macromyelon
macromyelonal
macron
macrons
macronuclear
macronucleate
macronucleus
macronutrient
macropetalous
macrophage
macrophagic
macrophagocyte
macrophagus
macrophotograph
macrophotography
macrophyllous
macrophysics
macrophyte
macrophytic
macropia
macropinacoid
macropinacoidal
macroplankton
macroplasia
macroplastia
macroleural
macropod
macropodia
macropodian
macropodine
macropodous
macropism
macroprocessor
macroprosopia
macropsia
macropsy
macropteran
macropterous
macroptery
macroptic
macropyramid
macroleaction
macrorhinia
macros
macroscale
macroscelia
macroscian
macroscopic
macroscopical
macroscopically
macrosegment
macroseism
macroseismic
macroseismic
macroseismograph
macrosepalous
macroseptum
macросomatic
macrosomatia
macrosomatous
macrosomia
macrospecies
macrosphere
macrosplanchnic
macrosporange
macrosporangium
macrospore
macrosporic
macrosporophore
macrosporophyl
macrosporophyll
macrostomatous
macrostomia
macrostructural
macrostructure
macrostyle
macrostylospore
macrostylous
macrosymbiont
macrothere
macrotherioid
macrotherm
macrotia
macrotin
macrotome
macrotone
macrotous
macrourid
macrozoogonidium
macrozoospore
macrura
macrural
macruran
macrurans
macruroid
macrurous
macs
mactation
mactroid
macuca
macula
maculacy
maculae
macular
maculas
maculate
maculated
maculates
maculating
maculation
maculations
macule
maculed
macules
maculicole
maculicolous
maculiferous
maculing
maculocerebral
maculopapular
maculose
macumba
macupa
macupi
macushla
macuta
macute
mad
madafu
madagascar
madagass
madam
madame
madames
madams
madapolam
madapolan
madapollam
madarosis
madarotic
madbrain
madbrained
madcap
madcaply
madcaps
madded
madden
maddened
maddening
maddeningly
maddeningness
maddens
madder
madderish
madders
maderwort
maddest
madding
maddingly
maddish
maddle
maddled
maddock
made
madefaction
madefy
madeira
madeiras
madeleine
madeline
mademoiselle
mademoiselles
madescent
madge
madhab
madhouse
madhouses
madhuca
madia
madid
madidans
madison
madisterium
madling
madly
madman
madmen
madnep
madness
madnesses
mado
madonna
madonnas
madoqua
madrique
madras
madrasah
madrasas
madrassah
madrasseh
madre
madreline
madreperl
madreporacean
madreporal
madreporarian
madrepore
madreporian
madreporic
madreporiform
madreporite
madreporitic
madres
madrid
madrier
madrigal
madrigaler
madrigalesque
madrigaletto
madrigalian
madrigalist
madrigals
madrih
madril
madrilene
madroa
madrona
madronas
madrone
madrones
madrono
madronos
mads
madship
madstone
madtom
maduro
maduros
madweed
madwoman
madwomen
madwort
madworts
madzoon
madzoons
mae
maeander
maeandrine
maeandriniform
maeandrinoid
maeandroid
maecenas
maed
maegbot
magnale
magnality
magnalium
magnanerie
magnanime
magnanimities
magnanimity
magnanimous
magnanimously
magnanimousness
magnascope
magnascopic
magnate
magnates
magnateship
magnecrystallic
magnelectric
magneoptic
magnes
magnesia
magnesial
magnesian
magnesias
magnesic
magnesioferrite
magnesite
magnesium
magnet
magneta
magnetic
magnetical
magnetically
magneticalness
magnetician
magnetics
magnetiferous
magnetification
magnetify
magnetimeter
magnetisation
magnetise
magnetised
magnetiser
magnetising
magnetism
magnetism's
magnetisms
magnetist
magnetite
magnetitic
magnetizability
magnetizable
magnetization
magnetize
magnetized
magnetizer
magnetizers
magnetizes
magnetizing
magneto
magnetobell
magnetochemical
magnetochemistry
magnetod
magnetodynamo
magnetoelectric
magnetoelectrical
magnetoelectricity
magnetofluiddynamic
magnetofluiddynamics
magnetofluidmechanic
magnetofluidmechanics
magnetogasdynamic
magnetogasdynamics
magnetogenerator
magnetogram
magnetograph
magnetographic
magnetohydrodynamic
magnetohydrodynamically
magnetohydrodynamics
magnetoid
magnetolysis
magnetomachine
magnetometer
magnetometers
magnetometric
magnetometrical
magnetometrically
magnetometry
magnetomotive
magnetomotivity
magnetomotor
magneton
magnetons
magnetooptic
magneto-optical
magneto-optically
magneto-optics
magnetopause
magnetophone
magnetophonograph
magnetoplasma-dynamic
magnetoplasma-dynamics
magnetoplumbite
magnetoprinter
magnetoresistance
magnetos
magneto-scope
magnetosphere
magnetospheric
magnetostatic
magnetostriiction
magnetostrictive
magnetostricitively
magnetotelegraph
magnetotelephone
magnetotelephonic
magnetotherapie
magnetothermoelectricity
magnetotransmitter
magnetron
magnets
magnicaudate
magnicaudatous
magnifiable
magnific
magnifical
magnifically
magnificat
magnificate
magnification
magnifications
magnificative
magnifice
magnificence
magnificent
magnificently
magnificentness
magnifico
magnifico-es
magnificos
magnified
magnifier
mahaly
mahant
mahar
maharaj
maharaja
maharajah
maharajahs
maharajas
maharajrana
maharana
maharanee
maharanees
maharani
maharanis
maharao
maharawal
maharawat
maharishi
maharishis
maharmah
maharshi
mahat
mahatma
mahatmaism
mahatmas
mahayana
mahayanist
mahbub
mahdi
mahdism
mahewu
mahican
mahimahi
mahjong
mahjongg
mahjonggs
mahjonggs
mahlstick
mahmal
mahmudi
mahoe
mahoes
mahoganies
mahoganize
mahogany
mahogonies
mahogany
mahoitre
maidism
maidkin
maidlike
maidling
maidly
maids
maidservant
maidservants
maidly
maiefic
maieutic
maieutical
maieutics
maigre
maihem
maihems
maiid
mail
mailability
mailable
mailbag
mailbags
mailbox
mailbox's
mailboxes
mailcatcher
mailclad
mailcoach
maile
mailed
mailer
mailers
mailes
mailguard
mailie
mailing
mailings
mail
maill
maille
maillechort
mailless
maillot
maillots
maills
mailman
mailmen
mailplane
mailpouch
mails
mailsack
mailwoman
mailwomen
maim
maimed
maimedly
maimedness
mainer
maimers
maiming
maimon
maims
maimul
main
mainbrace
maine
mainferre
mainframe
mainframe's
mainframes
mainland
mainlander
mainlanders
mainlands
mainline
mainlined
mainliner
mainliners
mainlines
mainlining
mainly
mainmast
mainmasts
mainmortable
mainor
mainour
mainpast
mainpernable
mainpernor
mainpin
mainport
mainpost
mainprise
mainprised
mainrising
mainprisor
mainprize
majorette
majorettes
majoring
majoritarian
majoritarianism
majorities
majority
majority's
majorize
majors
majorship
majors
majusculae
majuscular
majuscule
majuscules
makable
makadoo
makahiki
makale
makar
makara
makars
makatea
make
makeable
makebate
makebates
makedom
makefast
makefasts
makefile
makeless
maker
makeready
makeress
makers
makership
makes
makeshift
makeshiftiness
makeshiftiness
makeshifts
makeshifty
makeup
makeups
makeweight
makework
makhorka
makhzan
makhzen
maki
makimono
makimonos
making
makings
makluk
mako
makomako
makopa
makos
makoua
makran
makroskelic
maksoorah
makuk
makuta
makutas
makutu
mal
mala
malaanonang
malabar
malabathrum
malabsorption
malacanthid
malacanthine
malacaton
malacca
malaccident
malaceous
malachi
malachite
malacia
malacoderm
malacodermatous
malacodermous
malacoid
malacolite
malacologic
malacological
malacologist
malacology
malacon
malacone
malacophilous
malacophonous
malacophyllous
malacopod
malacopodous
malacoptygian
malacoptygious
malacostracan
malacostracology
malacostracous
malacotic
malactic
maladapt
maladaptation
maladapted
maladaptive
maladdress
malade
maladies
maladive
maladjust
maladjusted
maladjustive
maladjustment
maladjustments
maladminister
maladministered
maladministering
maladministrers
maladministration
maladministrative
maladministrator
maladresse
maladroicty
maladroitness
maladventure
malady
malady's
malaga
malagash
malagasy
malagma
malaguea
malaguena
malaguenas
malaguetta
malahack
malaise
malaises
malakin
malakon
malalignment
malam
malambo
malamute
malamutes
malander
malandered
malanders
malandrous
malanga
malapaho
malapert
malapertly
malapertness
malaperts
malapi
malapplication
malappointment
malapportioned
malapportionment
malappropriate
malappropriation
malaprop
malapropian
malapropish
malapropism
malapropisms
malapropoism
malapropos
malaprops
malar
malaria
malarial
malarian
malariaproof
malarias
malarin
malarioid
malariologist
malariology
malariotherapy
malarious
malarkey
malarkeys
malarkies
malarky
malaroma
malaromas
malarrangement
malars
malasapsap
malassimilation
malassociation
malate
malates
malathion
malati
malattress
malawi
malawians
malax
malaxable
malaxage
malaxate
malaxation
malaxator
malaxed
malaxerman
malaxermen
malaxing
malay
malaya
malayalam
malayan
malayans
malays
malaysia
malaysian
malaysians
malbehavior
malbrouck
malchite
malconceived
malconduct
malconformation
malconstruction
malcontent
malcontented
malcontentedly
malcontentedness
malcontentism
malcontently
malcontentment
malcontents
malconvenance
malcreated
malcultivation
maldeveloped
maldevelopment
maldigestion
maldirection
maldistribute
maldistribution
maldocchio
maldonite
malduck
male
male's
maleability
malease
maleate
maleates
maleberry
malevolent
maledict
maledicted
maledicting
malediction
maledictions
maledictive
maledictory
maledicts
maleducation
malee
malefaction
malefactions
malefactor
malefactor's
malefactors
malefactory
malefactress
malefactresses
malefeazance
malefic
malefical
malefically
malefice
maleficence
maleficent
maleficently
maleficia
maleficial
maleficiate
maleficiation
maleficio
maleficium
maleic
maleinoid
maleinoidal
malella
malellae
malemiut
malemuut
malemuuits
malemute
malemates
maleness
malenesses
malengin
malengine
malentendu
maleo
maleos
maleruption
males
malesherbiaceous
maletolt
maletote
malevolence
malevolency
malevolent
malevolently
malevolous
maleexecution
malf easance
malf easant
malf easantly
malf easants
malf easor
malf ed
malformation
malformations
malformed
malfortune
malfunction
malfunctioned
malfunctioning
malfunctions
malgovernment
malgr
malgrace
malgrado
malgre
malguzar
malguzari
malguzari
malheur
malhonest
malhygiene
mali
malic
malice
maliceful
maliceproof
malices
malicho
malicious
maliciously
maliciousness
malicorium
malidentification
malie
maliferous
maliform
malign
malignance
malignancies
malignancy
malignant
malignantly
malignation
maligned
maligner
maligners
malignified
malignify
malignifying
maligning
malignities
malignity
malignly
malignment
maligns
malihini
malihinis
malik
malikadna
malikala
malikana
malikzadi
malimprinted
malinche
maline
malines
malinfluence
malinged
malingered
malingerer
malingers
malingering
malingers
malingery
malinke
malinowskite
malinstitution
malinstruction
malintent
malinvestment
malism
malison
malisons
malist
malistic
malitia
malkin
malkins
mall
malladrite
mallam
mallanders
mallangong
mallard
mallardite
mallards
malleability
malleabilization
malleable
malleableize
malleableized
malleableizing
malleableness
malleablize
malleablized
malleablizing
malleably
malleal
mallear
malleate
malleated
malleating
malleation
mallecho
malled
mallee
mallees
mallei
malleiferous
malleiform
mallein
malleinization
malleinize
malleli
mallemaroking
mallemuck
mallender
mallenders
malleoincudal
malleolable
malleolar
malleoli
malleolus
mallet
mallet's
malleted
malleting
mallets
malleus
malling
mallophagan
mallophagous
malloseismic
mallow
mallows
mallowwort
malls
mallum
mallus
malm
malmag
malmaison
malmarsh
malmed
malmier
malmiest
malmignatte
malming
malmock
malmis
malmsey
malmseyes
malmstone
malm
malnourished
malnourishment
malnutrite
malnutrition
malo
malobservance
malobservation
maloca
malocchio
maloccluded
malocclusion
malocclusions
malodor
malodorant
malodorous
malodorously
malodorousness
malodors
malodour
malojilla
malolactic
malonate
malonic
malonyl
malonylurea
maloperation
malorganization
malorganized
malouah
malpais
malpighiaceous
malpighian
malplaced
malpoise
malposed
malposition
malpractice
malpracticed
malpracticing
malpractioner
malpractitioner
malpraxis
malpresentation
malproportion
malproportioned
malpropriety
malpublication
malreasoning
malrotation
malshapen
malsworn
malt
malta
maltable
maltalent
maltase
maltases
malted
malted
malter
maltese
maltha
malthas
malthene
malthite
malthouse
malthus
malthusian
malthusianism
maltier
maltiest
maltine
maltiness
malting
maltman
maltobiose
maltodextrin
maltodextrine
maltol
maltols
maltolte
maltose
maltoses
maltreat
maltreated
maltreating
maltreatment
maltreatments
maltreator
maltreats
malts
maltster
maltsters
malturn
malturns
malturned
maltworm
malty
malum
malunion
malurine
malvaceous
malval
malvasia
malvian
malvias
malvations
malverse
malvin
malvoisie
malvolition
malwa
mam
mama
mamaguy
mamaloi
mamamouchi
mamamu
mamas
mamba
mambas
mambo
mamboed
mamboes
mamboing
mambos
mambu
mameliere
mamelon
mamelonation
mameluco
mameluke
mamelukes
mamey
mameyes
mameys
mamie
mamies
mamilla
mamillary
mamillate
mamillated
mamillation
mamlatdar
mamluk
mamluks
mamludar
mamma
mamma's
mammae
mammal
mamal's
mammalgia
mammalia
mammalian
mammalians
mammaliferous
mammality
mammalogical
mammalogist
mammalogists
mammalogy
mammals
mammary
mamas
mammate
mammati
mammatocumulus
mammatus
mammectomy
mammee
mammees
mammer
mammered
mammering
mammers
mammet
mammets
mammey
mammeys
mammie
mammies
mammifer
mammifera
mammiferous
mammiform
manaism
manak
manakin
manakins
manal
manana
mananas
manarvel
manas
manasic
manasseh
manatee
manatees
manati
manatine
manation
manatoid
manavel
manavelins
manavilins
manavlins
manba
manbarklak
manbird
manbot
manbote
manbria
mancala
mancando
manche
manches
manchester
manchet
manchets
manchette
manchild
manchineel
manchu
manchuria
manchurian
manchurians
manchus
mancinism
mancipable
mancipant
mancipare
mancipate
mancipation
<table>
<thead>
<tr>
<th>Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>mandative</td>
</tr>
<tr>
<td>mandator</td>
</tr>
<tr>
<td>mandatories</td>
</tr>
<tr>
<td>mandatorily</td>
</tr>
<tr>
<td>mandatoriness</td>
</tr>
<tr>
<td>mandators</td>
</tr>
<tr>
<td>mandatory</td>
</tr>
<tr>
<td>mandats</td>
</tr>
<tr>
<td>mandatum</td>
</tr>
<tr>
<td>mandelate</td>
</tr>
<tr>
<td>mandelic</td>
</tr>
<tr>
<td>manderelle</td>
</tr>
<tr>
<td>mandi</td>
</tr>
<tr>
<td>mandible</td>
</tr>
<tr>
<td>mandibles</td>
</tr>
<tr>
<td>mandibula</td>
</tr>
<tr>
<td>mandibular</td>
</tr>
<tr>
<td>mandibulary</td>
</tr>
<tr>
<td>mandibulate</td>
</tr>
<tr>
<td>mandibulated</td>
</tr>
<tr>
<td>mandibulatedform</td>
</tr>
<tr>
<td>mandibulohyoid</td>
</tr>
<tr>
<td>mandibulomaxillary</td>
</tr>
<tr>
<td>mandibulopharyngeal</td>
</tr>
<tr>
<td>mandibulosuspensorial</td>
</tr>
<tr>
<td>mandil</td>
</tr>
<tr>
<td>mandilion</td>
</tr>
<tr>
<td>mandingo</td>
</tr>
<tr>
<td>mandioca</td>
</tr>
<tr>
<td>mandiolas</td>
</tr>
<tr>
<td>mandir</td>
</tr>
<tr>
<td>mandlen</td>
</tr>
<tr>
<td>mandment</td>
</tr>
<tr>
<td>mandoer</td>
</tr>
<tr>
<td>mandola</td>
</tr>
<tr>
<td>mandolas</td>
</tr>
<tr>
<td>mandolin</td>
</tr>
<tr>
<td>mandoline</td>
</tr>
<tr>
<td>mandolinist</td>
</tr>
<tr>
<td>mandolinists</td>
</tr>
<tr>
<td>mandolins</td>
</tr>
<tr>
<td>mandolute</td>
</tr>
<tr>
<td>mandom</td>
</tr>
<tr>
<td>mandora</td>
</tr>
<tr>
<td>mandore</td>
</tr>
<tr>
<td>mandorla</td>
</tr>
<tr>
<td>mandorlas</td>
</tr>
<tr>
<td>mandorle</td>
</tr>
</tbody>
</table>
manilles
manini
manioc
manioca
maniocas
maniocs
maniple
maniples
manipulability
manipulable
manipular
manipulary
manipulatability
manipulatable
manipulate
manipulated
manipulates
manipulating
manipulation
manipulational
manipulations
manipulative
manipulatively
manipulator
manipulator's
manipulators
manipulatory
manis
manism
manist
manistic
manit
manito
manitoba
manitos
manitou
manitous
manitrunk
manitu
manitus
maniu
manjacks
manjak
manjeet
manjel
mank
mankeeper
mankie
mankiller
mankilling
mankin
mankind
mankind's
mankindly
manks
manky
manless
manlessly
manlessness
manlet
manlier
manliest
manlihood
manlike
manlikely
manlikeness
manlily
manliness
manling
manly
manmade
manna
mannaia
mannan
mannans
mannas
manned
mannequin
mannequins
manner
mannerable
mannered
manneredness
mannerhood
mannering
mannerism
mannerisms
mannerist
manneristic
manneristical
manneristically
mannerize
mannerless
mannerlessness
mannerliness
mannerly
manners
mannersome
manness
mannet
mannide
mannie
manniferous
mannified
mannify
mannikin
mannikinism
mannikins
manning
mannire
mannish
mannishly
mannishness
mannitan
mannite
mannites
mannitic
mannitol
mannitols
mannitose
mannoheptite
mannoheptitol
mannoheptose
mannoketoheptose
mannonic
mannopus
mannosan
mannose
mannoses
manny
 mano
manoc
manoeuver
manoeuvered
manoeuvering
manoeuvre
manoeuvred
manoeuvreing
manoeuvrer
manoeuvring
manograph
manoir
manometer
manometer's
manometers
manometric
manometrical
manometricaly
manometries
manometry
manomin
manor
manor's
manorial
manorialism
manorialize
manors
manorship
manos
manoscope
manostat
manostatic
manpack
manpower
manpowers
manqu
manque
manquee
manqueller
manred
manrent
manroot
manrope
manropes
mans
mansard
mansarded
mansards
manscape
manse
manser
manservant
manses
manship
mansip
mansion
mansion's
mansional
mansionary
mansioned
mansioneer
mansionry
mansions
maquahuítl
maquereau
maquette
maquettes
maqui
maquillage
maquis
maquisard
mar
mara
marabotin
marabou
marabous
marabout
maraboutism
marabouts
marabunta
marabuto
maraca
maracan
maracas
maracock
marae
marage
maraged
maraging
marah
marais
marajuana
marakapas
maral
maranao
maranatha
marang
maranon
maranta
marantaceous
marantas
marantic
marara
mararie
maras
marasca
marascas
maraschino
maraschinos
marasmic
marasmoid
marasmous
marasmus
marasmuses
maratha
marathi
marathon
marathoner
marathons
marattiaceous
maraud
marauded
marauder
marauders
marauding
marauds
maravedi
maravedis
maray
marbelization
marbelize
marbelized
marbelizing
marble
marbled
marblehead
marbleheader
marblehearted
marbleization
marbleize
marbleized
marbleizer
marbleizes
marbleizing
marblelike
marbleness
marbler
marblers
marbles
marblewood
marbler
marbliest
marbling
marblings
marblish
marbly
marbrinus
marc
marcando
marica
maricolous
mariculture
marid
marie
mariengroschen
maries
mariet
marigenous
marigold
marigolds
marigram
marigraph
marigraphic
marihuana
marijuana
mariquina
marilyn
marimba
marimbaist
marimbas
marimonda
marina
marinade
marinaded
marinades
marinading
marinal
marinara
marinaras
marinas
marinate
marinated
marinates
marinating
marination
marine
marined
mariner
mariners
marinership
marines
marinha
marinheiros
marinist
marinorama
mariola
mariolatry
mariology
marrowy
marrube
marry
marryer
marrying
marrymuffe
marrys
mars
marsala
marse
marseillais
marseillaise
marseille
marseilles
marses
marsh
marsh's
marshal
marsholate
marshalcies
marshalcy
marshaled
marshaler
marshaless
marshaling
marshall
marshalled
marshaller
marshalling
marshalls
marshalman
marshalment
marshals
marshalsea
marshalship
marshbanker
marshberries
marshberry
marshbuck
marshes
marshfire
marshflower
marshier
marshiest
marshiness
marshite
marshland
marshlander
marshlands
marshlike
marshlocks
marshmallow
marshmallows
marshmallowy
marshman
marshmen
marshs
marshwort
marshy
marsileaceous
marsipobranch
marsipobranchiate
marsoon
marsupia
marsupial
marsupialian
marsupialise
marsupialised
marsupialising
marsupialization
marsupialize
marsupialized
marsupializing
marsupials
marsupian
marsupiate
marsupium
mart
martaban
martagon
martagons
marted
martel
martele
marteline
martellate
martellato
martellement
martello
martellos
martemper
marten
marteniko
martenot
martens
martensite
marvels
marver
marvy
marwer
marx
marxian
marxism
marxist
marxists
mary
marybud
maryknoll
maryland
marylander
marylanders
marys
marysole
marzipan
marzipans
mas
masa
masai
masais
masarid
masaridid
masc
mascagnine
mascagnite
mascally
mascara
mascaras
mascaron
maschera
mascle
mascled
mascleless
mascon
mascons
mascot
mascotism
mascotry
mascots
mascotte
mascularity
masculate
masculation
masculine
masculinely
masseteric
masseterine
masseters
masseur
masseurs
masseuse
masseuses
massicot
massicotite
massicots
massier
massiest
massif
massifs
massig
massily
massiness
massing
massive
massively
massiveness
massivity
masskanne
massless
masslessness
masslike
massoola
massotherapist
massotherapy
massoy
massula
massy
massymore
mast
mastaba
mastabah
mastabahs
mastabas
mastabas
mastadenitis
mastadenoma
mastage
mastalgia
mastatrophia
mastatrophy
mastoaxe
mastax
mastectomies
mastectomy
mastoacarinomata
mastocipital
mastochondroma
mastochondrosis
mastodon
mastodonc
mastodons
mastodonsaurian
mastodont
mastodontic
mastodontine
mastodontoid
mastodynia
mastoid
mastoidal
mastoidale
mastoideal
mastoidean
mastoidectomies
mastoidectomy
mastoideocentesis
mastoideosquamous
mastoideitis
mastoiodohumeral
mastoiodohumeralis
mastoiodotomy
mastooids
mastoological
mastoologist
mastoology
mastomenia
mastoncus
mastooccipital
mastoparietal
mastopathies
mastopathy
mastopexy
mastoplastia
mastorrhagia
mastoscirrhus
mastosquamous
mastotomy
mastotympanic
mastras
masts
masturbate
masturbated
masturbates
masturbatic
masturbating
masturbation
masturbational
masturbator
masturbators
masturbatory
mastwood
masty
masu
masurium
masuriums
mat
mat's
matachin
matachina
matachinas
mataco
matadero
matador
matadors
mataeological
mataeologue
mataeology
mataeotechny
matagasse
matagory
matagouri
matai
matajuelo
matalan
matamata
matambala
matamoro
matanza
matapan
matapi
matara
matasano
matax
matboard
match
matchable
matchableness
matchably
matchboard
matchboarding
matchbook
maternology
maters
mates
mateship
mateships
matey
mateyness
mateys
matezite
matfellon
matfelon
matgrass
math
matha
mathe
mathematic
mathematical
mathematically
mathematicals
mathematician
mathematician's
mathematicians
mathemeticize
mathematics
mathematization
mathematize
mathemeg
mather
mathes
mathesis
mathetic
maths
mathurin
matico
matie
maties
matilda
matildas
matildite
matin
matina
matinal
matindol
matinee
matinees
matiness
matinesses
mating
matings
matins
matipo
matka
matkah
matless
matlo
matlockite
matlow
matmaker
matmaking
matman
matoke
matra
matrace
matrah
matral
matranee
matrass
matrasses
matreed
matres
matriarch
matriarchal
matriarchalism
matriarchate
matriarchic
matriarchical
matriarchies
matriarchist
matriarchs
matriarchy
matric
matrical
matrice
matrices
matricidal
matricide
matricides
matriclan
matriclinous
matricula
matriculable
matriculae
matriculant
matriculants
matricular
matriculate
matronizing
matronlike
matronliness
matronly
matrons
matronship
matronymic
matross
mats
matster
matsu
matsue
matsuri
matt
matta
mattamore
mattaro
mattboard
matte
matted
mattedly
mattedness
matter
matterate
matterative
mattered
matterful
matterfulness
mattering
matterless
matters
mattery
mattes
matthean
matthew
matti
mattin
matting
mattings
mattins
mattock
mattocks
mattoid
mattooids
mattoir
mattoir
mattrass
mattrasses
mattress
maungy
maunna
maupassant
mauquahog
mauresque
mauricio
maurist
mauritania
mauritanian
mauritanians
mauser
mausole
mausolea
mausoleal
mausolean
mausoleum
mausoleums
maut
mauther
mauts
mauve
mauvein
mauveine
mauves
mauvette
mauvine
maux
maven
mavens
maverick
mavericks
mavie
mavies
mavin
mavins
mavis
mavises
mavourneen
mavournin
mavrodaphne
maw
mawali
mawbound
mawed
mawger
mawing
mawk
mawkin
mawkingly
mawkish
mawkishly
mawkishness
mawks
mawky
mawmish
mawn
mawp
maws
mawseed
mawsie
mawworm
max
maxi
maxicoat
maxicoats
maxilla
maxillae
maxillar
maxillaries
maxillary
maxillas
maxilliferous
maxilliform
maxilliped
maxillipedary
maxillipede
maxillobial
maxillomandibular
maxillobial
maxillopalatal
maxillarypalatine
maxillopharyngeal
maxillopremaxillary
maxilloturbinal
maxillozygomatic
maxim
maxim's
maxima
maximal
maximalist
maximally
maximals
maximate
maximation
maximed
maximin
maximin
maximin
maximise
maximised
maximises
maximising
maximist
maximistic
maximite
maximites
maximization
maximize
maximized
maximizer
maximizers
maximizes
maximizing
maxims
maximum
maximumly
maximums
maximums
maximus
maxis
maxisingle
maxiskirt
maxixe
maxixes
maxwell
maxwells
may
maya
mayacaceous
mayan
mayans
mayapis
mayapple
mayapples
mayas
maybe
mayberry
maybush
maybushes
maycock
mayday
maydays
mayduke
mayed
mazaedia
mazaedidia
mazaedium
mazagran
mazalgia
mazama
mazame
mazapilite
mazard
mazards
mazarine
mazdaism
mazdoor
mazdur
maze
maze's
mazed
mazedly
mazedness
mazeful
mazel
mazelike
mazement
mazer
mazers
mazes
mazic
mazier
maziest
mazily
maziness
mazinesses
mazing
mazocacothesis
mazodynia
mazolysis
mazolytic
mazopathia
mazopathic
mazopathy
mazopexy
mazourka
mazourkas
mazuca
mazuma
mazumas
mazurka
mazurkas
meconic
meconidium
meconin
meconoiid
meconium
meconiums
meconology
meconophagism
meconophagist
mecopteran
mecopteron
mecopterous
mecrobeproof
mecum
mecums
mecurial
mecurialism
med
medaillon
medaka
medakas
medal
medal's
medaled
medalet
medaling
medalist
medalists
medalize
medallary
medalled
medallic
medallically
medallings
medallion
medallion's
medallioned
medallioning
medallionist
medallions
medallist
medals
meddle
meddlecome
meddled
meddlement
meddler
meddlers
medicaments
medicant
medicare
medicares
medicaster
medicate
medicated
medicates
medicating
medication
medications
medicative
medicator
medicatory
medicean
medicinable
medicinableness
medicinal
medicinally
medicinalness
medicinary
medicine
medicine's
medicined
medicinelike
medicinemonger
mediciner
medicines
medicining
medick
medicks
medico
medicobotanical
medicochirurgic
medicochirurgical
medicodental
medicolegal
medicolegally
medicomania
medicomechanic
medicomechanical
medicommissure
medicomoral
medicophysical
medicophysics
medicopsychological
medicopsychology
medicos
medicostatistic
medicosurgical
medicotopographic
medicozoologic
medics
medidia
mediety
medieval
medievalism
medievalist
medievalistic
medievalists
medievalize
medievally
medievals
medixed
mediglacial
medii
medille
medimm
medimno
medimnos
medimnus
medina
medine
medino
medio
medioanterior
mediocarpal
mediocipital
mediocracy
mediocral
mediocre
mediocrely
mediocreness
mediocris
mediocrist
mediocrities
mediocrity
mediocubital
mediodepressed
mediodigital
mediodorsal
mediodorsally
mediofrontal
mediolateral
mediopalatal
mediopalatine
mediopassive
mediopectoral
medioperforate
mediopontine
medioposterior
mediosilicic
mediostapedial
mediotarsal
medioventral
medisance
medisect
medisectomy
medisected
medic
medicament
medication
medicationist
medications
medicinal
medicinalist
medicinalism
medical
medicalist
medicalism
medicalize
medically
medium
medium's
mediumism
mediumistic
mediumization
mediumize
mediumly
mediums
mediumship
medius
medize
medjidie
medjidieh
medlar
medlars
medle
medley
medleyed
medleying
medleys
medlied
medoc
medregal
medrick
medrinacks
medrinacles
medrinaque
medscheat
medula
medulla
medullae
medullar
medullary
medullas
medullate
medullated
medullation
medullispinal
medullitis
medullization
medulloose
medullous
medusa
medusae
medusal
medusalike
medusan
medusans
medusas
medusiferous
medusiform
medusoid
medusoids
mee
meebos
meece
meeech
meecher
megabytes
megacephalia
megacephalic
megacephalous
megacephaly
megacerine
megacerotine
megachilid
megachiropertan
megachiroperteous
megacity
megacolon
megacosm
megacoulomb
megacurie
megacyle
megacycles
megadeath
megadeaths
megadont
megadontia
megadontic
megadontism
megadonty
megadynamics
megadyne
megadynes
megaerg
megafarad
megafog
megagamete
megagametophyte
megahertz
megahertzes
megajoule
megakaryoblast
megakaryocyte
megakaryocytic
megalecithal
megaleme
megalergerg
megalesthete
megalethscope
megalith
megalithic
megaliths
megaloblax
megaloblastic
megalocardia
megalocarpous
megaloecephalia
megaloecephalic
megaloecephalous
megaloecephaly
megalochirious
megalocornea
megalocyte
megalocytoisis
megalodactyla
megalodactylism
megalodactylous
megalodont
megalodontia
megalenteron
megalogastria
megaloglossia
megalograph
megalography
megalhepatia
megalokaryocyte
megalomania
megalomaniac
megalomaniacal
megalomaniacally
gigantism
megalohepatia
megalonemia
megalopa
megalopenis
megalophonic
megalophonous
megalophthalmus
megalopia
megalopic
megalopine
megaloplastocyte
megalopolis
megalopolises
megalopolistic
megalopolitan
megalopolitanism
megalopore
megalops
megalopsia
megalopsychy
megalopteran
megalopterous
megalosaur
megalosaurian
megalosauroid
megalosaurus
megaloscope
megaloscopy
megalosphere
megalospheric
megalosplenia
megalosyndactyly
megaloureter
megamasticotoral
megamere
megameter
megametre
megampere
meganucleus
megaparsec
megaphone
megaphoned
megaphones
megaphonic
megaphonically
megaphoning
megaphotographic
megaphotography
megaphyllous
megapod
megapode
megapodes
megapolis
megapolitan
megaprosopous
megapterine
megara
megas
megaran
megarons
megasclere
megascleric
megasclerous
megasclerum
megascope
megascopic
megascopically
melancholist
melancholize
melancholomaniac
melancholy
melancholyish
melanchthonian
melanconiaceous
melanemia
melanemic
melanesia
melanesian
melanesians
melange
melanger
melanges
melangeur
melanian
melanic
melanics
melaniferous
melanilin
melaniline
melanin
melanins
melanism
melanisms
melanist
melanistic
melanists
melanite
melanites
melanitic
melanization
melanize
melanized
melanizes
melanizing
melano
melanoblast
melanoblastic
melanoblastoma
melanocarcinoma
melanocerite
melanochoroi
melanochoric
melanochorite
melanochorous
melanocomous
melanocrate
melanocratic
melanocyte
melanoderma
melanodermia
melanodermic
melanogen
melanogenesis
melanoi
melanoid
melanoidin
melanoids
melanoma
melanomas
melanomata
melanopathia
melanopathy
melanophore
melanoplakia
melanorrhagia
melanorrhea
melanosarcoma
melanosarcomatosis
melanoscope
melanose
melanosed
melanosis
melanosity
melanosome
melanospermous
melanotekite
melanotic
melanotrichious
melanotype
melanous
melanterite
melanthaceous
melanthy
melanure
melanurenic
melanuresis
melanuria
melanuric
melaphyre
melasma
melasmic
melasses
melassigenic
melastomaceous
melastomad
melastome
melatonin
melatope
melaxuma
melba
melbourne
melch
melchite
melchizedek
meld
melded
melder
melders
melding
meldometer
meldrop
melds
mele
meleager
meleagrine
melebiose
melee
melees
melena
melene
melenic
meletin
melezitase
melezitose
meliaceous
melianthaceous
meliatin
melibiose
melic
melicera
meliceric
meliceris
melicerous
melichrous
melicitose
melicoton
melicrate
melicraton
melicratory
melicratum
melittology
melituria
melituric
melkhout
mell
mellaginous
mellah
mellate
mellay
melled
melleous
meller
mellic
melliferous
mellific
mellificate
mellification
mellifluate
mellifluence
mellifluent
mellifluently
mellifluous
mellifuously
mellifluousness
mellilita
mellilot
mellimide
melling
mellisonant
mellisugent
mellit
mellita
mellitate
mellite
mellitic
mellitum
mellitus
mellivorous
mellon
mellone
mellonides
mellophone
mellow
mellowed
mellower
mellowest
mellowing
mellowly
melodramaticism
melodramatics
melodramatise
melodramatised
melodramatising
melodramatist
melodramatists
melodramatization
melodramatize
melodrame
melody
melody's
melodying
melodyless
meloe
melogram
melograph
melographic
meloid
meloids
melologue
melolonthid
melolonthidan
melolonthine
melomame
melomane
melomania
melomaniac
melomanic
melon
melon's
meloncus
melongena
melongrower
melonist
melonite
melonlike
melonmonger
melonry
melons
melophone
melophonic
melophonist
melopiano
melopianos
meloplast
meloplastic
meloplasties
meloplasty
melopoeia
melopoeic
melos
melosa
melote
melotragedy
melotragic
melotrope
melpell
melpomene
mels
melt
meltability
meltable
meltage
meltages
meltdown
meltdowns
melted
meltedness
melteigite
melter
melters
melteth
melting
meltingly
meltingness
meltith
melton
meltons
melts
meltwater
melungeon
melvie
mem
member
member's
membered
memberless
members
membership
membership's
memberships
membracid
membracine
membral
membrally
membrana
membranaceous
membranaceous
membranal
membranate
membrane
membranated
membraneless
membranelike
membranella
membranelle
membraneous
membranes
membraniferous
membraniform
membranin
membranocalcareous
membranocartilaginous
membranocoriaceous
membranocoraceous
membranogenic
membranoid
membranology
membranonervous
membranophone
membranophonic
membranosis
membranous
membranously
membranula
membranule
membrette
membretto
memento
mementoes
mementos
meminna
memnon
memnonian
memo
memo's
memoir
memoire
memoirism
memoirist
memoirs
memorabile
memorabilia
memorability
memorable
memorableness
memorably
memoranda
memorandist
memorandize
memorandum
memorandums
memorate
memoration
memorative
memorda
memoria
memorial
memorialisation
memorialise
memorialised
memorialiser
memorialising
memorialist
memorialization
memorializations
memorialize
memorialized
memoralizer
memorizes
memorializing
memorially
memorials
memoried
memories
memorious
memorise
memorist
memoriter
memorizable
memorization
memorize
memorized
memorizer
memorizers
memorizes
memorizing
memory
memory's
memoryless
memorylessness
mendelian
mendelianism
mendelianist
mendelism
mendelist
mendelize
mendelsohn
mendelyeevite
mender
menders
mendiant
mendicancies
mendicancy
mendicant
mendicantism
mendicants
mendicate
mendicated
mendicating
mendication
mendicity
mendigo
mendigos
mending
mendings
mendipite
mendment
mendole
mendozite
mends
mendy
mene
meneghinite
menehune
menelaus
menelau
menelau
menelau
menevian
menfolk
menfolks
meng
menhaden
menhadens
menhir
menhirs
menial
menialism
meniality
menially
menialness
menials
menialty
menilite
meningeal
meninges
meningic
meningina
menigioma
meningism
meningisnus
meningitic
meningitides
meningitis
meningitophobia
meningoccele
meningocephalitis
meningocerebritis
meningococcal
meningococcemia
meningococci
meningococcic
meningococcosi
meningococcus
meningocortical
meningoencephalitic
meningoencephalitis
meningoencephalocele
meningomalacia
meningomyclitic
meningomyelitis
meningomyelocele
meningomyelorrhaphy
meningorachidian
meningoradicular
meningorachidian
meningorrhagia
meningorrhea
meningorrhoea
meningosis
meningospinal
meningotyphoid
meninting
meninx
meniscal
meniscate
meniscectomy
menisci
menisciform
meniscitis
meniscocytosis
meniscoid
meniscoidal
meniscus
meniscuses
menise
menison
menisperm
menispermaceous
menispermin
menispermine
meniver
menkind
mennom
mennon
mennonist
mennonite
mennonites
mennuet
meno
menognath
menognathous
menologies
menologium
menology
menologyes
menometastasis
menominee
menopausal
menopause
menopausal
menophania
menoplania
menorah
menorahs
menorrhynchos
menorrhagia
menorrhagic
menorrhagy
menorrhea
menorrhheic
menorrhoea
menorrhoeic
menoschesis
menoschetic
menosepsis
menostasia
menostasis
menostatic
menostaxis
menotyphlic
menow
menoxenia
mens
mensa
mensae
mensal
mensalize
mensas
mensch
menschen
mensches
mense
mensed
menseful
menseless
menservants
menses
menshevik
menshevism
menshevist
mensing
mensis
mensk
menstrua
menstrual
menstruant
menstruate
menstruated
menstruates
menstruating
menstruation
menstruations
menstrue
menstruoos
menstruosity
menstruous
menstruousness
menstruum
menstruums
mensual
mensurability
mensurable
mensurableness
mensurably
mensural
mensuralist
mensurate
mensuration
mensurational
mensurative
menswear
menswears
ment
menta
mentagra
mental
mentalis
mentalism
mentalist
mentalistic
mentalistically
mentalists
mentalities
mentality
mentalization
mentalize
mentally
mentary
mentation
mentery
menthaceous
menthadiene
menthan
menthane
menthe
menthene
menthenes
menthenol
menthenone
menthol
mentholated
menthols
menthone
menthyl
menticide
menticultural
menticulture
mentiferous
mentiform
mentigerous
mentimeter
mentimutation
mercify
merciless
mercilessly
mercilessness
merciment
mercurate
mercuration
mercurial
mercurialisation
mercurialise
mercurialised
mercurialising
mercurialism
mercurialist
mercuriality
mercurialization
mercurialize
mercurialized
mercurializing
mercurially
mercurialness
mercuriamines
mercuriammonium
mercuriate
mercuric
mercurid
mercuride
mercuries
mercurification
mercurified
mercurify
mercurifying
mercurization
mercurize
mercurized
mercurizing
mercurochrome
mercurophe
mercurous
mercury
mercy
mercyproof
merd
merdivorous
merdurinous
mere
mered
merel
meringues
meringuing
merino
merinos
meriquinoid
meriquinoidal
meriquinone
meriquinonic
meriquinonoid
merises
merisis
merism
merismatic
merismoid
merist
meristele
meristelic
meristem
meristematic
meristematically
meristems
meristic
meristically
meristogenous
merit
meritable
merited
meredly
meritedness
meriter
meritful
meriting
meritless
meritlessness
meritmonger
meritmongering
meritmongery
meritocracies
meritocracy
meritocrat
meritocratic
meritorious
meritoriously
meritoriousness
meritory
merits
merk
merkhet
merkin
merks
merl
merle
merles
merlette
merligo
merlin
merling
merlins
merlion
merlon
merlons
merls
mermaid
mermaiden
mermaids
merman
mermen
mermithaner
mermithergate
mermithization
mermithized
mermithogyne
mermother
mero
meroblastic
meroblastically
merocele
merocelic
merocerite
meroceritic
merocrine
merocrystalline
merocyte
merodus
merogamy
merogastrula
merogenesis
merogenetic
merogenic
merognathite
merogonic
merogony
merohedral
merohedric
merohedrism
meroistic
meromorphic
meromyarian
meromyosin
merop
meropia
meropias
meropic
meropidan
meroplankton
meroplanktonic
meropodite
meropoditic
merorganization
merorganize
meros
merosomal
merosomatous
merosome
merosthenic
merostomatous
merostome
merostomous
merosymmetrical
merosymmetry
merosystematic
merotentize
merotomy
merotropism
merotropy
merovingian
meroxene
merozoite
merpeople
merribauks
merribush
merrier
merriest
merrilless
merrily
merrimack
merriment
merriness
merrow
merrowes
merry
merrymake
merrymaker
merrymakers
mesenteriform
mesenteriolium
mesenteritic
tesenteritis
mesenterium
mesenteron
mesenteronic
mesentery
mesentoderm
mesepimeral
mesepimeron
mesepisternal
mesepisternum
mesepithelial
mesepithelium
meseraic
mesethmoid
mesethmoidal
mesh
meshed
meshes
meshier
meshiest
meshing
meshrabiye
meshrebee\ye
meshuga
meshugaas
meshugana
meshugga
meshuggas
meshuggah
meshuggana
meshuggenah
meshummad
meshwork
meshworks
meshy
mesiad
mesial
mesially
mesian
mesic
mesically
mesilla
mesiobuccal
mesiocervical
mesioclusion
mesiodistal
mesiodistally
mesiogingival
mesioincisal
mesiolabial
mesiolingual
mesion
mesioocclusal
mesiopulpal
mesioversion
mesitine
mesitite
mesityl
mesitylene
mesitylenic
mesivta
mesked
meslen
mesmerian
mesmeric
mesmerical
mesmerically
mesmerisation
mesmerise
mesmeriser
mesmerism
mesmerist
mesmerists
mesmerite
mesmerizability
mesmerizable
mesmerization
mesmerize
mesmerized
mesmerizee
mesmerizer
mesmerizers
mesmerizes
mesmerizing
mesmeromania
mesmeromaniac
mesnage
mesnality
mesnalties
mesnyalty
mesne
meso
mesoappendiceal
mesoappendicitis
mesoappendix
mesoarial
mesoarium
mesobar
mesobenthos
mesoblast
mesoblastem
mesoblastema
mesoblastemic
mesoblastic
mesobranchial
mesobregmate
mesocadia
mesocaecal
mesocaecum
mesocardia
mesocardium
mesocarp
mesocarpic
mesocarps
mesocentrous
mesocephal
mesocephalic
mesocephalism
mesocephalan
mesocephalous
mesocephaly
mesochilium
mesochondrium
mesochroic
mesocele
mesocoelia
mesocoelian
mesocoelic
mesocola
mesocolic
mesocolon
mesocolons
mesocoracoid
mesocranial
mesocranic
mesocratic
mesocuneiform
mesode
mesoderm
mesodermal
mesodermic
mesoderms
mesodic
mesodisilicic
mesodont
mesodontic
mesodontism
mesofurca
mesofurcal
mesogaster
mesogastral
mesogastric
mesogastrium
mesoglea
mesogleal
mesogleas
mesogloea
mesogloeaal
mesognathic
mesognathion
mesognathism
mesognathous
mesognathy
mesogyrate
mesohepar
mesohippus
mesokurtic
mesolabe
mesole
mesolecithal
mesolimnion
mesolite
mesolithic
mesologic
mesological
mesology
mesomere
mesomer
mesomerer
mesomeric
mesomerism
mesometeorological
mesometeorology
mesometrical
mesometric
mesometrium
mesomitosis
mesomorph
mesomorphic
mesomorphism
mesomorphous
mesomorphy
mesomyodian
mesomyodous
meson
mesonasal
mesonephric
mesonephridium
mesonephritic
mesonephroi
mesonephros
mesonic
mesonotal
mesonotum
mesons
mesoparapteral
mesoparapteron
mesopause
mesopeak
mesopectus
mesopelagic
mesoperiodic
mesopetalum
mesophil
mesophile
mesophilic
mesophilous
mesophragm
mesophragma
mesophragmal
mesophyron
mesophyl
mesophyll
mesophyllic
mesophyllous
mesophyllum
mesophylys
mesophyte
mesophytic
mesophytism
mesopic
mesoplankton
mesoplanktonic
mesoplast
mesoplastic
mesoplastra
mesoplastral
mesoplastron
mesopleura
mesopleural
mesopleuron
mesoplodont
mesopodia
mesopodial
mesopodial
mesopodial
mesopodium
mesopotamia
mesopotamian
mesopotamic
mesoprescutal
mesoprescutum
mesoproscopic
mesopterygial
mesopterygium
mesopterygoid
mesorchial
mesorchium
mesorecta
mesorectal
mesorectta
mesorectum
mesorectums
mesorhin
mesorhinal
mesorhine
mesorhinian
mesorhinism
mesorhinium
mesorhiny
mesorrhin
mesorrhinal
mesorrhine
mesorrhinan
mesorrhinian
mesorrhinism
mesorrhinium
mesorrhiny
mesosalpinx
mesosaur
mesoscale
mesoscapula
mesoscapular
mesoscutal
mesoscutellar
mesoscutellum
mesoscutum
mesoseismal
mesoseme
mesosiderite
mesosigmoid
mesoskelic
mesosoma
mesosomatata
mesosomatic
mesosome
mesosomes
mesosperm
mesosphere
mesospheric
mesospore
mesosporic
mesosporium
mesost
mesostasis
mesosterna
mesosternal
mesosternbra
mesosternebral
mesosternum
mesostetium
mesostomid
mesostyle
mesostylous
mesosuchian
mesotarsal
mesotartaric
mesothelia
mesothelial
mesothelioma
mesothelium
mesotherm
mesothermal
mesothesis
mesothet
mesothetic
mesothetical
mesothoraces
mesothoracic
mesothoracotheca
mesothorax
mesothoraxes
mesothorium
mesotonic
mesotroch
mesotrocha
mesotrochal
mesotrochous
mesotron
mesotronic
mesotrons
mesotrophic
mesotropic
mesotympanic
mesotype
mesovaria
mesovarian
mesovarium
mesoventral
mesoventrally
mesoxalate
mesoxallic
mesoxalyl
mesozoa
mesozoan
mesozoic
mespil
mesprise
mesquin
mesquit
mesquita
mesquite
mesquites
mesquits
mess
message
message's
messaged
messageer
messagery
messages
messaging
messalian
messaline
messan
messans
messe
messed
meseigneurs
messelite
messenger
messenger's
messengers
metacarpal
metacarpale
metacarpals
metacarpi
metacarpophalangeal
metacarpus
metacenter
metacentral
metacentre
metacentric
metacentricity
metacercaria
metacercarial
metacetone
metachemic
metachemical
metachemistry
metachlamydeous
metachromasis
metachromatic
metachromatin
metachromatinic
metachromatism
metachrome
metachronal
metachronism
metachronistic
metachrosis
metacinnabar
metacinnabarite
metacircular
metacircularity
metacism
metacismus
metaclase
metacneme
metacele
metacoele
metacoelia
metaconal
metacone
metaconid
metaconule
metacoracoid
metacrasis
metacresol
metacromial
metacromion
metacryst
metacyclic
metacymene
metad
metadiabase
metadiazine
metadiorite
metadiscoidal
metadromous
metae
metaethical
metaethics
metafemale
metafluidal
metaformaldehyde
metafulminuric
metagalactic
metagalaxies
metagalaxy
metagaster
metagastric
metagastrula
metage
metagelatin
metagelatine
metagenesis
metagenetic
metagenetically
metagenic
metageometer
metageometrical
metageometry
metages
metagnath
metagnathism
metagnathous
metagnomy
metagnostic
metagnosticism
metagram
metagrammatism
metagrammatize
metagraphic
metagraphy
metagrobolize
metahewettite
metahydroxide
metaigneous
metainfective
metairie
metakinesis
metakinetic
metal
metal's
metalammonium
metalanguage
metalaw
metalbearing
metalumin
metalcraft
metaldehyde
metaled
metalepses
metalepsis
metaleptic
metaleptical
metaleptically
metaler
metaline
metalined
metaling
metalinguistic
metalinguistically
metalinguistics
metalise
metalised
metalises
metalising
metalism
metalist
metalists
metalization
metalize
metalized
metalizes
metalizing
metall
metallary
metalled
metalleity
metaller
metallic
metallical
metalically
metallicity
metallicize
metallicly
metallics
metallide
metallifacture
metalliferous
metallification
metalliform
metallify
metallik
metallike
metalline
metalling
metallisation
metallise
metallised
metallish
metallising
metallism
metallist
metallization
metallizations
metallize
metallized
metallizing
metallocene
metallochrome
metallochromy
metalloenzyme
metallogenetic
metallogenic
metallogy
metallogeny
metallograph
metallographer
metallographic
metallographical
metallographically
metallographist
metallography
metalloid
metalloidal
metallometer
metallophobia
metallophone
metalloplastic
metalorganic
metallotherapeutic
metallotherapy
metallurgic
metallurgical
metallurgically
metallurgist
metallurgists
metallurgy
metalmark
metalmonger
metallogic
metalological
metaloph
metalorganic
metaloscope
metaloscopy
metals
metalsmith
metaluminate
metaluminic
metalware
metalwork
metalworker
metalworkers
metalworking
metalworks
metamale
metamathematical
metamathematician
metamathematics
metamer
metameral
metamere
metameres
metameric
metamerically
metameride
metamerism
metamerization
metamerize
metamerized
metamerous
metamers
metamery
metamitosis
metamorphic
metamorphically
metamorphism
metamorphisms
metamorphize
metamorphopsia
metamorphopsy
metamorphosable
metamorphose
metamorphosed
metamorphoser
metamorphoses
metamorphosian
metamorphosic
metamorphosical
metamorphosing
metamorphosis
metamorphostical
metamorphosy
metamorphic
tetamorphous
metamorph
metanalysis
metanauplius
metanephric
metanephritic
metanephroi
metaneaphron
metaneaphros
metaneapionic
metanetwork
metanilic
metaniline
metanitroaniline
metanitrophenol
metanoia
metanomen
metanotal
metanotion
metanotions
metanotum
metantimonate
metantimonic
metantimonious
metantimonite
metantimonous
metanym
metaorganism
metaparapteral
metaparapteron
metapectic
metapectus
metapeptone
metaperiodic
metaph
metaphase
metaphenomenal
metaphenomenon
metaphenylene
metaphenylenediamin
metaphenylenediamine
metaphloem
metaphonical
metaphonize
metaphony
metaphor
metaphor's
metaphoric
metaphorical
metaphorically
metaphoricalness
metaphorist
metaphorize
metaphors
metaphosphate
metaphosphated
metaphosphating
metaphosphoric
metaphosphorous
metaphragm
metapragma
metapragmal
metaprase
metaprased
metaprasing
metaphrasis
metaphrat
metaphrastic
metaphrastical
metaphrastically
metaphys
metaphyseal
metaphysic
metaphysical
metaphysically
metaphysician
metaphysicianism
metaphysicians
metaphysicist
metaphysicize
metaphysicous
metaphysics
metargon
metarhyolite
metarossite
metarsenic
metarsenious
metarsenite
metarule
metarules
metas
metasaccharinic
metascope
metascutal
metascutellar
metascutellum
metascutum
metasedimentary
metasequoia
metasilicate
metasilicic
metasoma
metasomal
metasomasis
metasomatic
metasomatically
metasomatism
metasomatosis
metasome
metasperm
metaspermic
metaspermous
metastability
metastable
metastably
metastamnate
metastannic
metastases
metastasis
metastasize
metastasized
metastasizes
metastasizing
metastatic
metastatical
metastatically
metasternal
metasternum
metasthenic
metastibnite
metastigmate
metastoma
metastomata
metastome
metastrophe
metastrophic
metastyle
metasyMBOL
metasyntactic
metatantalic
metatarsal
metatarsale
metatarsally
metatarse
metatarsi
metatarsophageal
metatarsus
metatarsusi
metatatic
metatatical
metatatically
metataxic
metataxis
metate
metates
metathalamus
metatheology
metatheory
metatheria
metatherian
metatheses
metathesis
metathesise
metathesize
metathetic
metathetical
metathetically
metathoraces
metathoracic
metathorax
metathoraxes
metatitanate
metatitanic
metatoluic
metatoluidine
metatracheal
metatrophi
metatrophic
metatrophy
metatungstic
metatype
metatypic
metavanadate
metavanadic
metavariable
metavaxite
metavoltine
metaxenia
metaxite
metavaxylem
metaxylene
metayage
metayer
metazoan
metazoans
metazoea
metazoic
metazoon
mete
metecorn
meted
metegritics
metel
metely
metempiric
metempirical
metempirically
metempiricism
metempiricist
metempirics
metempsychic
metempsychosal
metempsychose
metempsychoses
metempsychosic
metempsychosical
metempsychosis
metempsychosize
metemptosis
metencephala
metencephalic
metencephalla
metencephalon
metencephalons
metensarcosis
metensomatosis
metenteron
metenteronic
meteogram
meteograph
meteor
meteor's
meteorograph
meteoric
meteorical
meteorically
meteoris
meteorism
meteorist
meteoristic
meteorittal
meteorite
meteorites
meteoritic
meteoritical
meteoritics
meteorization
meteorize
meteorlike
meteorogram
meteorograph
meteorographic
meteorography
meteoroid
meteoroidal
meteoroids
meteorol
meteorolite
meteorolitic
meteorologic
meteorological
meteorologically
meteorologist
meteorologists
meteorology
meteoromancy
meteorometer
meteoropathologic
meteoroscope
meteoroscopy
meteorous
meteors
meteorscope
metepa
metepas
metepencephalic
metepencephalon
metepimeral
metepimeron
metepisternal
metepisternum
meter
meterable
meterage
meterages
metered
metergram
metering
meterless
meterman
meterological
meters
metership
meterstick
metes
metestick
metestrus
metewand
meteyard
meth
methacrylate
methacrylic
methadon
methadone
methadons
methaemoglobin
methamphetamine
methanal
methanate
methanated
methanating
methane
methanes
methanoic
methanol
methanolic
methanols
methanolysis
methanometer
methantheline
methaqualone
methergin
methemoglobin
methemoglobinemia
methemoglobinuria
methenamine
methene
methenyl
mether
methhead
methicillin
methid
methide
methine
methinks
methiodide
methionic
methionine
metho
methobromide
method
method's
methodaster
methodeutic
methodic
methodical
methodically
methodicalness
methodics
methodise
methodised
methodiser
methodising
methodism
methodist
methodist's
methodistic
methodists
methodization
methodize
methodized
methodizer
methodizes
methodizing
methodless
methodologically
methodologically
methodologies
methodologist
methodologists
methodology
methodology's
methods
methol
methomania
methone
methotrexate
methought
methoxamine
methoxide
methoxy
methoxybenzene
methoxychlor
methoxyflurane
methoxyl
methronic
meths
methuselah
methyl
methylacetanilide
methylal
methylals
methylamine
methylaniline
methylanthracene
methylase
methylate
methylated
methylyating
methylation
methylator
methylbenzene
methylecatechol
methylcholantherene
methyldopa
methyline
methylene
methylenimine
methylenitan
methylethylacetic
methyglycine
methyglycocoll
methyglyoxal
methylheptenone
methylic
methylidyne
methylnalantonic
methylnaphthalene
methylol
methylole
methyloleurea
methylosis
methyloptic
methyloparaben
methylopentose
methylopentoses
methylophenidate
methylopropane
methylo
methylosulfanol
methylnitrobenzene
methyprylon
methysergide
metic
meticulosity
meticulous
meticulously
meticulousness
metier
metiers
metif
meting
metis
metisse
metisses
metochous
metochoy
metoestrous
metoestrum
metoestrus
metol
metonic
metonym
metonymic
metonymical
metonymically
metonymies
metonymous
metonymously
metonyms
metonymy
metopae
metope
metopes
metopic
metopion
metopism
metopomancy
metopon
metopons
metoposcopic
metoposcopical
metoposcopy
metorganism
metosteal
metosteon
metostylos
metoxazine
metoxenous
metoxeny
metra
metralgia
metran
metranate
metranemia
metratonia
metrazol
metre
metrectasia
metrectatic
metrectomy
metrectopia
metrectopic
metrectopy
metrectotomy
metred
metregram
metreless
metreme
metres
metreship
metreta
metrete
metretes
metreza
metria
metric
metric's
metrical
metrically
metricate
metricated
metricates
metrological
metrologically
metrologies
metrologist
metrologue
metrology
metrolymphangitis
metromalacia
metromalacoma
metromalacosis
metromania
metromaniac
metromaniacal
metrometer
metron
metroneuria
metronidazole
metronome
metronomes
metronomic
metronomical
metronomically
metronym
metronymic
metronymy
metroparalysis
metropathia
metropathic
metropathy
metropenthostitis
metrophlebitis
metrophotography
metropole
metropoleis
metropolitan
metropolitanate
metropolitancy
metropolitanism
metropolitanize
metropolitanized
metropolitanship
metropolite
metropolitic
metropolitan
metropolitically
metroptosis
metroradioscope
metrorhagia
metrorrhagic
metrorrhaxis
metrorrhosis
metros
metrosalpingitis
metrosalpinx
metrosalpinx
metronidazole
metrotomography
metrotomy
mets
mettar
mettle
mettled
mettles
mettlesome
mettlesomely
mettlesomeness
metump
metumps
metus
metusia
metwand
metze
meu
meubles
meum
meuni
meuniere
meurtriere
meuse
meute
mew
meward
miasmatous
miasmic
miasmology
miasmous
miasms
miauer
miaul
miauled
miauler
miauling
miauls
miauw
miazine
mib
mibound
mibs
mica
micaceous
micacious
micacite
micah
micas
micasization
micasize
micast
micasting
micasts
micate
mication
micawber
micawberism
micawbers
mice
micell
micella
micellae
micellar
micellarly
micelle
micelles
micells
miceplot
micerun
micesource
michael
michaelmas
miche
miched
michelangelo
micher
michery
michigan
miching
micht
mick
mickery
mickey
mickeys
mickies
mickle
micklemote
mickleness
mickler
mickles
micklest
micks
micky
micmac
mico
miconcave
micra
micraco
micracooustic
micraesthete
micramock
micranatomy
micrand
micrandrous
micraner
micranthropos
micrencephalia
micrencephalic
micrencephalous
micrencephalus
micrencephaly
micrergate
micresthete
micrified
micrifies
micrify
micrifying
micro
microaerophile
microaerophilic
microammeter
microampere
microanalyses
microanalysis
microanalyst
microanalytic
microanalytical
microanatomical
microanatomy
microangstrom
microapparatus
microarchitects
microarchitecture
microarchitectures
microbacteria
microbacterium
microbacteteria
microbal
microbalance
microbar
microbarogram
microbarograph
microbars
microbattery
microbe
microbeam
microbeless
microbeproof
microbes
microbial
microbian
microbic
microbicidal
microbicide
microbiologic
microbiological
microbiologically
microbiologies
microbiologist
microbiologists
microbiology
microbion
microbiophobia
microbiosis
microbiota
microbiotic
microbious
microbism
microbium
microblast
microcos
microcosm
microcosmal
microcosmian
microcosmic
microcosmical
microcosmically
microcosmography
microcosmology
microcosmos
microcosms
microcosmus
microcoulomb
microcranous
microcrit
microcryptocrystalline
microcrystal
microcrystalline
microcrystallinity
microcrystallogeny
microcrystallography
microcrystalloscopy
microcultural
microculture
microcurie
microcycle
microcycles
microcyst
microcyte
microcythemia
microcytic
microcytosis
microdactylia
microdactylism
microdactylous
microdensitometer
microdensitometric
microdensitometry
microdentism
microdentous
microdetection
microdetector
microdetermination
microdiactine
microdimensions
microdissection
microdistillation
microdont
microfilmer
microfilming
microfilms
microflora
microfloral
microfluidal
microfoliation
microform
microforms
microfossil
microfungal
microfungus
microfurnace
microgalvanometer
microgamete
microgametocyte
microgametophyte
microgamies
microgamy
microgastria
microgastrine
microgauss
microgeological
microgeologist
microgeology
microgilbert
microglia
microglial
microglossia
micrognathia
micrognathic
micrognathous
microgonial
microgonidium
microgram
microgramme
microgrammes
microgramming
micrograms
microgranite
microgranitic
microgranitoid
microgranular
microgranulitic
micrograph
micrographer
micrographic
micrographical
micrographically
micrographist
micrographs
micrography
micrograver
microgravimetric
microgroove
microgrooves
microgyne
microgyria
microhabitat
microhardness
microhenries
microhenry
microhenrys
microhepatia
microhistochemical
microhistology
microhm
microhmmeter
microhms
microhymenopteron
microimage
microinch
microinjection
microinstruction
microinstruction's
microinstructions
microjoule
microjump
microjumps
microlambert
microlecithal
microlepidopter
microlepidoptera
microlepidopteran
microlepidopterist
microlepidopteron
microlepidopterous
microleukoblast
microlevel
microlite
microliter
microlith
microlithic
microlitic
micrologic
micrological
micrologically
micrologist
micrologue
micrology
microluces
microlux
microluxes
micromanía
micromaniac
micromanipulation
micromanipulator
micromanipulators
micromanometer
micromaza
micromeasurement
micromechanics
micromeli
micromelia
micromelic
micromelus
micromembrane
micromeral
micromere
micromeric
micromerism
micromeritic
micromeritics
micromesentery
micrometallographer
micrometallography
micrometallurgy
micrometeorite
micrometeoritic
micrometeorogram
micrometeorograph
micrometeoroid
micrometeorological
micrometeorologist
micrometeorology
micrometer
micrometers
micromethod
micrometric
micrometrical
micrometrically
micrometry
micromho
micromhos
micromicrocurie
micromicrofarad
micromicron
micromil
micromillimeter
micromineralogical
micromineralogy
microminiature
microminiaturization
microminiaturizations
microminiaturize
microminiaturized
microminiaturizing
micromodule
micromolar
micromole
micromorph
micromorphologic
micromorphological
micromorphologically
micromorphology
micromotion
micromotoscope
micromyelia
micromyeloblast
micron
micronemous
micronesia
micronesian
micronesians
micronization
micronize
micronometer
microns
micronuclear
micronucleate
micronuclei
micronucleus
micronutrient
microoperations
microorganic
microorganism
microorganismal
microorganisms
micropalaeontology
micropaleontologic
micropaleontological
micropaleontologist
micropaleontology
micropantograph
microparasite
microparasitic
micropathological
micropathologies
micropathologist
micropathology
micropegmatite
micropegmatitic
micropenis
microperthite
microperthitic
micropetalous
micropetrography
micropetrologist
micropetrology
microphage
microphagocyte
microphagous
microphagy
microphakia
microphallus
microphobia
microphone
microphones
microphonic
microphonics
microphoning
microphonism
microphonograph
microphot
microphotograph
microphotographed
microphotographer
microphotographic
microphotographing
microphotographs
microphotography
microphotometer
microphotometric
microphotometrically
microphotometry
microscopescope
microphthalmia
microphthalmic
microphthalmos
microphthalmus
microphyll
microphyllous
microphysical
microphysically
microphysics
microphysiography
microphytal
microphyte
microphytic
microphytology
micropia
micropin
micropipet
micropipette
microlakite
microlakton
microlakstocyte
microlakstometer
micropodal
micropodia
micropodous
micropoecilitic
micropoecilitic
micropoikilitic
micropolariscope
micropolarization
micropopulation
micropore
microporosity
microporous
microporphyrinic
microprint
microprobe
microprocedure
microprocedures
microprocessing
microprocessor
microprocessor's
microprocessors
microprogram
microprogram's
microprogrammable
microprogrammed
microprogrammer
microprogramming
microprograms
microprojection
microprojector
microsec
microsecond
microsecond's
microseconds
microsection
microsegment
microseism
microseismic
microseismical
microseismicity
microseismograph
microseismology
microseismometer
microseismomterograph
microseismometry
microseme
microseptum
microsiemens
microskirt
microsmatic
microsmatism
microsoftware
microsoma
microsomal
microsomatous
microsome
microsomia
microsomial
microsomic
microsommit
microspace
microspacing
microspecies
microspectrophotometer
microspectrophotometric
microspectrophotometrical
microspectrophotometrically
microspectrophotometry
microspectroscope
microspectroscopic
microspectroscopy
microspermous
microsphaeric
microsphere
microspheric
microspherical
microspherulitic
microsplanchnic
midwest
midwestern
midwesterner
midwesterners
midwestward
midwife
midwifed
midwiferies
midwifery
midwifes
midwifing
midwinter
midwinterly
midwinters
midwintry
midwise
midwived
midwives
midwiving
midyear
midyears
mien
miens
miersite
miff
miffed
miffer
miffiest
miffiness
miffing
miffs
miffy
mig
migale
migg
miggle
miggles
miggs
might
mighted
mightful
mightfully
mightfulness
mightier
mightiest
mightily
mightiness
mightless
mikadoism
mikados
mike
miked
mikes
mikie
miking
mikra
mikrkra
mikron
mikrons
mikvah
mikvahs
mikveh
mikvehs
mikvoth
mil
mila
milacre
miladi
miladies
miladis
milady
milage
milages
milammeter
milan
milanaise
milanese
milarite
milch
milched
milcher
milchig
milchigs
milchy
mild
milden
mildened
mildening
mildens
milder
mildest
mildew
mildewed
mildewer
mildewing
mildewproof
mildews
mildewy
mildful
mildfulness
mildhearted
mildheartedness
mildish
mildly
mildness
mildnesses
mildred
mile
mile's
mileage
mileages
mileometer
milepost
mileposts
miler
milers
miles
milesian
milesima
milesimo
milesimos
milestone
milestone's
milestones
mileway
milfoil
milfoils
milha
milia
miliaceous
miliarenses
miliarensis
miliaria
miliarial
miliarias
miliarium
miliary
milice
milieu
milieus
milieux
miliola
milioliform
milioline
millages
millanare
millard
millboard
millecake
milleclapper
millecourse
milldam
milldams
milldoll
mille
milled
millefeuille
millefiore
millefiori
millefleur
millefleurs
milleflorous
millefoliate
millenarian
millenarianism
millenaries
millenarist
millenary
millenia
millenist
millenium
millennia
millennial
millennialism
millennialist
millennialistic
millennially
millennian
millennialism
millennial
millennium
millennia
millennials
milleped
millepede
millepeds
millepore
milleporiform
milleporine
milleporite
milleporous
millepunctate
miller
milleress
milleri
millering
millerite
millerole
millers
milles
millesimal
millesiually
millet
millets
millfeed
millful
millhouse
milliad
milliammeter
milliamp
milliamperemeter
milliamperes
milliangstrom
milliard
milliardaire
milliards
milliare
milliares
milliarium
milliary
millbar
millibarn
millibars
millicron
millicurie
milldegree
millieme
milliemes
milliequivalent
millier
milliers
millifarad
millifold
milliform
milligal
milligals
milligrade
milligram
milligramage
milligramme
milters
miltier
miltiest
milting
miltlike
milton
miltonian
miltonic
miltonist
mils
milsick
miltwaste
milty
milvine
milvinous
milwaukee
milwell
milzbrand
mim
mina
mimamsa
mimbar
mimbars
mimble
mime
mimed
mimeo
mimeoed
mimeograph
mimeographed
mimeographic
mimeographically
mimeographing
mimeographist
mimeographs
mimeography
mimeoing
mimeos
mimer
mimers
mimes
mimesis
mimesises
mimester
mimetene
mimetesite
mimetic
mimetical
mimsey
mimsy
mimzy
min
mina
minable
minacious
minaciously
minaciousness
minacities
minacity
minae
minah
minar
minaret
minareted
minarets
minargent
minas
minasragrite
minatnrial
minatorial
minatorially
minatories
minatorily
minatory
minauderie
minaway
minbar
minbu
mince
minced
mincemeat
mincer
mincers
minces
minchah
minchen
minchery
minchiate
mincier
minciers
minciest
mincing
mincingly
mincingness
mincio
mincy
mind
mindblower
minded
mindedly
mindedness
minder
minders
mindful
mindfully
mindfulness
minding
mindless
mindlessly
mindlessness
mindly
minds
mindsight
mine
mineable
mined
minefield
minelayer
minelayers
mineowner
miner
mineragraphic
mineragraphy
mineralogic
mineral
mineral's
mineralise
mineralised
mineralising
mineralist
mineralizable
mineralization
mineralize
mineralized
minerizer
mineralizes
mineralizing
mineralocorticoid
mineralogic
mineralogical
mineralogically
mineralogies
mineralogist
minority
minority's
minors
minorship
minos
minot
minotaur
minow
mins
minisitive
minister
minsters
ministryard
minstrel
minstrel's
minstreless
minstrels
minstrelship
minstrelsy
mint
mintage
mintages
mintbush
minted
minter
minters
mintier
mintiest
minting
mintmaker
mintmaking
mintman
mintmark
mintmaster
mints
mintweed
minty
minuend
minuends
minuet
minuetic
minuetish
minuets
minum
minunet
minus
minuscular
minuscule
misadventure
misadventurer
misadventures
misadventurous
misadventurously
misadverence
misadvice
misadvise
misadvised
misadvisedly
misadvisedness
misadvises
misadvising
misaflect
misaffected
misaffection
misaffirm
misagent
misagents
misaim
misaimed
misaiming
misaims
misalienate
misaligned
misalignment
misalignments
misallegation
misallege
misalleged
misalleging
misalliance
misalliances
misallied
misallies
misallocation
misallot
misallotment
misallotted
misallothing
misallowance
misally
misallying
misalphabetize
misalphabetized
misalphabetizes
misalphabetizing
misalter
misaltered
misaltering
misalters
misanalysis
misanalyze
misanalyzed
misanalyzely
misanalyzing
misandry
misanswer
misanthrope
misanthropes
misanthropy
misanthropi
misanthropa
misanthropic
misanthropical
misanthropically
misanthropies
misanthropism
misanthropist
misanthropists
misanthropize
misanthropos
misanthropy
misappraise
misappraised
misappraisement
misappraising
misappreciate
misappreciation
misappreciative
misapprehend
misapprehended
misapprehending
misapprehendingly
misapprehends
misapprehensible
misapprehension
misapprehensions
misapprehensive
misapprehensively
misapprehensiveness
misappropriate
misappropriated
misappropriately
misappropriates
misappropriating
misappropriation
misappropriations
misarchism
misarchist
misarrange
misarranged
misarrangement
misarrangements
misarranges
misarranging
misarray
misarticulate
misarticulated
misarticulating
misarticulation
misascribe
misascription
misasperse
misassay
misassayed
misassaying
misassays
misassent
misassert
misassertion
misassign
misassignment
misassociate
misassociation
misate
misatone
misatoned
misatones
misatoning
misattend
misattribute
misattribution
misunter
misauthorization
misauthorize
misauthorized
misauthorizing
misaventeur
misaver
misaverred
misaverring
misavers
misaward
misawarded
misawarding
misawards
misbandage
misbaptize
misbear
misbecame
misbecome
misbecoming
misbecomingly
misbecomingness
misbede
misbefall
misbefallen
misbefitting
misbegan
misbeget
misbegetting
misbegin
misbeginning
misbegins
misbegot
misbegotten
misbegun
misbehave
misbehaved
misbehaver
misbehavers
misbehaves
misbehaving
misbehavior
misbehaviour
misbeholden
misbelief
misbeliefs
miscensure
miscensured
miscensuring
mischallenge
mischance
mischanceful
mischances
mischancy
mischeranter
mischaracterization
mischaracterize
mischaracterized
mischaracterizing
mischarge
mischarged
mischarges
mischarging
mischief
mischiefful
mischiefs
mischieve
mischievous
mischievously
mischievousness
mischio
mischoice
mischoose
mischooing
mischose
mischosen
mischristen
miscibilities
miscibility
miscible
miscipher
miscitation
mische
mischited
mischeites
mischeiting
mischaim
mischaimed
mischaiming
mischaims
mischlass
mischlassed
mischlasses
mischclassification
misclassifications
misclassified
misclassifies
misclassify
misclassifying
misclassing
miscognizable
miscognizable
miscognizant
miscognizant
miscoin
miscoinage
miscoined
miscoining
miscoins
miscollocation
miscolor
miscoloration
miscolored
miscoloring
miscoirs
miscoir
miscoirer
miscoire
miscoires
miscoiring
miscomfort
miscommand
miscommit
miscommunicate
miscommunication
miscommunications
miscompare
miscomplacency
miscomplain
miscoal
miscoaline
miscoalining
miscoaling
miscoal
miscoal
miscoal
miscoal
miscoal
miscoal
misconception
misconception
misconceptions
misconceptions
misconclusion
misconduct
misconducted
misconducting
misconfer
misconfidence
misconfident
misconfiguration
misconjecture
misconjectured
misconjecturing
misconjugate
misconjugated
misconjugating
misconjugation
misconjunct
misconjunct
misconnection
misconsecrate
misconsecrated
misconsequence
misconstitutional
misconstruable
misconstrual
misconstruct
misconstruction
misconstructions
misconstructive
misconstrue
misconstrued
misconstruer
misconstrues
misconstruing
miscontent
miscontinuance
misconvenient
misconvey
miscook
miscooked
miscookery
miscooking
miscooks
miscooped
miscopies
miscoopy
miscoopying
miscoorrect
miscoorrected
miscoorrecting
miscoorrection
miscounsel
miscounseled
miscounseling
miscounselfed
miscounselfing
miscount
miscounted
miscounting
miscounts
miscovet
miscreance
miscreancy
miscreant
miscreants
miscreate
miscreated
miscreating
miscreation
miscreative
miscreator
miscredit
miscredited
miscredulity
miscreed
miscript
miscrop
miscue
miscued
miscues
miscuing
miscultivated
misculture
miscurvature
miscut
miscuts
misculting
misdate
misdated
misdateful
misdates
misdating
misaub
misdeal
misdealer
misdealing
misdeals
misdealt
misdecide
misdecision
misdeclaration
misdeclare
misdeed
misdeeds
misdeem
misdeemed
misdeemful
misdeeming
misdeems
misdefine
misdefined
misdefines
misdeining
misdeformed
misdeliver
misdeliveries
misdelivery
misdemean
misdemeanant
misdemeaned
misdemeaning
misdemeanist
misdemeanor
misdemeanors
misdemeanour
misdentition
misdepart
misderivation
misderive
misderived
misderiving
misdescribe
misdescribed
misdescriptor
misdescribing
misdescription
misdescriptive
misdesert
misdeserve
misdesignate
misdesire
misdetermine
misdevise
misdevoted
misdevotion
misdiagnose
misdiagnosed
mise
misease
miseased
miseases
miseat
miseating
miseats
misecclesiastic
misedit
misedited
misediting
misedits
miseducate
miseducated
miseducates
miseducating
miseducation
miseducative
miseffect
misemphasis
misemphasize
misemphasized
misemphasizing
misemploy
misemployed
misemploying
misemployment
misemploys
misencourage
misendeavor
misenforce
misegrave
misenite
misenjoy
misenrol
misenroll
misenrolled
misenrolling
misenrolls
misenrols
misenter
misenterd
misentering
misenters
misentitle
misentreat
misentries
misentry
misexplicate
misexplication
misexposition
misexpound
misexpress
misexpression
misexpressive
misfaith
misfaiths
misfall
misfare
misfashion
misfashioned
misfate
misfather
misfault
misfeasance
misfeasances
misfeasor
misfeasors
misfeature
misfeatured
misfeign
misfield
misfielded
misfielding
misfields
misfigure
misfile
misfiled
misfiles
misfiling
misfire
misfired
misfires
misfiring
misfit
misfit's
misfits
misfitted
misfitting
misfocus
misfocus
misfocused
misfocusing
misfocussed
misfocussing
misfond
misforgive
mishmashes
mishmee
mishmi
mishmosh
mishmoshes
mishnah
misidentification
misidentifications
misidentified
misidentifies
misidentify
misidentifying
misimagination
misimagine
misimpression
misimprove
misimproved
misimprovement
misimproving
misimputation
misimpute
misincensed
misincite
misinclination
miscline
misinfer
misinference
misinferred
misinferring
misinfers
misinflame
misinform
misinformant
misinformants
misinformation
misinformative
misinformed
misinformer
misinforming
misinform
misinstruct
misinstructed
misinstructing
misinstruction
misinstructions
misinstructive
misinstructs
misintelligencer
misintelligible
misintend
misintention
misinter
misinterment
misinterpret
misinterpretable
misinterpretation
misinterpretations
misinterpreted
misinterpreter
misinterpreting
misinterprets
misinterred
misinterring
misinters
misintimation
misiones
misitemized
misjoin
misjoinder
misjoined
misjoining
misjoins
misjudge
misjudged
misjudgement
misjudger
misjudges
misjudging
misjudgingly
misjudgment
misjudgments
miskal
miskals
miseep
miseeping
miseeps
misen
miskenning
miskent
miskill
miskin
miskindle
misknew
misknow
misnumbering
misnumbers
misure
misure
misnurture
misnutrition
miso
misobedience
misobey
misobservance
misobserve
misocaine
misocapnic
misocapnist
misocatholic
misoccupied
misoccupy
misoccupying
misogallic
misogamic
misogamies
misogamist
misogamists
misogamy
misogyne
misogynic
misogynical
misogynies
misogynism
misogynist
misogynistic
misogynistical
misogynists
misogynous
misogyny
misohellene
misologies
misologist
misology
misomath
misoneism
misoneist
misoneistic
misopaedia
misopaedism
misopaedist
misopaterist
misopedia
misopedism
misopedist
misopinion
misopolemical
misorder
misordination
misorganization
misorganize
misorganized
misorganizing
misorient
misorientation
misos
misoscopist
misosopher
misosophist
misosophy
misotheism
misotheist
misotheistic
misotramontanism
miso tyranny
miso xene
miso xeny
mispackaged
mispacked
mispage
mispaged
mispages
mispagination
mispaging
mispaid
mispaint
mis painted
mis painting
mis paints
misparse
misparsed
misparses
misparsing
mispart
misp arted
misparring
misparring
misparts
mis passion
mis patch
mis patched
misp atches
misp atching
mis pay
mispaying
mispen
mispenned
mispenned
mispens
misperceive
misperceived
misperceiving
misperception
misperform
misperformance
misperusuade
misperuse
misphrase
misperased
misperasing
mispick
mispickel
misplace
misplaced
misplacement
mispaces
misplacing
misplant
misplanted
misplanting
misplants
misplay
misplayed
misplaying
misplays
misplead
mispleaded
mispleading
mispleads
misplease
mispled
mispoint
mispointed
mispointing
mispoints
mispoise
mispoised
mispoises
mispoising
mispolicy
mispomision
mispomised
mispomossessed
misreckon
misreckoned
misreckoning
misrecognition
misrecognize
miscollect
miscollected
misrefer
misreference
misferred
misreferring
misrefers
misreflect
misreform
misregulate
misregulated
misregulating
misrehearsal
misrehearse
misrehearsed
misrehearsing
misrelate
misrelated
misrelating
misrelation
misreliance
misrelied
misreliies
misreligion
misrely
misrelieving
misremember
misremembered
misremembrance
misrender
misrendering
misrepeat
misreport
misreported
misreporter
misreporting
misreports
misreposed
misrepresent
misrepresentation
misrepresentation's
misrepresentations
misrepresentative
missels
missemblance
missend
missending
missends
missense
missenses
missent
missentence
misserve
misservice
misses
misset
missetting
misshape
misshaped
misshapen
misshapenly
misshapenness
misshapes
misshaping
misship
misshipment
missipped
misshipping
misshed
misshood
missible
missies
missificate
missile
missile's
missileer
missileman
missilemen
missileproof
missilery
missiles
missilries
missilry
missiness
missing
missingly
missiology
mission
missional
missionaries
missionarize
misspellings
misspells
misspelt
misspend
misspender
misspending
misspends
misspent
misspoke
missspoken
misstart
misstarted
misstarting
misstarts
misstate
misstated
misstatement
misstatements
misstater
misstates
misstating
misstay
missteer
missteered
missteering
missteers
misstep
misstepping
missteps
misstop
misstopped
misstopping
misstops
misstyle
misstyled
misstyles
misstyling
missuade
missuggestion
missuit
missuited
missuiting
missuits
missummation
missung
missuppose
missupposed
missupposing
mistletoes
mistold
mistone
mistonusk
mistook
mistouch
mistouched
mistouches
mistouching
mistrace
mistraced
mistraces
mistracing
mistradition
mistrain
mistral
mistral
mistranscribe
mistranscribed
mistranscribing
mistranscript
mistranscription
mistranslate
mistranslated
mistranlates
mistranslating
mistranslation
mistreading
mistreat
mistreated
mistreating
mistreatment
mistreats
mistress
mistressdom
mistresses
mistresshood
mistressless
mistressly
mistrial
mistrials
mistrist
mistrow
mistrust
mistrusted
mistruter
mistrustful
mistrustfully
mistrustfulness
mistrusting
mistrustingly
mistrustless
mistrusts
mistry
mistryst
mistrysted
mistrysting
mistrysts
mists
mistune
mistuned
mistunes
mistuning
misure
misturn
mistutor
mistutored
mistutoring
mistutors
misty
mistyish
mistype
mistyped
mistypes
mistyping
mistypings
misunderstand
misunderstandable
misunderstander
misunderstanders
misunderstanding
misunderstanding's
misunderstandingly
misunderstandings
misunderstands
misunderstood
misunderstoodness
misunion
misunions
misura
misusage
misusages
misuse
misused
misuseful
misusement
misuser
misusers
misuses
misusing
misusurped
misvaluation
misvalue
misvalued
misvalues
misvaluing
misventure
misventurous
misviding
misvouch
misvouched
miswandered
misway
miswed
miswedded
misween
miswend
miswern
miswire
miswired
miswiring
miswisdom
miswish
miswoman
misword
misworded
miswording
miswords
misworship
misworshiped
misworshiper
misworshipper
miswrest
miswrit
miswrite
miswrites
miswriting
miswritten
miswrote
miswrought
misy
misyoke
misyoked
misyokes
mobber
mobbers
mobbie
mobbing
mobbish
mobbishly
mobbishness
mobbism
mobbist
mobble
mobby
mobcap
mobcaps
mobed
mobil
mobile
mobiles
mobilia
mobilianer
mobiliary
mobilisable
mobilisation
mobilise
mobilised
mobiliser
mobilises
mobilising
mobilities
mobility
mobilizable
mobilization
mobilizations
mobilize
mobilized
mobilizer
mobilizers
mobilizes
mobilizing
mobilometer
mobile
moblike
mobocracies
mobocracy
mobocrat
mobocratic
mobocratical
mobocrats
mobolatry
moderationist
moderations
moderatism
moderatist
moderato
moderator
moderatorial
moderators
moderatorship
moderatos
moderatrix
modern
moderne
moderner
modernest
modernicide
modernisation
modernise
modernised
moderniser
modernish
modernising
modernism
modernist
modernistic
modernists
modernities
modernity
modernizable
modernization
modernize
modernized
modernizer
modernizers
modernizes
modernizing
modernly
modernness
moderns
modes
modest
modester
modestest
modesties
modestly
modestness
modesty
modge
modi
mediation
modica
modicity
modicum
modicums
modif
modifiability
modifiable
modifiableness
modifiably
modificability
modificable
modificand
modification
modificationist
modifications
modificative
modificator
modificatory
modified
modifier
modifiers
modifies
modify
modifying
modi
modillion
modiolar
modiol
modiolus
modish
modishly
modishness
modist
modiste
modistes
modistry
modius
modo
modred
mods
modula
modulability
modulant
modular
modularity
modularization
mogged
moggies
mogging
moggio
moggly
moghul
mogigraphia
mogigraphic
mogigraphy
mogilalia
mogilalism
mogilalism
mogitocia
mogo
mogographia
mogos
mogote
mogs
moguey
mogul
moguls
mogulship
moguntine
moha
mohabat
mohair
mohairs
mohalim
mohammed
mohammedan
mohar
moharram
mohatra
mohawk
mohawkite
mohawks
mohegan
mohel
mohels
mohican
mohism
mohinseed
moho
mohock
mohockism
mohoochoo
mohos
mohr
moistness
moistish
moistishness
moistless
moistly
moistness
moisture
moistureless
moistureproof
moistures
moisturize
moisturized
moisturizer
moisturizers
moisturizes
moisturizing
moisty
moit
moither
moitier
moitiest
moity
mojarra
mojarris
mojo
mojos
mokaddam
mokador
mokamoka
moke
mokes
moki
mokihana
mokihana
moki
moksha
mokum
moky
mol
mola
molal
molalities
molality
molar
molariform
molarimeter
molarities
molarity
molars
molary
molas
molasse
molasses
molasseses
molassied
molassy
molave
mold
moldability
moldable
moldableness
moldasle
moldavite
moldboard
moldboards
molded
molder
moldered
moldering
molders
moldery
moldier
moldiest
moldiness
molding
moldings
moldmade
moldproof
molds
moldwarp
moldwarps
moldy
mole
molebut
molecast
molecula
molecular
molecularist
molecularity
molecularly
molecule
molecule's
molecules
molehead
moleheap
molehill
molehillish
molehills
molehilly
moleism
molelike
molendinar
molendinary
molengraaffite
moleproof
moler
moles
moleskin
moleskins
molest
molestation
molestations
molested
molester
molesters
molestful
molestfully
molestie
molesting
molestious
molests
molet
molewarp
moliere
molies
molified
molify
molifying
molilalia
molimen
moliminous
molinary
moline
molinet
moling
molinism
molition
molka
moll
molla
mollah
mollahs
molland
molle
mollusklike
mollusks
molly
mollycoddle
mollycoddled
mollycoddler
mollycoddlers
mollycoddles
mollycoddling
mollycosset
mollycot
mollyhawk
mollymawk
molman
molmen
molmutian
moloch
molochs
molocker
moloid
moloker
molompi
molosse
molosses
molossian
molossic
molossine
molossoid
molossus
molpe
motrooken
mols
molt
molted
molten
moltenly
molter
molters
molting
moltio
molts
molttten
molucca
molvi
moly
molybdate
molybdena
molybdenic
molybdeniferous
molybdenite
molybdenous
molybdenum
molybdcic
molybdtite
molybdocardialgia
molybdocolic
molybdodyspepsia
molybdomanacy
molybdomenite
molybdodonosus
molybdoparesis
molybdophyllite
molybdosis
molybdous
molysite
mom
mombin
momble
mome
moment
moment's
momenta
momental
momentally
momentaneall
momentaneity
momentaneous
momentaneously
momentaneousness
momentary
momentarily
momentariness
momentary
momentally
momento
momentoes
momentos
momentous
momentously
momentousness
moments
momentum
momentums
momes
momi
momiology
monades
monadic
monadical
monadically
monadiform
monadigerous
monadism
monadisms
monadistic
monadnock
monadology
monads
monaene
monal
monamide
monamine
monamniotic
monander
monandria
monandrian
monandric
monandries
monandrous
monandry
monanthous
monaphase
monapsal
monarch
monarchal
monarchally
monarchess
monarchial
monarchian
monarchianism
monarchianist
monarchianistic
monarchic
monarchical
monarchically
monarchies
monarchism
monarchist
monarchistic
monarchists
monarchize
monarchized
monarchizer
monarchizing
monilethrix
moniliaceous
monilial
moniliasis
monilicorn
moniliform
moniliformly
moniliod
moniment
monimiaceous
monimolite
monimostylic
monish
monished
monisher
monishes
monishing
monishment
monism
monisms
monist
monistic
monistical
monistically
monists
monitory
monition
monitions
monitive
monitor
monitored
monitorial
monitorially
monitories
monitoring
monitorish
monitors
monitorship
monitory
monitress
monitrix
monk
monk's
monkbird
monkcraft
monkdom
monkeries
monkery
monkeryies
monkess
monkey
monkeyboard
monkeyed
monkeyface
monkeyfied
monkeyflower
monkeyfy
monkeyflying
monkeyhood
monkeying
monkeyish
monkeyishly
monkeyishness
monkeyism
monkeylike
monkeynut
monkeypod
monkeypot
monkeyrony
monkeyry
monkeys
monkeyshine
monkeyshines
monkeytail
monkfish
monkfishes
monkflower
monkhood
monkhoods
monkish
monkishly
monkishness
monkism
monklike
monkliness
monkly
monkmonger
monks
monkship
monkshood
monkshoods
monmouth
monmouthite
monniker
monnion
monny
mono
monoacetate
monoacetin
monoacid
monoacidic
monoacids
monoalphabetic
monoamid
monoamide
monoamin
monoamine
monoaminergic
monoamino
monoammonium
monoatomic
monoazo
monobacillary
monobase
monobasic
monobasicity
monobath
monoblastic
monoblepsia
monoblepsis
monobloc
monobranchiate
monobromacetone
monobromated
monobromide
monobrominated
monobromination
monobromized
monobromoacetanilide
monobromoacetone
monobutyryl
monocable
monocalcium
monocarbide
monocarbonate
monocarbonic
monocarboxylic
monocardian
monocarp
monocarpal
monocarpellary
monocarpian
monocarpic
monocarpous
monocarps
monocellular
monocentric
monocentrid
monocentroid
monocephalous
monocerco
monocercous
monoceros
monocerous
monochasia
monochasial
monochasium
monochlamydeous
monochlor
monochloracetic
monochloranthracene
monochlorbenzene
monochloride
monochlorinated
monochlorination
monochloro
monochloroacetic
monochlorobenzene
monochloromethane
monochoanitic
monochord
monochordist
monochordize
monochroic
monochromasy
monochromat
monochromate
monochromatic
monochromatically
monochromaticity
monochromatism
monochromator
monochrome
monochromes
monochromatic
monochromical
monochromically
monochromist
monochromous
monochromy
monochronic
monochronometer
monochronous
monociliated
monocle
monocled
monocleid
monocleide
monocles
monoclinal
monoclinally
monocline
monoclinian
monoclinic
monoclinism
monoclinometric
monoclinous
monoclinal
monocoelian
monocoelic
monocoondylar
monocoondylian
monocoondylic
monocoondyloous
monocoque
monocormic
monocot
monocots
monocotyl
monocotyledon
monocotyledonous
monocotyledons
monocracy
monocrat
monocratic
monocratis
monocrats
monocrotic
monocrotism
monocular
monocularity
monocularly
monoculate
monocule
monoculist
monoculous
monocultural
monoculture
monoculus
monocyanogen
monocyte
monocytes
monocytic
monocytoid
monocytic
monocytic
monocystic
monocytic
monocycle
monocyclic
monocyclic
monocyclic
monocyclicity
monocycly
monocystic
monocystic
monocystic
monocytopoiesis
monodactyl
monodactylate
monodactyle
monodactylism
monodactylous
monodactyly
monodactylous
monodactylous
monodelph
monodelphian
monodelphic
monodelphous
monodelphous
monodermic
monodic
monodical
monodically
monodies
monodies
monodimetric
monodist
monodists
monodize
monodomous
monodont
monodontal
monodram
monodrama
monodramatic
monodramatist
monodrame
monodromic
monodromy
monody
monodynamic
monodynamic
monodynamism
monoecia
monoecia
monoecian
monoecies
monoecious
monoeciously
monoeciousness
monoecism
monoecy
monoecidic
monoenergetic
monoester
monoestrous
monoethanolamine
monoethylamine
monofil
monofilament
monofilm
monofils
monoflagellate
monoformin
monofuel
monofuels
monogamian
monogamic
monogamies
monogamik
monogamist
monogamistic
monogamists
monogamou
monogamous
monogamously
monogamousness
monogamy
monoganglionic
monogastric
monogene
monogenean
monogeneity
monogeneous
monogenesis
monogenesist
monogenesy
monogenetic
monogenic
monogenically
monogenies
monogenism
monogenist
monogenistic
monogenous
monogeny
monogerm
monoglot
monoglycerid
monoglyceride
monogoneutic
monogonoporic
monogonoporous
monogony
monogram
monogram's
monogramed
monogramming
monogramm
monogrammatic
monogrammatical
monogrammed
monogrammic
monogramming
monograms
monograph
monograph's
monographed
monographer
monographers
monographes
monographic
monographical
monographically
monographing
monographist
monographs
monography
monogaptid
monogynia
monogynic
monogynies
monogynious
monogynist
monogynoecial
monogynous
monogyny
monohull
monohybrid
monohydrate
monohydrated
monohydric
monohydrogen
monohydroxy
monoicous
monoid
monoketone
monokini
monolater
monolatrist
monolatrous
monolatry
monolayer
monoline
monolingual
monolinguist
monoliteral
monolith
monolithal
monolithic
monolithically
monolithism
monoliths
monolobular
monolocular
monolog
monologist
monologic
monological
monologies
monologist
monologists
monologize
monologized
monologizing
monologs
monologue
monologues
monologuist
monologuists
monology
monomachist
monomachy
monomail
monomania
monomaniac
monomaniacal
monomaniacs
monomaniyas
monomark
monomastigate
monomeniscous
monomer
monomeric
monomorous
monomers
monometalism
monometalist
monometallic
monometallism
monometallist
monometer
monomethyl
monomethylamine
monomethylated
monomethyllic
monometric
monometrical
monomial
monomials
monomict
monomineral
monomineralic
monomolecular
monomolecularly
monomolybdate
monomorphic
monomorphic
monomorphism
monomorphous
monomyarian
monomyary
mononaphthalene
mononch
mononeural
mononitrate
mononitrated
mononitration
mononitride
mononitrobenzene
mononomial
mononomian
monont
mononuclear
mononucleated
mononucleoses
mononucleosis
mononucleotide
mononychous
mononym
mononymic
mononymization
mononymize
mononymy
moneousian
moneousious
monoparental
monoparesis
monoparesthesia
monopathic
monopathy
monoplectinate
monopersonal
monopersulfuric
monopersulphuric
monopetalous
monophagia
monophagism
monophagous
monophagy
monophage
monophasia
monophasic
monophobia
monophoic
monophone
monophonic
monophonically
monophonies
monophonous
monophony
monophotal
monophote
monophthalmic
monophthalmus
monophthong
monophthongal
monophthongization
monophthongize
monophthongized
monophthongizing
monophyletic
monophyleticism
monophyletism
monophylety
monophylite
monophyllous
monophyodont
monophyodontism
monophysite
monopitch
monos
monosaccharide
monosaccharose
monoschemic
monoscope
monose
monosemic
monosemy
monosepalous
monoservice
monosexualities
monosexuality
monosilane
monosilicate
monosilicic
monosiphonic
monosiphonous
monoski
monosodium
monosomatic
monosomatous
monosome
monosomes
monosomic
monospace
monosperm
monospermal
monospermic
monospermous
monospermy
monospherical
monospondyllic
monosporangium
monospore
monospored
monosporiferous
monosporous
monostable
monostele
monostelic
monostelous
monostely
monostich
monostichic
monostichous
monostomatous
monostome
monostomous
monostromatic
monostrophe
monostrophic
monostrophics
monostylous
monosubstituted
monosubstitution
monosulfone
monosulfonic
monosulphide
monosulphone
monosulphonic
monosyllabic
monosyllabical
monosyllabically
monosyllabicity
monosyllabism
monosyllabize
monosyllable
monosyllables
monosyllogism
monosymmetric
monosymmetrical
monosymmetrically
monosymmetry
monosymptomatic
monosynaptic
monosynaptically
monosynthetic
monotelephone
monotelephonic
monotellurite
monotessaron
monothalamian
monothalamic
monothalamous
monothecal
monothecism
monothecist
monothecistic
monothecistical
monothecistically
monothecists
monothete
monothelial
monothelism
monothelite
monothetic
monotic
monotint
monotints
monotocardiac
monotocardian
monotocious
monotomous
monotonal
monotone
monotones
monotonic
monotonical
monotonically
monotonicity
monotonies
monotonist
monotonize
monotonous
monotonously
monotonousness
monotony
monotremal
monotremata
monotremate
monotrematous
monotreme
monotremous
monotrichate
monotrichic
monotrichous
monotriglyph
monotriglyphic
monotrochal
monotrochian
monotrochous
monotron
monotropaceous
monotrophic
monotropic
monotropically
monotropies
monotropy
monotypal
monotype
monotypes
monotypic
monotypical
monteros
montes
montessori
montessorian
montevideo
montezuma
montgolfier
montgolfiers
montgomery
montgomeryshire
month
month's
monthlies
monthlong
monthly
monthon
months
montia
monticellate
monticle
monticola
monticolae
monticoline
monticulate
monticule
monticoline
monticulina
monticuliporidean
monticuliporoid
monticulose
monticulous
monticulus
montiform
montigenous
montilla
montjoy
montjoye
montmartrite
montmorillonite
montmorillonitic
montmorillonite
monton
montpelier
montre
montreal
montross
montrodyte
monture
montuvio
monument
monument's
monumental
monumentalise
monumentalised
monumentalising
monumentalism
monumentality
monumentalization
monumentalize
monumentalized
monumentalizing
monumentally
monumentary
monumented
monumenting
monumentless
monumentlike
monuments
monuron
monurons
mony
monzodiorite
monzogabbro
monzonite
monzonitic
moo
moocah
mooch
moocha
mooched
moocher
moochers
mooches
mooching
moochulka
mood
mood's
mooder
moodier
moodiest
moodily
moodiness
moodir
moodir
moodish
moodishly
moodishness
moodle
moods
moody
moored
mooring
mookhtar
mooktar
mool
moola
moolah
moolahs
moolas
moolet
mooley
mooleys
moolings
mools
moolum
moolvee
moolvi
moolvie
moon
moonack
moonal
moonbeam
moonbeams
moonbill
moonblind
moonblink
moonbow
moonbows
mooncalf
mooncalves
mooncreeper
moondog
moondown
moondrop
mooned
mooner
moonery
moonet
mooneye
mooneyes
moonface
moonfaced
moonfall
moonfish
moonfishes
moonflower
moonseeds
moonset
moonsets
moonshade
moonshee
moonshine
moonshined
moonshiner
moonshiners
moonshining
moonshiny
moonshot
moonshots
moonsick
moonsickness
moonsif
moonstone
moonstones
moonstricken
moonstruck
moontide
moonwalk
moonwalker
moonwalking
moonwalks
moonward
moonwards
moonway
moonwort
moonworts
moony
moop
moor
moorage
moorages
moorball
moorband
moorberries
moorberry
moorbird
moorburn
moorburner
moorburning
moorcok
moore
moored
mooress
moorflower
moralizingly
moraller
moralless
morally
moralness
morals
moras
morass
morasses
morassic
morassweed
morassy
morat
morate
moration
moratoria
moratorium
moratoriums
moratory
morattoria
moravian
moravite
moray
morays
morbid
morbidezza
morbidities
morbidity
morbidize
morbidly
morbidness
morbiferal
morbiferous
morbific
morbifically
morbify
morbility
morbillary
morbilli
morbilliform
morbillious
morbleu
morbose
morbus
morceau
morceaux
morcellate
moreover
morepeon
morepork
morees
moreesco
moreesque
moreesques
morfond
morfound
morfounder
morfre
morg
morga
morgan
morganatic
morganatical
morganatically
morganic
morganite
morganize
morgay
morgen
morgengift
morgens
morgenstern
morglay
morgue
morgues
morian
moribund
moribundity
moribundly
moric
morice
moriche
moriform
morigerate
morigeration
morigerous
morigerously
morigerousness
moriglio
morillon
morin
morindin
morindone
morinel
moringa
morocco
moroccos
morocota
morological
morologically
morologist
morology
moromancy
moron
moroncy
morone
morones
morong
moronic
moronically
moronism
moronisms
moronities
moronity
morony
morons
moror
morosaurian
morosauroid
morose
morosely
moroseness
morosis
morosities
morosity
morosophs
moroxite
morph
morphactin
morphallaxes
morphallaxis
morpha
morpheme
morphemes
morphemic
morphemically
morphemics
morphetic
morphoeus
morphew
morphgan
morphia
morphias
morphiate
morphic
morphically
morphin
morphinate
morphine
morphines
morphinic
morphinism
morphinist
morphinization
morphinize
morphinomania
morphinomaniac
morphins
morphiomania
morphiomianiac
morphism
morphisms
morphized
morphizing
morpho
morphogeneses
morphogenesis
morphogenetic
morphogenetically
morphogenic
morphogeny
morphographer
morphographic
morphographical
morphographist
morphography
morphol
morpholin
morpholine
morphologic
morphological
morphologically
morphologies
morphologist
morphologists
morphology
morpholoical
morphometric
morphometrical
morphometrically
morphometry
morphon
morphoneme
morphonemic
morphonemics
morphonomic
morphonomy
morphophoneme
morphophonemic
morphophonemically
morphophonemics
morphophyly
morphoplasm
morphoplasmic
morphos
morphoses
morphosis
morphotic
morphotonemic
morphotonemics
morphotropic
morphotropism
morphotropy
morphous
morphrey
morphs
morpion
morpunkee
morra
morral
morrhuate
morrhuin
morrhuine
morrice
morricer
morriion
morriions
morris
morrises
morro
morros
morrow
morrowing
morrowless
morrowmass
morrors
morrorspeech
morrowtide
mors
mothballs
mothed
mother
mother's
motherboard
mothercraft
motherdom
mothered
motherer
motherers
motherfucker
mothergate
motherhood
motherhouse
motheriness
mothering
motherkin
motherkins
motherland
motherlands
motherless
motherlessness
motherlike
motherliness
motherling
motherly
mothers
mothership
mothersome
motherward
motherwise
motherwort
mothery
mothier
mothiest
mothless
mothlike
mothproof
mothproofed
mothproofer
mothproofing
moths
mothworm
mothy
motif
motif's
motific
motifs
motorises
motorising
motorism
motorist
motorist's
motorists
motorium
motorization
motorize
motorized
motorizes
motorizing
motorless
motorman
motormen
motorneer
motorphobe
motorphobia
motorphobic
motors
motorsailer
motorscooters
motorship
motorships
motortruck
motortrucks
motorway
motorways
motory
motricity
mots
mott
motte
mottes
mottetto
mottle
mottled
mottledness
mottlement
mottler
mottlers
mottles
mottling
motto
mottoed
mottoes
mottoless
mottolike
mottos
mottramite
motts
motty
motyka
mou
mouch
moucharabies
moucharaby
mouchard
mouchardism
mouche
mouched
mouches
mouching
mouchoir
mouchoirs
mouchrabieh
moud
moudie
moudieman
moudy
moue
mouedhin
moues
moufflon
moufflons
mouflon
mouflons
mought
mouill
mouillation
mouille
mouillure
moujik
moujiks
moul
moulage
moulages
mould
mouldboard
moulded
moulder
mouldered
mouldering
moulders
mouldery
mouldier
mountainer
mountainet
mountainette
mountainless
mountainlike
mountainous
mountainously
mountainousness
mountains
mountainside
mountainsides
mountaintop
mountaintops
mountainward
mountainwards
mountainy
mountance
mountant
mountebank
mountebanked
mountebankeries
mountebankery
mountebankish
mountebankism
mountebankly
mountebanks
mounted
mountee
mounter
mounters
mountie
mounties
mounting
mountingly
mountings
mountlet
mounts
mounture
mounty
moup
mourn
mourned
mourner
mourneress
mourners
mournful
mournfuller
mozarab
mozart
moze
mozemize
mozetta
mozetas
mozette
mozing
mozo
mozos
mozzarella
mozzetta
mozzettas
mozzette
mp
mpb
mpbs
mpg
mph
mphps
mpret
mr
mrem
mridang
mridanga
mridangas
mrs
ms
msalliance
msec
msg
msink
msl
msource
mss
mster
mt
mtd
mtg
mtge
mtier
mtm
mts
mtscmd
mtx
mu
muang
mubarat
mucago
mucaro
mucate
mucedin
mucedinaceous
mucedine
mucedineous
mucedinous
much
muchacha
muchacho
muchachos
muchel
muches
muchfold
muchly
muchness
muchnesses
muchwhat
mucic
mucid
mucidities
mucidity
mucidness
muciferous
mucific
muciform
mucigen
mucigenous
mucilage
mucilages
mucilaginous
mucilagiously
mucilaginousness
mucin
mucinogen
mucinoid
mucinolytic
mucinous
mucins
muciparous
mucivore
mucivorous
muck
muckamuck
mucked
muckender
mucker
muckerer
muckerish
muckerism
muckers
mucket
muckhill
muckhole
muckibus
muckier
muckiest
muckily
muckiness
mucking
muckite
muckle
muckles
muckluck
mucklucks
muckman
muckment
muckmidden
muckna
muckrake
muckraked
muckraker
muckrakers
muckrakes
muckraking
mucks
mucksweat
mucky
muc
muculc
muclecs
mucocele
muco cellulose
muco cellullosic
muco cutaneous
muco dermal
muco fibrous
muco flocculent
mucoid
mucoidal
mucoids
mucolytic
mucomembranous
muconic
mucopolysaccharide
mucoprotein
mucopurulent
mucopus
mucor
muco- 
mucoraceous
muco-
mucorine
muco-
mucor- 
mucoroid
mucormycosis
mucorrhcea
mucorrhoea
mucors
muco-
mucosa
muco-
mucosae
muco- 
mucosal
mucosanguineous
muco-
mucosas
muco-
mucose
mucos- 
mucoserous
muco-
mucosities
muco-
mucosity
muco-
mucosocalc- 
mucosogranular
muco-
mucopurulent
mucososaccharine
muco-
mucous
mucousness
muco-
mucoviscidosis
muco-
mucoviscoidosis
muco-
mucro
muco-
mucronate
muco-
mucronated
muco-
mucronately
muco-
mucronation
muco-
mucrones
muco-
mucroniferous
muco-
mucroniform
muco-
mucronulate
muco-
mucronulatous
muco-
muculent
muco-
mucus
muco-
mucuses
muco-
mucusin
muco-
mud
muco-
mudar
mudguards
mudhead
mudhole
mudhook
mudhopper
mudir
mudiria
mudirieh
mudland
mudlark
mudlarker
mudlarks
mudless
mudminnow
mudminnows
mudpack
mudproof
mudpuppies
mudpuppy
mudra
mudras
mudrock
mudrocks
mudroom
mudrooms
muds
mudsill
mudsills
mudskipper
mudsling
mudslinger
mudslingers
mudslinging
mudspate
mudspringer
mudstain
mudstone
mudstones
mudsucker
mudtrack
mudweed
mudwort
mueddin
mueddins
muenster
muensters
muermo
muesli
mujik
mujiks
mujahid
mukade
mukhtar
muklu
mukluks
muktar
muktatma
muktear
mukt
muktuk
mulada
muladi
mulapakriti
mulatta
mulatto
mulattoes
mulattoism
mulattos
mulattress
mulberries
mulberry
mulberry's
mulch
mulched
mulcher
mulches
mulching
mulet
mulettable
muletary
muletation
muletative
muletatory
muleted
mulcting
mulcts
muletuary
mulder
mule
mule's
muleback
muled
mulefoot
mulefooted
muleman
mulemen
mullets
mulley
mulleys
mullid
mulligan
mulligans
mulligatawny
mulligrubs
mulling
mullion
mullioned
mullioning
mullions
mullite
mullites
mullock
mullocker
mullocks
mullocky
mulloid
mulloway
mulls
mulm
mulmul
mulnnull
mulse
mulsify
mult
multangle
multangular
multangularly
multangularness
multangulous
multangulum
multanimous
multarticulate
muleity
multi
multiangular
multiareolate
multiarticular
multiarticulate
multiarticulated
multiaxial
multiaxially
multiband
multibirth
multibit
multiblade
multibladed
multiblock
multibranched
multibranchiate
multibreak
multibus
multibyte
multicamerate
multicapitate
multicapsular
multicarinate
multicarinated
multicast
multicasting
multicasts
multicelled
multicellular
multicellularity
multicentral
multicentrally
multicentric
multichannel
multichanneled
multichannelled
multicharge
multichord
multichrome
multicide
multiciliate
multiciliated
multicipital
multicircuit
multicircuited
multicoccous
multicoil
multicollinearity
multicolor
multicolored
multicolorous
multicoloured
multicomponent
multicomputer
multiconductor
multiconstant
multicordate
multicore
multicorneal
multicostate
multicourse
multicrystalline
multics
multicultural
multicurie
multicuspid
multicuspidate
multicuspidated
multicycle
multicylinder
multicylindered
multidentate
multidenticulate
multidenticulated
multidestination
multidigitate
multidimensional
multidimensionality
multidirectional
multidisciplinary
multidiscipline
multidisperse
multidrop
multiengine
multiengined
multiethnic
multiexhaust
multifaced
multifaceted
multifactor
multifactorial
multifactorially
multifamilial
multifamily
multifarious
multifariously
multifariousness
multiferous
multifetation
multifibered
multifibrous
multifid
multifidly
multifidous
multifidus
multifil
multifilament
multifistular
multifistulous
multiflagellate
multiflagellated
multiflash
multiflora
multiflorae
multifloras
multiflorous
multiflow
multiflue
multifocal
multifoil
multifoiled
multifold
multifoldness
multifoliate
multifoliolate
multifont
multiform
multiformed
multiformity
multiframe
multifunction
multifurcate
multiganglionic
multigap
multigerm
multigranular
multigranulate
multigranulated
multigraph
multigrapher
multigravida
multiguttulate
multigyrate
multihead
multihearth
multihop
multihue
multihull
multiinfection
multijet
multijugate
multijugous
multilaciniate
multilamellar
multilamellate
multilamellous
multilaminar
multilaminar
multilaminated
multilane
multilaned
multilateral
multilaterality
multilaterally
multilayer
multilayered
multileaving
multilevel
multileveled
multiiighted
multilineal
multilinear
multilingual
multilingualism
multilingually
multilingualist
multilirate
multilateral
multilith
multilobar
multilobate
multilobe
multilobed
multilobar
multilobulate
multilobulated
multilocation
multilocular
multiloculate
multiloculated
multiloquence
multiloquent
multiloquious
multiloquious
multiloquy
multimachine
multimaculare
multimammate
multimarble
multimascular
multimedia
multimedial
multimegaton
multimetalic
multimetallic
multimetallism
multimettallist
multimeter
multimicrocomputer
multimillion
multimillionaire
multimillionaires
multimodal
multimodality
multimode
multimolecular
multimotor
multimotored
multinational
multinationals
multinervate
multinervose
multinodal
multinode
multinode
multinodous
multinodular
multinominal
multinominal
multinominous
multinuclear
multinucleate
multinucleated
multinucleolar
multinucleolate
multinucleolated
multiovular
multiovulate
multiovulated
multipacket
multipara
multiparae
multiparient
multiparity
multiparous
multipartisan
multipartite
multiparty
multipass
multipath
multiped
multipede
multipeds
multiperforate
multiperforated
multipersonal
multiphase
multiphaser
multiphasic
multiphotography
multipinnate
multiplan
multiplane
multiplated
multiple
multiple's
multiplepoinding
multiples
multiplet
multiplex
multiplexed
multiplexer
multiplexers
multiplexes
multiplexing
multiplexor
multiplexor's
multiplexors
multipliable
multipliableness
multiplicability
multiplicable
multiplicand
multiplicand's
multiplicands
multiplicate
multiplication
multipicalational
multiplications
multiplicative
multiplicatively
multiplicatives
multiplicator
multiplicious
multiplicities
multiplicity
multiplied
multiplier
multisect
multisection
multisector
multisegmental
multisegmentate
multisegmented
multisense
multisensory
multisensual
multiseptate
multiserial
multiserially
multiserialise
multiserver
multishot
multisiliquous
multisonant
multisonic
multisonorous
multisonously
multisonorousness
multisonous
multispecies
multispeed
multispermous
multispicular
multispiculate
multispindle
multispindled
multispinous
multispiral
multispired
multistage
multistaminate
multistate
multistep
multistorey
multistoried
multistory
multistratified
multistratous
multistriate
multisulcate
multisulcated
multisyllabic
multisyllability
multisyllable
multisystem
multitagged
multitarian
multitask
multitasking
multitentacled
multitentaculate
multitester
multitheism
multitheist
multithread
multithreaded
multititular
multitoed
multitoned
multitube
multituberculate
multituberculated
multituberculism
multituberculy
multitubular
multitude
multitude's
multitudes
multitudinal
multitudinary
multitudinism
multitudinist
multitudinistic
multitudinosity
multitudinous
multitudinously
multitudinousness
multiturn
multiuser
multivagant
multivalence
multivalency
multivalent
multivalued
multivalve
multivalved
multivalvular
multivane
multivariant
multivariate
multivariates
multivarious
multiversant
multiverse
multiversion
multiversities
multiversity
multivibrator
multiview
multiviewing
multivincular
multivious
multivitamin
multivitamins
multivocal
multivocality
multivocalness
multivoiced
multivolent
multivoltine
multivolume
multivolumed
multivorous
multiwall
multiway
multiword
multiwords
multo
multocular
multum
multungulate
multure
multurer
multures
mulvel
mum
mumble
mumblebee
mumbled
mumblement
mumbler
mumblers
mumbles
mumbletypeg
mumbling
mumblingly
mumblings
mumbo
mumbudget
mumchance
mume
mumhouse
munjuma
mumm
mummed
mummer
mummeries
mummers
mummery
mummia
mummichog
mummick
mummied
mummies
mummification
mummified
mummifies
mummiform
mummify
mummifying
mumming
mumms
mummy
mummy's
mummydom
mummyhood
mummying
mummylike
mumness
mump
mumped
mumper
mumpers
mumphead
mumping
mumpish
mumpishly
mumpishness
mumps
mumpsimus
mumruffin
mums
mumsy
mun
munch
munchausen
munched
munchee
muncheel
municipal
municipalise
municipalism
municipalist
municipalities
municipality
municipality's
municipalization
municipalize
municipalized
municipalizer
municipalizing
municipally
municipia
municipium
munific
munificence
munificency
munificent
munificently
munificentness
munificence
munify
muniment
muniments
munite
munited
muniting
munition
munitionary
munitioned
munitioneer
munitioner
munitioning
munitions
munity
munj
munjeet
munjistin
muninion
munnings
muns
munshi
munisif
munisiff
munster
munsters
munt
murks
murksome
murky
murlack
murlain
murlemewes
murlin
murlock
murly
murmur
murmuration
murmurator
murmured
murmurer
murmurers
murmuring
murmuringly
murmurish
murmurless
murmurlessly
murmurous
murmurously
murmurs
murnival
muroid
muromontite
murphied
murphies
murphy
murphying
murr
murra
murrah
murrain
murrains
murrail
murraro
murras
murray
murre
murrelet
murrelets
murrees
murrey
murreys
murrha
murrhas
murrhine
musculatures
muscule
musculi
musculin
musculoarterial
musculocellular
musculocutaneous
musculodermic
musculoelastic
musculofibrous
musculointestinal
musculoligamentous
musculomembranous
musculopallial
musculophrenic
musculoskeletal
musculospinal
musculospiral
musculotegumentary
musculotendinous
musculus
muse
mused
museful
musefully
musefulness
museist
museless
muselessness
muselike
museographer
museographist
museography
museologist
museology
muser
musers
muser
muses
muset
musette
musettes
museum
museum's
museumize
museums
mush
musiclike
musicmonger
musico
musicartoistic
musicodramatic
musicofanatic
musicographer
musicography
musicological
musicologically
musicologies
musicologist
musicologists
musicologue
musicology
musicomania
musicomechanical
musicophile
musicophilosophical
musicophobia
musicophysical
musicopoetic
musicotherapies
musicotherapy
musicproof
musicry
musics
musie
musily
musimon
musing
musingly
mussings
musion
musit
musive
musjid
musjids
musk
muskadel
muskallonge
muskallunge
muskat
musked
muskeg
muskegy
muskegs
muskelunge
muskellunges
musket
musket's
musketade
musketeer
musketeers
musketlike
musketo
musketoon
musketproof
musketry
muskets
muskflower
muskgrass
muskie
muskier
muskies
muskiest
muskified
muskily
muskiness
muskish
muskit
muskits
musklike
muskmelon
muskmelons
muskogean
muskogee
muskone
muskox
muskoxen
muskrat
muskrat's
muskrats
muskroot
musks
muskwood
musky
muslim
muslins
muslin
muslined
muslinet
muslinette
muslins
musmon
musnud
muso
musophagine
musophobia
muspike
muspikes
musquash
musquashes
musquashroot
musquashweed
musquaspen
musquaw
musqueto
musrol
musroomed
muss
mussable
mussably
mussack
mussal
mussalchee
mussed
mussel
mussel's
musselcracker
mussedled
musseler
mussellim
mussels
musses
mussick
mussier
mussiest
mussily
mussiness
mussing
mussitate
mussitation
mussolini
mussuck
mussuk
mussulman
mussurana
mussy
must
mustache
mustached
mustaches
mustachial
mustachio
mustachioed
mustachios
mustafina
mustafuz
mustang
mustanger
mustangs
mustard
mustarder
mustards
musted
mustee
mustees
mustelid
mustelin
musteline
mustelinous
musteloid
muster
musterable
musterdevillers
mustered
musterer
musterial
mustering
mustermaster
musters
musth
musths
mustier
musties
mustiest
mustify
mustily
mustiness
musting
mustn't
mustnt
musts
mustulent
musty
musumee
mut
muta
mutability
mutable
mutableness
mutably
mutafacient
mutage
mutagen
mutagenesis
mutagenetic
mutagenic
mutagenically
mutagenicities
mutagenicity
mutagens
mutandis
mutant
mutants
mutarotate
mutarotation
mutase
mutases
mutate
mutated
mutates
mutating
mutation
mutational
mutationally
mutationism
mutationist
mutations
mutatis
mutative
mutator
mutatory
mutawalli
mutawallis
mutch
mutches
mutchkin
mutchkins
mute
muted
mutedly
mutedness
mutely
muteness
mutenesses
muter
mutes
mutoscope
mutoscopic
muts
mutsje
mutsuddy
mutt
mutten
mutter
muttered
mutterer
mutterers
muttering
mutteringly
mutters
mutton
muttonbird
muttonchop
muttonchops
muttonfish
muttonishes
muttonhead
muttonheaded
muttonheadedness
muttonhood
muttonmonger
muttons
muttonwood
muttony
mutts
mutual
mutualisation
mutualise
mutualised
mutualising
mutualism
mutualist
mutualistic
mutualities
mutuality
mutualization
mutualize
mutualized
mutualizing
mutually
mutualness
mutuals
mutuant
mutuary
mutuate
mutuatitious
mutuel
mutuels
mutular
mutulary
mutule
mutules
mutus
mutuum
mutwalli
muumuu
muumuus
muvule
mux
muyusa
muzarab
muzhik
muzhiks
muzik
muziks
muzoona
muzz
muzzier
muzziest
muzzily
muzziness
muzzle
muzzle's
muzzled
muzzleloader
muzzleloading
muzzler
muzzlers
muzzles
muzzlewood
muzzling
muzzy
mv
mw
mwalimu
mxd
my
myal
myalgia
myalgias
myalgic
myalia
mycodermatoid
mycodermatous
mycodermic
mycodermitis
mycodesmoid
mycodomatium
mycoflora
mycogastritis
mycohaemia
mycohemia
mycoid
mycol
mycologic
mycological
mycologically
mycologies
mycologist
mycologists
mycologize
mycology
mycomycete
mycomycetous
mycomycin
mycomyringitis
mycophagist
mycophagous
mycophagy
mycophyte
mycoplasma
mycoplasmal
mycoplastic
mycoprotein
mycorhiza
mycorhizal
mycorrhiza
mycorrhizae
mycorrhizal
mycorrhizic
mycorrhiizas
mycose
mycoses
mycosin
mycosis
mycosozin
mycostat
mycostatic
mycosterol
mycosymbiosis
mycotic
mycotoxic
mycotoxin
mycotropic
mycteria
mycteristic
mycophytic
mydalleine
mydatoxine
mydine
mydriasine
mydriasis
mydriatic
mydriatine
myectomy
myectoma
myectomy
myectopia
myectopy
myel
myelalgia
myelapoplexy
myelasthenia
myelatrophy
myelauxa
myelemia
myelencephala
myelencephalic
myelencephalon
myelencephalons
myelencephalous
myelic
myelin
myelinate
myelinated
myelination
myeline
myelines
myelinic
myelinization
myelinogenesis
myelinogenetic
myelinogeny
myelins
myelitic
myelitides
myelitis
myeloblast
myeloblastic
myelobrachium
myelocele
myelocerebellar
myelocele
myelocyst
myelocystic
myelocystocele
myelocyte
myelocythaemia
myelocythemia
myelocytic
myelocytosis
myelodiastasis
myeloencephalitis
myelofibrosis
myelofibrotic
myelganglitis
myelogenesis
myelogenetic
myelogenic
myelogonous
myelogonium
myelographic
myelographically
myelography
myeloic
myeloid
myelolymphangioma
myelolymphocyte
myeloma
myelomalacia
myelomas
myelomata
myelomatoid
myelomatosis
myelomatous
myelomenia
myelomeningitis
myelomeningocele
myelomere
myelon
myelonatal
myeloneuritis
myelonic
myeloparalysis
myelopathic
myelopathy
myelopetal
myelophthisis
myeloplast
myeloplastic
myeloplax
myeloplaxes
myeloplegia
myelopoiesis
myelopoietic
myeloproliferative
myelorrhagia
myelorrhaphy
myelosarcoma
myelosclerosis
myelospasm
myelospongium
myelosyphilis
myelosyphilosis
myelosyringosis
myelotherapy
myelozoan
myentasis
myenteric
myenteron
myesthesia
myg
mygale
mygalid
mygaloid
myiases
myiasis
myiferous
myodesopsia
myiosis
myitis
mykiss
mylar
myliobatid
myliobatine
myliobatoid
mylodei
mylodon
mylodont
mylohyoid
mylohyoidean
mylohyoidei
mylohyoideus
mylonite
mylonites
mylonitic
mym
mymarid
myna
mynah
mynahs
mynas
mynheer
mynheers
mynpacht
mynpachtbrief
myoalbumin
myoalbumose
myoatrophy
myoblast
myoblastic
myoblasts
myocardia
myocardiac
myocardial
myocardigram
myocardiograph
myocarditic
myocarditis
myocardium
myocdia
myocele
myocellulitis
myoclonic
myoclonus
myocoel
myocoele
mycoelom
myocolpitis
myocomma
myocommata
myocyte
myodegeneration
myodiastasis
myodynamia
myodynamic
myodynamics
myodynamometer
myoedema
myoelectric
myoendocarditis
myoenotomy
myoepicardial
myoepithelial
myofibril
myofibrilla
myofibrillar
myofibroma
myofilament
myogen
myogenesis
myogenetic
myogenic
myogenicity
myogenous
myoglobin
myoglobinuria
myoglobulin
myogram
myograph
myographer
myographic
myographical
myographically
myographist
myographs
myography
myohaematin
myohematin
myohemoglobin
myohemoglobinuria
myoid
myoidema
myoinositol
myokinesis
myokymia
myolemma
myolipoma
myoliposis
myoliposmias
myologic
myological
myologies
myologisral
myologist
myology
myolysis
myoma
myomalacia
myomancy
myomantic
myomas
myomata
myomatous
myomectomies
myomectomy
myomelanosis
myomere
myometritis
myometrium
myomohysterectomy
myomorph
myomorphic
myomotomy
myonema
myoneme
myoneural
myoneuralgia
myoneurasthenia
myoneure
myoneuroma
myoneurosis
myonosus
myopachynsis
myoparalysis
myopathia
myopathic
myopathies
myopathy
myope
myoperitonitis
myopes
myophan
myophore
myophorous
myophysical
myophysics
myopia
myopias
myopic
myopical
myopically
myopies
myoplasm
myoplastic
myoplasty
myopolar
myoporaceous
myoporad
myoproteid
myoprotein
myoproteose
myops
myopy
myorrhaphy
myorrhexis
myosalpingitis
myosarcoma
myosarcomatous
myosclerosis
myoscope
myoscopes
myoseptum
myoses
myosin
myosinogen
myosinose
myosins
myosis
myositic
myositis
myosote
myosotes
myosotis
myosotises
myospasm
myospasmia
myosuture
myosynizesis
myotacismus
myotasis
myotenotomy
myothermic
myotic
myotics
myotome
myotomes
myotomic
myotomies
myotomy
myotonia
myotonias
myotonic
myotonus
myotony
myotrophy
myowun
myoxine
myrabalanus
myrabolam
myrcene
myrcia
myriacanthous
myriacoulomb
myriad
myriaded
myriadfold
myriadly
myriads
myriadth
myriagram
myriagramme
myrialiter
myrialitre
myriameter
myriametre
myriapod
myriapodan
myriapodous
myriapods
myriarch
myriarchy
myriare
myrica
myricaceous
myricas
myricetin
myricin
myricyl
myricylic
myringa
myringectomy
myringitis
myringodectomy
myringodermatitis
myringomycosis
myringoplasty
myringotome
myringotomy
myriological
myriologist
myronic
myropolist
myrosin
myrosinase
myrothamnaceous
myrrh
myrrhed
myrrhic
myrrhine
myrrhol
myrrhophore
myrrhs
myrrhy
myrsinaceous
myrsinad
myrt
myrtaceous
myrtal
myrtiform
myrtle
myrtleberry
myrtlelike
myrtles
myrtol
myself
myself
mysell
mysid
mysidean
mysogynism
mysoid
mysophilia
mysophobia
mysosophist
mysost
mysosts
myst
mystacal
mystacial
mystacine
mystacinous
mystagog
mystagogic
mystagogical
mystagogically
mystagogos
mystagogue
mystagogy
mystax
mysterical
mysteriarch
mysteries
mysteriosophic
mysteriosophy
mysterious
mysteriously
mysteriousness
mysterize
mystery
mystery's
mystes
mystic
mystic's
mystical
mysticality
mystically
mysticalness
mysticete
mysticetous
mysticise
mysticism
mysticisms
mysticity
mysticize
mysticized
mysticizing
mysticly
mystics
mystific
mystifically
mystification
mystifications
mystificator
mystificatory
mystified
mystifiedly
mystifier
mystifiers
mystifies
mystify
mystifying
mystifyingly
mystique
mystiques
mytacism
myth
mythic
mythical
mythicalism
mythicality
mythically
mythicalness
mythicise
mythicised
mythiciser
mythicising
mythicism
mythicist
mythicization
mythicize
mythicized
mythicizer
mythicizing
mythification
mythified
mythifier
mythify
mythifying
mythism
mythist
mythize
mythland
mythmaker
mythmaking
mythoclast
mythoclastic
mythogeneses
mythogenesis
mythogeny
mythogonic
mythogony
mythographer
mythographies
mythographist
mythography
mythogreen
mythoheroic
mythohistoric
mythoi
mythol
mythologema
mythologer
mythologian
mythologic
mythological
mythologically
mythologies
mythologise
mythologist
mythologists
mythologization
mythologize
mythologized
mythologizer
mythologizing
mythologue
mythology
mythology's
mythomania
mythomaniac
mythometer
mythonomy
mythopastoral
mythopeic
mythopeist
mythopoeia
mythopoeic
mythopoeism
mythopoeist
mythopoeum
mythopoesis
mythopoesy
mythopoeum
mythopoet
mythopoetic
mythopoetical
mythopoetise
mythopoetised
mythopoetising
mythopoetize
mythopoetized
mythopoetizing
mythopoetry
mythos
myths
mythus
mytilacean
mytilaceous
mytilid
mytiliform
mytiloid
mytilotoxine
mytilus
myxa
myxadenitis
myxadenoma
myxaemia
myxamoeba
myxangitis
myxasthenia
myxedema
myxedemas
myxedematoid
myxedematous
myxedemic
myxemia
myxinoid
myxo
myxobacteriaceous
myxoblastoma
myxochondroma
myxochondrosarcoma
myxocystoma
myxocyte
myxocytes
myxedema
myxedemic
myxoenchondroma
myxofibroma
myxofibrosarcoma
myxoflagellate
myxogaster
myxogastric
myxogastrous
myxoglioma
myxoid
myxoinoma
myxolipoma
myxima
myxomas
myxomata
myxomatosis
myxomatous
myxomycete
myxomycetous
myxomyoma
myxoneuroma
myxopapilloma
myxophobia
myxophycean
myxopod
myxopodan
myxopodia
myxopodium
myxopodous
myxopoiesis
myxorrhea
myxosarcoma
myxospongian
myxospore
myxosporidian
myxosporous
myxotheca
myxoviral
myxovirus
myzodendraceous
myzont
myzostoma
myzostomatous
myzostome
myzostomous
mzee
mzungu
n
n'gana
n'importe
n's
n/a
n/f
na
naa
naam
nab
nabak
nabal
nabbed
nabber
nabbing
nabbug
nabby
nabcheat
nabis
nabk
nabl
nablac
nablasm
nablable
nablus
nabob
naboberies
nabobery
nabobess
nabobesses
nabobical
nabobically
nabobish
nabobishly
nabobism
nabobisms
nabobry
nabobry
nabobry
nabobry
nabobs
nabobship
naboth
nabs
nacarat
nacarine
nace
nacelle
nacelles
nach
nachani
nachas
nache
nacho
nachtmml
nachus
nacket
nacre
nacred
nacreous
nacreousness
nacres
nacrine
nacrite
nacrous
nacry
nad
nada
nadder
nadir
nadiral
nadirs
nadorite
nae
naebody
nagster
nagual
nagualism
nagualist
nagyagite
nahoor
nahuatl
nahuatls
nahum
naiad
naiadaceous
naiades
naiads
naiant
naib
naid
naif
naifly
naifs
naig
naigie
naigue
naik
nail
nailbin
nailbrush
nailed
nailer
naileress
nailers
nailery
nailfile
nailfold
nailfolds
nailhead
nailheads
nailing
nailless
naillike
nailprint
nailproof
nailrod
nails
nailset
nailsets
nailshop
nailsick
nailsickness
nailsmith
nailwort
naily
nain
nainsel
nainsell
nainsook
nainsooks
naio
naipkin
naique
naira
nairobi
nairy
nais
naish
naisko
naiskos
naissance
naissant
naither
naitly
naive
naively
naiveness
naiver
naives
naivest
naivete
naivetes
naiveties
naivetivet
naivity
naja
nak
nake
naked
nakeder
nakedest
nakedish
nakedize
nakedly
nakedness
nakedweed
nakedwood
naker
nakhlite
nakhod
nakhoda
nako
nakong
nakoo
nale
naled
naleds
nallah
nalorphine
naloxone
naloxones
nam
namability
namable
namaqua
namare
namaste
namatio
namaycush
namaz
namazlik
namban
namby
namda
name
nameability
nameable
nameboard
named
nameless
namelessness
nameling
namely
nameplate
nameplates
namer
namers
names
namesake
namesake's
namesakes
nametape
naming
namma
nammad
nanocephalia
nanocephalic
nanocephalism
nanocephalous
nanocephalus
nanocephaly
nanocurie
nanocuries
nanogram
nanograms
nanoid
nanoinstruction
nanoinstructions
nanomelia
nanomelous
nanomelus
nanometer
nanometre
nanoplankton
nanoprogram
nanoprogramming
nanosec
nanosecond
nanoseconds
nanosoma
nanosomia
nanosomus
nanostore
nanostores
nanowatt
nanowatts
nanoword
nanpie
nansomia
nant
nantage
nantonkite
nants
nantz
naoi
naological
naology
naometry
naomi
naos
nap
nap's
napa
naphtholsulphonate
naphtholsulphonic
naphthoquinone
naphthoresorcinol
naphthosalol
naphthous
naphthoxide
naphthyl
naphthylamine
naphthylaminesulphonic
naphthylene
naphthyllic
naphtol
naphtols
napier
napierian
napiform
napkin
napkin's
napkined
napkining
napkins
naples
napless
naplessness
napoleon
napoleonic
napoleonite
napoleons
napoo
napooh
nappa
nappe
napped
napper
nappers
nappes
nappie
nappier
nappies
nappiest
nappiness
napping
nappishness
nappy
naprapath
naprapathy
napron
naps
napthionic
napu
nar
narc
narcein
narceine
narceines
narceins
narcisci
narcism
narcisms
narciss
narcissan
narcissi
narcissine
narcissism
narcissist
narcissistic
narcissistically
narcissists
narcissus
narcissuses
narcist
narcistic
narcists
narco
narcoanalysis
narcoanesthesia
narcohypnia
narcohypnoses
narcohypnosis
narcohypnotic
narcolepsies
narcolepsy
narcoleptic
narcoma
narcomania
narcomaniac
narcomaniacal
narcomas
narcoma
narcomata
narcomatous
narcomedusan
narcos
narcose
narcoses
narcosis
naseberry
nasethmoid
nash
nashgab
nashgob
nashville
nasi
nasial
nasicorn
nasicornous
nasiform
nasilabial
nasillate
nasillation
nasioalveolar
nasiobregmatic
nasioinial
nasiomental
nasion
nasions
nasitis
naso
nasoalveola
nasoantral
nasobasilar
nasobronchial
nasobuccal
nasoccipital
nasociliary
nasoethmoidal
nasoethmoidal
nasofrontal
nasolabial
nasolachrymal
nasolacrimal
nasological
nasologist
nasology
nasomalar
nasomaxillary
nasonite
nasoorbital
nasopalatal
nasopalatine
nasopharyngeal
nasopharynges
nasopharyngitis
nasopharynx
nasopharynxes
nasoprognathic
nasoprognathism
nasorostral
nasoscope
nasoseptal
nasosinuitis
nasosinusitis
nasosubnasal
nasoturbinal
nasrol
nassellarian
nassology
nast
nastaliq
nastic
nastier
nastiest
nastika
nastily
nastiness
nasturtion
nasturtium
nasturtiums
nasty
nasus
nasute
nasuteness
nasutiform
nasutus
nat
natability
nataka
natal
natale
natalism
natalist
natalitial
natalities
natality
natally
nataloin
natals
natant
natantly
natation
natational
natations
natator
natatores
natatoria
natatorial
natatorious
natatorium
natatoriums
natatory
natch
natchbone
natchnee
nates
nathe
nathless
nathemo
nather
nathless
natica
naticiform
naticine
naticoid
naticoid
natimortality
nation
nation's
national
nationaliser
nationalism
nationalist
nationalist's
nationalistic
nationalistically
nationalists
nationalities
nationality
nationality's
nationalization
nationalizations
nationalize
nationalized
nationalizer
nationalizes
nationalizing
nationally
nationalness
nationals
nationalty
nationhood
nationless
neaten
neatened
neatening
neatens
neater
neatest
neath
neatherd
neatherdess
neatherds
neathmost
neatify
neatly
neatness
neatnesses
neats
neavil
neb
neback
nebalian
nebalioid
nebed
nebbish
nebbishes
nebbuck
nebuk
nebby
nebel
nebelist
nebenkern
nebraska
nebraskan
nebraskans
nebris
nebrodi
nebs
nebuchadnezzar
nebula
nebulae
nebular
nebularization
nebularize
nebulas
nebulated
nebulation
nebule
nebulescent
nebuliferous
nebulisation
nebulise
nebulised
nebuliser
nebulises
nebulising
nebulite
nebulium
nebulization
nebulize
nebulized
nebulizer
nebulizers
nebulizes
nebulizing
nebulon
nebulose
nebulosities
nebulosity
nebulosus
nebulous
nebulously
nebulousness
nebuly
necation
necessar
necessarian
necessarianism
necessaries
necessarily
necessariness
necessarium
necessarius
necessary
necesse
necessism
necessist
necessitarian
necessitarianism
necessitate
necessitated
necessitatedly
necessitates
necessitating
necessitatingly
necessitation
necessitative
necessities
necessitous
necessitously
necessitousness
necessitude
necessitudo
necessity
pecia
neck
nekar
neckatee
neckband
neckbands
neckcloth
necked
neckenger
neckrer
neckrcher
neckrchief
neckrchiefs
neckrchieves
neckful
neckguard
necking
neckinger
neckings
necklace
necklace's
necklaced
necklaces
necklaceweed
neckless
necklet
necklike
neckline
necklines
neckmold
neckmould
neckpiece
necks
neckstock
necktie
necktie's
necktieless
neckties
neckward
neckwear
neckwears
neckweed
neckyoke
necraemia
necrectomy
necremia
necro
necrobacillary
necrobacillosis
necrobiosis
necrobiotic
necrogenic
necrogenous
necrographer
necrolatry
necrologic
necrological
necrologically
necrologies
necrologist
necrologue
necrology
necromancer
necromancers
necromancing
necromancy
necromania
necromantic
necromantical
necromantically
necromimesis
necromorphous
necronite
necropathy
necrophagan
necrophagia
necrophagous
necrophagy
necrophil
necrophile
necrophilia
necrophiliac
necrophilic
necrophilism
necrophilistic
necrophilous
necrophily
necrophobia
necrophobic
necropoleis
neems
neencephala
neencephalic
neencephalon
neencephalons
neep
neepour
neeps
neer
neese
neet
neetup
neeze
nef
nefandous
nefandousness
nefarious
nefariously
nefariousness
nefas
nefast
nefastus
neffy
neftgil
neg
negara
negate
negated
negatedness
negater
negaters
negates
negating
negation
negational
negationalist
negationist
negations
negativate
negative
negatived
negatively
negativeness
negativer
negatives
negativing
negativism
negativist
negotiants
negotiate
negotiated
negotiates
negotiating
negotiation
negotiations
negotiator
negotiators
negotiatary
negotiatress
negotiatrix
negotiatrixes
negotious
negotiacion
negress
negrillo
negrine
negrita
negrito
negritude
negro
negrodom
negroes
negrohead
negrohood
negroid
negroids
negroish
negrolike
negrophil
negrophile
negrophilism
negrophobe
negrophobia
negros
negus
neguses
nehemiah
nehiloth
nehru
nei
neif
neifs
neigh
neighbor
neighbored
neighborer
nemaline
nemalite
nemas
nematelminth
nemathecce
nemathecia
nemathecial
nemathecium
nematelmint
nematic
nematicidal
nematicide
nematoblast
nematoblastic
nematoceran
nematocerous
nematocidal
nematocide
nematocyst
nematocystic
nematode
nematodes
nematodiasis
nematogen
nematogene
nematogenic
nematogenous
nematognath
nematognathous
nematogone
nematogonous
nematoid
nematoideal
nematoidal
nematological
nematologist
nematology
nematophyton
nematozooid
nembutal
nembutsu
nemean
nemertean
nemertian
nemertid
nemertine
nemertinean
nemertoid
nemeses
nemesia
nemesic
nemesis
nemine
nemo
nemoceran
nemocerous
nemophilia
nemophilist
nemophilous
nemophily
nemoral
nemoricole
nemoricoline
nemoricolous
nemos
nempne
nenarche
nene
nenes
nenta
nenuphar
neo
neoacademic
neoanthropic
neoarsphenamine
neoblastic
neobotanist
neobotany
neocene
neocerotic
neochristianity
neoclassic
neoclassical
neoclassically
neoclassicism
neoclassicist
neoclassicists
neocolonial
neocolonialism
neocolonialist
neocolonialists
neocolonially
neocomian
neoconcretist
neoconcretist
neoconservative
neoconstructivism
neoconstructivist
neocortex
neocortical
neocosmic
neocracy
neocriticism
neocubism
neocubist
neocyanine
neocyte
neocytosis
neodadaism
neodadaist
neodamode
neodidymium
neodiprion
neoeexpressionism
neoeexpressionist
neofascism
neofetal
neofetus
neoformation
neoformative
neogamous
neogamy
neogenesis
neogenetic
neognathic
neognathous
neogrammarian
neogrammatical
neographic
neohexane
neoholmia
neoholmium
neoiimpressionism
neoiimpressionist
neolalia
neolater
neolatry
neolith
neolithic
neoliths
neologian
neologianism
neologic
neological
neologically
neophilism
neophilological
neophilologist
neophobia
neophobic
neophrastic
neophyte
neophytes
neophytic
neophytrish
neophytism
neopine
neoplasia
neoplasm
neoplasma
neoplasms
neoplastic
neoplasticism
neoplasticist
neoplasties
neoplasty
neoplatonic
neoplatonism
neoprene
neoprenes
neorama
neorealism
neornithic
neossin
neossine
neossology
neossoptile
neostigmine
neostriatum
neostyle
neostyled
neostyling
neoteinia
neoteinic
neotenia
neotenic
neotenies
neotenous
neoteny
neoteric
neoterical
neoterically
neoterics
neoterism
neoterist
neoteristic
neoterize
neoterized
neoterizing
neothalamus
neotraditionalism
neotraditionalist
neotropical
neotype
neotypes
neovitalism
neovolcanic
neoyerterbium
neoza
neozoic
nep
nepal
nepalese
nepali
nepenthaceous
nepenthe
nepenthean
nepenthes
neper
nephalism
nephalist
nephalistic
nephanalysis
nephele
nepheligenous
nepheline
nephelinic
nephelineite
nephelinitic
nephelinitoid
nephelite
nepheleognosy
nepheloid
nephelometer
nephelometric
nephelometrical
nephelometrically
nephelometry
nephelorometer
nepheloscope
nephesh
nephew
nephew's
nephews
nephewship
nephilim
nephionic
nephogram
nephograph
nephological
nephologist
nephology
nephometer
nephophobia
nephoscope
nephphridia
nephradenoma
nephralgia
nephralgic
nephrapostasis
nephronia
nephrauxa
nephrectasia
nephrectasis
nephrectomies
nephrectomise
nephrectomised
nephrectomising
nephrectomize
nephrectomized
nephrectomizing
nephrectomy
nephrelcosis
nephremia
nephremphraxis
nephria
nephric
nephridia
nephridial
nephridiopore
nephridium
nephirim
nephritis
nephritis
nephritic
nephritis
nephritis
nephritises
nephroabdominal
nephrocardiac
nephrocele
nephrocoele
nephrocolic
nephrocolopexy
nephrocoloptosis
nephrocystitis
nephrocystosis
nephrocyte
nephrogastric
nephrogenetic
nephrogenic
nephrogenous
nephrogonaduct
nephrohydrosis
nephrohypertrophy
nephroid
nephrolith
nephrolithic
nephrolithosis
nephrolithotomies
nephrolithotomy
nephrologist
nephrology
nephrolysin
nephrolysis
nephrolytic
nephromalacia
nephromegaly
nephromere
nephron
nephroncus
nephrons
nephropharyngitis
nephropathic
nephropathy
nephropercutaneous
nephrophthisis
nephropore
nephroptosis
nephroptosis
nephropyelitis
nephropyeloplasty
nephropyosis
nephrrhagia
nephrrhaphy
nephros
nephrosclerosis
nephrosis
nephrostoma
nephrostome
nephrostomial
nephrostomous
nephrostomy
nephrotic
nephrotome
nephrotomies
nephrotomise
nephrotomize
nephrotomy
nephrotoxic
nephrotoxicity
nephrotoxin
nephrotuberculosis
nephrotyphoid
nephrotyphus
nephrozymosis
nepionic
nepit
nepman
nepmen
nepotal
nepote
nepotic
nepotious
nepotism
nepotisms
nepotist
nepotistic
nepotistical
nepotistically
nepotists
nepouite
nepquite
neptune
neptunian
neptunism
neptunist
neptunium
neral
nerd
neuraxial
neuraxis
neuraxitis
neuraxon
neuraxone
neuraxons
neurectasia
neurectasis
neurectasy
neurectome
neurectomic
neurectomy
neurectopia
neurectopy
neurenteric
neurepithelium
neurergic
neurexairesis
neurhypnology
neurhypnotist
neuriatry
neuric
neuridine
neurilema
neurilematic
neurilemma
neurilemmal
neurilemmatic
neurilemmatous
neurilemmitis
neurility
neurin
neurine
neurinoma
neurinomas
neurinomata
neurism
neuristor
neurite
neuritic
neuritics
neuritides
neuritis
neuritises
neuroactive
neuroanatomic
neuroanatomical
neuroanatomist
neuroanatomy
euroanotomy
neurobiological
neurobiologist
neurobiology
neurobiotactic
neurobiotaxis
neuroblast
neuroblastic
neuroblastoma
neurocanal
neurocardiac
neurocele
neurocelian
neurocental
neurocentral
neurocentrum
neurochemical
neurochemist
neurochemistry
neurochitin
neurochondrite
neurochord
neurochorioretinitis
neurocirculator
neurocirculatory
neurocity
neuroclonic
neurocoel
neurocoele
neurocoelian
neurocrine
neurocrinism
neurocyte
neurocytoma
neurodegenerative
neurodendrite
neurodendron
neurodermatitis
neurodermatosis
neurodermitis
neurodiagnosis
neurodynamic
neurodynia
neuroelectricity
neuroembryological
neuroembryology
neuroendocrine

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 6596
neuroendocrinology
neuroepidermal
neuroepithelial
neuroepithelium
neurofibril
neurofibrilla
neurofibrillae
neurofibrillar
neurofibrillary
neurofibroma
neurofibromatosis
neurofil
neuroganglion
neurogastralgia
neurogastric
neurogenesis
neurogenic
neurogenically
neurogenous
neuroglandular
neuroglia
neurogliac
neuroglial
neurogliar
neuroglic
neuroglioma
neurogliosis
neurogram
neurogrammic
neurographic
neurography
neurohistology
neurohormonal
neurohormone
neurohumor
neurohumoral
neurohypnology
neurohypnotic
neurohypnotism
neurohypophyseal
neurohypophysial
neurohypophysis
neuroid
neurokeratin
neurokyme
neurol
neurolemma
neuroleptanalgesia
neuroleptanalgesic
neuroleptic
neuroleptoanalgesia
neurolite
neurologic
neurological
eurologically
neurologies
neurologist
neurologists
neurologize
neurologized
neurology
neurolymph
neurolysis
neurolytic
neuroma
neuromalacia
neuromalakia
neuromas
neuromast
neuromastic
neuromata
neuromatosis
neuromatous
neuromere
neuromerism
neuromerous
neuromimesis
neuromimetic
neuromotor
neuromuscular
neuromusculature
neuromyelitis
neuromyic
neuron
neuron's
neuronal
neurone
neurones
neuronic
neuronism
neuronist
neuronophagia
neuronophagy
neurons
neuronym
neuronymy
neuroparalysis
neuroparalytic
neuropath
neuropathic
neuropathical
neuropathically
neuropathist
neuropathological
neuropathologist
neuropathology
neuropathy
neurophagy
neuropharmacologic
neuropharmacological
neuropharmacologist
neuropharmacology
neurophil
neurophile
neurophilic
neurophysiologic
neurophysiological
neurophysiologically
neurophysiologist
neurophysiology
neuropil
neuropile
neuroplasm
neuroplasmatic
neuroplasmic
neuroplasty
neuroplexus
neuropod
neuropodial
neuropodium
neuropodous
neuropore
neuropsychiatric
neuropsychiatrically
neuropsychiatrist
neuropsychiatry
neuropsychic
neuropsychical
neuropsychological
neuropsychologist
neuropsychology
neuropsychopathic
neuropsychopathy
neuropsychosis
neuropter
neuroptera
neuropteran
neuropterist
neuropteroid
neuropterological
neuropterology
neuropteron
neuropterous
neuroretinitis
neurorrhaphy
neuroorthopteran
neuroorthopterous
neurosal
neurosarcoma
neuroscience
neuroscientist
neurosclerosis
neurosecretion
neurosecretory
neurosensor
neuroses
neurosis
neuroskeletal
neuroskeleton
neurosome
neurospasm
neurospast
neurospargium
neurospora
neurosthenia
neurosurgeon
neurosurgeries
neurosurgery
neurosurgical
neurosuture
neurosynapse
neurosyphilis
neurotendinous
neurotension
neurotherapeutics
neurotherapist
neurotherapy
neurothlipsis
neurotic
neurotically
neuroticism
neuroticize
neurotics
neurotization
neurotome
neurotomical
neurotomist
neurotomize
neurotomy
neurotonic
neurotoxia
neurotoxic
neurotoxicity
neurotoxin
neurotransmission
neurotransmitter
neurotransmitters
neurotripsy
neurotrophic
neurotroph
neurotrophy
neurotropic
neurotropism
neurotropy
neurovaccination
neurovaccine
neurovascular
neurovisceral
neural
neurula
neurypnological
neurypnologist
neurypnology
neustic
neuston
neustonic
neustons
neut
neuter
neutercane
neuterdom
neutered
neutering
neuterlike
neuterly
neuterness
neuters
neutral
neutralise
neutralism
newsmagazine
newsman
newsmanmen
newsmen
newsmonger
newsmongering
newsmongery
newspaper
newspaper's
newspaperdom
newspaperese
newspaperish
newspaperized
newspaperman
newspapermen
newspapers
newspaperwoman
newspaperwomen
newspapery
newsppeak
newspeaks
newsprint
newsreader
newsreel
newsreels
newsroom
newsrooms
newsseet
newsstand
newsstands
newstand
newstands
newsteller
newsvendor
newsweek
newswoman
newswomen
newsworthiness
newsworthy
newswriter
newswriting
newsy
newt
newtake
newton
newtonian
newtonite
newtons
nickelising
nickelization
nickelize
nickelized
nickelizing
nickelled
nickellike
nickelling
nickelodeon
nickelodeons
nickelous
nickels
nickeltype
nicker
nickered
nickering
nickerpecker
nickers
nickery
nickey
nickeys
nicking
nickle
nickles
nicknack
nicknacks
nickname
nicknameable
nicknamed
nicknamee
nicknameless
nicknamer
nicknames
nicknaming
nickpoint
nickpot
nicks
nickstick
nickum
nicky
nicol
nicolaitan
nicolayite
nicolo
nicos
nicotia
nicotian
nicotiana
niggards
nigged
nigger
niggerdom
niggered
niggerfish
niggerfishes
niggergoose
niggerhead
niggerish
niggerism
niggerling
niggers
niggertoæ
niggerweed
niggery
nigget
nigging
niggle
niggled
niggler
nigglers
niggles
nigglng
nigglngly
nigglngs
niggly
niggot
niggra
niggun
nigh
nighed
nigher
nighest
nighhand
nighing
nighish
nighly
nighness
nighnesses
nighs
night
nightcap
nightcapped
nightcaps
nightchurr
nightclothes
nightclub
ninebarks
ninefold
nineholes
ninepegs
ninepence
ninepences
ninepennies
ninepenny
ninepin
ninepins
nines
ninescore
nineted
nineteen
nineteenfold
nineteens
nineteenth
nineteenthly
nineteenths
nineties
ninetieth
ninetieths
ninety
ninetyfold
ninetyish
ninetyknot
ninevite
ngle
ninhydrin
ninnies
ninny
ninnyhammer
ninnyish
ninnyism
ninnyship
ninnywatch
ninon
ninons
ninos
ninth
ninthly
ninths
nintu
ninut
niobate
niobe
niobic
niobite
nisei
niseis
nishiki
nisi
nisnas
nispero
nisse
nist
nisus
nit
nitch
nitchevi
nitchie
nitchies
nitency
nitent
nitently
niter
niterbush
nitered
nitering
niter
niter
niter
nitery
nither
nithing
nitid
nitidous
nitidulid
nitinol
nito
niton
nitons
nitos
nitpick
nitpicked
nitpicker
nitpickers
nitpicking
nitpicks
nitrarin
nitrarine
nitratline
nitrate
nitrated
nitrates
nitratine
nitrating
nitrating
nitrator
nitrators
nitre
nitred
nitures
nitrarieties
nitrarians
nitrals
nitric
nitrid
nitridation
nitride
nitrides
nitriding
nitridization
nitridize
nitrids
nitrification
nitrification
nitrinds
nitrification
nitrified
nitrifier
nitrifies
nitrify
nitrifying
nitril
nitrile
nitriles
nitrils
nitriry
nitrite
nitrates
nitrates
nitritoid
nitro
nitroalizarin
nitroamine
nitroanilin
nitroaniline
nitrobacteria
nitrobacterium
nitrobarite
nitrobenzene
nitrobenzol
nitrobenzole
nitrocalcite
nitrocellulose
nitrocellulosic
nitrochloroform
nitrocotton
nitroform
nitrofuran
nitrogelatin
nitrogelatine
nitrogen
nitrogenate
nitrogenation
nitrogenic
nitrogenisation
nitrogenise
nitrogenised
nitrogenising
nitrogenization
nitrogenize
nitrogenized
nitrogenizing
nitrogenous
nitrogelatin
nitrogelatine
nitroglycerin
nitrohydrochloric
nitrohydrochloric
nitrolamine
nitrolic
nitrolim
nitrolime
nitromagnesite
nitromannite
nitromannitol
nitromersol
nitrometer
nitromethane
nitrometric
nitromuriate
nitromuriatic
nitronaphthalene
nitroparaffin
nitrophenol
nitrophile
nitrophilous
nitrophyte
nitrophytic
nitroprussiate
nitroprussic
nitroprusside
nitros
nitrosamin
nitrosamine
nitrosate
nitrosification
nitrosify
nitrosite
nitroso
nitrosoamine
nitrosobacteria
nitrosobacterium
nitrosochloride
nitrososulphuric
nitrostarch
nitrosulphate
nitrosulphonic
nitrosulphuric
nitrosyl
nitrosyls
nitrosylsulfuric
nitrosylsulphuric
nitrotoluene
nitrotoluol
nitrotrichloromethane
nitrous
nitroxy1
niry1
nits
nitta
nitter
nittier
nittiest
nitty
nitwit
nitwits
nitwitted
nival
nivation
niveau
nivellate
nivellation
nivellator
nivellization
nivenite
niveous
nivermaise
nivicolous
nivosity
nogal
nogg
nogged
noggen
noggin
nogging
noggings
noggins
noggs
noghead
nogheaded
nogs
noh
nohex
nohow
noibwood
noil
noilage
noiler
noils
noily
noint
nointment
noir
noire
noires
noisance
noise
noised
noiseful
noisefully
noisefulness
noiseless
noiselessly
noiselessness
noise make
noise maker
noise makers
noise making
noise proof
noises
noisette
noisier
noisiest
noisily
noisiness
noising
noisome
nonabrasive
nonabrasively
nonabrasiveness
nonabridgable
nonabridgment
nonabrogable
nonabsentation
nonabsolute
nonabsolutely
nonabsoluteness
nonabsolution
nonabsolutist
nonabsolutistic
nonabsolutistically
nonabsorbability
nonabsorbable
nonabsorbency
nonabsorbent
nonabsorbents
nonabsorbing
nonabsorption
nonabsorptive
nonabstainer
nonabstainers
nonabstaining
nonabstemious
nonabstemiously
nonabstemiousness
nonabstention
nonabstract
nonabstracted
nonabstractedly
nonabstractedness
nonabstractly
nonabstractness
nonabusive
nonabusively
nonabusiveness
nonacademic
nonacademical
nonacademically
nonacademicalness
nonacademics
nonaccedence
nonacceding
nonacceleration
nonaccelerative
nonacceleratory
nonacoustically  
nonacquaintance  
nonacquaintanceship  
nonacquiescence  
nonacquiscent  
nonacquisently  
nonacquiescing  
nonacquisitive  
nonacquisitively  
nonacquisitiveness  
nonacquittal  
nonact  
nonactinic  
nonactinically  
nonaction  
nonactionable  
nonactionably  
nonactivation  
nonactivator  
nonactive  
nonactives  
nonactivities  
nonactivity  
nonactual  
nonactualities  
nonactuality  
nonactualness  
nonacuity  
nonaculeate  
nonaculeated  
nonacute  
nonacutely  
nonacuteness  
nonadaptability  
nonadaptable  
nonadaptableness  
nonadaptableness  
nonadaptation  
nonadaptational  
nonadapter  
nonadapting  
nonadaptive  
nonadaptor  
nonaddict  
nonaddicted  
nonaddicting  
nonaddictive  
nonadditive
nonadditivity
nonaddress
nonaddresser
nonadecane
nonadepth
nonadeptly
nonadeptness
nonadherence
nonadherent
nonadhering
nonadhesion
nonadhesive
nonadhesively
nonadhesiveness
nonadjacencies
nonadjacency
nonadjacent
nonadjacently
nonadjectival
nonadjectivally
nonadjectively
nonadjoining
nonadjournment
nonadjudicated
nonadjudication
nonadjudicative
nonadjudicatively
nonadjunctive
nonadjunctively
nonadjustability
nonadjustable
nonadjustably
nonadjuster
nonadjusive
nonadjustment
nonadjustor
nonadministrable
nonadministrant
nonadministrative
nonadministratively
nonadmiring
nonadmissibility
nonadmissible
nonadmissibleness
nonadmissibly
nonadmission
nonadmissions
nonadmissive
nonadmitted
nonadmittedly
nonadoptable
nonadopter
nonadoption
nonadorn
nonadorning
nonadornment
nonadult
nonadults
nonadvancement
nonadvantageous
nonadvantageously
nonadvantageousness
nonadventitious
nonadventitiously
nonadventitiousness
nonadventurous
nonadventurously
nonadventurousness
nonadverbial
nonadverbially
nonadverence
nonadverty
nonadvocacy
nonadvocate
nonaerated
nonaerating
nonaerobiotic
nonaesthetic
nonaesthetical
nonaesthetically
nonaffectation
nonaffecting
nonaffectingly
nonaffection
nonaffective
nonaffiliated
nonaffiliating
nonaffiliation
nonaffiliated
nonaffinities
nonaffinitive
nonaffinity
nonaffirmance
nonaffirmation
nonage
nonagenarian
nonagenarians
nonagenaries
nonagenary
nonagency
nonagent
nonages
nonagesimal
nonagglomerative
nonagglutinant
nonagglutinating
nonagglutinative
nonagglutinator
nonaggression
nonaggressive
nonagon
nonagons
nonagrarian
nonagreeable
nonagreement
nonagricultural
nonahydrate
nonaid
nonair
nonalarmist
nonalcohol
nonalcoholic
nonalgebraic
nonalgebraical
nonalgebraically
nonalien
nonalienating
nonalienation
nonalignable
nonaligned
nonalignment
nonaligned
nonalinement
nonalkaloid
nonalkaloidal
nonallegation
nonallegiance
nonallegoric
nonallegorical
nonallegorically
nonallelic
nonallergic
nonalliterated
nonalliterative
nonalliteratively
nonalliterativeness
nonallotment
nonalluvial
nonalphabetic
nonalphabetical
nonalphabetically
nonalternating
nonaltruistic
nonaltruistically
nonaluminous
nonamalgamable
nonamazedness
nonamazement
nonambiguities
nonambiguity
nonambiguous
nonambitious
nonambitiously
nonambitiousness
nonambulaties
nonambulatory
nonamenability
nonamenable
nonamenableness
nonamenable
nonamendable
nonamendment
nonamino
nonamorous
nonamoriously
nonamorousness
nonamotion
nonamphibian
nonamphibious
nonamphibiously
nonamphibiousness
nonamputation
nonanachronistic
nonanachronistically
nonanachronous
nonanachronously
nonanaemic
nonanalogic
nonanalogical
nonanalogically
nonanalogicalness
nonanalogous
nonanticipatively
nonanticipatorily
nonanticipatory
nonantigenic
nonaphasiac
nonaphasic
nonaphetic
nonaphoristic
nonaphoristically
nonapoletic
nonapologetical
nonapologetically
nonapostatizing
nonapostolic
nonapostolical
nonapostolically
nonapparent
nonapparently
nonapparentness
nonapparitional
nonappealability
nonappeachable
nonappealing
nonappealingly
nonappealingness
nonappearance
nonappearances
nonappearer
nonappearing
nonappeasability
nonappeasable
nonappeasing
nonappellate
nonappendance
nonappendant
nonappendence
nonappendent
nonappendicular
nonapplicability
nonapplicable
nonapplicableness
nonapplicableness
nonapplicableness
nonapplicative
nonapplicatory
nonapply
nonappointive
nonappointment
nonappportionable
nonappportionment
nonapposable
nonappraisal
nonappreciation
nonappreciative
nonappreciatively
nonappreciativeness
nonprehensibility
nonprehensible
nonprehension
nonprehensive
nonapproachability
nonapproachable
nonapproachableness
nonapproachableness
nonappropriable
nonappropriation
nonappropriative
nonapproval
nonaquatic
nonaqueous
nonarbitrable
nonarbitrarily
nonarbitrariness
nonarbitrary
nonarching
nonarchitectonic
nonarchitectural
nonarchitecturally
nonarcing
nonarcking
nonargentiferous
nonarguable
nonargumentative
nonargumentatively
nonargumentativeness
nonaries
nonaristocratic
nonaristocratical
nonaristocratically
nonarithmetic
nonarithmetical
nonarithmetically
nonarmament
nonarmigerous
nonaromatic
nonaromatically
nonarraigment
nonarresting
nonarrival
nonarrogance
nonarrogancy
nonarsenic
nonarsenical
nonarterial
nonartesian
nonarticulate
nonarticulated
nonarticulately
nonarticulateness
nonarticulation
nonarticulative
nonartistic
nonartistical
nonartistically
nonary
nonas
nonasbestine
nonascendance
nonascendancy
nonascendant
nonascendantly
nonascendence
nonascendancy
nonascendent
nonascendently
nonascertainable
nonascertainableness
nonascertainably
nonascertaining
nonascertainment
nonascetic
nonascetical
nonascetically
nonasceticism
nonascription
nonaseptic
nonaseptically
nonaspiration
nonasphalt
nonaspirate
nonaspirated
nonaspirating
nonaspiratory
nonaspiring
nonastronomic
nonastronomical
nonastronomically
nonatheistic
nonatheistical
nonatheistically
nonathlete
nonathletic
nonathletically
nonatmospheric
nonatmospherical
nonatmospherically
nonatomic
nonatomical
nonatomically
nonatonement
nonatrophic
nonatrophied
nonattached
nonattachment
nonattacking
nonattainability
nonattainable
nonattainment
nonattendance
nonattendant
nonattention
nonattestation
nonattribution
nonattributive
nonattributively
nonattributiveness
nonaudibility
nonaudible
nonaudibleness
nonaudibly
nonaugmentative
nonaucicular
nonauciferous
nonautentic
nonautentical
nonautenticated
nonautentication
nonautenticity
nourtative
nourtatively
nourtativeness
nonautobiographical
nonautobiographically
nonautomated
nonautomatic
nonautomatically
nonautomotive
nonautonomous
nonautonomously
nonautonomouslyness
nonavailability
nonavoidable
nonavoidableness
nonavoidably
nonavoidance
nonaxiomatic
nonaxiomatical
nonaxiomatically
nonazotized
nonbachelor
nonbacterial
nonbacterially
nonbailable
nonballoting
nonbanishment
nonbank
nonbankable
nonbarbarian
nonbarbaric
nonbarbarous
nonbarbarously
nonbarbarousness
nonbaronial
nonbase
nonbasement
nonbasic
nonbasing
nonbathing
nonbearded
nonbearing
nonbeatific
nonbeatifically
nonbeauties
nonbeauty
nonbeing
nonbeings
nonbelief
nonbeliever
nonbelievers
nonbelieving
nonbelievingly
nonbelligerency
nonbelligerent
nonbelligerents
nonbending
nonbeneficed
nonbeneficence
nonbeneficient
nonbeneficently
nonbeneficial
nonbeneficially
nonbeneficialness
nonbenevolence
nonbenevolent
nonbenevolently
nonbetrayal
nonbeverage
nonbiased
nonbibulous
nonbibulously
nonbibulousness
nonbigoted
nonbigotedly
nonbilabiate
nonbilious
nonbiliously
nonbiliousness
nonbillable
nonbinding
nonbindingly
nonbindingness
nonbinomial
nonbiodegradable
nonbiographical
nonbiographically
nonbiological
nonbiologically
nonbiting
nonbitter
nonbituminous
nonblack
nonblamable
nonblamableness
nonblamably
nonblameful
nonblamefully
nonblamefulness
nonblameless
nonbrowsing
nonbrutal
nonbrutally
nonbudding
nonbulbaceous
nonbulbar
nonbulbiferous
nonbulbous
nonbulkhead
nonbuoyancy
nonbuoyant
nonbuoyantly
nonburdensome
nonburdensomely
nonburdensomeness
nonbureaucratic
nonbureaucratically
nonburgage
nonburgess
nonburnable
nonburning
nonbursting
nonbusily
nonbusiness
nonbusy
nonbusyness
nonbuttressed
nonbuying
noncabinet
noncadenced
noncadent
noncaffeine
noncaffeinic
noncaking
noncalcareous
noncalcified
noncalculable
noncalculably
noncalculating
noncalculative
noncallability
noncallable
noncaloric
noncalumniating
noncalumnious
noncancelable
noncancellable
noncancellation
noncancerous
noncandescence
noncandescent
noncandescently
noncandidate
noncannibalistic
noncannibalistically
noncannonical
noncanonical
noncanonization
noncanvassing
noncapillaries
noncapillarity
noncapillary
noncapital
noncapitalist
noncapitalistic
noncapitalistically
noncapitalized
noncapitulation
noncapricious
noncapriciously
noncapriciousness
noncapsizable
noncaptious
noncaptiously
noncaptiousness
noncapture
noncarbohydrate
noncarbolic
noncarbon
noncarbonate
noncarbonated
noncareer
noncarnivorous
noncarnivorous
noncarnivorousness
noncarrier
noncartelized
noncash
noncaste
noncastigating
noncastigation
noncasual
noncasuistic
noncasuistical
noncasuistically
noncataclysmal
noncataclysmic
noncataloguer
noncatalytic
noncatalytically
noncatarrhal
noncatastrophic
noncategorical
noncategorically
noncategoricalness
noncathartic
noncathartical
noncathedral
noncatholicity
noncausable
noncausal
noncausality
noncausally
noncausation
noncausative
noncausatively
noncausativeness
noncaustic
noncaustically
nonce
noncelebration
noncelestial
noncelestially
noncellular
noncellulosic
noncellulous
noncensored
noncensorious
noncensoriously
noncensoriousness
noncensurable
noncensurableness
noncensurably
noncensus
noncentral
noncentrally
noncereal
noncerebral
nonceremonial
nonceremonially
nonceremonious
nonceremoniously
nonceremoniousness
noncertain
noncertainties
noncertainty
noncertification
noncertified
noncertitude
nonces
nonchafing
nonchalance
nonchalant
nonchalantly
nonchalantness
nonchalky
nonchallenger
nonchallenging
nonchampion
nonchangeable
nonchangeableness
nonchangeably
nonchanging
nonchanneled
nonchannelized
nonchaotic
nonchaotically
noncharacteristic
noncharacteristically
noncharacterized
nonchargeable
noncharismatic
noncharitable
noncharitableness
noncharitably
nonchastisement
nonchastity
nonchemical
nonchemist
nonchimeric
nonchimerical
nonchimerically
nonchivalric
nonchivalric
nonchivalrous
nonchivalrously
nonchivalrousness
nonchokable
nonchokebore
noncholeric
nonchromatic
nonchromatically
nonchromosomal
nonchronic
nonchronical
nonchronically
nonchronological
nonchurch
nonchurched
nonchurchgoer
nonchurchgoing
nonciliate
nonciliated
noncircuit
noncircuital
noncircuited
noncircuitous
noncircuitously
noncircuitousness
noncircular
noncircularly
noncirculating
noncirculation
noncirculatory
noncircumscribed
noncircumscriptive
noncircumspect
noncircumspectly
noncircumspectness
noncircumstantial
noncircumstantially
noncircumvallated
noncitable
noncitation
nonciteable
noncitizen
noncivilian
noncivilizable
noncivilized
nonclaim
nonclaimable
nonclamorous
nonclamorously
nonclarifiable
nonclarification
nonclarified
nonclassable
nonclassic
nonclassical
nonclassicality
nonclassically
nonclassifiable
nonclassification
nonclassified
nonelastic
nonclearance
noncleistogamic
noncleistogamous
nonclergyable
nonclerical
nonclerically
nonclerics
nonclimactic
nonclimatical
nonclimbable
nonclimbing
nonclinging
nonclinical
nonclinically
noncloistered
nonclose
nonclosely
nonclosure
nonclotting
noncoagulability
noncoagulable
noncoagulating
noncoagulation
noncoagulative
noncoalescence
noncoalescent
noncoalescing
noncock
noncodified
noncoercible
noncoercion
noncoercive
noncoercively
noncoerciveness
noncogency
noncognitive
noncogent
noncogently
noncognate
noncognition
noncognitive
noncognizable
noncombatants
noncombative
noncombination
noncombinative
noncombining
noncombustibility
noncombustible
noncombustible
noncombustible
noncombustion
noncombustive
noncome
noncomic
noncomical
noncomicality
noncomically
noncomicalness
noncoming
noncommemoration
noncommemorative
noncommemoratively
noncommemoratory
noncommencement
noncommendable
noncommendable
noncommendably
noncommendatory
noncommensurable
noncommercial
noncommerciality
noncommercially
noncommiseration
noncommiserative
noncommiseratively
noncommissioned
noncommitally
noncommitment
noncommittal
noncommittalism
noncommittally
noncommittalness
noncommitted
noncommendious
noncommendiously
noncommendiousness
noncommemorable
noncommorancy
noncommunal
noncommunally
noncommunicability
noncommunicable
noncommunicableness
noncommunicant
noncommunicating
noncommunication
noncommunicative
noncommunicatively
noncommunicativeness
noncommunion
noncommunist
noncommunistic
noncommunistical
noncommunistically
noncommunists
noncommutative
noncompearance
noncompensable
noncompensating
noncompensation
noncompensative
noncompensatory
noncompetency
noncompetent
noncompetently
noncompeting
noncompetitive
noncompetitively
noncompetitiveness
noncomplacence
noncomplacencies
noncomplacency
noncomplacent
noncomplacently
noncomplaisance
noncomplaisant
noncomplaisantly
noncompletion
noncompliance
noncompliant
noncomplicities
noncomplicity
noncomplying
noncomplying
noncompos
noncomposes
noncomposite
noncompositely
noncompositeness
noncomposure
noncompound
noncompoundable
noncompounder
noncomprehendible
noncomprehending
noncomprehendingly
noncomprehensible
noncomprehensibility
noncomprehensibility
noncomprehensively
noncomprehensiveness
noncompressibility
noncompressible
noncompression
noncompressive
noncompressively
noncompromised
noncompromising
noncompulsion
non compulsive
non compulsively
non compulsorily
non compulsoriness
non compulsory
non computation
noncoms
noncon
nonconcealment
non conceiving
non concentrated
non concentratiness
non concentration
non concentrative
non concentrativeness
non concentric
non concentrical
non concentrically
non concentricity
nonconception
nonconceptual
non conceptually
non concern
noncession
non concessive
non conciliating
nonconfident
nonconfidently
nonconfiding
nonconfined
nonconfinement
nonconfining
nonconfirmation
nonconfirmative
nonconfirmatory
nonconfirming
nonconfiscable
nonconfiscation
nonconfiscatory
nonconfident
nonconflicting
nonconflictive
nonconform
nonconformability
nonconformable
nonconformably
nonconformance
nonconformer
nonconformest
nonconforming
nonconformism
nonconformist
nonconformistical
nonconformistically
nonconformists
nonconformitant
nonconformity
nonconfrontation
nonconfutation
noncongealing
noncongenital
noncongestion
noncongestive
noncongratulatory
noncongregative
noncongruence
noncongruency
noncongruent
noncongruently
noncongruities
noncongruity
noncongruous
noncongruously
noncongruousness
nonconjecturability
nonconjecturably
nonconjectural
nonconjugal
nonconjugality
nonconjugally
nonconjugate
nonconjugation
nonconjunction
nonconjunctive
nonconjunctively
nonconnection
nonconnective
nonconnectively
nonconnectivity
nonconivance
nonconivence
nonconnotative
nonconnotatively
nonconnubial
nonconnubiality
nonconnubially
nonconscientious
nonconscientiously
nonconscientiousness
nonconscious
nonconsciously
nonconsciousness
nonconscriptable
nonconscription
nonconsecration
nonconsecutive
nonconsecutively
nonconsecutiveness
nonconsent
nonconsenting
nonconsequence
nonconsequent
nonconsequential
nonconsequentiality
nonconsequentially
nonconsequentialness
noncontinuousness
noncontraband
noncontrabands
noncontraction
noncontractual
noncontradiction
noncontradictories
noncontradictory
noncontrariety
noncontrastable
noncontrastive
noncontributable
noncontributing
noncontribution
noncontributive
noncontributively
noncontributiveness
noncontributor
noncontributories
noncontributory
noncontrivance
noncontrollable
noncontrollableness
noncontrollably
noncontrollably
noncontrolled
noncontrolling
noncontroversial
noncontroversially
noncontumacious
noncontumaciously
noncontumaciousness
nonconvective
nonconvectively
nonconvendable
nonconventional
nonconventionally
nonconvergence
nonconergency
nonconvergent
nonconvergently
nonconverging
nonconversable
nonconversableness
nonconversably
nonconversance
nonconversancy
nonconversant
nonconversantly
nonconversational
nonconversationally
nonconversion
nonconvertibility
nonconvertible
nonconvertibleness
nonconvertibly
nonconveyance
nonconviction
nonconvivial
nonconviviality
nonconvivially
noncooperating
noncooperation
noncooperationist
noncooperative
noncooperator
noncoordinating
noncoordination
noncoplanar
noncopying
noncoring
noncorporate
noncorporately
noncorporation
noncorporative
noncorporeal
noncorporeality
noncorpuscular
noncorrection
noncorrectional
noncorrective
noncorrectively
noncorrelating
noncorrelation
noncorrelative
noncorrelatively
noncorrespondence
noncorrespondent
noncorresponding
noncorrespondingly
noncorroborating
noncorroboration
noncorroborative
noncorrobatorially
noncorroboratory
noncorrodible
noncorroding
noncorrosive
noncorrosively
noncorrosiveness
noncorrupt
noncorrupter
noncorruptibility
noncorruptible
noncorruptibleness
noncorruptibly
noncorruption
noncorruptive
noncorruptly
noncorruptness
noncortical
noncortically
noncosmic
noncosmically
noncosmopolitan
noncosmopolitanism
noncosmopolite
noncosmopolitism
noncostraight
noccotagger
noncotyledonal
noncotyledonary
noncotyledonous
noncounteractive
noncounterfeit
noncounty
noncovetous
noncovetously
noncovetousness
noncranking
noncreation
noncreative
noncreatively
noncreativeness
noncreativity
noncredence
noncredent
noncredibility
noncredible
noncredibleness
noncredibly
noncredit
noncreditable
noncreditableness
noncreditably
noncreditor
noncredulous
noncredulously
noncredulousness
noncreeping
noncrenate
noncrenated
noncretaceous
noncriminal
noncriminality
noncriminally
noncrinoid
noncritical
noncritically
noncriticalness
noncriticizing
noncrossover
noncrucial
noncrucially
noncruciform
noncruciformly
noncrusading
noncrushability
noncrushable
noncrustaceous
noncryptic
noncryptical
noncryptically
noncrystalline
noncrystallizable
noncrystallized
noncrystallizing
nonculminating
nonculmination
nonculpability
nonculpable
nonculpableness
nonculpably
noncultivability
noncultivable
noncultivatable
noncultivated
noncultivation
noncultural
nonculturally
nonculture
noncultured
noncumbrous
noncumbrously
noncumbrousness
noncumulative
noncumulatively
noncurantist
noncurative
noncuratively
noncurativeness
noncurdling
noncuriosit
noncurious
noncuriously
noncuriousness
noncurling
noncurrency
noncurrent
noncurrently
noncursive
noncursively
noncurtailing
noncurtainment
noncuspidate
noncuspidated
noncustodial
noncustomarily
noncustomary
noncutting
noncyclic
noncyclical
noncyclically
nonda
nondairy
nondamageable
nondamaging
nondamagingly
nondamnation
nondancer
nondangerous
nondangerously
nondangerousness
nondark
nondativa
nondeadly
nondeaf
nondeafened
nondeafening
nundeafeningly
nondecorative
nondecorous
nondecorously
nondecorousness
nondecreasing
nondedication
nondedication
nondedicationary
nondeducible
nondeductibility
nondeductible
nondeduction
nondeductive
nondeductively
nondeep
nondefalcation
nondefamatory
nondefaulting
nondefeasance
nondefeasibility
nondefeasible
nondefeasibleness
nondefeasibleness
nondefeasible
nondefeasible
nondexeasibleness
nondexeasibles
nondexeat
nondetecting
nondetection
nondetective
nondetectively
nondetectiveness
nondector
nondedendant
nondedense
nondedensibility
nondedensible
nondedensiblesness
nondedensibly
nondedensive
nondedensively
nondedensiveness
nondederable
nondedereence
nondedereent
nondedereential
nondedereentialy
nondedereable
nondedereance
nondedereance
nondedereantly
nondedereant
nondefiantness
nondeficiencies
nondeficiency
nondeficient
nondeficiently
nondefilement
nondefiling
nondefinability
nondefinable
nondefinably
nondefined
nondefiner
nondefining
nondefinite
nondefinitely
nondefiniteness
nondefinition
nondefinitive
nondefinitively
nondefinitiveness
nondeflation
nondeflationary
nondeflected
nondeflection
nondefective
nondeforestation
nondeformation
nondeformed
nondeformities
nondeformity
nondefunct
nondegeneracies
nondegeneracy
nondegenerate
nondegenerately
nondegenerateness
nondegeneration
nondegenerative
nondegerming
nondegradation
nondegrading
nondegreased
nondehiscent
nondeist
nondeistic
nondeistical
nondeistically
nondelegable
nondelegate
nondelegation
nondeleterious
nondeleteriously
nondeleteriousness
nondeliberate
nondeliberately
nondeliberateness
nondeliberation
nondelicate
nondelicately
nondelicateness
nondelination
nondelinative
nondelinquent
nondeliquescent
nondelirious
nondeliriously
nondeliriousness
nondeliverance
nondeliveries
nondelivery
nondeluded
nondeluding
nondelusive
nondemand
nondemanding
nondemise
nondemobilization
nondemocracies
nondemocracy
nonDemocratic
nondemocratically
nondemolition
nondemonstrability
nondemonstrable
nondemonstrableness
nondemonstrably
nondemonstration
nondemonstrative
nondemonstratively
nondemonstrativeness
nondendroid
nondendroidal
nondenial
nondenominational
nondenominationalism
nondenominationally
nondenotative
nondenotatively
nondense
nondenseness
nondensity
nondenumerable
nondenunciating
nondenunciation
nondenunciative
nondenunciatory
nondeodorant
nondeodorizing
nondepartmental
nondepartmentally
nondeparture
nondependability
nondependable
nondependableness
nondependably
nondependance
nondependancies
nondependancy
nondependence
nondependencies
nondependency
nondependent
nondepletion
nondepletive
nondepletory
nondeportation
nondeported
nondeposition
nondepositor
nondepravation
nondepraved
nondepravities
nondepravity
nondeprecating
nondeprecatingly
nondeprecative
nondepreciatively
nondeprecatorily
nondeprecatory
nondepreciable
nondepreciating
nondepreciation
nondepreciative
nondepreciatively
nondepreciatory
nondepressed
nondepressing
nondepressingly
nondepression
nondepressive
nondepressively
nondeprivable
nondeprivation
nonderelict
nonderisible
nonderisive
nonderivability
nonderivable
nonderivative
nonderivatively
nonderogation
nonderogative
nonderogatively
nonderogatorily
nonderogatoriness
nonderogatory
nondescribable
nondescript
nondescriptive
nondescriptively
nondescriptiveness
nondescriptly
nondesecration
nondesignate
nondesignative
nondesigned
nondesire
nondesirous
nondesistance
nondesistence
nondesisting
nondespotic
nondespotically
nondesquamative
nondesquamation
nondesstruction
nondestructive
nondestructively
nondestructiveness
nondesulfurization
nondesulfurized
nondesulphurized
nondetachability
nondetachable
nondetachment
nondetailed
nondetention
nondeterioration
nondeterminable
nondeterminacy
nondeterminant
nondeterminate
nondeterminately
nondetermination
nondeterminative
nondeterminatively
nondeterminativeness
nondeterminism
nondeterminist
nondeterministic
nondeterministically
nondeterrent
nondetest
nondetinet
nondetonating
nondetractive
nondetractively
nondetractory
nondetrimental
nondetrimentally
nondevelopable
nondeveloping
nondevelopment
nondevelopmental
nondevelopmentally
nondeviant
nondeviating
nondeviation
nondevious
nondeviously
nondeviousness
nondevotional
nondevotionally
nondevout
nondevoutly
nondevoutness
nondexterity
nondexterous
nondexterously
nondexterousness
nondextrous
nondiabetic
nondiabolic
nondiabolical
nondiabolically
nondiabolicalness
nondiagnosis
nondiagonal
nondiagonally
nondiagonally
nondiagrammatic
nondiagrammatical
nondiagrammatically
nondialectal
nondialectally
nondialectic
nondialectical
nondialectically
nondialyzing
nondiametral
nondiametrally
nondiaphanous
nondiaphanously
nondiaphanousness
nondiastatic
nondiastatic
nondiathermanous
nondiazotizable
nondichogamic
nondichogamous
nondichogamy
nondichotomous
nondichotomously
nondiction
nondictatorial
nondictatorially
nondictatorialness
nondictionary
nondidactic
nondidactically
nondietetic
nondietetically
nondieting
nondifferentation
nondifferentiable
nondifferentiation
nondifficult
nondiffidence
nondiffident
nondiffidently
nondiffractive
nondiffractively
nondiffractiveness
nondiffuse
nondiffused
nondiffusible
nondiffusibleness
nondiffusibly
nondiffusing
nondiffusion
nondigestibility
nondigestible
nondigestibleness
nondigestibly
nondigesting
nondigestion
nondigestive
nondilapidated
nondilatability
nondilatable
nondilation
nondiligence
nondiligent
nondiligently
nondilution
nondimensioned
nondiminishing
nondocean
nondiphtherial
nondiphtheric
nondiphtheritic
nondiphthongal
nondiplomacy
nondiplomatic
nondiplomatically
nondipterous
nondirection
nondirectional
nondirective
nondirigibility
nondirigible
nondisagreement
nondisappearing
nondisarmament
nondisastrous
nondisastrously
nondisastrousness
nondisbursable
nondisbursed
nondisbursement
nondiscerning
nondiscernment
nondischarging
nondisciplinable
nondisciplinary
nondisciplined
nondisciplining
nondisclaim
nondisclosure
nondiscontinuance
nondiscordant
nondiscountable
nondiscoverable
nondiscoveries
nondiscovery
nondiscretionary
nondiscriminating
nondiscriminatingly
nondiscrimination
nondiscriminative
nondiscriminatively
nondiscriminatory
nondiscursive
nondiscurvously
nondiscursiveness
nondiscussion
nondiseased
nondisestablishment
nondisfigurement
nondisfranchised
nondisguised
nondisingenuous
nondisingenuously
nondisingenuousness
nondisintegrating
nondisintegration
nondisinterested
nondisjunct
nondisjunction
nondisjunctional
nondisjunctive
nondisjunctively
nondismemberment
nondismissal
nondisparaging
nondisparate
nondisparately
nondisparateness
nondisparities
nondisparity
nondispensable
nondispensation
nondispensational
nondispensible
nondispersal
nondispersion
nondispersive
nondisposable
nondisposed
nondisputatious
nondisputatiously
nondisputatiousness
nondisqualifying
nondisrupting
nondisruptingly
nondisruptive
nondissent
nondissenting
nondissidence
nondissident
nondissipated
nondissipatedly
nondissipatedness
nondissipative
nondissolution
nondissolving
nondistant
nondistillable
nondistillation
nondistinctive
nondistinguishable
nondistinguishableness
nondistinguishably
nondistinguished
nondistinguishing
nondistorted
nondistortedly
nondistortedness
nondistorting
nondistortingly
nondistortion
nondistortive
nondistracted
nondistractedly
nondistracting
nondistractingly
nondistractive
nondistribution
nondistributional
nondistributive
nondistributively
nondistributiveness
nondisturbance
nondisturbing
nondivergence
nondivergences
nondivergency
nondivergent
nondivergently
nondiverging
nondiversification
nondividing
nondivinities
nondivinity
nondivisibility
nondivisible
nondivisibility
nondivision
nondivisional
nondivisive
nondisively
nondivisiveness
nondivorce
nondivorced
nondivulgence
nondivulging
nondo
nondoctrinaire
nondoctrinal
nondoctrinally
nondocumental
nondocumentaries
nondocumentary
nondogmatic
nondogmatical
nondogmatically
nondoing
nondomestic
nondomestically
nondomesticated
nondomesticating
nondominance
nondominant
nondominating
nondomination
nondomeineering
nondonation
nondormant
nondoubtable
nondoubter
nondoubting
nondoubtingly
nondramatic
nondramatically
nondrinkable
nondrinker
nondrinkers
nondrinking
nondriver
nondropsical
nondropsically
nondruideic
nondruideical
nondrying
nondualism
nondualistic
nondualistically
nonduality
nonductile
nonductility
nondumping
nonduplicating
nonduplication
nonduplicative
nonduplicity
nondurability
nondurable
nondurableleness
nondurably
nondutiable
nondynamic
nondynamical
nondynamically
nondynastic
nondynastical
nondynastically
nondyspeptic
nondyspeptical
nondyspeptically
none
noneager
noneagerly
noneagerness
nonearning
noneastern
noneatable
nonebullience
nonebulliency
nonebullient
nonebulliently
noneccentric
nonecentrically
nonecclesiastic
nonecclesiastical
nonecclesiastically
nonechoic
noneclectic
noneclectically
noneclipsed
noneclipsing
nonecliptic
nonecliptical
nonecliptically
nonecompense
noneconomic
noneconomical
noneconomically
noneconomies
noneconomy
nonecstatic
nonecstatically
nonecumenic
nonecumernal
onedibility
onedible
onedibleness
onedibleness
onedified
noneeditor
noneeditorial
noneeditorially
noneeducable
noneeducated
noneeducation
noneducational
noneducationally
noneducative
noneducatory
noneffective
noneffervescent
noneffervescently
noneffete
noneffetely
noneffeteness
nonefficacious
nonefficaciously
nonefficacy
nonefficiency
nonefficient
nonefficiently
noneffusion
noneffusive
noneffusively
noneffusiveness
nonego
nongocentric
nongoistic
nongoistical
nongoistically
nongeos
nongegotistic
nongegotistical
nongegotistically
nongregious
nongregiously
nongregiousness
noneidetic
nonejaculatory
nonejecting
nonejection
nonejective
nonelaborate
nonelaborately
nonelaborateness
nonelaborating
nonelaborative
nonelastic
nonelastically
nonelasticity
nonelect
nonelection
nonelective
nonelectively
nonelectiveness
nonelector
nonelectric
nonelectrical
nonelectrically
nonelectrification
nonelectrified
nonelectrized
nonelectrocution
nonelectrolyte
nonelectrolytic
noneleemosynary
nonelemental
nonelementally
nonelementary
nonelevating
nonelevation
nonelicited
noneligibility
noneligible
noneligibly
nonelimination
noneliminative
noneliminatory
nonelite
nonelliptic
nonelliptical
nonelliptically
nonelongation
nonelongement
noneloquence
noneloquent
noneloquently
nonelucidating
nonelucidation
nonelucidative
nonelusive
nonelusively
nonelusiveness
nonemanant
nonemanating
nonemancipation
nonemancipative
nonembarcation
nonemblemish
nenonelectrically
nonembezzlement
nonembryonal
nonembryonic
nonembryonically
nonemendable
nonemendation
nonemergence
nonemergent
nonemigrant
nonemigration
nonemission
nonemotional
nonemotionally
nonemotionalism
nonemotionally
nonemotive
nonemotively
nonmotiveness
nonempathic
nonempathically
nonemphatic
nonemphatically
nonemphatic
nonemphatic
nonempiric
nonempirical
nonempirically
nonempiricism
nonemploying
nonemployment
nonempty
nonemulation
nonemulative
nonemulous
nonemulously
nonemulousness
nonenactment
nonenclosure
nonencroachment
nonencyclopaedic
nonencyclopedic
nonencyclopedical
nonendemic
nonendorsement
nonendowment
nonendurable
nonendurance
nonenduring
nonene
nonenemies
nonenemy
nonenergetic
nonenergetically
nonenergetic
nonenergic
nonenergizing
nonenforceability
nonenforceable
nonenforced
nonenforcedly
nonenforcement
nonenforcing
nonengagement
nonengineering
nonengrossing
nonengrossingly
nonenigmatic
nonenigmatical
nonenigmatically
nonenlightened
nonenlightening
nonenrolled
nonent
nonentailed
nonenteric
nonenterprising
nonentertaining
nonentertainment
nonenthusiastic
nonenthusiastically
nonenticing
nonenticingly
nonentitative
nonentities
nonentitive
nonentitize
nonentity
nonentityism
nonentomologic
nonentomological
nonentrant
nonentreating
nonentreatingly
nonentres
nonentresse
nonentries
nonentry
nonenumerated
nonenumerative
nonenunciation
nnonenunciative
nnonenunciatory
nnonenviable
nnonenviableness
nnonenviably
nnonenvious
nnonenviously
nnonenviousness
nnonenvironmental
nnonenvironmentally
nnonenzymic
nnonephemeral
nnonephemerally
nnonepic
nnonepical
nnonepically
nnonepicurean
nnonepigrammatic
nnonepigrammatically
nnonepileptic
nnonepiscopal
nnonepiscopalian
nnonepiscopally
nnonepisodic
nnonepisodical
nnonepisodically
nnonepithelial
nnonepochal
nnonequability
nnonequable
nnonequableness
nnonequably
nnonequal
nnonequalization
nnonequalized
nnonequalizing
nnonequals
nnonequation
nnonequatorial
nnonequatorially
nnonequestrian
nnonequilateral
nnonequilaterally
nnonequilibrium
nnonequitable
nnonequitably
nnonequivalence
nnonequivalency
nonesuriently  
nonet  
oneternal  
oneternally  
oneternalness  
oneternity  
nonetheless  
onethereal  
onethereality  
onethereally  
onetherealness  
onethic  
onethical  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonethic  
onethic  
onethically  
onethicalness  
nonevanescent  
nonevanescently  
nonevangelic  
nonevangelically  
nonevaporable  
nonevaporating  
nonevaporation  
nonevaporative  
nonevasion  
noneasive  
noneasively  
noneasiveness
nonexcommunicable
nonexculpable
nonexculpation
nonexculpatory
nonexcusable
nonexcusableness
nonexcusably
nonexecutable
nonexecutive
nonexemplary
nonexemplification
nonexemplification
nonexempt
nonexemption
nonexercisable
nonexercise
nonexerciser
nonexertion
nonexertive
nonexhausted
nonexhaustible
nonexhaustive
nonexhaustively
nonexhaustiveness
nonexhibition
nonexhibitionism
nonexhibitionistic
nonexhibitive
nonexhortation
nonexhortative
nonexhortatory
nonexigent
nonexigently
nonexistence
nonexistent
nonexistential
nonexistentialism
nonexistentially
nonexisting
nonexoneration
nonexotic
nonexotically
nonexpanded
nonexpanding
nonexpansibility
nonexpansible
nonexpansible
nonexpansion
nonexpansive
nonexpansively
nonexpansiveness
nonexpectant
nonexpectantly
nonexpectation
nonexpedience
nonexpediency
nonexpedient
nonexpediental
nonexpeditently
nonexpeditious
nonexpeditiously
nonexpeditiousness
nonexpendable
nonexperience
nonexperienced
nonexperiential
nonexperientially
nonexperimental
nonexperimentally
nonexpert
nonexpiable
nonexpiation
nonexpiatory
nonexpiration
nonexpiries
nonexpiring
nonexpiry
nonexplainable
nonexplainative
nonexplainatory
nonexplicable
nonexplicative
nonexploitation
nonexplorative
nonexploratory
nonexplosive
nonexplosively
nonexplosiveness
nonexplosives
nonexponential
nonexponentially
nonexponentially
nonexponiable
nonexportable
nonexportation
nonexposure
nonexpressionistic
nonexpressive
nonexpressively
nonexpressiveness
nonexpulsion
nonexpulsive
nonextant
nonextempore
nonextended
nonextendible
nonextendibleness
nonextensibility
nonextendible
nonextendible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonextensible
nonex
nonextraneousness
nonextreme
nonextricable
nonextricably
nonextrication
nonextrinsic
nonextrinsical
nonextrinsically
nonextrusive
nonexuberance
nonexuberancy
nonexuding
nonexultant
nonexultantly
nonexultation
nonfabulous
nonfacetious
nonfacetiously
nonfacetiousness
nonfacial
nonfacility
nonfacing
nonfact
nonfactious
nonfactiously
nonfactiousness
nonfactitious
nonfactitiously
nonfactitiousness
nonfactory
nonactual
nonfactually
nonfacultative
nonfaculty
nonfaddist
nonfading
nonfailure
nonfallacious
nonfallaciously
nonfallaciousness
nonfalse
nonfaltering
nonfalteringly
nonfamilial
nonfamiliar
nonfamiliarly
nonfamilies
nonfamily
nonfamous
nonfanatic
nonfanatical
nonfanatically
nonfanciful
nonfantasies
nonfantasy
nonfarcical
nonfarcicality
nonfarcically
nonfarcicalness
nonfarm
nonfascist
nonfascists
nonfashionable
nonfashionableness
nonfashionably
nonfastidious
nonfastidiously
nonfastidiousness
nonfat
nonfatal
nonfatalistic
nonfatalities
nonfatality
nonfatally
nonfatalness
nonfatigable
nonfatty
nonfaulty
nonfavorable
nonfavorableness
nonfavorably
nonfavored
nonfavorite
nonfealties
nonfealty
nonfeasance
nonfeasibility
nonfeasible
nonfeasibleness
nonfeasibly
nonfeasor
nonfeatured
nonfebrile
nonfecund
nonfecundity
nonfederal
nonflammability
nonflammable
nonflammatory
nonflatulence
nonflatulency
nonflatulent
nonflatulently
nonflawed
nonflexibility
nonflexible
nonflexibleness
nonflexibly
nonflirtatious
nonflirtatiously
nonflirtatiousness
nonfloatation
nonfloating
nonfloatingly
nonfloriferous
nonflowering
nonflowing
nonfluctuating
nonfluctuation
nonfluency
nonfluent
nonfluently
nonfluentness
nonfluid
nonfluidic
nonfluidity
nonfluidly
nonfluids
nonfluorescence
nonfluorescent
nonflux
nonflyable
nonflying
nonfocal
nonfollowing
nonfood
nonforbearance
nonforbearing
nonforbearingly
nonforeclosing
nonforeclosure
nonforeign
nonforeignness
nonforeignness
nonfuturistic
nonfuturition
nonfuturity
nong
nongalactic
nongalvanized
nongame
nonganglionic
nongangrenous
nongarrularity
nongarrulous
nongarrulously
nongarrulousness
nongas
nongaseness
nongaseous
nongaseousness
nongases
nongassy
nongelatinizing
nongelatinous
nongelatinously
nongelatinousness
nongelling
nongenealogic
nongenealogical
nongenealogically
nongeneralized
nongenerating
nongenerative
nongeneric
nongeneric
nongeneric
nongenetic
nongenetical
nongenetically
nongentile
nongenuine
nongenuinely
nongenuineness
nongeographic
nongeographical
nongeographically
nongeologic
nongeological
nongeologically
nongeometric
nongeometrical
nongeometrically
nongermane
nongerminal
nongerminating
nongermination
nongerminative
nongerundial
nongerundive
nongerundively
nongestic
nongestical
nongilded
nongildsman
nongilled
nongipsy
nonglacial
nonglacially
nonglandered
nonglandular
nonglandulous
nonglare
nonglazed
nonglobular
nonglobularly
nonglucose
nonglucosidal
nonglucosidic
nonglutenous
nongod
nongold
nongolfer
nongospel
nongovernance
nongovernment
nongovernmental
nongraceful
nongracefully
nongracefulness
nongraciosity
nongracious
nongraciously
nongraciousness
nongraduate
nongraduated
nongraduation
nongrain
nongrained
nongrammatical
nongranular
nongranulated
nongraphic
nongraphical
nongraphically
nongraphicalness
nongraphitic
nongrass
nongratification
nongratifying
nongratifyingly
nongratitous
nongratitously
nongratitousness
nongraven
nongravitation
nongravitational
nongravitationally
nongravitative
nongravities
nongravity
nongray
nongreasy
nongreen
nongregarious
nongregariously
nongregariousness
nongremial
nongrey
nongrieved
nongrieving
nongrievingly
nongrievingness
nongrooming
nongrounded
nongrounding
nonguarantee
nonguarantees
nonguaranty
nonguard
nonguidable
nonguidance
nonguilt
nonguils
nongulturral
nongutturralness
nongymnast
nongypsy
donhabilability
donhabitable
donhabitableness
nonhabitably
nonhabitation
nonhabitual
nonhabitually
nonhabitualness
nonhabituating
nonhackneyed
nonhalation
nonhallucinated
nonhallucination
nonhallucinatory
nonhandicap
nonhardenable
nonhardy
nonharmonic
nonharmonies
nonharmonious
nonharmoniously
nonharmoniousness
nonharmony
nonhazardous
nonhazardously
nonhazardousness
nonheading
nonhearer
nonheathen
nonheathens
nonhectic
nonhectically
nonhedonic
nonhedonically
nonhedonistic
nonhedonistically
nonheinous
nonheinously
nonheinousness
nonhematic
nonhemophilic
nonhepatic
nonheritability
nonheritable
nonheritably
nonheritarily
nonhereditariness
nonhereditary
nonheretical
nonheretically
nonheritability
nonheritable
nonheritably
nonheritor
nonhero
nonheroes
nonheroic
nonheroical
nonheroically
nonheroicalness
nonheroicness
nonhesitant
nonhesitanly
nonheuristic
nonhierarchic
nonhierarchical
nonhierarchically
nonhieratic
nonhieratical
nonhieratically
nonhistone
nonhistoric
nonhistorical
nonhistorically
nonhistoricalness
nonhistrionic
nonhistrional
nenhistrionically
nonhistrioniclness
nonhomaloidal
nonhomiletic
nonhomogeneity
nonhomogeneous
nonhomogeneously
nonhomogeneousness
nonhomogenous
nonhomologous
nonhostile
nonhostiley
nonhostility
nonhouseholder
nonhousekeeping
nonhubristic
nonhuman
nonhumaness
nonhumanist
nonhumanistic
nonhumanized
nonhumaneness
nonhumorous
nonhumorously
nonhumorousness
nonhumus
nonhunting
nonhydrated
nonhydraulic
nonhydrogenous
nonhydrolyzable
nonhydrophobic
nonhygrometric
nonhygroscopic
nonhygroscopically
nonhyperbolic
nonhyperbolical
nonhyperbolically
nonhypnotic
nonhypnotically
nonhypostatic
nonhypostatical
nonhypostatically
nonic
noniconoclastic
noniconoclastically
nonideal
nonidealist
nonidealistic
nonidealistically
nonideational
nonideationally
nonidempotent
nonidentical
nonidentification
nonidentities
nonidentity
nonideologic
nonideological
nonideologically
nonidiomatic
nonidiomatical
nonidiomatically
nonidiomaticalness
nonidolatrous
nonidolatrously
nonidolatrousness
nonidylic
nonidylically
nonigneous
nonignitability
nonignitable
nonignitibility
nonignitable
nonignominious
nonignominiously
nonignominiousness
non ignorant
non ignorantly
non illative
non illatively
nonillion
nonillionth
nonilluminant
nonilluminating
nonilluminatingly
nonillumination
nonilluminative
nonillusional
nonillusive
non illusively
nonillusiveness
nonillustration
nonillustrative
nonillustratively
nonimaginarily
nonimaginariness
nonimaginary
nonimaginational
non imbricate
non imbricated
non imbricately
non imbricating
non imbricative
nonimitability
non imitable
nonimitating
non imitation
non imitatational
non imitative
non imitatively
non imitativeness
non immanence
nonimmanency
nonimmanent
nonimmanentely
nonimmateriality
nonimmersion
nonimmigrant
nonimmigration
nonimmune
nonimmunities
nonimmunity
nonimmunization
nonimmunized
nonimpact
nonimpacted
nonimpairment
nonimpartation
nonimpartment
nonimpatience
nonimpeachability
nonimpeachable
nonimpeachment
nonimpedimental
nonimpedimentary
nonimperative
nonimperatively
nonimperativeness
nonimperial
nonimperialistic
nonimperialistically
nonimperially
nonimperialness
nonimperious
nonimperiously
nonimperiousness
nonimplement
nonimplemental
nonimplication
nonimplicative
nonimplicatively
nonimportation
nonimporting
nonimposition
nonimpregnated
nonimpressionability
nonimpressionable
nonimpressionableness
nonimpressionabness
nonimpressionist
nonimpressionistic
nonimprovement
nonimpulsive
nonimpulsively
nonimpulsiveness
nonimputability
nonimputable
nonimputableness
nonimputably
nonimputation
nonimputative
nonimputatively
nonimputativeness
nonincandescence
nonincandescent
nonincandescently
nonincarnate
nonincarnated
nonincestuous
nonincestuously
nonincestuousness
nonincident
nonincidental
nonincidentally
nonincitement
noninclinable
noninclination
noninclinational
noninclinatory
noninclusion
noninclusive
noninclusively
noninclusiveness
nonincorporated
nonincorporative
nonincreasable
nonincrease
nonincreasing
nonincriminating
nonincrimination
nonincriminatory
nonincrusting
nonindependent
nonindependently
nonindexed
nonindictable
nonindictment
nonindigenous
nonindividual
nonindividualistic
nonindividualities
nonindividuality
noninduced
noninducible
noninductive
noninductively
noninductivity
nonindulgence
nonindulgent
nonindulgently
nonindurated
nonindurative
nonindustrial
nonindustrialization
nonindustrially
nonindustrious
nonindustriously
nonindustriousness
noninert
noninertial
noninertly
noninertness
noninfallibilist
noninfallibility
noninfallible
noninfallibleness
noninfallibly
noninfantry
noninfected
noninfecting
noninfection
noninfectious
noninfectiously
noninfectiousness
noninferable
noninferably
noninferential
noninferentially
noninfinite
noninfinitely
noninfiniteness
noninflammability
noninflammable
noninflammableness
noninflammably
noninflammatory
noninflation
noninflationary
noninflected
noninflectional
noninflectionally
noninfluence
noninfluential
noninfluentially
noninformational
noninformative
noninformatively
noninformativeness
noninfracion
noninfusibility
noninfusible
noninfusibleness
noninfusibleness
noninhabitability
noninhabitability
noninhabitance
noninhabitancies
noninhabitancy
noninhabitant
noninherence
noninherent
noninherently
noninheritability
noninheritable
noninheritable
noninheritableness
noninheritableness
noninherited
noninhibitive
noninhibitory
noninitial
noninitially
noninjuries
noninjurious
noninjuriously
noninjuriously
noninjuriousness
noninjury
noninoculation
noninoculative
noninquiring
noninquiringly
noninsect
noninsertion
noninsistence
noninsistencies
noninsistency
noninsistent
noninspissating
noninstinctive
noninstinctively
noninstinctual
noninstinctually
noninstitution
noninstitutional
noninstitutionally
noninstruction
noninstructional
noninstructionally
noninstructive
noninstructively
noninstructiveness
noninstructress
noninstrumental
noninstrumentalistic
noninstrumentally
noninsular
noninsularity
noninsurance
nonintegrable
nonintegration
nonintegrity
nonintellectual
nonintellectually
nonintellectualness
nonintellectuals
nonintelligence
nonintelligent
nonintelligently
nonintent
nonintention
noninteracting
noninteractive
nonintercepting
noninterceptive
noninterchangeability
noninterchangeable
noninterchangeableness
noninterchangeably
nonintercourse
noninterdependence
noninterdependency
noninterdependent
noninterdependently
noninterfaced
noninterference
noninterferer
noninterfering
noninterferingly
noninterleaved
nonintermission
nonintermittence
nonintermittent
nonintermittently
nonintermittentness
noninternational
noninternationally
noninterpolating
noninterpolation
noninterpolative
noninterposition
noninterpretability
noninterpretable
noninterpretational
noninterpretative
noninterpretively
noninterpretiveness
noninterrupted
noninterruptedly
noninterruptedness
noninterruption
noninterruptive
nonintersecting
nonintersectional
nonintersection
nonintervention
noninterventional
noninterventionalist
noninterventionist
noninterventionists
nonintimidation
nonintoxicant
nonintoxicants
nonintoxicating
nonintoxicatingly
nonintoxicative
nonintrospective
nonintrospectively
nonintrospectiveness
nonintroversive
nonintroversively
nonintroversiveness
nonirrigated
nonirrigating
nonirrigation
nonirritability
nonirritable
nonirritableness
nonirritably
nonirritancy
nonirritant
nonirritating
nonisobaric
nonisoelastic
nonisolable
nonisotropic
nonisotropous
nonissuable
nonissuableness
nonius
nonjoinder
nonjournalistic
nonjournalistically
nonjudgmental
nonjudicable
nonjudicative
nonjudicatories
nonjudicatory
nonjudicable
nonjudicial
nonjudicially
nonjurable
nonjurancy
nonjurant
nonjurantism
nonjureress
nonjuridic
nonjuridical
nonjuridically
nonjuries
nonjuring
nonjurist
nonjuristic
nonjuristical
nonjuristically
nonjuror
nonjurorism
nonjurors
nonjury
nonjurying
nonkinetic
nonknowledge
nonknowledgeable
nonkasher
nonlabeling
nonlabelling
nonlacteal
nonlacteally
nonlacteous
nonlactescent
nonlactic
nonlaminable
nonlaminated
nonlaminating
nonlaminative
nonlanguage
nonlarcenous
nonlawyer
nonlayered
nonlaying
nonleaded
nonleaking
nonlegal
nonlegato
nonlegislative
nonlegislatively
nonlegitimacy
nonlegitimate
nonlegume
nonleguminous
nonlepidopteral
nonlepidopteran
nonlepidopterous
nonleprous
nonleprously
nonlethal
nonlethally
nonlethargic
nonlethargical
nonlethargically
nonlevel
nonleviable
nonlevulose
nonliabilities
nonliability
nonliable
nonlibelous
nonlibelously
nonliberal
nonliberalism
nonliberation
nonlibidinous
nonlibidinously
nonlibidinousness
nonlicensable
nonlicensed
nonlicentiate
nonlicentious
nonlicentiously
nonlicentiousness
nonlicet
nonlicit
nonlicking
nonlife
nonlimitation
nonlimitative
nonlimiting
nonlinear
nonlineal
nonlinearities
nonlinearity
nonlinearity's
nonlinearly
nonlinguistic
nonlinkage
nonlipoidal
nonliquefiable
nonliquefying
nonliquid
nonliquidating
nonliquidation
nonliquidly
nonlister
nonlisting
nonliteracy
nonliteral
nonliterality
nonliterally
nonliteralness
nonliterarily
nonliterariness
nonliterary
nonliterate
nonlitigated
nonlitigation
nonlitigious
nonluminescence
nonluminescent
nonluminosity
nonluminous
nonluminously
nonluminousness
nonluster
nonlustrous
nonlustrously
nonlustrousness
only
nonlymphatic
onlyric
onlyrical
onlyrically
onlyricalness
onlyricism
nonmagnetic
nonmagnetical
nonmagnetically
nonmagnetizable
nonmagnetized
nonmailable
nonmaintenance
nonmajorities
nonmajority
nonmakeup
nonmalarial
nonmalarian
nonmalarious
onlymalicious
nonmaliciously
nonmaliciousness
nonmalignance
nonmalignancy
nonmalignant
nonmalignantly
nonmalignity
nonmalleability
nonmalleable
nonmalleableness
nonmalleableness
nonmammalian
nonman
nonmanagement
nonmandatories
nonmandatory
nonmanifest
nonmanifestation
nonmanifestly
nonmanifestness
nonmanila
nonmanipulative
nonmanipulatory
nonmannered
nonmanneristic
nonmannite
nonmanual
nonmanually
nonmanufacture
nonmanufactured
nonmanufacturing
nonmarine
nonmarital
nonmaritally
nonmaritime
nonmarket
nonmarketability
nonmarketable
nonmarriage
nonmarriageability
nonmarriageable
nonmarriageableness
nonmarriageabness
nonmarrying
nonmartial
nonmartially
nonmartialness
nonmarveling
nonmasculine
nonmasculinely
nonmasculineness
nonmasculinity
nonmaskable
nonmason
nonmasteries
nonmastery
nonmatching
nonmaterial
nonmaterialistic
nonmaterialistically
nonmateriality
nonmaternal
nonmaternally
nonmathematic
nonmathematical
nonmathematically
nonmathematician
nonmatrimonial
nonmatrimonially
nonmatter
nonmaturation
nonmaturative
nonmature
nonmaturely
nonmaturity
nonmeasurability
nonmeasurable
nonmeasurableness
nonmeasurably
nonmechanical
nonmechanically
nonmechanicalness
nonmechanistic
nonmediation
nonmediative
nonmedicable
nonmedical
nonmedically
nonmedicative
nonmedicinal
nonmedicinally
nonmeditative
nonmeditatively
nonmeditativeness
nonmedullated
nonmelodic
nonmelodically
nonmelodious
nonmelodiously
nonmelodiousness
nonmelodramatic
nonmelodramatically
nonmelting
nonmember
nonmembers
nonmembership
nonmen
nonmenacing
nonmendicancy
nonmendicant
nonmenial
nonmenially
nonmilitantly
nonmilitants
nonmilitarily
nonmilitary
nonmillionaire
nonmimetic
nonmimetically
nonmineral
nonmineralogical
nonminerallogically
nonminimal
nonministerial
nonministerially
nonministration
nonmiraculous
nonmiraculously
nonmiraculousness
nonmischievous
nonmischievously
nonmischievousness
nonmiscibility
nonmiscible
nonmissionaries
nonmissionary
nonmitigation
nonmitigative
nonmitigatory
nonmobile
nonmobility
nonmodal
nonmodally
nonmoderate
nonmoderately
nonmoderateness
nonmodern
nonmodernistic
nonmodernly
nonmodernness
nonmodificative
nonmodificatory
nonmodifying
nondolar
nonmolecular
nonmomentariness
nonmomentary
nonmonarchal
nonmonarchally
nonmonarchial
nonmonarchic
nonmonarchical
nonmonarchically
nonmonarchist
nonmonarchistic
nonmonastic
nonmonastically
nonmonetary
nonmoney
nonmonist
nonmonistic
nonmonistically
nonmonogamous
nonmonogamously
nonmonopolistic
nonmonotheistic
nonmorainic
nonmoral
nonmorality
nonmortal
nonmortally
nonmotile
nonmotility
nonmotion
nonmotivated
nonmotivation
nonmotivational
nonmotoring
nonmotorist
nonmountainous
nonmountainously
nonmoveability
nonmoveable
nonmoveableness
nonmoveably
nonmucilaginous
nonmucous
nonmulched
nonmultiple
nonmultiplication
nonmultiplicational
nonmultiplicative
nonmultiplicatively
nonmunicipal
nonmunicipally
nonmuscular
nonmuscularly
nonmusical
nonnatives
nonnattily
nonnattiness
nonnatty
nonnatural
nonnaturalism
nonnaturalist
nonnaturalistic
nonnaturality
nonnaturally
nonnaturalness
nonnaturals
nonnautical
nonnautically
nonnaval
nonnavigability
nonnavigable
nonnavigableness
nonnavigably
nonnavigation
nonnebular
nonnebulous
nonnebulously
nonnebulousness
nonnecessary
nonnecessities
nonnecessitous
nonnecessitously
nonnecessitousness
nonnecessity
nonnegation
nonnegative
nonnegativism
nonnegativistic
nonnegativity
nonnegligence
nonnegligent
nonnegligently
nonnegligibility
nonnegligible
nonnegligibleness
nonnegligibly
nonnegotiability
nonnegotiable
nonnegotiation
nonnephritic
nonnervous
nonnervously
nonnervousness
nonnescience
nonnescient
nonneural
nonneurotic
nonneutral
nonneutrality
nonneutrally
nonnicotinic
nonnihilism
nonnihilist
nonnihilistic
nonnitric
nonnitrogenized
nonnitrogenous
nonnitrous
nonnobility
onnoble
nonnocturnal
nonnocturnally
nonnomad
nonnomadic
nonnomadically
nonnominalistic
nonnomination
nonnormal
nonnormality
nonnormally
nonnormalness
nonnotable
nonnotableness
nonnotably
nonnotational
nonnotification
nonnotional
nonnounenal
nonnounenally
nonnourishing
nonnourishment
nonnuclear
nonnucleated
nonnullification
nonnumeral
nonnumeric
nonnumerical
nonnutrient
nonnutriment
nonnutritious
nonnutritiously
nonnutritiousness
nonnutritive
nonnutritively
nonnutritiveness
nonny
nonobedience
nonobedient
nonobediently
nonobese
nonobjectification
nonobjection
nonobjective
nonobjectivism
nonobjectivist
nonobjectivistic
nonobjectivity
nonobligated
nonobligatorily
nonobligatory
nonobscurities
nonobscurity
nonobservable
nonobservably
nonobservance
nonobservant
nonobservantly
nonobservation
nonobservational
nonobserving
nonobservingly
nonobsession
nonobsessional
nonobsessive
nonobsessively
nonobsessiveness
nonobstetric
nonobstetrical
nonobstetrically
nonobstructive
nonobstructively
nonobstructiveness
nonobvious
nonobviously
nonobviousness
nonoccidental
nonoccidentally
nonocclusion
nonocclusive
tonoccult
tonocculting
tonoccupance
tonoccupancy
tonoccupant
tonoccupation
tonoccupational
tonoccurrence
tonodiferous
tonodiferously
tonodiferousness
nonodorous
tonodously
nonodorousness
nonoecumenic
nonoecumenical
nonoffender
nonoffensive
nonoffensively
nonoffensiveness
nonofficeholder
nonofficeholding
nonofficial
nonofficially
nonofficially
nonogenarian
onioic
onioily
nonolfactories
nonolfactory
nonoligarchic
nonoligarchical
nonomad
nonomissible
nonomission
nononorable
nononerously
nononerousness
nonopacities
nonopacity
nonopaque
nonopening
nonoperative
nonoperatic
nonoperatically
nonoperating
nonoperational
nonoperative
nonopinionaness
nonopinionated
nonopinionatedness
nonopinionative
nonopinionatively
nonopinionativeness
nonopposable
nonopposal
nonopposing
nonopposition
nonoppression
nonoppressive
nonoppressively
nonoppressiveness
nonopprobrious
nonopprobriously
nonopprobriousness
nonoptic
nonoptical
nonoptically
nonoptimistic
nonoptimistical
nonoptimistically
nonoptional
nonoptionally
nonoral
nonorally
nonorchestral
nonorchestrally
nonordained
nonordered
nonordination
nonorganic
nonorganically
nonorganization
nonorientable
nonoriental
nonorientation
nonoriginal
nonoriginally
nonornamental
nonornamentality
nonornamentally
nonorthodox
nonorthodoxly
nonorthogonal
nonorthogonality
nonorthographic
nonorthographical
nonorthographically
nonoscine
nonosmotic
nonosmotically
nonostensible
nonostensibly
nonostensive
nonostensively
nonostentation
nonoutlawries
nonoutrawry
nonoutrage
nonoverhead
nonoverlapping
nonowner
nonowners
nonowning
nonoxidating
nonoxidation
nonoxidative
nonoxidizable
nonoxidization
nonoxidizing
nonoxygenated
nonoxygenous
nonpacifiable
nonpacific
nonpacificical
nonpacifically
nonpacification
nonpacificatory
nonpacificist
nonpacificistic
nonpagan
nonpaganish
nonpagans
nonpaid
nonpainter
nonpalatability
nonpalatable
nonpalatableness
nonpalatalably
nonpalatal
nonpalatalization
nonpalliation
nonpalliative
nonparticipating
nonparticipation
nonpartisan
nonpartisanism
nonpartisans
nonpartisanship
nonpartizan
nonpartner
nonparty
nonpassenger
nonpasserine
nonpassible
nonpassionate
nonpassionately
nonpassionateness
nonpastoral
nonpastorally
nonpatentability
nonpatentable
nonpatented
nonpatently
nonpaternal
nonparentally
nonpathogenic
nonpathologic
nonpathological
nonpathologically
nonpatriotic
nonpatriotically
nonpatterned
nonpause
nonpayer
nonpaying
nonpayment
nonpeak
nonpeaked
nonpearlilitic
nonpecuniary
nonpedagogic
nonpedagogical
nonpedagogically
nonpedestrian
nonpedigree
nonpedigreed
nonpejorative
nonpejoratively
nonpelagic
nonpelast
nonperishable
nonperishables
nonperishing
nonperjured
nonperjuries
nonperjury
nonpermanence
nonpermanency
nonpermanent
nonpermanently
nonpermeability
nonpermeable
nonpermeation
nonpermeative
nonpermissibility
nonpermissible
nonpermissibly
nonpermission
nonpermissive
nonpermissively
nonpermissiveness
nonpermitted
nonperpendicular
nonperpendicularity
nonperpendicularly
nonperpetration
nonperpetual
nonperpetually
nonperpetuance
nonperpetuation
nonperpetuities
nonperpetuity
nonpersecuting
nonpersecution
nonpersecutive
nonpersecutory
nonperseverance
nonperseverant
nonpersevering
nonpersistence
nonpersistence
nonpersistence
nonpersistence
nonpersisting
nonperson
nonpersonal
nonpersonally
nonpersonification
nonperspective
nonpersuadable
nonpersuasive
nonpersuasively
nonpersuasiveness
nonpertinence
nonpertinency
nonpertinent
nonpertinently
nonperturbable
nonperturbing
nonpervious
nonpersely
nonperverseness
nonpersuasion
nonpersueries
nonpersurity
nonpervious
nonpervisory
nonperviously
nonpervertible
nonpessimistic
nonpessimistically
nonpestilent
nonpestilential
nonpestilently
nonphagocytic
nonpharmaceutic
nonpharmaceutical
nonpharmaceutically
nonphenolic
nonphenomenal
nonphenomenally
nonphilanthropic
nonphilanthropical
nonphilologic
nonphilological
nonphilosophic
nonphilosophical
nonphilosophically
nonphilosophies
nonphilosophy
nonphobic
nonphonemic
nonphonemically
nonphonetic
nonphonetical
nonphonetically
nonphosphatic
nonphosphorized
nonphosphorous
nonphotobiatic
nonphotographic
nonphotographical
nonphotographically
nonphrenetic
nonphrenetically
nonphysical
nonphysically
nonphysiologic
nonphysiological
nonphysiologically
nonpickable
nonpictorial
nonpictorially
nonpigmented
nonpinaceous
nonplacental
nonplacet
nonplanar
nonplane
nonplanetary
nonplantowning
nonplastic
nonplasticity
nonplate
nonplated
nonplatifid
nonplatifidly
nonplausibility
nonplausible
nonplausibleness
nonplausibly
nonpleadable
nonpleading
nonpleadingly
nonpliability
nonpliable
nonpliableness
nonpliably
nonpliancy
nonpliant
nonpliantly
nonpliantness
nonpluralistic
nonpluralities
nonplurality
nonplus
nonplusation
nonplused
nonpluses
nonplushed
nonplusing
nonplussation
nonplussed
nonplusses
nonplussing
nonplutocratic
nonplutocratical
nonpneumatic
nonpneumatically
nonpoet
nonpoetic
nonpoisonous
nonpoisonously
nonpoisonousness
nonpolar
nonpolarity
nonpolarizable
nonpolarizing
nonpolemic
nonpolemical
nonpolemically
nonpolitical
nonpolitically
nonpolluted
nonpolluting
nonponderability
nonponderable
nonponderosity
nonponderous
nonponderously
nonponderousness
nonpopery
nonpopular
nonpopularity
nonpopularly
nonpopulous
nonpopulously
nonpopulousness
nonporness
nonpornographic
nonporous
nonporousness
nonporphyritic
nonport
nonportability
nonportable
nonportentous
nonportentously
nonportentousness
nonportrayable
nonportrayal
nonpositive
nonpositivistic
nonpossessed
nonpossession
nonpossessive
nonpossessively
nonpossessiveness
nonpossessor
nonpossible
nonpossibly
nonposthumous
nonpostponement
nonpotable
nonpotential
nonpower
nonpracticability
nonpracticable
nonpracticableness
nonpracticably
nonpractical
nonpracticality
nonpractically
nonpracticalness
nonpractice
nonpracticed
nonpraedial
nonpragmatic
nonpragmatical
nonpragmatically
nonpreaching
nonprecedent
nonprecedential
nonprecious
nonpreciously
nonpreciousness
nonprecipitation
nonprecipitative
nonpredatorily
nonpredatoriness
nonpredatory
nonpredestination
nonpredicative
nonpredicatively
nonpredictable
nonpredictive
nonpreferability
nonpreferable
nonpreferableness
nonpreferably
nonpreference
nonpreferential
nonpreferentialism
nonpreferentially
nonpreformed
nonpregnant
nonprehensile
nonprejudiced
nonprejudicial
nonprejudicially
nonrelatic
nonrelatical
nonpremium
nonpreparation
nonpreparative
nonpreparatory
nonpreparedness
nonpayment
nonprepositional
nonprepositionally
nonpresbyter
nonprescient
nonpresciently
nonprescribed
nonprescriber
nonprescription
nonprescriptive
nonpresence
nonpresentability
nonpresentable
nonpresentableness
nonpresentably
nonpresentation
nonpresentational
nonpreservable
nonpreservation
nonpreservative
nonpresidential
nonpress
nonpressing
nonpressure
nonpresumptive
nonpresumptively
nonprevalence
nonprevalent
nonprevalently
nonpreventable
nonpreventible
nonprevention
nonpreventive
nonpreventively
nonpreventiveness
nonpriestly
nonprimitive
nonprimarily
nonprimitiveness
nonprincipiate
nonprincipled
nonprintable
nonprinting
nonprivileged
nonprivities
nonprivity
nonprobabilities
nonprobability
nonprobable
nonprobably
nonprobation
nonprobative
nonprobatory
nonproblematic
nonproblematical
nonproblematically
nonprocedural
nonprocedurally
nonprocessional
nonprocreation
nonprocreative
nonprocurable
nonprocuration
nonprocurement
nonproducer
nonproducible
nonproducing
nonproduction
nonprolifically
nonprolificness
nonprolifiness
nonprolix
nonprolixity
nonprolixly
nonprolixness
nonprolongation
nonprominence
nonprominent
nonprominently
nonpromiscuous
nonpromiscuously
nonpromiscuousness
nonpromissory
nonpromotion
nonpromotive
nonpromulgation
nonpronunciation
nonpropagable
nonpropagandist
nonpropagandistic
nonpropagation
nonpropagative
nonpropellent
nonprophetic
nonprophetical
nonprophetically
nonpropitiabile
nonpropitiati
nonpropitiative
nonpropportionable
nonproportional
nonproportionally
nonproportionate
nonproportionately
nonproportionateness
nonproportioned
nonproprieties
nonproprietary
nonproprieto
nonpropriety
nonprorogation
nonpros
nonprosaic
nonprosaically
nonprosaicness
nonproscription
nonprovocativeness
nonproximity
nonprudence
nonprudent
nonprudential
nonprudentially
nonprudently
nonpsychiatric
nonpsychic
nonpsychical
nonpsychically
nonpsychoanalytic
nonpsychoanalytical
nonpsychoanalytically
nonpsychologic
nonpsychological
nonpsychologically
nonpsychopathic
nonpsychopathically
nonpsychotic
nonpublic
nonpublication
nonpublicity
nonpublishable
nonpueblo
nonpuerile
nonpuerilely
nonpuerilities
nonpuerility
nonpulmonary
nonpulsating
nonpulsation
nonpulsative
nonpumpable
nonpunctual
nonpunctually
nonpunctualness
nonpunctuating
nonpunctuation
nonpuncturible
nonpungency
nonpungent
nonpungently
nonpunishable
nonpunishing
nonpunishment
nonpunitive
nonpunitory
nonpurchasability
nonpurchasable
nonpurchase
nonpurchaser
nonpurgation
nonpurgative
nonpurgatively
nonpurgatorial
nonpurification
nonpurifying
nonpuristic
nonpurposive
nonpurposively
nonpurposiveness
nonpursuance
nonpursuant
nonpursuantly
nonpursuit
nonpurulence
nonpurulent
nonpurulently
nonpurveyance
nonputrescence
nonputrescent
nonputrescible
nonputting
nonpyogenic
nonpyritiferous
nonqualification
nonqualifying
nonqualitative
nonqualitatively
nonqualities
nonquality
nonquantitative
nonquantitatively
nonquantitativeness
nonquota
nonrabbinical
nonracial
nonracially
nonradiable
nonradiance
nonradiancy
nonradiant
nonradiantly
nonradiating
nonradiation
nonradiative
nonradical
nonradically
nonradicalness
nonradicness
nonradioactive
nonrailroader
nonraisable
nonraiseable
nonraised
nonrandom
nonrandomly
nonrandomness
nonranging
nonrapport
nonratability
nonratable
nonratableness
nonratably
nonrateability
nonrateable
nonrateableness
nonrateably
nonrated
nonratification
nonratifying
nonrational
nonrationalism
nonrationalist
nonrationalistic
nonrationalistical
nonrationalistically
nonrationality
nonrationalization
nonrationalized
nonrationally
nonrationalness
nonrayed
nonreaction
nonreactionaries
nonreactionary
nonreactive
nonreactor
nonreadability
nonreadable
nonreadableness
nonreadably
nonreader
nonrecitative
nonreclaimable
nonreclamation
nonrecluse
nonexclusive
nonrecognition
nonrecognized
nonrecoil
nonrecoiling
nonrecollection
noncollective
nonrecombinant
nonrecommendation
nonreconcilability
nonreconcilable
nonreconcilableness
nonreconcilably
nonreconciliation
nonrecourse
nonrecoverable
nonrecovery
nonrectangular
nonrectangularity
nonrectangularly
nonrectifiable
nonrectified
nonrecoveratiness
nonrecuperation
nonrecuperative
nonrecuperativeness
nonrecuperatory
nonrecurrent
nonrecurrently
noncurrent
nonrecurring
nonredeemable
nonredemptible
nonredemption
nonredemptive
nonredressing
nonreduced
nonreducibility
nonreducible
nonreducibly
nonreducing
nonreduction
nonreductional
nonreductive
nonreinforcement
nonreinstatement
nonrejection
nonrejoinder
nonrelapsed
nonrelated
nonrelativeness
nonrelation
nonrelational
nonrelative
nonrelatively
nonrelativeness
nonrelativistic
nonrelativistically
nonrelativity
nonrelaxation
nonrelease
nonrelenting
nonreliability
nonreliable
nonreliableness
nonreliably
nonreliance
nonrelieving
nonreligion
nonreligious
nonreligiously
nonreligiousness
nonrelinquishment
nonremanie
nonremediability
nonremediable
nonremediably
nonremedial
nonremediably
nonremedies
nonremedy
nonremembrance
nonremissible
nonremission
nonremittable
nonremittably
nonremittal
nonremonstrance
nonremonstrant
nonremuneration
nonremovable
nonremunerative
nonremuneratively
nonrendition
nonrenewable
nonrenewal
nonrenouncing
nonrenunciation
nonrepair
nonrepairable
nonreparable
nonreparation
nonreparation
nonrepatriable
nonrepatriation
nonrepayable
nonrepaying
nonrepealable
nonrepealing
nonrepeat
nonrepeated
nonrepeater
nonrepellence
nonrepellency
nonrepellent
nonrepeller
nonrepentance
nonrepentant
nonrepentantly
nonrepetition
nonrepetitious
nonrepetitiously
nonrepetitiousness
nonrepetitive
nonrepetitively
nonreplaceable
nonreplacement
nonreplicate
nonreplicated
nonreplication
nonreportable
nonprehensibility
nonprehensible
nonprehensibleness
nonprehensibility
nonpreentable
nonrepresentation
nonrepresentational
nonrepresentationalism
nonrepresentationist
nonrepresentative
nonrepresentatively
nonrepresentativeness
nonrepressed
nonrepressible
nonrepressibleness
nonrepressibly
nonrepression
nonrepressive
nonreprisal
nonreproducible
nonreproduction
nonreproductive
nonreproductively
nonreproductiveness
nonrepublican
nonrepudiable
nonrepudiation
nonrepudiative
nonreputable
nonreputably
nonrequirable
nonrequirement
nonrequisite
nonrequisitely
nonrequisiteness
nonrequisition
nonrequital
nonrecessible
nonrecession
nonrecessory
nonrescue
nonresemblance
nonreservable
nonreservation
nonreserve
nonresidence
nonresidency
nonresident
nonresidential
nonresidente
nonresidential
nonresidientary
nonresidentor
nonresidents
nonresidual
nonresignation
nonresilience
nonresiliency
nonresilient
nonresilently
nonresinifiable
nonresistance
nonresistant
nonresistants
nonresister
nonresistibility
nonresistible
nonresisting
nonresistive
nonresistively
nonresistiveness
nonresolution
nonresolvability
nonresolvable
nonresolvableness
nonresolvably
nonresolvableness
nonresonant
nonresonantly
nonrespectabilities
nonrespectability
nonrespectable
nonrespectableness
nonrespectably
nonspirable
nonresponsibilities
nonresponsibility
nonresponsible
nonresponsibleness
nonresponsibly
nonresponsive
nonresponsively
nonrestitution
nonrestoration
nonrestorative
nonrestrained
nonrestraint
nonrestricted
nonrestrictedly
nonrestricting
nonrestriction
nonrestrictive
nonrestrictively
nonresumption
nonresurrection
nonresurrectional
nonresuscitable
nonresuscitation
nonresuscitative
nonretail
nonretainable
nonretainment
nonretaliation
nonretardation
nonretardative
nonretardatory
nonretarded
nonretardment
nonretention
nonretentive
nonretentively
nonretentiveness
nonreticence
nonreticent
nonreticently
nonretinal
nonretired
nonretirement
nonretiring
nonretraceable
nonretractation
nonretractile
nonretractility
nonretraction
nonretrenchment
nonretroactive
nonretroactively
nonretroactivity
nonreturn
nonreturnable
nonrevaluation
nonrevealing
nonrevelation
nonrevenge
nonrevenger
nonrevenue
nonreverence
nonreverent
nonreverential
nonreverentially
nonreverently
nonreverse
nonreversed
nonreversibility
nonreversible
nonreversibleness
nonreversibly
nonreversing
nonreversion
nonrevertible
nonrevertive
nonreviewable
nonrevision
nonrevival
nonrevivalist
nonrevocability
nonrevocable
nonrevocably
nonrevocation
nonrevokable
nonrevolting
nonrevoltingly
nonrevolution
nonrevolutionaries
nonrevolutionary
nonrevolving
nonrhetorical
nonrhetorically
nonrheumatic
nonrhyme
nonrhymed
nonrhyming
nonrhythm
nonrhythmic
nonrhythmical
nonrhythmically
nonriding
nonrigid
nonrigidity
nonrioter
nonrioting
nonriparian
nonritualistic
nonritualistically
nonrival
nonrivals
nonromantic
nonromantically
nonromanticism
nonrotatable
nonrotating
nonrotation
nonrotational
nonrotative
nonround
nonrousing
nonroutine
nonroyal
nonroyalist
nonroyally
nonroyalty
nonrubber
nonrudimental
nonrudimentarily
nonrudimentariness
nonrudimentary
nonruinable
nonruinous
nonruinously
nonruinousness
nonruling
nonruminant
nonruminating
nonruminatingly
nonruminination
nonruminative
nonrun
nonrupturable
nonrupture
nonrural
nonrurally
nonrustable
nonrustic
nonrustically
nonsabbatic
nonsaccharin
nonsaccharine
nonsaccharinity
nonsacerdotal
nonsacerdotally
nonsacramental
nonsacred
nonsacredly
nonsacredness
nonsacrifice
nonsacrificial
nonsacrificing
nonsacrilegious
nonsacrilegiously
nonsacrilegiousness
nonsailor
nonsalability
nonsalable
nonsalably
nonsalaried
nonsense
nonsaleability
nonsaleable
nonsaleably
nonsaline
nonsalinity
nonsalubrious
nonsalubriously
nonsalubriousness
nonsalutarily
nonsalutariness
nonsalutary
nonsalutation
nonsalvageable
nonsalvation
nonsanative
nonsanctities
nonsanctification
nonsanctimonious
nonsanctimoniously
nonsanctimoniousness
nonsanctimony
nonsanction
nonsanctities
nonsanctity
nonsane
nonsanely
nonsaneness
nonsanguine
nonsanguinely
nonsanguineness
nonsanity
nonsaponifiable
nonsaponification
nonsaporific
nonsatiability
nonsatiable
nonsatiation
nonsatire
nonsatiric
nonsatirical
nonsatirically
nonsatiricalness
nonsatirizing
nonsatisfaction
nonsatisfying
nonsaturated
nonsaturation
nonsaving
nonsawing
nonscalding
nonscaling
nonscaldous
nonscaldously
nonscarcities
nonscarcity
nonscented
nonscheduled
nonschematic
nonschematically
nonschematized
nonschismatic
nonschismatical
nonschizophrenic
nonscholar
nonscholarly
nonscholastic
nonscholastical
nonscholastically
nonschooling
nonsciatic
nonscience
nonscientific
nonscientifically
nonscientist
nonscoring
nonscraping
nonscriptural
nonscripturalist
nonscrutinies
nonscrutiny
nonsculptural
nonsculpturally
nonsculptured
nonseasonable
nonseasonableness
nonseasonably
nonseasonal
nonseasonally
nonseasoned
nonsecession
nonsecessional
nonsecluded
nonsecludedly
nonsecludedness
nonseclusion
nonexclusive
nonexclusively
nonexclusiveness
nonsecrecies
nonsecrecy
nonsecret
nonsecretarial
nonsecretion
nonsecretionary
nonsecretive
nonsecretively
nonsecretly
nonsecretor
nonsecretories
nonsecretory
nonsectarian
nonsectional
nonsectionally
nonsectorial
nonsecular
nonsecurities
nonsecurity
nonsedentarily
nonsedentariness
nonsedentary
nonsedimentable
nonseditious
nonseditiously
nonseditiousness
nonsegmental
nonsegmentally
nonsegmentary
nonsegmentation
nonsegmented
nonsegregable
nonsegregated
nonsegregation
nonsegregative
nonseismic
nonseizure
nonselected
nonselection
nonselective
nonself
nonselfregarding
nonselling
nonsemantic
nonsemantically
nonseminal
nonsenatorial
nonsensate
nonsensation
nonsensationalistic
nonsense
nonsenses
nonsensibility
nonsensible
nonsensibleness
nonsensibly
nonsensic
nonsensical
nonsensicality
nonsensically
nonsensicalness
nonsensification
nonsensify
nonsensitive
nonsensitively
nonsensitiveness
nonsensitivities
nonsensitivitiy
nonsensitization
nonsensitized
nonsensitizing
nonsensorial
nonsensory
nonsensual
nonsensualistic
nonsensuality
nonsensually
nonsensuous
nonsensuously
nonsensuousness
nonsentence
nonsententious
nonsententiously
nonsententiousness
nonsentience
nonsentiency
nonsentient
nonsentiently
nonseparability
nonseparable
nonseparableness
nonseparably
nonseparating
nonseparation
nonseparatist
nonseparative
nonseptate
nonseptic
nonsequacious
nonsequaciously
nonsequaciousness
nonsequacity
nonsequent
nonsequential
nonsequentially
nonsequestered
nonsequestration
nonseraphic
nonseraphical
nonseraphically
nonserial
nonseriality
nonserially
nonseriate
nonseriately
nonserif
nonserious
nonseriously
nonseriousness
nonserous
nonserviceability
nonserviceable
nonserviceableness
nonserviceably
nonserviential
nonservile
nonservilely
nonservileness
nonsetter
nonsetting
nonsettlement
nonseverable
nonseverance
nonseverities
nonseverity
nonsexist
nonsexists
nonsexlinked
nonsexual
nonsexually
nonshaft
nonsharing
nonshatter
nonshattering
nonshedder
nonshedding
nonshipper
nonshipping
nonshredding
nonshrinkable
nonshrinking
nonshrinkingly
nonsibilance
nonsibilancy
nonsibilant
nonsibilantly
nonsiccate
nonsidereal
nonsignable
nonsignatories
nonsignatory
nonsignature
nonsignificance
nonsignificancy
nonsignificant
nonsignificantly
nonsignification
nonsignificative
nonsilicate
nonsilicated
nonsiliceous
nonsilicious
nonsilver
nonsimilar
nonsimilarity
nonsimilarly
nonsimilitude
nonsimplicity
nonsimplification
nonsimilar
nonsimulate
nonsimulation
nonsimulative
nonsine
nonsinging
nonsingle
nonsingleness
nonsingular
nonsingularities
nonsingularity
nonsinkable
nonsinusoidal
nonsiphonage
nonsister
nonsitter
nonsitting
nonsked
nonskeds
nonskeletal
nonskeletally
nonskeptic
nonskeptical
nonskid
nonskidding
nonskier
nonskiers
nonskilled
nonskipping
nonslanderous
nonslaveholding
nonslip
nonslippery
nonslipping
nonsludging
nonsmoker
nonsmokers
nonsmoking
nonsmuttering
nonsobriety
nonsociability
nonsociable
nonsociableness
nonsociably
nonsocial
nonsocialist
nonsocialistic
nonsociality
nonsocially
nonspecialist
nonspecialist's
nonspecialists
nonspecialized
nonspecializing
nonspecially
nonspecie
nonspecifiable
nonspecific
nonspecifically
nonspecification
nonspecificity
nonspecified
nonspecious
nonspeciously
nonspeciousness
nonspectacular
nonspectacularly
nonspectral
nonspectrality
nonspectrally
nonspeculation
nonspeculative
nonspeculatively
nonspeculativeness
nonspeculatory
nonspherical
nonspheric
nonspherical
nonsphericality
nonspherically
nonspill
nonspillable
nonspinal
nonspinning
nonspinose
nonspinosely
nonspinosity
nonspiny
nonspiral
nonspirit
nonspirited
nonspiritedly
nonspiritedness
nonspiritous
nonspiritual
nonspirituality
nonspiritually
nonspiritualness
nonspirituneness
nonspirituous
nonspirituousness
nonspontaneous
nonspontaneously
nonspontaneousness
nonspored
nonsporeformer
nonsporeforming
nonsporting
nonsportingly
nonsprottable
nonsprouting
nonspurious
nonspuriously
nonspuriousness
nonstabile
nonstability
nonstable
nonstableness
nonstably
nonstainable
nonstainer
nonstaining
nonstampable
nonstandard
nonstandardization
nonstandardized
nonstanzaic
nonstaple
nonstarch
nonstarter
nonstarting
nonstatement
nonstatic
nonstationaries
nonstationary
nonstatistic
nonstatistical
nonstatistically
nonstative
nonstatutable
nonstatutory
nonstellar
nonstereotyped
nonstereotypic
nonstereotypical
nonsterile
nonsterilely
nonsterility
nonsterilization
nonsteroid
nonsteroidal
nonstick
nonsticky
nonstimulable
nonstimulating
nonstimulation
nonstimulative
nonstipicity
nonstipulation
nonstock
nonstoical
nonstoically
nonstoicalness
nonstooping
nonstop
nonstorable
nonstorage
nonstowed
nonstrategic
nonstrategical
nonstrategically
nonstratified
nonstress
nonstretchable
nonstretchy
nonstriated
nonstrictness
nonstrictured
nonstriker
nonstrikers
nonstriking
nonstringent
nonstriped
nonstrophic
nonstructural
nonstructurally
nonstructure
nonstructured
nonstudent
nonstudied
nonstudious
nonstudiously
nonstudiousness
nonstudy
nonstultification
nonstylization
nonstylized
nonstyptic
nonstyptical
nonsubconscious
nonsubconsciously
nonsubconsciousness
nonsubject
nonsubjected
nonsubjectification
nonsubjection
nonsubjective
nonsubjectively
nonsubjectiveness
nonsubjectivity
nonsubjugable
nonsubjugation
nonsublimation
nonsubliminal
nonsubliminally
nonsubmerged
nonsubmergence
nonsubmergibility
nonsubmergible
nonsubmersible
nonsubmissible
nonsubmission
nonsubmissive
nonsubmissively
nonsubmissiveness
nonsubordinate
nonsubordinating
nonsubordination
nonsubscriber
nonsubscribers
nonsubscribing
nonsubscription
nonsubscriptioned
nonsubscribers
nonsubsidiaries
nonsubsidiary
nonsubsididies
nonsubsidies
nonsubsiding
nonsubsidy
nonsubsistence
nonsubsistent
nonsubstantial
nonsubstantialism
nonsubstantialist
nonsubstantiality
nonsubstantially
nonsubstantialness
nonsubstantiation
nonsubstantival
nonsubstantivally
nonsubstantive
nonsubstantively
nonsubstantiveness
nonsubstituted
nonsubstitution
nonsubstitutional
nonsubstitutionally
nonsubstitutionary
nonsubstitutive
nonsubtile
nonsubtilely
nonsubtileness
nonsubtility
nonsubtle
nonsubtleness
nonsubtleties
nonsubtlety
nonsubtly
nonsubtraction
nonsubtractive
nonsubtractively
nonsuburban
nonsubversion
nonsubversive
nonsubversively
nonsubversiveness
nonsuccess
nonsuccessful
nonsuccessfully
nonsuccession
nonsuccessional
nonsuccessionally
nonsuccessive
nonsuccessively
nonsuccessiveness
nonsuccor
nonsuccour
nonsuch
nonsuches
nonsuction
nonsuctorion
nonsudsing
nonsufferable
nonsufferableness
nonsufferably
nonsufferance
nonsuffrage
nonsugar
nonsugars
nonsuggestible
nonsuggestion
nonsuggestive
nonsuggestively
nonsuggestiveness
nonsuit
nonsuited
nonsuiting
nonsuits
nonsulfurous
nonsulphurous
nonsummons
nonsupervision
nonsupplemental
nonsupplementally
nonsupplementary
nonsupplicating
nonsupplication
nonsupport
nonsupportability
nonsupportable
nonsupportableness
nonsupportably
nonsupporter
nonsupporting
nonsupposed
nonsupposing
nonsuppositional
nonsuppositionally
nonsuppositive
nonsuppositively
nonsuppressed
nonsuppression
nonsuppressive
nonsuppressively
nonsuppressiveness
nonsuppurative
nonsupression  
nonsurface  
nonsurgical  
nonsurgically  
nonsurrealistic  
nonsurrealistically  
nonsurrender  
nonsurvival  
nonsurvivor  
nonsusceptibility  
nonsusceptible  
nonsusceptibleness  
nonsusceptibly  
nonsusceptiness  
nonsusceptive  
nonsusceptiveness  
nonsusceptivity  
nonsuspect  
nonsuspended  
nonsuspension  
nonsuspensive  
nonsuspensively  
nonsusponsiveness  
nonsustainable  
nonsustained  
nonsustaining  
nonsustenance  
nonswearer  
nonswearing  
nonsweating  
nonswimmer  
nonswimming  
nonsyllabic  
nonsyllabicness  
nonsyllogistic  
nonsyllogistical  
nonsyllogistically  
nonsyllogizing  
nonsymbiotic  
nonsymbiotical  
nonsymbiotically  
nonsymbolic  
nonsymbolical  
nonsymbolically  
nonsymbolicalness  
nonsymmetrical  
nonsymmetries  
nonsymmetry
nonsystematical
nonsystematically
nontabular
nontabularly
nontabulated
nontactic
nontactical
nontactically
nontactile
nontactility
nontalented
nontalkative
nontalkatively
nontalkativeness
nontan
nontangential
nontangential
nontangentially
nontangible
nontangibleness
nontangibly
nontannic
nontannin
nontanning
nontarget
nontariff
nontarnishable
nontarnished
nontarnishing
nontarred
nontautological
nontautologically
nontautomeric
nontautomerizable
nontax
nontaxability
nontaxable
nontaxableness
nontaxably
nontaxation
nontaxer
nontaxes
nontaxonomic
nontaxonomical
nontaxonomically
nonteachability
nonteachable
nonteachableness
nonteachably
nonteacher
nonteaching
nontechnical
nontechnically
nontechnicalness
nontechnologic
nontechnological
nontechnologically
nonteetotaler
nontectotalist
nontelegaphic
nontelegaphical
nontelegaphically
nonteleological
nonteleologically
nontelepathic
nontelepathically
nontelephonic
nontelephonically
nontelescopic
nontelescopating
nontelic
nontemperable
nontemperamental
nontemperamentally
nontemperate
nontemperately
nontemperateness
nontempered
nontemporal
nontemporally
nontemporarily
nontemporariness
nontemporary
nontemporizing
nontemporizingly
nontemptation
nontenability
nontenable
nontenableness
nontenably
nontenant
nontenantable
nontensile
nontensility
nontentative
nontentatively
nontentativeness
nontenure
nontenured
nontenurial
nontenurially
nonterm
nonterminability
nonterminable
nonterminableness
nonterminably
nonterminal
nonterminal's
nonterminally
nonterminals
nonterminating
nontermination
nonterminative
nonterminatively
nonterminous
nonterrestrial
nonterritorial
nonterritoriality
nonterritorially
nontestable
nontestamentary
nontesting
nontexual
nontextually
nontextural
nontexturally
nontheatric
nontheatrical
nontheatrically
nontheistic
nontheistical
nontheistically
nonthemetic
nonthematically
nontheocratic
nontheocratical
nontheocratically
nontheological
nontheologically
nontheoretic
nontheoretical
nontheoretically
nontheosophic
nontheosophical
nontheosophically
nontherapeutic
nontherapeutical
nontherapeutically
nonthermal
nonthermally
nonthermoplastic
nonthinker
nonthinking
nonthoracic
nonthoroughfare
nonthreaded
nonthreatening
nonthreateningly
nontidal
nontillable
nontimbered
nontinted
nontitaniferous
nontitle
nontitled
nontitular
nontitularly
nontolerable
nontolerableness
nontolerably
nontolerance
nontolerant
nontolerantly
nontolerated
nontoleration
nontolerative
nontonality
nontoned
nontonic
nontopographical
nontortuous
nontortuously
nontotalitarian
nontourist
nontoxic
nontoxically
nontraceability
nontraceable
nontraceableness
nontraceably
nontactability
nontranslucency
nontranslucent
nontransmission
nontransmittal
nontransmittance
nontransmittible
nontransparency
nontransparent
nontransparently
nontransparentness
nontransportability
nontransportable
nontransportation
nontransposable
nontransposing
nontransposition
nontraveler
nontraveling
nontraveller
nontravelling
nontransversable
nonreasonable
nonreasonableness
nonreasonably
nonratable
nontreated
nontreaties
nontreatment
nontreaty
nontrespass
nontrivial
nontribal
nontribally
nontribesman
nontribesmen
nontributary
nontrier
nontrigonometric
nontrigonometrical
nontrigonometrically
nontrivial
nontriviality
nontronite
nontropic
nontropical
nontropically
nontroubling
nontruancy
nontruant
nontrump
nontrunked
nontrust
nontrustingly
nontruth
nontruths
nontubercular
nontubercularly
nontuberculous
nontubular
nontumorous
nontumultuous
nontumultuously
nontumultuousness
nontuned
nonturbinate
nonturbinate
nontutorial
nontutorially
nontyphoidal
nontypical
nontypically
nontypicalness
nontypographic
nontypographical
nontypographically
nontyrannic
nontyrannical
nontyrannically
nontyrannicalness
nontyrannous
nontyrannously
nontyrannousness
nontyrannousness
nonubiquitary
nonubiquitous
nonubiquitously
nonubiquitousness
nonulcerous
nonulcerously
nonulcerousness
nonultrafilterable
nonumbilical
nonumbilicate
nonumbrellaed
nonunanimous
nonunanimously
nonunanimousness
nonuncial
nonundergraduate
nonunderstandable
nonunderstanding
nonunderstandingly
nonunderstood
nonundulant
nonundulate
nonundulating
nonundulatory
nonunification
nonunified
nonuniform
nonuniformist
nonuniformitarian
nonuniformities
nonuniformity
nonuniformly
nonunion
nonunionism
nonunionist
nonunions
nonunique
nonuniquely
nonuniqueness
nonunison
nonunitable
nonunitarian
nonuniteable
nonunited
nonuniting
nonunity
nonuniversal
nonuniversalist
nonuniversalist
nonuniversality
nonuniversally
nonuniversities
nonuniversity
nonupholstered
nonuple
nonuples
nonuplet
nonuplicable
nonupright
nonuprightly
nonuprightness
nonurban
nonvalidly
nonvalidness
nonvalorous
nonvalorously
nonvalorousness
nonvaluable
nonvaluation
nonvalue
nonvalued
nonvalve
nonvanishing
nonvaporosity
nonvaporous
nonvaporously
nonvaporousness
nonvariability
nonvariable
nonvariableness
nonvariably
nonvariance
nonvariant
nonvariation
nonvaried
nonvarieties
nonvariety
nonvarious
nonvariously
nonvariousness
nonvascular
nonvascularly
nonvasculose
nonvascularous
nonvassal
nonvector
nonvegetable
nonvegetation
nonvegetative
nonvegetatively
nonvegetativeness
nonvegetive
nonvehement
nonvehemently
nonvenal
nonvenally
nonvendibility
nonvendible
nonvendibleness
nonvendibly
nonvenereal  
nonvenomous  
nonvenomously  
nonvenomousness  
nonvenous  
nonvenously  
nonvenousness  
nonventilation  
nonventilative  
nonveracious  
nonveraciously  
nonveraciousness  
nonveracity  
nonverbal  
nonverbalized  
nonverbally  
nonverbosity  
nonverdict  
nonverifiable  
nonverification  
nonverifiable  
nonveritableness  
nonveritably  
nonverminous  
nonverminously  
nonverminousness  
nonverminal  
nonversatility  
nonvertebral  
nonvertebrate  
nonvertical  
nonverticality  
nonvertically  
nonverticalness  
nonvesicular  
nonvesicularly  
nonvesting  
nonvesture  
nonveteran  
nonveterinaries  
nonveterinary  
nonvexatious  
nonvexatiously  
nonvexatiousness  
nonviability  
nonviable  
nonvibratile  
nonvibrating
nonvibration
nonvibrator
nonvibratory
nonvicarious
nonvicariously
nonvicariousness
nonvictories
nonvictory
nonvigilance
nonvigilant
nonvigilantly
nonvigilantness
nonvillager
nonvillainous
nonvillainously
nonvillainousness
nonvindicable
nonvindication
nonvinosity
nonvintage
nonviolability
nonviolable
nonviolableness
nonviolably
nonviolation
nonviolative
nonviolence
nonviolent
nonviolently
nonviral
nonvirginal
nonvirginally
nonvirile
nonvirility
nonvirtue
nonvirtuous
nonvirtuously
nonvirtuousness
nonvirulent
nonvirulently
nonviruliferous
nonvisaed
nonvisceral
nonviscid
nonviscidity
nonviscidly
nonviscidness
nonviscous
nonviscously
nonviscousness
nonvisibilities
nonvisibility
nonvisible
nonvisibly
nonvisional
nonvisionary
nonvisitation
nonvisiting
nonvisual
nonvisualized
nonvisually
nonvital
nonvitality
nonvitalized
nonvitally
nonvitalness
nonvitation
nonvitreous
nonvitrified
nonvibriolic
nonviturpative
nonviturpatively
nonviviparity
nonviviparous
nonviviparously
nonviviparousness
nonvocable
nonvocal
nonvocalic
nonvocality
nonvocalization
nonvocally
nonvocalness
nonvocational
nonvocationally
nonvoice
nonvoid
nonvoidable
nonvolant
nonvolatile
nonvolatileness
nonvolatility
nonvolatilizable
nonvolatilized
nonvolatiness
nonvolcanic
nonvolition
nonvolitional
nonvolubility
nonvoluble
nonvolubleness
nonvolubly
nonvoluntary
nonvortical
nonvortically
nonvoter
nonvoters
nonvoting
nonvulcanizable
nonvulcanized
nonvulgarities
nonvulgarity
nonvulval
nonvulvar
nonvucua
nonwaiver
nonwalking
nonwar
nonwarrantable
nonwarrantably
nonwarranted
nonwashable
nonwasting
nonwatertight
nonwavering
nonwaxing
nonweakness
nonwelcome
nonwelcoming
nonwestern
nonwetted
nonwhite
nonwhites
nonwinged
nonwithering
nonwonder
nonwondering
nonwoody
nonworker
nonworkers
nonworking
nonworship
nonwoven
nonwrinkleable
nonwrite
nonya
nonyielding
nonyl
nonylene
nonylenic
nonylic
nonzealous
nonzealously
nonzealousness
nonzebra
nonzero
nonzodiacal
nonzonal
nonzona
nonzonally
nonzionate
nonzonated
nonzoologic
nonzoological
nonzoologically
nool
noodle
noodled
noodledom
noodlehead
noodl
noodling
nook
nook’s
nooked
nookeries
nookery
nookie
nookier
nookies
nookiest
nooking
nooklet
nooklike
nooks
nooky
noological
noologist
noology
noometry
noon
northwestward
northwestwardly
northwestwards
nortriptyline
norward
norwards
norway
norwegian
norwegians
norwest
norwester
norwestward
norwegian
nos
nosarian
nose
nosean
noseanite
nosebag
nosebags
noseband
nosebanded
nosebands
nosebleed
nosebleeds
nosebone
noseburn
nosed
nosedive
nosegay
nosegaylike
nosegays
noseherb
nosehole
noseless
noselessly
noselessness
noselike
noselite
noseover
nosepiece
nosepinch
noser
noses
nosesmart
nosethirl
nosetiology
nosewards
nosewheel
nosewing
nosewise
nosewort
nosey
nosh
noshed
nosher
noshers
noshes
noshing
nosier
nosiest
nosig
nosily
nosine
nosiness
nosinesses
nosing
nosings
nosism
nosite
nosochthonography
nosocomial
nosocomium
nosogenesis
nosogenetic
nosogenic
nosogeny
nosogeographic
nosogeographical
nosogeography
nosographer
nosographic
nosographical
nosographically
nosographies
nosography
nosohaemia
nosohemia
nosologic
nosological
nosologically
nosologies
nosologist
nosology
nosomania
nosomycosis
nosonomy
nosophobia
nosophyte
nosopoetic
nosopoietic
nosotaxy
nosotrophy
nossel
nostalgia
nostalgic
nostalgically
nostalgies
nostalg
nostic
nostoc
nostocaceous
nostochine
nostocs
nostologic
nostology
nostomania
nostomanic
nostradamus
nostrificate
nostrification
nostril
nostril's
nostriled
nostrility
nostrilled
nostrils
nostrilsome
nostrum
nostrummonger
nostrummongership
nostrummongery
nostrums
nosy
not
nota
notabene
notabilia
notabilities
notability
notable
notableness
notables
notitia
notition
notocentrous
notocentrum
notochord
notochordal
notocord
notodontian
notodontid
notodontoid
notogae
notoire
notommatid
notonectal
notonectid
notopodial
notopodium
notopterid
notopteroid
notorhizal
notorieties
notoriety
notorious
notoriously
notoriousness
notornis
notothere
nototherium
nototribe
notoungulate
notour
notourly
notre
nats
notself
notturni
notturno
notum
notungulate
notus
notwithstanding
nouche
nougat
nougatine
nougats
nought
noughtily
noughtiness
nouvelle
nouvelles
nov
nova
novaculite
novae
novale
novalia
novalike
novantique
novarsenobenzene
novas
novate
novatian
novation
novations
novative
novator
novatory
novatrix
novcic
novaboracensis
novel
novel's
novela
novelant
novelcraft
noveldom
novellese
novelesque
novelet
noveletist
novelette
noveletter
novelettes
novelettish
novelettist
noveletty
novelisation
novelise
novelised
novelises
novelish
novelising
novelism
novelist
novelist's
novelistic
nowther
nowtherd
nowts
nowy
nox
noxa
noxal
noxally
noxial
noxious
noxious
noxiousness
noy
noyade
noyaded
noyades
noyading
noyance
noyant
noyau
noyful
noyous
nozzle
nozzler
nozzles
np
npeel
nptfx
nr
nrarucu
nritta
ns
nsec
nt
nth
nu
nuadu
nuagism
nuagist
nuance
nuanced
nuances
nuancing
nub
nubbier
nubbies
t
nubbins
nubbiness
nubbins
nuble
nubbled
nubbles
nubblier
nubbliest
nubbliness
nubbling
nubbly
nubby
nubecula
nubeculae
nubia
nubian
nubias
nubiferous
nubiform
nubigenous
nubilate
nubilation
nubile
nubilities
nubility
nubilose
nubilous
nubs
nucal
nucament
nucamentaceous
nucellar
nucelli
nucleus
nucha
nuchae
nuchal
nuchale
nuchalgia
nuchals
nuciculture
nuciferous
nuciform
nucin
nucivorous
nucleal
nucleant
nuclear
nucleary
nuclease
nucleases
nucleate
nucleated
nucleates
nucleating
nucleation
nucleations
nucleator
nucleators
nucleae
nuclei
nucleic
nucleiferous
nucleiform
nuclein
nucleinase
nucleins
nucleization
nucleize
nuclei
nucleoalbumin
nucleoalbuminuria
nucleocapsid
nucleofugal
nucleohistone
nucleohyaloplasm
nucleohyaloplasma
nucleoid
nucleoidioplasma
nucleolar
nucleolate
nucleolated
nucleole
nucleoles
nucleoli
nucleolini
nucleolinus
nucleolocentrosome
nucleoloid
nucleolus
nucleolysis
nucleomicrosome
nucleon
nucleone
nucleonic
nucleonics
nucleons
nucleopetal
nucleophile
nucleophilic
nucleophilically
nucleophilicity
nucleoplasm
nucleoplasmatic
nucleoplasmic
nucleoprotein
nucleosid
nucleosidase
nucleoside
nucleosynthesis
nucleotidase
nucleotide
nucleotide's
nucleotides
nucleus
nucleuses
nuclide
nuclides
nuclidic
nuculane
nuculania
nuculanium
nucule
nuculid
nuculiform
nuculoid
nudate
nudation
nuddle
nuddy
nude
nudely
nudeness
nudenesses
nuder
nudes
nudest
nudge
nudged
nudger
nudgers
nudges
nudging
nudibranch
nudibranchian
nudibranchiate
numbedness
number
numberable
numbered
numberer
numberers
numberful
numbering
numberings
numberless
numberlessness
numberous
numberplate
numbers
numbersome
numbest
numbfish
numbfishes
numbing
numbingly
numble
numbles
numbly
numbness
numbnesses
numbs
numbskull
numda
numdah
numen
numerable
numerableness
numerably
numeracy
numeral
numeral's
numerally
numerals
numerant
numerary
numerate
numerated
numerates
numerating
numeration
numervations
numerative
numerator
numerator's
numerators
numeric
numerical
numerically
numericalness
numerics
numerist
numero
numerological
numerologist
numerologists
numerology
numeros
numerose
numerosity
numerous
numerously
numerousness
numina
numine
numinism
numinous
numinouses
numinously
numinousness
numis
numismatic
numismatical
numismatically
numismatician
numismatics
numismatist
numismatists
numismatography
numismatologist
numismatology
nummary
nummi
nummiform
nummular
nummulary
nummulated
nummulation
nummuline
nummulite
nummulitic
nummulitoid
nunlike
nunnari
nunnated
nunnation
nunned
nunerries
nunnery
nunni
nunnify
nunning
nunnish
nunnishness
nunquam
nunry
nuns
nunship
nunting
nuntius
nuphar
nupson
nuptial
nuptiality
nuptialize
nuptially
nuptials
nuque
nuragh
nuraghe
nuraghies
nuraghi
nurhag
nurl
nurled
nurling
nurls
nurly
nury
nursable
nurse
nursed
nursedom
nursegirl
nursehound
nursekeeper
nursekin
nurselet
nurselike
nurseling
nursemaid
nursemaids
nurser
nurseries
nursers
nursery
nursery's
nurserydom
nurseryful
nurserymaid
nurserymaids
nurseryman
nurserymen
nurses
nursetender
nursing
nursingly
nursings
nurse
nursing
nurslings
nursy
nurturable
nurtural
nurturance
nurturant
nurture
nurtured
nurtureless
nurturer
nurturers
nurtures
nurtureship
nurturing
nus
nusfiah
nut
nut's
nutant
nutarian
nutate
nutated
nutates
nutating
nutation
nutational
nutations
nutbreaker
nutbrown
nutcake
nutcase
nutcrack
nutcracker
nutcrackers
nutcrackery
nutgall
nutgalls
nutgrass
nutgrasses
nuthatch
nuthatches
nuthook
nuthouse
nuthouses
nutjobber
nutlet
nutlets
nutlike
nutmeat
nutmeats
nutmeg
nutmegged
nutmeggy
nutmegs
nutpecker
nutpick
nutpicks
nutramin
nutria
nutrias
nutrice
nutrical
nutricism
nutriculture
nutrient
nutrients
nutrify
nutrilite
nutriment
nutrimental
nutriments
nutritional
nutrition
nutritionally
nutritionary
nutritionist
nutritionists
nutritious
nutritiously
nutritiousness
nutritive
nutritively
nutritiveness
nutritory
nutriture
nuts
nutedge
nutedges
nused
nushe
nushells
nusy
nuttaliasis
nuttalliosis
nuted
nutter
nutters
nuttery
nuttier
nuttiest
nuttily
nuttiness
nutting
nuttish
nuttishness
nutty
nutwood
nutwoods
nuzzer
nuzzera
nuzzle
nuzzled
nuzzler
nuzzlers
nuzzles
nuzzling
nv
ny
yalas
nyalas
nyanza
nyas
nybble
nybbles
nybblige
nychthemer
nychthemeral
nychthemerion
nyckelharpa
nyctaginaceous
nyctalgia
nyctalope
nyctalopia
nyctalopic
nyctalops
nyctalopy
nycteribiid
nycterine
nycticorax
nycticlastic
nycticasty
nyctipelagic
nyctipithecin
nyctitropic
nyctitropism
nyctophobia
nycturia
nye
nyet
nylast
nylgau
nylghai
nylghais
nylghau
nylghaus
nylon
nylons
nymil
nymph
nympha
nymphae
nymphaea
nymphaeaceous
nymphaeum
nymphal
nymphalid
nymphaline
nymphaline
nympheal
nymphean
nymphet
nymphets
nymphette
nymphheum
nymphic
nymphical
nymphid
nymphine
nymphiparous
nymphish
nymphitis
nymphlike
nymphlin
nymphly
nympho
nympholepsia
nympholepsies
nympholepsy
nympholept
nympholeptic
nymphomania
nymphomaniac
nymphomaniacal
nymphomaniacs
nymphon
nymphos
nymphosis
nymphotomy
nymphs
nymphwise
nymss
nyphomania
nystagmic
nystagmus
nystatin
nytril
nyxis
o
o'
o'clock
o'er
o'ertop
o's
o/c
o/s
oad
oadal
oaf
oafdom
oafish
oafishly
oafishness
oafs
oak
oakberry
oaken
oakenshaw
oakland
oaklet
oaklike
oakling
oakmoss
oakmosses
oaks
oaktongue
oakum
oakums
oakweb
oakwood
oaky
oam
oar
oar's
oarage
oarcock
oared
oarfish
oarfishes
oarhole
oarial
oarialgia
oaric
oaring
oariocele
oariopathic
oariopathy
oariotomy
oaritic
oaritis
oarium
oarless
oarlike
oarlock
oarlocks
oarlop
oarman
oarrowheaded
oars
obeisant
obeisantly
obeish
obeism
obeli
obelia
obeliac
obelial
obelias
obelion
obeliscal
obeliscar
obelise
obelised
obelises
obelising
obelisk
obelisked
obelisking
obeliskoid
obelisks
obelism
obelisms
obelize
obelized
obelizes
obelizing
obelus
oberon
obes
obese
obesely
obeseness
obesities
obesity
obex
obey
obeyable
obeyance
obeyed
obeyeo
obeyer
obeyers
obeying
obeyingly
obeys
obfirm
obfuscable
oblivion
oblivionate
oblivionist
oblivionize
oblivions
oblivious
obliviously
obliviousness
obliviscence
obliviscible
oblocution
oblocutor
oblong
oblongata
oblongatae
oblongatal
oblongatas
oblongated
oblongish
oblongitude
oblongitudinal
oblongly
oblongness
oblongs
obloquial
obloques
obloquious
obloquy
obmit
obmutescence
obmutescent
obnebulate
obnounce
obnounced
obnouncing
obnuxicity
obnoxious
obnoxiously
obnoxiousness
obnubilate
obnubilation
obnunciation
oboe
oboes
oboist
oboists
obol
obolary
obstipation
obstreperate
obstreperosity
obstreperous
obstreperously
obstreperousness
obstraction
obstringe
obstruct
obstructant
obstructed
obstructedly
obstructor
obstructors
obstructing
obstructingly
obstruction
obstruction's
obstructionism
obstructionist
obstructionistic
obstructionists
obstructions
obstructive
obstructively
obstructiveness
obstructivism
obstructivity
obstructor
obstructors
obstructs
obstruent
obstruse
obstruxit
obstupefy
obtain
obtainability
obtainable
obtainableness
obtainably
obtainal
obtainance
obtained
obtainer
obtainers
obtaining
obtainment
obtains
obtect
obtected
obtemper
obtemperate
obtend
obtenebrate
obtenebration
obtent
obtention
obtest
obtestation
obtested
obtesting
obtests
obtrect
obtriangular
obtrude
obtruded
obtruder
obtruders
obtrudes
obtruding
obtruncate
obtruncation
obtruncator
obtrusion
obtrusionist
obtrusions
obtrusive
obtrusively
obtrusiveness
obtund
obtunded
obtundent
obtunder
obtunding
obtundity
obtunds
obturate
obturated
obturates
obturating
obturation
obturator
obturatory
obturbinate
obtusangular
obtuse
obtusely
obtuseness
obtuser
obtusest
obtusifid
obtusifolious
obtusilingual
obtusilobous
obtusion
obtusipennate
obtusirostrate
obtusish
obtusity
obumbrant
obumbrate
obumbrated
obumbrating
obumbration
obus
obv
obvallate
obvelation
obvention
obversant
obverse
obversely
obverses
obversion
obvert
obverted
obvertend
obverting
obverts
obviable
obviate
obviated
obviates
obviating
obvation
obviations
obviative
obviator
obviators
obvious
obviously
obviousness
obvolute
obvoluted
oceanfront
oceanful
oceangoing
oceania
oceanian
oceanic
oceanicity
oceanid
oceanity
oceanlike
oceanog
oceanographer
oceanographers
oceanographic
oceanographical
oceanographically
oceanographist
oceanography
oceanologic
oceanological
oceanologically
oceanologist
oceanologists
oceanology
oceanophyte
oceanous
oceans
oceanside
oceanus
oceanward
oceanwards
oceanways
oceanwise
ocellana
ocellar
ocellary
ocellate
ocellated
ocellation
ocelli
ocellicyst
ocellicystic
ocelliferous
ocelliform
ocelligerous
ocellus
oceloid
ocelot
ocelots
och
ochava
ochavo
ocher
ochered
ochering
ocherish
ocherous
ochers
ochery
ochidore
ochlesis
ochlesitic
ochletic
ochlocracy
ochlocrat
ochlocratic
ochlocratically
ochlomania
ochlophobia
ochlophobist
ochnaceous
ochone
ochophobist
ochraceous
ochratoxin
ochre
ochrea
ochreae
ochreate
ochred
ochreish
ochreous
ochres
ochring
ochro
ochrocarpous
ochrogaster
ochroid
ochroleucous
ochrolite
ochronosis
ochronosus
ochronotic
ochrous
ochry
octahedrally
octahedric
octahedral
octahedrite
octahedroid
octahedron
octahedrons
octahedral
octahedrous
octahydrate
octahydrated
octakishexahedron
octal
octamerism
octamerous
octometer
octan
octanaphthene
octandria
octandrian
octandrious
octane
octanes
octangle
octangles
octangular
octangularness
octanol
octant
octantal
octants
octapeptide
octapla
octaploid
octaploidic
octaploidy
octapodic
octapody
octarch
octarchies
octarchy
octarius
octaroon
octarticulate
octary
octasemic
octastich
octastichon
octastichous
octuplicate
octuplication
octupling
octuply
octyl
octylene
octyls
octyne
ocuby
ocular
ocularist
ocularly
oculars
oculary
oculate
oculated
oculauditory
oculi
oculariferous
oculariform
ocularigerous
oculinid
oculinoid
oculist
oculistic
oculists
oculli
oculocephalic
oculofacial
oculofrontal
oculomotor
oculomotory
oculonasal
oculopalpebral
oculopupillary
oculospinal
oculozygomatic
oculus
ocurred
ocydrome
ocydromine
ocypodan
ocypode
ocypodian
ocypodoid
ocyte
od
oda
odious
odiously
odiousness
odist
odium
odiumproof
odiums
odling
odograph
odographs
odology
odometer
odometers
odometrical
odometries
odometry
odonate
odonates
odonnell
odontagra
odontalgia
odontalgic
odontatrophia
odontatrophy
odontexesis
odontiasis
odontic
odontist
odontitis
odontoblast
odontoblastic
odontocete
odontocete
odontocetous
odontochirurgic
odontoclasis
odontoclast
odontodynia
odontogen
don'togenes
odontogenesis
odontogenic
odontogeny
odontoglossal
odontoglossate
odontoglossum
odontognathic
odontognathous
odontograph
odontographic
odontography
odontohyperesthesia
odontoid
odontoids
odontolcate
odontolcous
odontolite
odontolith
odontological
odontologist
odontology
odontoloxia
odontoma
odontomous
odontonecrosis
odontoneuralgia
odontonosology
odontopathy
odontophobia
odontophoral
odontophoran
odontophore
odontophorine
odontophorous
odontoplast
odontoplerosis
odontorhynchous
odontornithic
odontorrhagia
odontorthosis
odontoschism
odontoscope
odontosis
odontostomatous
odontostomous
odontotechny
odontotherapia
odontotherapy
odontotomy
odontotripsy
odontotrypy
odoom
odophone
odor
odor's
odorable
odorant
odorants
odorate
odorator
odored
odorful
odoriferant
odoriferosity
odoriferous
odoriferously
odoriferousness
odorific
odorimeter
odorimetry
odoriphor
odoriphore
odorivector
odorization
odorize
odorized
odorizer
odorizes
odorizing
odorless
odorlessly
odorlessness
odorometer
odorosity
odorous
odorously
odorousness
odorproof
odors
odour
odoured
odourful
odourless
odours
ods
odso
odum
odwyer
odyl
odyle
odyles
odylic
odylism
odylist
odylization
oenanthylate
oenanthylic
oenin
oenchoae
oenchoe
oenocyte
oenocytic
oenolic
oenolin
oenological
oenologies
oenologist
oenology
oenomancy
oenomania
oenomel
oenomels
oenometer
oenone
oenophile
oenophiles
oenophilist
oenophobist
oenopoetic
oenotheraceous
oer
oerlikon
oersted
oersteds
oes
oesogi
oesophagal
oesophageal
oesophagean
oesophagi
oesophagism
oesophagismus
oesophagitis
oesophagostomiasis
oesophagus
oesradiol
oestrian
oestriasis
oestrid
oestrin
oestrins
oestriol
oestriols
oilskins
oilstock
oilstone
oilstoned
oilstones
oilstoning
oilstove
oiltight
oiltightness
oilway
oilways
oilwell
oily
oilyish
oime
oink
oinked
oinking
oinks
oinchoai
oinchoe
oinchoes
oinchoi
oinologies
oinology
oinomancy
oinomania
oinomel
oinomels
oint
oointment
oointments
oisin
oisivity
oitava
oticica
oticicas
ojibwa
ojibwas
ok
oka
okanagan
okapi
okapis
okas
okay
okayed
okaying
oldest
oldfangled
oldfangledness
oldhamite
oldhearted
oldie
oldies
oldish
oldland
oldness
oldnesses
olds
oldsmobile
older
oldsters
oldstyle
oldstyles
oldwrench
oldwife
oldwives
oldy
ole
olea
oleaceous
oleaginous
oleaginously
oleaginousness
oleana
oleander
oleanders
oleandomycin
oleandrin
oleandrine
oleary
olease
oleaster
oleasters
oleate
oleates
olecranal
olecranarthritis
olecranal
olecranian
olecranoid
olecranon
olefiant
olefin
olefine
olefines
olefinic
olefins
oleic
oleiferous
olein
oleine
oleines
oleins
olen
olenellidin
olenid
olenidian
olent
oleo
oleocalcareous
oleocellosis
oleocyst
oleoduct
oleograph
oleographer
oleographic
oleography
oleomargaric
oleomargarin
oleomargarine
oleometer
oleoptene
oleorefractometer
oleoresin
oleoresinous
oleoresins
oleos
oleosaccharum
oleose
oleosity
oleosteate
oleostearate
oleostearin
oleostearine
oleothorax
oleous
oleoyl
olepy
oleraceous
olericultural
olericulturally
olericulture
olericulturist
oleron
oles
olethreutid
oleum
oleums
olfact
olfactable
olfactible
olfaction
olfactive
olfactology
olfactometer
olfactometric
olfactometry
olfactophobia
olfactor
olfactoreceptor
olfactories
olfactorily
olfactory
olfacty
oliban
olibanum
olibanums
olibene
olid
oligacanthous
oligaemia
oligandrous
oliganthous
oligarch
oligarchal
oligarchic
oligarchical
oligarchically
oligarchies
oligarchism
oligarchist
oligarchize
oligarchs
oligarchy
oligemia
oligidic
oligidria
oligist
oligistic
oligistical
oligocarpous
oligocene
oligochaete
oligochaetous
oligochete
oligocholia
oligochrome
oligochromemia
oligochronometer
oligochylia
oligoclase
oligoclasicite
oligocystic
oligocytymia
oligocytymic
oligodactyla
oligodendroglia
oligodendroglioma
oligodipsia
oligodontous
oligodynamic
oligogalactia
oligohemia
oligohydrarnnios
oligolactia
oligomenorrhea
oligomer
oligomeric
oligomerization
oligomerous
oligomers
oligomery
oligometochia
oligometochic
oligomyacin
oligomyodian
oligomyoid
oligonephric
oligonephrous
oligonite
oligonucleotide
oligopepsia
oligopetalous
oligophagous
oligophagy
oligophysaturia
oligophrenia
oligophrenic
oligophyllous
oligoplasma
oligopnea
oligopolist
oligopolistic
oligopoly
oligoprothesy
oligoprothetic
oligopsonistic
oligopsony
oligopsychia
oligopyrene
oligorhizous
oligosaccharide
oligosepalous
oligosialia
oligosideric
oligosiderite
oligosite
oligospermia
oligospermous
oligostemonous
oligosyllabic
oligosyllable
oligosynthetic
oligotokeus
oligotokous
oligotrichia
oligotrophic
oligotrophy
oligotropic
oliguresia
oliguresis
oliguretic
oliguria
oliniaceous
olio
olios
oliphant
oliprance
olitory
oliva
olivaceous
olivary
olivaster
olive
olive's
olived
oliveness
ombrophyte
ombudsman
ombudsmen
ombudsperson
omega
omegas
omegoid
omelet
omelets
omelette
omelettes
omelie
omen
omen's
omened
omening
omenology
omens
omenta
omental
omentectomy
omentitis
omentocele
omentofixation
omentopexy
omentoplasty
omentorrhaphy
omentosplenopexy
omentotomy
omentulum
omentum
omentums
omentuta
omer
omers
omicron
omicrons
omikron
omikrons
omina
ominate
ominous
ominously
ominousness
omissible
omission
omission's
omissions
omissive
omissively
omissus
omit
omitis
omits
omittable
omittance
omitted
omitter
omitting
omlah
ommatea
ommateal
ommateum
ommatidia
ommatidial
ommatidium
ommatitidia
ommatophore
ommatophorous
ommetaphobia
omneity
omnes
omni
omniactive
omniactuality
omniana
omniarch
omniarchs
omnibearing
omnibenevolence
omnibenevolent
omnibus
omnibuses
omnibusman
omnicausality
omnicompetence
omnicompetent
omnicorporeal
omnicredulity
omnicredulous
omnidenominational
omnidirectional
omnidistance
omnierudite
omniessence
omnifacial
omnifarious
omnifariously
omnifariousness
omniferous
omnific
omnificence
omnificent
omnifidel
omnified
omnifocal
omniform
omniformal
omniformity
omnify
omnifying
omnigenous
omnigerent
omnigraph
omnihuman
omnihumanity
omnilegent
omnilingual
omniloquent
omnilucent
omnidental
omnimeter
omnimode
omnimodous
omninescence
omninescent
omniparent
omniparient
omniparity
omniparous
omnipatient
omnipercipience
omnipercipiency
omnipercipient
omnipercipient
omnipotentiality
omnipotently
omnipregnant
omnipresent
omnipresently
omniprevalence
omniprevalent
omniproduction
omniprudence
omniprudent
omnirange
omniregency
omniregent
omnirepresentative
omnirepresentativeness
omnirevealing
omniscience
omniscency
omniscient
omnisciently
omniscopie
omniscribenent
omniscriptive
omnisentience
omnisentient
omnisignificance
omnisignificant
omnispective
omnist
omnisufficiency
omnisufficient
omnitemporal
omnitenent
omnitolerant
omnitonal
omnitonalibility
omnitonic
omnitude
omnium
omnivagant
omnivalence
omnivalent
omnivalous
omnivarious
omnividence
omnivident
omnivision
omnivolent
omnivora
omnivoracious
omnivoracity
omnivorant
omnivore
omnivores
omnivorism
omnivorous
omnivorously
omnivorousness
omodynia
omohyoid
omoideum
omophagia
omophagic
omophagies
omophagist
omophagous
omophagy
omophoria
omophorion
omoplate
omoplatoscopy
omostegite
omosternal
omosternum
omphacine
omphacite
omphacy
omphalectomy
omphali
omphalic
omphalism
omphalitis
omphalocele
omphalode
omphalodia
omphalodium
omphalogenous
omphaloid
omphaloma
omphalomesaraic
omphalomesenteric
omphalonus
omphalopagus
omphalophilebitis
omphalopsychic
omphalopsychite
omphalorrhagia
omphalorrhea
omphalorrhesis
omphalos
omphalosite
omphaloskepsis
omphalospinous
omphalotomy
omphalotripsy
omphalus
omrah
oms
on
ona
onager
onagers
onaggri
onagra
onagraceous
onagri
onianism
onianisms
onianist
onianistic
onianists
onboard
onca
once
oncer
onces
oncet
oncetta
onchocerciasis
onchocercosis
oncia
oncidium
oncidiums
oncin
oncogenesis
oncogenic
oncogenicity
oncograph
oncography
oncologic
oncological
oncologies
oncologist
oncology
oncome
oncometer
oncometric
oncometry
oncoming
oncomings
oncoses
oncosimeter
oncosis
oncosphere
oncost
oncostman
oncotic
oncotomy
ondagram
ondagraph
ondameter
ondascope
ondatra
ondine
onding
ondogram
ondograms
ondograph
ondometer
ondoscope
ondoyant
ondule
ondy
one
one’s
oneanother
oneberry
onefold
onefoldness
onegite
onehearted
onehood
onehow
oneida
oneidas
oneill
oneeric
oneiocrict
oneiocratic
oneiocrinical
oneiocrinically
oneiocraticism
oneiocritics
oneiodynia
oneiologist
oneiology
oneiromancer
oneiromancy
oneiroscopic
oneiroscopist
oneiroscopy
oneirotic
oneism
onentment
oneness
onenesses
oner
onerary
onerate
onervative
onerie
oneriest
oneros
onerosities
onerosity
onorous
onersly
onersousness
onery
ones
oneself
onesigned
onethe
onetime
oneupmanship
onewhere
oneyer
onfall
onflamed
onflow
onflowing
ongan
ongoing
onhanger
oni
onicolo
oniomania
oniomaniac
onion
onionet
onionized
onionlike
onionpeel
onions
onionskin
onionskins
onyony
onirotic
onisciform
oniscoid
oniscoidean
onium
onker
onkilonite
onkos
onlaid
onlap
onlay
onlaying
onlepy
onless
onliest
online
onliness
onlook
onlooker
onlookers
onlooking
only
onmarch
ono
onocentaur
onocrotal
onofrite
onolatry
onomancy
onomantia
onomasiological
onomasiology
onomastic
onomastical
onomasticon
onomastics
onomatologic
onomatological
onomatologically
onomatologist
onomatology
onomatomancy
onomatomania
onomatop
onomatope
onomatophobia
ontogeneses
ontogenesis
ontogenetic
ontogenetical
ontogenetically
ontogenic
ontogenically
ontogenies
ontogenist
ontogeny
ontography
ontologic
ontological
ontologically
ontologies
ontologise
ontologised
ontologising
ontologism
ontologist
ontologistic
ontologize
ontology
ontosophy
onus
onuses
onwaiting
onward
onwardly
onwardness
onwards
ony
onycha
onychatrophia
onychauxis
onychia
onychin
onychite
onychitis
onychium
onychogryposis
onychoid
onycholysis
onychomalacia
onychomaney
onychomycosis
onychonosus
onychopathic
onychopathology
onychopathy
onychophagia
onychophagist
onychophagy
onychophoran
onychophorous
onychophyma
onychoptosis
onychorrhexis
onychoschizia
onychosis
onychotrophy
onym
onymal
onymancy
onymatic
onymity
onymize
onymous
onymy
onyx
onyxes
onyxis
onyxitis
onza
ooangium
oobit
ooblast
ooblastic
oocytesis
oocyst
oocystaceous
oocystic
oocysts
oocyte
oocytes
oodles
oodlins
ooecia
ooecial
ooecium
oof
oofbird
oofier
oofiest
oofless
oofish
oofy
oogamete
oogametes
oogamies
oogamous
oogamy
oogenesis
oogenetic
oogenies
oogeny
ooglea
oogloea
oogone
oogonia
oogonial
oogoninia
oogoniaphore
oogonium
oogoniums
oograph
ooh
oohed
oohing
oohs
ooid
ooidal
ookinesis
ookinete
ookinetic
oolachan
oolachans
oolak
oolakan
oolenna
oolite
oolites
oolith
ooliths
oolitic
oolies
oolly
oologic
oological
oologically
oology
oologist
oologists
oologize
oology
oolong
oolongs
oomancy
oomantia
oometer
oometric
oometry
oomiac
oomiack
oomiacks
oomiacs
oomiak
oomiaks
oomph
oomphs
oomycete
oomycetes
oomycetous
oons
oont
oooo
oopack
oopak
oophalgie
oophorauxe
oophore
oophorectomies
oophorectomize
oophorectomized
oophorectomizing
oophorectomy
oophorecele
oophorrhysterectomy
oophoric
oophorida
oophoridium
oophoridiums
oophoritis
oophorocele
oophorocystectomy
oophoroepilepsy
oophoroma
oophoromalacia
oophoromania
oophoron
oophoropexy
oophororrhaphy
oophorosalpingectomy
oophorostomy
oophorotomy
oophyte
oophytes
oophytic
ooplasm
ooplasmic
ooplast
oopod
oopodal
ooporphyrin
oops
oopuhue
oorali
oralis
oord
oorial
oorie
oory
oos
ooscope
oscopcy
oose
oosperm
oosperms
oosphere
oospheres
oosporange
oosporangia
oosporangium
oospore
oospores
oosporic
oosporiferous
oosporous
oostegite
oostegitic
osterbeek
oot
ootheca
oothecae
oothecal
ootid
ootids
ootocoid
ootocoidean
opaleye
opaline
opalines
opalimid
opalinine
opalish
opalize
opalized
opalizing
opaloid
opalotype
opals
opaque
opaqued
opaquely
opaqueness
opaquer
opaques
opaquest
opaquing
opcode
opdalite
ope
opel
oped
opedeldoc
opeidoscope
opelet
opelu
open
openability
openable
openairish
openairness
openband
openbeak
openbill
opencast
openchain
opencircuit
opencut
opened
openendedness
opener
openers
openest
openhanded
openhandedly
operatically
operatics
operating
operation
operation's
operational
operationalism
operationalist
operationalistic
operationally
operationism
operationist
operations
operative
operatively
operativeness
operatives
operativity
operatize
operator
operator's
operators
operatory
operatrices
operatrix
operecle
operecle
opercle
opercled
opercula
opercular
operculate
operculated
opercule
opercules
operculiferous
operculiform
operculigenous
operculigerous
operculum
operculums
operetta
operettas
operette
operettist
operla
operon
operons
operose
operосely
operoseness
operosity
opes
ophelia
ophelimity
ophiasis
ophic
ophicalcite
ophicephaloid
ophichthyoid
ophicleide
ophicleidean
ophicleidist
ophidia
ophidian
ophidians
ophidioid
ophidiomania
ophidiophobia
ophidious
ophidium
ophidologist
ophidology
ophioglossaceous
ophiography
ophioind
ophiolater
ophiolatrous
ophiolatry
ophiolite
ophiolic
ophiologic
ophiologica
ophiologist
ophiology
ophiomancy
ophiomorph
ophiomorphic
ophiomorphous
ophionid
ophionine
ophiophagous
ophiophagus
ophiophilism
ophiophilist
ophiophobe
ophiophobia
ophiophobia
ophioplateus
ophiostaphyle
ophiouride
ophir
ophite
ophites
ophitic
ophiuchus
ophiuclus
ophiuran
ophiurid
ophiuroid
ophiuroidean
ophresiophobia
ophryon
ophthalaiater
ophthalitis
ophthalm
ophthalmagra
ophthalmalgia
ophthalmalgic
ophthalmatrophia
ophthalmectomy
ophthalmencephalon
ophthalmetrical
ophthalmia
ophthalmiac
ophthalmiater
ophthalmiatrics
ophthalmic
ophthalmious
ophthalmist
ophthalmite
ophthalmite
ophthalmite
ophthalmite
ophthalmitis
ophthalmoblenorrhrea
ophthalmocarcinoma
ophthalmocele
ophthalmocopia
ophthalmodiagnosis
ophthalmodiastimeter
ophthalmodynamometer
ophthalmodynia
ophthalmography
ophthalmol
ophthalmoleucoscope
ophthalmolith
ophthalmologic
ophthalmological
ophthalmologically
ophthalmologies
ophthalmologist
ophthalmologists
ophthalmology
ophthalmomalacia
ophthalmometer
ophthalmometric
ophthalmometrical
ophthalmometry
ophthalmomycosis
ophthalmomyositis
ophthalmomyotomy
ophthalmoneuritis
ophthalmopathy
ophthalmophlebotomy
ophthalmophore
ophthalmophorous
ophthalmophthisis
ophthalmoplasty
ophthalmoplegia
ophthalmoplegic
ophthalmopod
ophthalmoptosis
ophthalmorrhagia
ophthalmorrhea
ophthalmorrhexis
ophthalmoscope
ophthalmoscopes
ophthalmoscopic
ophthalmoscopical
ophthalmoscopies
ophthalmoscopist
ophthalmoscopy
ophthalmostasis
ophthalmostat
ophthalmostatometer
ophthalmothermometer
ophthalmotomy
ophthalmotomy
ophthalmotonometer
ophthalmotonometry
ophthalmotrope
ophthalmotropometer
ophthalmy
opiane
opisthogyrate
opisthogyrous
opisthoparian
opisthophagic
opisthoporeia
opisthorchiasis
opisthosomal
opisthotic
opisthotonic
opisthotonoid
opisthotonos
opisthotonus
opium
opiumism
opiumisms
opiums
opobalsam
opobalsamum
opodeldoc
opodidymus
opodymus
opopanax
opoconax
oporo
opossum
opossums
opotherapy
opp
oppida
oppidan
oppidans
oppidum
oppignerate
oppignorate
oppilant
oppilate
oppilated
oppilates
oppilating
oppilation
oppilative
opplete
oppletion
oppone
opponency
opponens
opponent
opponent's
oppossum
opposure
oppress
oppressed
oppresses
oppressible
oppressing
oppression
oppressionist
oppressive
oppressively
oppressiveness
oppressor
oppressor's
oppressors
opprobriate
opprobriated
opprobriating
opprobrious
opprobriously
opprobriousness
opprobrium
opprobriums
opprobry
oppugn
oppugnacy
oppugnance
oppugnancy
oppugnant
oppugnate
oppugnation
oppugned
oppugner
oppugners
oppugning
oppugns
ops
opsigamy
opsimath
opsimathy
opsin
opsins
opsiometer
opsiform
opsistype
opsonia
opsonic
opsoniferous
opsonification
opsonified
opsonifies
opsonify
opsonifying
opsonin
opsonins
opsonist
opsonium
opsonization
opsonize
opsonized
opsonizes
opsonizing
opsonogen
opsonoid
opsonology
opsonometry
opsonophilia
opsonophilic
opsonophobic
opsonotherapy
opsy
opt
optable
optableness
optably
optant
optate
optation
optative
optatively
optatives
opted
ophthalmic
ophthalmologic
ophthalmology
ophthalmophorium
ophthalmoplegy
ophthalmoscopy
ophthalmothermometer
optic
optical
optically
optician
opticians
opticism
opticist
opticists
opticity
optically
opticochemical
optiociliary
opticon
opticopapillary
opticopupillary
optics
optigraph
optima
optimacy
optimal
optimality
optimally
optimates
optime
optimes
optimeter
optimise
optimised
optimises
optimising
optimism
optimisms
optimist
optimistic
optimistical
optimistically
optimisticalness
optimists
optimity
optimization
optimization's
optimizations
optimize
optimized
optimizer
optimizers
optimizes
optimizing
optimum
optimums
opting
option
option's
optional
opuscule
opuscles
opusculum
opuses
oquassa
oquassas
or
or's
ora
orabassu
orach
orache
oraches
oracle
oracle's
oracler
oracles
oracula
oracular
oracularity
oracularly
oracularness
oraculate
oraculous
oraculously
oraculousness
oraculum
oracy
orad
orae
orange
oragious
oraison
oral
orale
oraler
oralism
oralist
oralities
orality
oralization
oralize
orally
oralogist
oralogy
orals
orang
orange
orange's
orangeade
orangeades
orangeado
orangeat
orangeberries
orangeberry
orangebird
orangeish
orangeleaf
orangeman
orangeness
oranger
orangeries
orangeroot
orangery
oranges
orangewoman
orangewood
orangey
orangier
orangiest
oranginess
orangish
orangism
orangist
orangite
orangize
orangoutan
orangoutang
orangs
orangutan
orangutang
orangutans
orangy
orans
orant
orante
orantes
oraria
orarian
orarion
orarium
orary
oras
orate
orated
orates
orbific
orbing
orbit
orbital
orbitale
orbitally
orbitals
orbitar
orbitary
orbite
orbited
orbitelar
orbitelarian
orbitele
orbitelous
orbiter
orbiters
orbiting
orbitofrontal
orbitolite
orbitomalar
orbitomaxillary
orbitonasal
orbitopalpebral
orbitosphenoid
orbitosphenoidal
orbitostat
orbitotomy
orbitozygomatic
orbits
orbitude
orbity
orbless
orbet
orblike
orbs
orby
orc
orca
orcanian
orcanet
orcanette
orcas
orcein
orceins
orch
orchamus
orchanet
organella
organellae
organelle
organelles
organer
organette
organic
organically
organical
organicalness
organicism
organicismal
organicist
organicistic
organicity
organics
organific
organifier
organify
organising
organisable
organisable
organisation
organisational
organisationally
organise
organised
organises
organising
organism
organism's
organismal
organismic
organismically
organisms
organist
organist's
organistic
organistrum
organists
organistship
organity
organizability
organizable
organization
organization's
organizational
organizationally
organizationist
organizations
organizatory
organize
organized
organizer
organizers
organizes
organizing
organless
organoantimony
organoarsenic
organobismuth
organoboron
organochlorine
organochordium
organogel
organogen
organogenesis
organogenetic
organogenetically
organogenic
organogenist
organogeny
organogold
organographic
organographical
organographies
organographist
organography
organoid
organoiron
organolead
organoleptic
organoleptically
organolithium
organologic
organological
organologist
organology
organomagnesium
organomercurial
organomercury
organometallic
organon
organonomic
organonomy
organons
ornithobiographical
ornithobiography
ornithocephalic
ornithocephalous
ornithocoprolite
ornithocopros
ornithodelph
ornithodelphian
ornithodelphic
ornithodelphous
ornithogeographic
ornithogeographical
ornithography
ornithoid
ornithol
ornitholite
ornitholitic
ornithologic
ornithological
ornithologically
ornithologist
ornithologists
ornithology
ornithomancy
ornithomania
ornithomantia
ornithomantic
ornithomantist
ornithomimid
ornithomorph
ornithomorphic
ornithomyzous
ornithon
ornithophile
ornithophilist
ornithophilite
ornithophilous
ornithophily
ornithophobia
ornithopod
ornithopter
ornithorhynchous
ornithorhynchus
ornithosaur
ornithosaurian
ornithoscelidan
ornithoscopic
ornithoscopist
orthoborate
orthobrachycephalic
orthocarbonic
orthocarpous
orthocenter
orthocentre
orthocentric
orthocephalic
orthocephalous
orthocephyaly
orthoceracone
orthoceras
orthoceratite
orthoceratic
orthoceratoid
orthochlorite
orthochromatic
orthochromatize
orthoclase
orthoclasite
orthoclasic
orthocoumaric
orthocresol
orthocym
orthocymene
orthodiaene
orthodiagonal
orthodiagram
orthodiagraph
orthodiagraphic
orthodiagraphy
orthodiazin
orthodiazone
orthodolichocephalic
orthodomatic
orthodome
orthodontia
orthodontic
orthodontics
orthodontist
orthodontists
orthodox
orthodoxal
orthodoxality
orthodoxally
orthodoxes
orthodoxian
orthodoxical
orthographies
orthographise
orthographised
orthographising
orthographist
orthographize
orthographized
orthographizing
orthography
orthohydrogen
orthologer
orthologian
orthological
orthology
orthometopic
orthometric
orthometry
orthomolecular
orthomorphic
orthonitroaniline
orthonormal
orthonormality
orthopaedia
orthopaedic
orthopaedically
orthopaedics
orthopaedist
orthopaedy
orthopath
orthopathic
orthopathically
orthopathy
orthopedia
orthopedic
orthopedical
orthopedically
orthopedics
orthopedist
orthopedists
orthopedy
orthophenylene
orthophonic
orthophony
orthophoria
orthpheric
orthosphoric
orthosphosphate
orthosphorific
orthophyre
orthophyric
orthopinacoid
orthopinacoidal
orthoplastic
orthoplasy
orthoplumbate
orthopnea
orthopneic
orthopnoea
orthopnoeic
orthopod
orthopraxia
orthopraxis
orthopraxy
orthoprism
orthopsychiatric
orthopsychiatrical
orthopsychiatrist
orthopsychiatry
orthopter
orthoptera
orthopteral
orthopteron
orthopteran
orthopterist
orthopteroid
orthopterological
orthopterologist
orthopterology
orthopteron
orthopterous
orthoptetera
orthoptic
orthoptics
orthopyramid
orthopyroxene
orthquinone
orthorhombic
orthorrhaphous
orthorrhaphy
orthoscope
orthoscopic
orthose
orthoselection
orthosemidin
orthosemidine
orthosilicate
orthosilicic
orthosis
orthosite
orthosomatic
orthospermyous
orthostat
orthostatai
orthostates
orthostati
orthostatic
orthostichies
orthostichous
orthostichy
orthostyle
orthosubstituted
orthosymmetric
orthosymmetrical
orthosymmetrically
orthosymmetry
orthotactic
orthotectic
orthotic
orthotics
orthotist
orthotolidin
orthotolidine
orthotoluic
orthotoluidin
orthotoluidine
orthotomic
orthotomous
orthotone
orthotonesis
orthotonic
orthotonus
orthotropal
orthotropic
orthotropically
orthotropism
orthotropous
orthotropy
orthotype
orthotypous
orthovanadate
orthovanadic
orthoveratraldehyde
orthoveratric
orthoxazin
orthoxazine
orthoxylene
orthron
orthros
ortiga
ortive
ortman
ortolan
ortolans
orts
ortstaler
ortstein
ortygan
ortygine
orvet
orvieta
orvieta
orvietite
orvieto
orwell
orwellian
ory
orycterope
oryctics
oryctognostic
oryctognostical
oryctognostically
oryctognosy
oryctologic
oryctologist
oryctology
oryssid
oryx
oryxes
oryzanin
oryzanine
oryzenin
oryzivorous
os
osage
osages
osaka
osamin
osamine
osar
osazone
oscan
oscar
oscars
oscella
oscheal
oscheitis
oscheocarcinoma
oscheocele
oscheolith
oscheoma
oscheoncus
oscheoplasty
oscillance
oscillancy
oscillant
oscillariaceous
oscillate
oscillated
oscillates
oscillating
oscillation
oscillation's
oscillational
oscillations
oscillative
oscillatively
oscillator
oscillator's
oscillatoria
oscillatoriaceous
oscillatorian
oscillators
oscillary
oscillogram
oscillograph
oscillographic
oscillographically
oscillographies
oscillography
oscillometer
oscillometric
oscillometries
oscillometry
oscilloscope
oscilloscope's
oscilloscopes
oscilloscopic
oscilloscopically
oscin
oscline
oscines
oscinian
oscinine
osmanli
osmate
osmateria
osmaterium
osmatic
osmatism
osmazomatic
osmazomatous
osmazome
osmesis
osmeteria
osmeterium
osmetic
osmiamic
osmic
osmics
osmidrosis
osmin
osmina
osmious
osmiridium
osmite
osmium
osmiums
osmodyshphoria
osmogene
osmograph
osmol
osmolagnia
osmolal
osmolality
osmolar
osmolarity
osmology
osmols
osmometer
osmometric
osmometrically
osmometry
osmond
osmondite
osmophobia
osmophore
osmoregulation
osmoregulatory
osmoscope
osmose
osmosed
osmoses
osmosing
osmosis
osmotactic
osmotaxis
osmotherapy
osmotic
osmotically
osmous
osmund
osmunda
osmundaceous
osmundas
osmundine
osmunds
osnaburg
osnaburgs
osoberries
osoberry
osone
osophies
osophone
osophy
osotriazine
osotriazole
osperm
osphere
osphradia
osphradial
osphradium
osphresiolagnia
osphresiologic
osphresiologist
osphresiology
osphresiometer
osphresiometry
osphresiophilia
osphresis
osphretic
osphyalgia
osphyalgic
osphyarthritis
osphyitis
osphyocele
osphyomelitis
ospore
osprey
ospreys
ossivorous
ossuaries
ossuarium
ossuary
ossypite
ostalgia
ostariophysan
ostariophysal
ostariophysous
ostarthritis
osteal
ostalgie
osteanabrosis
osteanagenesis
ostearthritis
ostearthrotomy
ostectomies
ostectomy
osteectomies
osteectomy
osteectopia
osteectopy
osteectomy
ostein
ostetic
osteitides
osteitis
ostemia
osteempyesis
ostend
ostensibilities
ostensibility
ostensible
ostensibly
ostension
ostensive
ostensively
ostensoria
ostensorsories
ostensorium
ostensorsoria
ostensory
ostent
ostentate
ostentation
ostentatious
ostentatiously
ostentatiousness
ostentive
ostentous
osteoaneurysm
osteoarthritic
osteoarthritis
osteoarthropathy
osteoarthrotomy
osteoblast
osteoblastic
osteoblastoma
osteocachetic
osteocarcinoma
osteocartilaginous
osteocel
osteoecephaloma
osteochondritis
osteochondrofibroma
osteochondroma
osteochondromatous
osteochondropathy
osteochondrophyte
osteochondrosarcoma
osteochondrous
osteoclasia
osteoclastic
osteoclast
osteoclastic
osteoclasty
osteocolla
osteocomma
osteocranium
osteocystoma
osteocyte
osteodentine
osteodermal
osteoderm
osteodermal
osteodermatus
osteodermia
osteodermis
osteodermous
osteodiaphysis
osteodynia
osteodystrophy
osteoecephaloma
osteoenchondroma
osteoeipiphysis
osteofibroma
osteofibrous
osteogangrene
osteogen
osteogenesis
osteogenetic
osteogenic
osteogenist
osteogenous
osteogeny
osteoglossid
osteoglossoid
osteographer
osteography
osteohalisteresis
osteoid
osteoids
osteolite
osteologer
osteologic
osteological
osteologically
osteologies
osteologist
osteology
osteolysis
osteolytic
osteoma
osteomalacia
osteomalacial
osteomalacic
osteomancy
osteomancy
osteomas
osteomata
osteomatoid
osteome
osteomere
osteometric
osteometrical
osteometry
osteomyelitis
osteocacus
osteonecrosis
osteoneuralgia
osteopaedion
osteopath
osteopathic
osteopathically
osteopathies
osteopathist
osteopaths
osteopathy
osteopedion
osteoperiosteal
osteoperiostitis
osteopetrosis
osteophage
osteophagia
osteophlebitis
osteophone
osteophony
osteophore
osteophyma
osteophyte
osteophytic
osteoplaque
osteoplast
osteoplastic
osteoplasties
osteoplasty
osteoporosis
osteoporotic
osteorrhaphy
osteosarcoma
osteosarcomatous
osteoscleroses
osteosclerosis
osteosclerotic
osteoscope
osteosis
osteosteatoma
osteostixis
osteostomatous
osteostomous
osteostracan
osteosuture
osteosynovitis
osteosynthesis
osteothrombosis
osteotome
osteotomies
osteotomist
osteotomy
osteotribe
osteotrite
osteotrophic
ostracoderm
ostracodous
ostracods
ostracoid
ostracon
ostracophore
ostracophorous
ostracum
ostraite
ostrca
ostreaceous
ostreger
ostreicultural
ostreiculture
ostreiculturist
ostreiform
ostreodynamometer
ostreoid
ostreophage
ostreophasist
ostreophagous
ostrich
ostrich's
ostriches
ostrichlike
ostringer
ostrogoth
ostsis
ostsises
osullivan
oswego
ot
otacoustic
otacousticon
otacust
otalgia
otalgias
otalgic
otalgies
otalgy
otarian
otaries
otarine
otariine
otarioid
otary
otate
otc
otidiform
otidine
otidium
otiorhynchid
otiose
otiosely
otioseness
otiosities
otiosity
otic
otitides
otitis
otium
otkon
otoantritis
otoblenorrhrea
otocariasis
otocephalic
otocephaly
otocerebritis
otoceleisis
otoconia
otoconial
otoconite
otoconium
otocranar
otocranial
otocranic
otocranium
otocyst
otocystic
otocysts
otodynia
otodynic
otoencephalitis
otogenic
otogenous
otographical
otography
otohemineurasthenia
otolaryngologic
otolaryngological
otolaryngologies
otolaryngologist
otolaryngologists
otolaryngology
otolite
otolith
otolithic
otoliths
otolitic
otologic
otological
otologically
otologies
otologist
otology
otomassage
otomucormycosis
otomyces
otomycosis
otonecrectomy
otoneuralgia
otoneurasthenia
otoneurology
otopathic
otopathicetc
otopathy
otopharyngeal
otophone
otopiesis
otoplactic
otoplasty
otopolypus
otopyorrhea
otopyosis
otorhinolaryngologic
otorhinolaryngologist
otorhinolaryngology
otorrhagia
otorrhea
otorrhoea
otosalpinx
otosclerosis
otoscope
otoscopes
otoscopic
otoscopies
otoscopy
otosis
otosphenal
otosteal
otosteon
ototai
ototomy
ototoxic
ousia
oust
ousted
oustee
ouster
ousters
ouisting
oustiti
ousts
out
outact
outacted
outacting
outacts
outadd
outadded
outadding
outadds
outadmiral
outage
outages
outambush
outarde
outargue
outargued
outargues
outarguing
outas
outasight
outask
outasked
outasking
outasks
outate
outawe
outawed
outawing
outbabble
outbabbled
outbabbling
outback
outbacker
outbacks
outhade
outhake
outhaked
outhaked
outhakes
outhaking
outbalance
outbalanced
outbalances
outbalancing
outban
outbanned
outbanning
outbanter
outbar
outbargain
outbargained
outbargaining
outbargains
outbark
outbarked
outbarking
outbarks
outbarred
outbarring
outbarter
outbat
outbatted
outbatter
outbatting
outbawl
outbawled
outbawling
outbawls
outbbled
outbbled
outbbred
outbeam
outbeamed
outbeaming
outbeams
outbear
outbearing
outbeg
outbeggar
outbegged
outbegging
outbegs
outbelch
outbellow
outbend
outbending
outbent
outbetter
outbid
outdoer
outdoers
outdoes
outdoing
outdone
outdoor
outdoorness
outdoors
outdoorsman
outdoorismanship
outdoorsmen
outdoorsy
outdraft
outdragon
outdrank
outdraught
outdraw
outdrawing
outdrawn
outdraws
outdream
outdreamed
outdreaming
outdreams
outdreamt
outdress
outdressed
outdresses
outdressing
outdrew
outdrink
outdrinking
outdrinks
outdrive
outdriven
outdrives
outdriving
outdrop
outdropped
outdropping
outdrops
outdrove
outdrunk
outdure
outdwell
outdweller
outdwelling
outdwelt
outfawns
outfeast
outfeasted
outfeasting
outfeasts
outfeat
outfed
outfeed
outfeeding
outfeel
outfeeling
outfeels
outfelt
outfence
outfenced
outfencing
outferret
outffed
outfiction
outfield
outfielded
outfielder
outfielders
outfielding
outfields
outfieldsman
outfieldsmen
outfight
outfighter
outfighting
outfights
outfigure
outfigured
outfiguring
outfind
outfinding
outfinds
outfire
outfired
outfires
outfiring
outfish
outfit
outfit's
outfits
outfitted
outfitter
outfitters
outgiving
outglad
outglare
outglared
outglares
outglaring
outgleam
outglitter
outgloom
outglow
outgloved
outglowing
outglows
outgnaw
outgnawed
outgnawing
outgnawn
outgnaws
outgo
outgoer
outgoes
outgoing
outgoingness
outgoings
outgone
outgreen
outgrew
outgrin
outgrinned
outgrinning
outgrins
outground
outgroup
outgroups
outgrow
outgrowing
outgrown
outgrows
outgrowth
outgrowths
outguard
outguess
outguessed
outguesses
outguessing
outguide
outguided
outguides
outguiding
outgun
outgunned
outgunning
outguns
outgush
outgushes
outgushing
outhammer
outhasten
outhaul
outhauler
outhauls
outhear
outheard
outhearing
outhears
outheart
outhector
outheel
uther
outhire
outhired
outhiring
outhiss
outhit
outhits
outhitting
outhold
outhorn
outhorror
outhouse
outhouses
outhousing
outhowl
outhowled
outhowling
outhowls
outhue
outhumor
outhumored
outhumoring
outhumors
outhunt
outhurl
outhut
outhynn
outhyperbolize
outhyperbolized
outhyperbolizing
outimage
outing
outings
outinvent
outish
outissue
outissued
outissuing
outjazz
outjest
outjet
outjetted
outjetting
outjinx
outjinxed
outjinxes
outjinxing
outjockey
outjourney
outjourneyed
outjourneying
outjuggle
outjugged
outjuggling
outjump
outjumped
outjumping
outjumps
outjut
outjuts
outjetted
outjetting
outkeep
outkeeper
outkeeping
outkeeps
outkept
outkick
outkicked
outkicking
outkicks
outkill
outking
outkiss
outkissed
outkisses
outsider
outsider's
outsiderness
outsiders
outsides
outsift
outsigh
outsight
outsights
outsin
outsing
outsinging
outsings
outsinned
outsinning
outsins
outsit
outsits
outsitting
outsize
outsized
outsizes
outskill
outskip
outskipped
outskipping
outskirmish
outskirmisher
outskirt
outskirter
outskirts
outslander
outslang
outsleep
outsleeping
outsleeps
outslept
outslick
outslid
outslide
outsling
outslip
outsmart
outsmarted
outsmarting
outsmarts
outsmell
outspeed
outspell
outspelled
outspelling
outspells
outspelt
outspend
outspending
outsends
outspent
outspied
outspill
outspin
outspinned
outspinning
outspirit
outspit
outsplendor
outspoken
outspokenly
outspokenness
outsport
outspout
outsprang
outspread
outspreading
outspreads
outspring
outsprint
outsprue
outsprued
outspruing
outsprue
outspurn
outspurt
outspy
outspying
outstagger
outstaid
outstair
outstand
outstander
outstanding
outstandingly
outstandingness
outstandings
outstands
outvociferating
outvoice
outvoiced
outvoices
outvoicing
outvote
outvoted
outvoter
outvotes
outvoting
outvoyage
outvoyaged
outvoyaging
outvying
outwait
outwaited
outwaiting
outwaits
outwake
outwale
outwalk
outwalked
outwalking
outwalks
outwall
outwallop
outwander
outwar
outwarble
outwarbled
outwarbling
outward
outwardly
outwardmost
outwardness
outwards
outwardsoutwarred
outwarring
outwars
outwash
outwashes
outwaste
outwasted
outwastes
outwasting
outwatch
outwatched
outwatches
outwinded
outwinding
outwindow
outwinds
outwing
outwish
outwished
outwishes
outwishing
outwit
outwith
outwits
outwittal
outwitted
outwitter
outwitting
outwoe
outwoman
outwood
outword
outwore
outwork
outworked
outworker
outworkers
outworking
outworks
outworld
outworn
outworth
outwove
outwoven
outwrangle
outwrangled
outwrangling
outwrench
outwrest
outwrestle
outwrestled
outwrestling
outwriggle
outwriggled
outwriggling
outwring
outwringing
outwrit
outwrite
outwrites
ovatocordate
ovatocylindrical
ovatodeltoid
ovatoellipsoidal
ovatoglobose
ovatolanceolate
ovatooblanceolate
ovatoorbicular
ovatopyriform
ovatoquadrangular
ovatorotundate
ovatoserrate
ovatotriangular
oven
oven's
ovenbird
ovenbirds
ovendry
ovened
ovenful
ovening
ovenlike
ovenly
ovenman
ovenmen
ovenpeel
ovens
ovensman
ovenstone
ovenware
ovenwares
ovenwise
ovenwood
over
overability
overable
overably
overabound
overabounded
overabounding
overabounds
overabsorb
overabsorption
overabstain
overabstemious
overabstemiously
overabstemiousness
overabundance
overabundant
overabundantly
overabuse
overabused
overabusing
overabusive
overabusively
overabusiveness
overaccelerate
overaccelerated
overaccelerating
overacceleration
overaccentuate
overaccentuated
overaccentuating
overaccentuation
overaccumulate
overaccumulated
overaccumulating
overaccumulation
overaccuracy
overaccurate
overaccurately
overachieve
overachieved
overachiever
overachieving
overacidity
overact
overacted
overacting
overaction
overactivate
overactivated
overactivating
overactive
overactiveness
overactivity
overacts
overacute
overacutely
overacuteness
overaddiction
overadorn
overadorned
overadornment
overadvance
overadvanced
overanalyzes
overanalyzing
overangelic
overangry
overanimated
overanimatedly
overanimation
overannotate
overannotated
overannotating
overanswer
overanxiety
overanxious
overanxiously
overanxiousness
overappareled
overapplaud
overappraisal
overappraise
overappraised
overappraising
overappreciation
overappreciative
overappreciatively
overappreciativesness
overapprehended
overapprehension
overapprehensive
overapprehensively
overapprehensiveness
overapt
overaptly
overaptness
overarch
overarched
overarches
overarching
overargue
overargued
overarguing
overargumentative
overargumentatively
overargumentativeness
overarm
overartificial
overartificiality
overartificially
overassail
overbanked
overbar
overbarish
overbark
overbarren
overbarrenness
overbase
overbaseness
overbashful
overbashfully
overbashfulness
overbattle
overb bore
overborne
overb bred
overbear
overbearance
overbearer
overbearing
overbearingly
overbearingness
overbears
overbeat
overbeating
overbeetling
overbelief
overbend
overbepatched
overberg
overbet
overbets
overbetted
overbetting
overbias
overbid
overidden
overbidding
overbide
overbids
overbig
overbigness
overbill
overbillow
overbit
overbite
overbites
overbitten
overbitter
overbitterly
overbitterness
overblack
overblame
overblamed
overblaming
overblanch
overblaze
overbleach
overblessed
overblessedness
overblew
overblind
overblindly
overblithe
overbloom
overblouse
overblow
overblowing
overblown
overblows
overboard
overboast
overboastful
overboastfully
overboastfulness
overbodice
overboding
overbody
overboil
overbold
overboldly
overboldness
overbook
overbooked
overbooking
overbookish
overbookishly
overbookishness
overbooks
overbooming
overboot
overbore
overborn
overborne
overborrow
overbought
overbound
overbounteous
overbounteously
overbounteousness
overbow
overbowed
overbowl
overbrace
overbraced
overbracing
overbrag
overbragged
overbragging
overbrained
overbrake
overbraked
overbraking
overbranch
overbravado
overbrave
overbravely
overbraveness
overbravery
overbray
overbreak
overbreakage
overbreathe
overbred
overbreed
overbreeding
overbribe
overbridge
overbright
overbrightly
overbrightness
overbrilliance
overbrilliancy
overbrilliant
overbrilliantly
overbrim
overbrimmed
overbrimming
overbrimmingly
overbroaden
overbroil
overbrood
overbrow
overbrown
overbrowse
overbrowsed
overbrowsing
overbrush
overbrutal
overbrutalities
overbrutality
overbrutalization
overbrutalize
overbrutalized
overbrutalizing
overbrutally
overbubbling
overbuild
overbuilding
overbuilt
overbulk
overbulkily
overbulkiness
overbulky
overbumptious
overbumptiously
overbumptiousness
overburden
overburdened
overburdening
overburdeningly
overburdens
overburdensome
overburn
overburned
overburningly
overburnt
overburst
overburthen
overbusily
overbusiness
overbusy
overbusyness
overbuy
overbuying
overbuys
overby
overcalculate
overcalculation
overcall
overcalled
overcalling
overcalls
overcame
overcanny
overcanopy
overcap
overcapability
overcapable
overcapably
overcapacities
overcapacity
overcape
overcapitalisation
overcapitalise
overcapitalised
overcapitalising
overcapitalization
overcapitalize
overcapitalized
overcapitalizes
overcapitalizing
overcaptious
overcaptiously
overcaptiousness
overcard
overcare
overcareful
overcarefully
overcarefulness
overcareless
overcarelessly
overcarelessness
overcaring
overcarking
overcarry
overcarrying
overcast
overcasting
overcasts
overcasual
overcasually
overcasualness
overcasuistical
overcatch
overcaustic
overcaustically
overcausticity
overcaution
overcautious
overcautiously
overcautiousness
overcensor
overcensorious
overcensoriously
overcensoriousness
overcentralization
overcentralize
overcentralized
overcentralizing
overcerebral
overcertification
overcertified
overcertify
overcertifying
overcerebral
overchargement
overcharger
overcharges
overcharging
overcharitable
overcharitableness
overcharitably
overcheap
overcheaply
overcheapness
overcheck
overcherish
overcherished
overchildish
overchildishly
overchildishness
overchill
overchlorinate
overchoke
overchrome
overchurch
overcirculate
overcircumspect
overcircumspection
overcivil
overcivility
overcivilization
overcivilize
overcivilized
overcivilizing
overcivilly
overclaim
overclamor
overclasp
overclean
overcleanly
overcleanness
overcleave
overclemency
overclement
overclever
overcleverly
overcleverness
overclimb
overclinical
overclinically
overclinicalness
overcloak
overclog
overclogged
overclogging
overclose
overclosely
overcloseness
overclothe
overclothes
overcloud
overclouded
overclouding
overclouds
overcloy
overcluster
overclutter
overcoached
overcoat
overcoat's
overcoated
overcoating
overcoats
overcoil
overcold
overcoldly
overcollar
overcolor
overcoloration
overcoloring
overcolour
overcomable
overcome
overcomer
overcomes
overcoming
overcomingly
overcommand
overcommend
overcommendation
overcommercialization
overcommercialize
overcommercialized
overcommercializing
overcommit
overcommitment
overcommon
overcommonly
overcommonness
overcommunicative
overcompensate
overcompensated
overcompensates
overcompensating
overcompensation
overcompensations
overcompensators
overcompensatory
overcompetition
overcompetitive
overcompetitively
overcompetitiveness
overcomplacency
overcomplacence
overcomplacently
overcomplete
overcomplex
overcomplexity
overcompliant
overcomplicate
overcomplicated
overcomplicating
overcompound
overconcentrate
overconcentrated
overconcentrating
overconcentration
overconcern
overconcerned
overcondensation
overcondense
overcondensed
overcondensing
overconfidence
overconfident
overconfidently
overconfiding
overconfute
overconquer
overconscientious
overconscientiously
overconscientiousness
overconscious
overconsciously
overconsciousness
overconservatism
overconservative
overconservatively
overconservativeness
overconsiderate
overconsiderately
overconsiderateness
overconsideration
overconstant
overconstantly
overconstantness
overconsume
overconsumed
overconsuming
overconsumption
overcontented
overcontentedly
overcontentedness
overcontentious
overcontentiously
overcontentiousness
overcontentment
overcontract
overcontraction
overcontribute
overcontributed
overcontribution
overcontrite
overcontritely
overcontriteness
overcontrol
overcontrolled
overcontrolling
overcook
overcooked
overcooking
overcooks
overcool
overcooled
overcooling
overcoolly
overcoolness
overcools
overcopious
overcopiously
overcopiousness
overcorned
overcorrect
overcorrection
overcorrupt
overcorruption
overcorruptly
overcostliness
overcostly
overcount
overcourteous
overcourteously
overcourteousness
overcourtesy
overcover
overcovetous
overcovetously
overcovetousness
overcow
overcoy
overcoyly
overcoyness
overcram
overcramme
overcrammed
overcuriously
overcuriousness
overcurl
overcurrency
overcurrent
overcurtain
overcustom
overcut
overcutter
overcutting
overdaintily
overdaintiness
overdainty
overdamn
overdance
overdangle
overdare
overdared
overdares
overdaring
overdaringly
overdarken
overdash
overdated
overdazed
overdazzle
overdazzled
overdazzling
overdeal
overdear
overdearly
overdearness
overdebate
overdebated
overdebating
overdebilitate
overdebilitated
overdebilitating
overdecadence
overdecadent
overdecadently
overdeck
overdecked
overdecking
overdecks
overdecorate
overdecorated
overdecorates
overdecorating
overdecoration
overdecorative
overdecoratively
overdecorativeness
overdedicate
overdedicated
overdedicating
overdedication
overdeeming
overdeep
overdeepen
overdeeply
overdefensive
overdefensively
overdefensiveness
overdeferential
overdeferentially
overdefiant
overdefiantly
overdefiantness
overdefined
overdeliberate
overdeliberated
overdeliberately
overdeliberateness
overdeliberating
overdeliberation
overdelicacy
overdelicate
overdelicately
overdelicateness
overdelicious
overdeliciously
overdeliciousness
overdelighted
overdelightedly
overdemand
overdemandiness
overdemandingly
overdemandingness
overdemocracy
overdemonstrative
overden
overdenunciation
overdependence
overdependent
overdepress
overdepressive
overdepressively
overdepressiveness
overderide
overderided
overderiding
overderisive
overderisively
overderisiveness
overdescant
overdescribe
overdescribed
overdescribing
overdescriptive
overdescriptively
overdescriptiveness
overdesire
overdesiious
overdesiourously
overdesiourousness
overdestructive
overdestructively
overdestructiveness
overdetailed
overdetermination
overdetermined
overdevelop
overdeveloped
overdeveloping
overdevelopment
overdevelops
overdevoted
overdevotedly
overdevotedness
overdevotion
overdevout
overdevoutness
overdid
overdiffuse
overdiffused
overdiffusely
overdiffuseness
overdiffusing
overdiffusingly
overdiffusingness
overdiffusion
overdigest
overdignified
overdignifiedly
overdignifiedness
overdignify
overdignifying
overdignity
overdilate
overdilated
overdilating
overdilation
overdiligence
overdiligent
overdiligently
overdiligentness
overdilute
overdiluted
overdiluting
overdilution
overdischarge
overdiscipline
overdisciplined
overdisciplining
overdiscount
overdiscourage
overdiscouraged
overdiscouragement
overdiscouraging
overdiscreet
overdiscreetly
overdiscreetness
overdiscriminating
overdiscriminatingly
overdiscrimination
overdiscuss
overdistance
overdistant
overdistantly
overdistantness
overdistempered
overdistend
overdistension
overdistention
overdistort
overdistortion
overdistrait
overdistraught
overdiverse
overdiversely
overdiverseness
overdiversification
overdiversified
overdiversifies
overdiversify
overdiversifying
overdiversity
overdo
overdoctrinaire
overdoctrinize
overdoer
overdoers
overdoes
overdogmatic
overdogmatical
overdogmatically
overdogmaticalness
overdogmatism
overdoing
overdome
overdomesticate
overdomesticated
overdomesticating
overdominance
overdominant
overdominate
overdominated
overdominating
overdone
overdoor
overdosage
overdose
overdosed
overdoses
overdosing
overdoubt
overdoze
overdozed
overdozing
overdraft
overdraft's
overdrafts
overdrain
overdrainage
overdramatic
overdramatically
overdramatize
overdramatized
overdramatizes
overdramatizing
overdrank
overdrape
overdrapery
overdraught
overdraw
overdrawer
overdrawing
overdrawn
overdraws
overdream
overdredge
overdredged
overdredging
overdrench
overdress
overdressed
overdresses
overdressing
overdrew
overdried
overdrifted
overdrily
overdriness
overdrink
overdrinking
overdrinks
overdrip
overdrive
overdriven
overdrives
overdriving
overdroop
overdrove
overdrowsed
overdrunk
overdry
overdubbed
overdue
overdunged
overdure
overdust
overdye
overdyed
overdyeing
overdyer
overdyes
overdying
overeager
overeagerly
overeagerness
overeary
overearest
overearestly
overearestness
overeasily
overeasiness
overeasy
overeat
overeate
overeaten
overeater
overeating
overeats
overed
overedge
overedit
overeditorialize
overeditorialized
overeditorializing
overeducate
overeducated
overeducates
overeducating
overeducation
overeducative
overeducatively
overeffort
overeffusive
overeffusively
overeffusiveness
overegg
overelaborate
overelaborated
overelaborately
overelaborateness
overelaborates
overelaborating
overelaboration
overrelate
overrelated
overrelating
overelegence
overelegancy
overelegant
overelegantly
overelegantness
overelliptical
overelliptically
overembellish
overembellished
overembellishes
overembellishing
overembellishment
overembroider
overemotional
overemotionality
overemotionalize
overemotionalized
overemotionalizing
overemotionally
overemotionalness
overemphasis
overemphasize
overemphasized
overemphasizes
overemphasizing
overemphatic
overemphatical
overemphatically
overemphaticalness
overemphaticness
overempired
overempirical
overempirically
overemploy
overemployment
overemptiness
overempty
overemulate
overemulated
overemulating
overemulation
overenter
overenthusiasm
overenthusiastic
overenthusiastically
overentreat
overentry
overenvious
overenviously
overenviousness
overequal
overequip
overexplanation
overexplicit
overexploited
overexpose
overexposed
overexposes
overexposing
overexposure
overexpress
overexpressive
overexpressively
overexpressiveness
overexquisite
overexquisitely
overextend
overextended
overextending
overextends
overextension
overextensive
overextreme
overexuberance
overexuberant
overexuberantly
overexuberantness
overeye
overeyebrowed
overeyed
overeying
overface
overfacile
overfacilely
overfacility
overfactious
overfactiously
overfactiousness
overfactitious
overfag
overfagged
overfagging
overfaint
overfaintly
overfaintness
overfaith
overfaithful
overfaithfully
overfaithfulness
overfall
overfallen
overfalling
overfamed
overfamiliar
overfamiliarity
overfamiliarly
overfamous
overfanciful
overfancifully
overfancifulness
overfancy
overfar
overfast
overfastidious
overfastidiously
overfastidiousness
overfasting
overfat
overfatigue
overfatigued
overfatigues
overfatiguing
overfatness
overfatten
overfault
overfavor
overfavorable
overfavorableness
overfavorably
overfear
overfeared
overfearful
overfearfully
overfearfulness
overfearing
overfears
overfeast
overfeatured
overfed
overfee
overfeed
overfeeding
overfeeds
overfeel
overfell
overfellowlike
overfellowly
overfelon
overfeminine
overfemininely
overfemininity
overfeminize
overfeminized
overfeminizing
overfertile
overfertility
overfervent
overfervently
overferventness
overfestoon
overfew
overfierce
overfiercely
overfierceness
overfile
overfill
overfilled
overfilling
overfills
overfilm
overfilter
overfine
overfinished
overfish
overfished
overfishes
overfishing
overfit
overfix
overflap
overflat
overflatly
overflatness
overflatten
overflavor
overfleece
overfleshed
overflew
overflexion
overflies
overflight
overflights
overflying
overfloat
overflog
overflogged
overflogging
overflood
overflorid
overfloridly
overfloridness
overflour
overflourish
overflow
overflowable
overflowed
overflower
overflowing
overflowingly
overflowingness
overflown
overflows
overfluency
overfluent
overfluen
ty
overfluentness
overflow
overfly
overflowing
overfold
overfond
overfondle
overfondled
overfondling
overfondly
overfondness
overfoolish
overfoolishly
overfoolishness
overfoot
overforce
overforced
overforcing
overforged
overformalize
overformalized
overformalizing
overformed
overforward
overforwardly
overforwardness
overfought
overfoul
overfoully
overfoulness
overfragile
overfragmented
overfrail
overfrailly
overfrailness
overfrailty
overfranchised
overfrank
overfrankly
overfrankness
overfraught
overfree
overfreedom
overfreely
overfreight
overfreighted
overfrequency
overfrequent
overfrequently
overfret
overfrieze
overfrighted
overfrighten
overfroth
overfrown
overfrozen
overfrugal
overfrugalness
overfrugally
overfruited
overfruitful
overfruitfully
overfruitfulness
overfrustration
overfull
overfullness
overfunctioning
overfurnish
overfurnished
overfurnishes
overfurnishing
overgaiter
overgalled
overgambled
overgamble
overgambling
overgang
overgarment
overgarnish
overgarrison
overgaze
overgeneral
overgeneralization
overgeneralize
overgeneralized
overgeneralizes
overgeneralizing
overgenerally
overgenerosity
overgenerous
overgenerously
overgenerousness
overgenial
overgeniality
overgenially
overgenialness
overgentle
overgently
overgesticulate
overgesticulated
overgesticulating
overgesticulation
overgesticulative
overgesticulatively
overgesticulativeness
overget
overgetting
overgifted
overgild
overgilded
overgilding
overgilds
overgilt
overgilted
overgird
overgirded
overgirding
overgirdle
overgirds
overgirt
overgive
overglad
overgladly
overglance
overgratification
overgratified
overgratify
overgratifying
overgratitude
overgraze
overgrazed
overgrazes
overgrazing
overgreasiness
overgreasy
overgreat
overgreatly
overgreatness
overgreed
overgreedily
overgreediness
overgreedy
overgrew
overgrieve
overgrieved
overgrieving
overgrieving
overgrieved
overgrieving
overgrieved
overgrieved
overgrieved
overgrieved
overgrieved
overgrinding
overgrosse
overgrossly
overgrossness
overground
overgrow
overgrowing
overgrown
overgrows
overgrowth
overguilty
overgun
overhail
overhair
overhale
overhalf
overhand
overhanded
overhandicap
overhandicapped
overhandicapping
overhanding
overhandle
overhandled
overhandling
overhands
overhang
overhanging
overhangs
overhappily
overhappiness
overhappy
overharass
overharassment
overhard
overharden
overhardness
overhardy
overharsh
overharshly
overharshness
overhaste
over hasten
over hastily
overhastiness
overhasty
overhate
overhated
over hates
overhating
overhatted
overhaughtily
overhaughtiness
overhaughty
overhaul
over hauled
over hauler
over hauling
over hauls
over head
over headiness
over headman
over heads
over heady
over heap
over heaped
over heaping
over heaps
over hear
over heard
over hearer
overhearing
overhears
overheartily
overheartiness
overhearty
overheat
overheated
overheatedly
overheating
overheats
overheave
overheavily
overheaviness
overheavy
overheight
overheighten
overheinous
overheld
overhelp
overhelpful
overhelpfully
overhelpfulness
overhie
overhigh
overhighly
overhill
overhip
overhit
overhold
overholding
overholds
overholiness
overhollow
overholy
overhomeliness
overhomely
overhonest
overhonestly
overhonestness
overhonesty
overhonor
overhope
overhoped
overhopes
overhoping
overhorse
overhostile
overhostilely
overhostility
overhot
overhotly
overhour
overhouse
overhover
overhuge
overhugely
overhugeness
overhuman
overhumane
overhumanity
overhumanize
overhumanized
overhumanizing
overhumble
overhumbleness
overhumbly
overhung
overhunt
overhunted
overhunting
overhunts
overhurl
overhurried
overhurriedly
overhurry
overhurrying
overhusk
overhysterical
overidden
overidealism
overidealistic
overidealize
overidealized
overidealizing
overidentified
overidentify
overidentifying
overidle
overidleness
overidly
overidness
overidolatrous
overidolatrously
overidolatrousness
overillustrate
overillustrated
overillustrating
overillustration
overillustrative
overillustratively
overimaginative
overimaginatively
overimaginativeness
overimitate
overimitated
overimitating
overimitation
overimitative
overimitatively
overimitativeness
overimmunize
overimmunized
overimmunizing
overimport
overimportance
overimportation
overimpose
overimposed
overimposing
overimpress
overimpressed
overimpresses
overimpressibility
overimpressible
overimpressibly
overimpressing
overimpressionability
overimpressionable
overimpressionableness
overimpressingly
overinclinable
overinclination
overinclining
overinclusive
overincrust
overincurious
overindividualism
overindividualistic
overindividualistically
overindividualization
overindulge
overindulged
overindulgence
overindulgent
overindulgently
overindulges
overindulging
overindustrialism
overindustrialization
overindustrialize
overindustrialized
overindustrializes
overindustrializing
overinflate
overinflated
overinflates
overinflating
overinflation
overinflationary
overinflative
overinfluence
overinfluenced
overinfluencing
overinfluential
overinform
overing
overinhibit
overinhibited
overink
overinsist
overinsistence
overinsistencies
overinsistency
overinsistent
overinsistently
overinsolence
overinsolent
overinsolently
overinstruct
overinstruction
overinstructive
overinstructively
overinstructiveness
overinsurance
overinsure
overinsured
overinsures
overinsuring
overintellectual
overintellectualism
overintellectuality
overintellectualization
overintellectualize
overintellectualized
overintellectualizing
overintellectually
overintellectualness
overintense
overintensely
overintenseness
overintensification
overintensified
overintensify
overintensifying
overintensity
overinterest
overinterested
overinterestedly
overinterestedness
overinterference
overinventoried
overinvest
overinvested
overinvesting
overinvestment
overinvests
overinvolve
overinvolved
overinvolving
overiodize
overiodized
overiodizing
overirrigate
overirrigated
overirrigating
overirrigation
overissue
overissued
overissues
overissuing
overitching
overjacket
overjade
overjaded
overjading
overjawed
overjealous
overlace
overlactate
overlactated
overlactating
overlactation
overlade
overladed
overladen
overlades
overlading
overlaid
overlain
overland
overlander
overlands
overlaness
overlanguaged
overlap
overlap's
overlapped
overlapping
overlaps
overlard
overlarge
overlargely
overlargeness
overascivious
overascivously
overasciviousness
overlash
overlast
overlate
overlateness
overlather
overlaud
overlaudation
overlaudatory
overlaugh
overlaunch
overlave
overlavish
overlavishly
overlavishness
overlax
overlaxative
overlaxly
overlaxness
overlay
overmagnetically
overmagnification
overmagnified
overmagnifies
overmagnify
overmagnifying
overmagnitude
overmajority
overmalapert
overman
overmanage
overmanaged
overmanaging
overmanned
overmanning
overmans
overmantel
overmantle
overmany
overmarch
overmark
overmarking
overmarl
overmask
overmast
overmaster
overmastered
overmasterful
overmasterfully
overmasterfulness
overmastering
overmasteringly
overmasters
overmatch
overmatched
overmatches
overmatching
overmatter
overmature
overmaturely
overmatureness
overmaturity
overmean
overmeanly
overmeanness
overmeasure
overmeddle
overmeddled
overmodernization
overmodernize
overmodernized
overmodernizing
overmodest
overmodestly
overmodesty
overmodification
overmodified
overmodifies
overmodify
overmodifying
overmodulation
overmoist
overmoisten
overmoisture
overmonopolize
overmonopolized
overmonopolizing
overmoral
overmoralistic
overmoralize
overmoralized
overmoralizing
overmoralizingly
overmoralistically
overmoralize
overmoralized
overmoralizing
overmoralizingly
overmoralistically
overmore
overmortgage
overmortgaged
overmortgaging
overmoss
overmost
overmotor
overmount
overmounts
overmourn
overmournful
overmournfully
overmournfulness
overmuch
overmuches
overmuchness
overmultiplication
overmultiplied
overmultiply
overmultiplying
overmultitude
overmuse
overmystification
overmystified
overmystify
overmystifying
overname
overnarrow
overnarrowly
overnarrowness
overnationalization
overnationalize
overnationalized
overnationalizing
overnear
overnearness
overneat
overneatly
overneatness
overneglect
overneglectful
overneglectfully
overneglectfulness
overnegligence
overnegligent
overnegligently
overnegligentness
overnervous
overnervously
overnervousness
overness
overnet
overneutralization
overneutralize
overneutralized
overneutralizer
overneutralizing
overnew
overnice
overnicely
overniceness
overniceties
overnicety
overnigh
overnight
overnighter
overnighters
overnimble
overnipping
overnoble
overnobleness
overnobly
overnoise
overnormal
overnormality
overnormalization
overnormalize
overnormalized
overnormalizing
overnormally
overnotable
overnourish
overnourishingly
overnourishment
overnoveled
overnumber
overnumerous
overnumerously
overnumerousness
overnurse
overnursed
overnursing
overobedience
overobedient
overobediently
overobese
overobesely
overobeseness
overobesity
overobject
overobjectification
overobjectified
overobjectify
overobjectifying
overoblige
overobsequious
overobsequiously
overobsequiousness
overoffend
overoffensive
overoffensively
overoffensiveness
overofficered
overofficious
overofficiously
overofficiousness
overoptimism
overoptimist
overoptimistic
overoptimistically
overorder
overorganization
overorganize
overorganized
overorganizing
overornament
overornamental
overornamentality
overornamentally
overornamentation
overornamented
overoxidization
overoxidize
overoxidized
overoxidizing
overpack
overpaid
overpained
overpainful
overpainfully
overpainfulness
overpaint
overpamper
overpark
overpart
overparted
overpartial
overpartiality
overpartially
overpartialness
overparticular
overparticularity
overparticularly
overparticularness
overparty
overpass
overpassed
overpasses
overpassing
overpassionate
overpassionately
overpassionateness
overpast
overpatient
overpatriotic
overpatriotically
overpatriotism
overpay
overpaying
overpayment
overpays
overpeer
overpenalization
overpenalize
overpenalized
overpenalizing
overpending
overpensive
overpensively
overpensiveness
overpeople
overpeopled
overpeopling
overpepper
overperemptorily
overperemptoriness
overperemptory
overpermissive
overpermissiveness
overpersecute
overpersecuted
overpersecuting
overpersuade
overpersuaded
overpersuading
overpersuasion
overpert
overpessimism
overpessimistic
overpessimistically
overpet
overphilosophize
overphilosophized
overphilosophizing
overphysic
overpick
overpictorialize
overpictorialized
overpictorializing
overpicture
overpinching
overpious
overpiousness
overpitch
overpitched
overpiteous
overpiteously
overpiteousness
overplace
overplaced
overplacement
overplain
overplainly
overplainness
overplant
overplausible
overplausibleness
overplausibly
overplay
overplayed
overplaying
overplays
overplease
overpleased
overpleasing
overplentitude
overplenteous
overplenteously
overplenteousness
overplentiful
overplentifully
overplentifulness
overplenty
overplied
overplies
overplot
overplow
overplumb
overplume
overplump
overplumpness
overplus
overpluses
overply
overplying
overpoeticize
overpoeticized
overpoeticizing
overpointed
overpoise
overpole
overpolemical
overpolemically
overpolemicalness
overpolice
overpoliced
overpolicing
overpolish
overpolitic
overpolitical
overpolitically
overpollinate
overpollinated
overpollinating
overponderous
overponderously
overponderousness
overpopular
overpopularity
overpopularly
overpopulate
overpopulated
overpopulates
overpopulating
overpopulation
overpopulous
overpopulously
overpopulousness
overpositive
overpositively
overpositiveness
overpossess
overpost
overpot
overpotency
overpotent
overpotential
overpotently
overpotentness
overpour
overpower
overpowered
overpowerful
overpowerfully
overpowerfulness
overpowering
overpoweringly
overpoweringness
overpowers
overpractice
overproducing
overproduction
overproductive
overproficiency
overproficient
overproficiently
overprofusion
overpulic
overpulifically
overpulificness
overprolix
overprolixity
overprolixly
overprolixness
overprominence
overprominent
overprominently
overprominentness
overpromise
overpromised
overpromising
overprompt
overpromptly
overpromptness
overprone
overproneessen
overproneness
overproneness
overpronounce
overpronounced
overpronouncing
overpronunciation
overproof
overproportion
overproportionate
overproportionated
overproportionately
overproportioned
overprosperity
overprosperous
overproperously
overprosperousness
overprotect
overprotected
overprotecting
overprotection
overprotective
overprotects
overprotract
overprotraction
overproud
overproudly
overproudness
overprove
overproved
overprovender
overprovide
overprovided
overprovident
overprovidently
overprovidentness
overproviding
overproving
overprovision
overprovocation
overprovoke
overprovoked
overprovoking
overprune
overpruned
overpruning
overpsychologize
overpsychologized
overpsychologizing
overpublic
overpublicity
overpublicize
overpublicized
overpublicizing
overpuff
overpuissant
overpuissantly
overpunish
overpunishment
overpurchase
overpurchased
overpurchasing
overput
overqualification
overqualified
overqualify
overqualifying
overquantity
overquarter
overquell
overquick
overquickly
overrepresent
overrepresentation
overrepresentative
overrepresentatively
overrepresentativeness
overrepresented
overrepress
overreprimand
overreserved
overreservedly
overreservedness
overresist
overresolute
overresolutely
overresoluteness
overrestore
overrestrain
overrestraint
overrestrict
overrestriction
overretention
overreward
overrich
overriches
overrichly
overrichness
overrid
overridden
override
overrider
overrides
overriding
overripe
overrigid
overrigidly
overrigidness
overrigorous
overrigorously
overrigorousness
overrim
overriot
overripe
oversell
overselling
oversells
oversend
oversensibility
oversensible
oversensibleness
oversensibly
oversensitive
oversensitively
oversensitiveness
oversensitivitiy
oversensitize
oversensitized
oversensitizing
oversententious
oversentimental
oversentimentalism
oversentimentality
oversentimentalize
oversentimentalized
oversentimentalizing
oversentimentally
overserene
overserenely
overserenity
overserious
overseriously
overseriousness
overservice
overservile
overservilely
overservileness
overservility
overset
oversets
oversetter
oversetting
oversettle
oversettled
oversettlement
oversettling
oversevere
overseverely
oversevereness
overseverity
oversew
oversewed
oversewing
oversewn
oversews
oversexed
overshad
overshade
overshaded
overshading
overshadow
overshadowed
overshadower
overshadowing
overshadowingly
overshadowment
overshadows
overshake
overshar
oversharpen
overshave
oversheet
overshelving
overshepherd
overshine
overshined
overshining
overshirt
overshoe
overshoes
overshone
overshoot
overshooting
overshoots
overshort
overshorten
overshortly
overshortness
overshot
overshots
overshoulder
overshowered
overshrink
overshroud
oversick
overside
oversides
oversight
oversight's
oversights
oversigned
oversile
oversilence
oversilent
oversilently
oversilentness
oversilver
oversimple
oversimpleness
oversimplicity
oversimplification
oversimplifications
oversimplified
oversimplifies
oversimplify
oversimplifying
oversimply
oversize
oversized
oversizes
oversizing
overskeptical
overskeptically
overskepticalness
overskeptticism
overskim
overskip
overskipper
overskirt
overslack
overslander
overslaugh
overslaughed
overslaughing
overslavish
overslavishly
overslavishness
oversleep
oversleeping
oversleeves
oversleeve
overslept
overslid
overslidden
overslide
oversliding
overslight
overslip
overslipped
oversoothing
oversoothingly
oversophisticated
oversophistication
oversorrow
oversorrowed
oversorrowful
oversorrowfully
oversorrowfulness
oversot
oversoul
oversouls
oversound
oversour
oversourly
oversourness
oversow
oversowed
oversowing
oversown
overspacious
overspaciously
overspaciousness
overspan
overspangled
overspanned
overspanning
oversparing
oversparingly
oversparingness
oversparred
overspatter
overspeak
overspeaking
overspecialization
overspecialize
overspecialized
overspecializes
overspecializing
overspeculate
overspeculated
overspeculating
overspeculation
overspeculative
overspeculatively
overspeculativeness
overspeech
overspeed
overspeedily
overspeediness
overspeedy
overspend
overspender
overspending
overspends
overspent
overspice
overspiced
overspricing
overspill
overspilled
overspilling
overspilt
overspin
overspins
oversplash
overspoke
overspoken
overspread
overspreading
overspreads
overspring
oversprinkle
oversprung
overspun
oversqueak
oversqueamish
oversqueamishly
oversqueamishness
overshot
overstaff
overstaid
overstain
overstale
overstalely
overstaleness
overstalled
overstand
overstanding
overstarch
overstaring
overstate
overstated
overstately
overstatement
overstatement's
overstriving
overstrode
overstrong
overstrongly
overstrongness
overstrove
overstruck
overstrung
overstud
overstudied
overstudious
overstudiously
overstudiousness
overstudy
overstudying
overstuff
overstuffed
oversublime
oversubscribe
oversubscribed
oversubscriber
oversubscribes
oversubscribing
oversubscription
oversubtile
oversubtle
oversubtleties
oversubtlety
oversubtly
oversufficiency
oversufficient
oversufficiently
oversum
oversup
oversuperstitious
oversuperstitiously
oversuperstitiousness
oversupped
oversupping
oversupplied
oversupplies
oversupply
oversupplying
oversups
oversure
oversured
oversurely
oversureness
oversurety
oversurge
oversuring
oversurviving
oversusceptibility
oversusceptible
oversusceptibleness
oversusceptibly
oversuspicious
oversuspiciously
oversuspiciousness
overswarm
overswarming
overswarth
oversway
oversweated
oversweep
oversweet
oversweeten
oversweetly
oversweetness
overswell
overswelld
overswell ing
overswift
overswim
overswimmer
overswing
overswinging
overswirling
overswollen
oversystematic
oversystematically
oversystematicalness
oversystematize
oversystematized
oversystematizing
overt
overtakable
overtake
overtaken
overtaker
overtakers
overtakes
overtaking
overtalk
overtalkative
overtalkatively
overtalkativeness
overtalker
overtame
overtamely
overtameness
overtapped
overtare
overtariff
overtarry
overtart
overtartly
overtartness
overtask
overtasked
overtasking
overtasks
overtaught
overtax
overtaxation
overtaxed
overtaxes
overtaxing
overteach
overteaching
overtactical
overtacticality
overtactically
overtedious
overtediously
overtediousness
overteneem
overtell
overtelling
overtempt
overtenacious
overtenaciously
overtenaciousness
overtenacity
overtender
overtenderly
overtenderness
overtense
overtensely
overtenseness
overtension
overterrible
overtest
overtheatrical
overtimid
overtimidity
overtimidly
overtimidness
overtiming
overtimorous
overtimorously
overtimorousness
overtinsel
overtinselled
overtinseling
overtint
overtip
overtipple
overtippled
overtippling
overtire
overtired
overtiredness
overtires
overtiring
overtitle
overtly
overtness
overtoe
overtowel
overtoiled
overtoiling
overtoils
overtoise
overtold
overtolerance
overtolerant
overtolerantly
overtone
overtone’s
overtones
overtongued
overtook
overtop
overtopped
overtopping
overtopple
overtops
overtorture
overtortured
overtorturing
overtower
overtrace
overtrack
overtrade
overtraded
overtrader
overtrading
overtrailed
overtrain
overtrained
overtraining
overtrains
overtrample
overtravel
overtread
overtreading
overtreatment
overtrick
overtrim
overtrimme
overtrimmed
overtrimming
overtrims
overtrod
overtrodden
overtrouble
overtroubled
overtroubling
overtrue
overtruly
overtrump
overtrust
overtrustful
overtrustfully
overtrustfulness
overtrusting
overtruthful
overtruthfully
overtruthfulness
overtumble
overture
overture's
overtured
overtures
overturing
overturn
overturnable
overturned
overturner
overturning
overturns
overtutor
overtwine
overtwist
overtype
overtyped
overuberous
overunionize
overunionized
overunionizing
overunsuitable
overurbanization
overurbanize
overurbanized
overurbanizing
overurge
overurged
overurges
overurging
overuse
overused
overuses
overusing
overusual
overusually
overvaliant
overvaliantly
overvaliantness
overvaluable
overvaluableness
overvaluably
overvaluation
overvalue
overvalued
overvalues
overvaluing
overvariation
overvaried
overvariety
overvary
overvarying
overvault
overvehemence
overvehement
overvehemently
overvehementness
overveil
overventilate
overventilated
overventilating
overventilation
overventuresome
overventurous
overventurously
overventurousness
overview
overview's
overviews
overvigorous
overvigorously
overvigorously
overvigorouslyness
overviolent
overviolently
overviolentness
overvoltage
overvote
overvoted
overvotes
overvoting
overwade
overwages
overwake
overwalk
overwander
overward
overwarily
overwariness
overwarm
overwarmed
overwarming
overwarms
overwart
overwary
overwash
overwasted
overwatch
overwatcher
overwater
overwave
overway
overweak
overweakly
overweakness
overwealth
overwealthy
overweaponed
overwear
overwearied
overwearing
overwears
overweary
overwearying
overweather
overweave
overweb
overween
overweened
overweener
overweening
overweeningly
overweeningness
overweens
overweep
overweigh
overweighed
overweighing
overweighs
overweight
overweightage
overweighted
overweighting
overwell
overwelt
overwend
overwent
overwet
overwetness
overwets
overwetted
overwetting
overwheel
overwhelm
overwhelmed
overwhelmer
overwhelming
overwhelmingly
overwhelmingness
overwhelms
overwhip
overwhipped
overwhipping
overwhirl
overwhisper
overwrested
overwrestle
overwrite
overwrites
overwriting
overwritten
overwrote
overwrought
overwwrought
overyear
overyoung
overyouthful
overzeal
overzealous
overzealously
overzealousness
overzeals
ovest
ovewound
bove
ovibos
ovibovine
ovicapsular
ovicapsule
ovicell
ovicellular
ovicidal
ovicide
ovicides
ovicular
oviculated
oviculum
ovicyst
ovicystic
ovid
ovidian
oviducal
oviduct
oviductal
oviducts
oviferous
ovification
oviform
ovigenesis
ovigenetic
ovigenic
ovigenous
oviger
ovigerm
ovigerous
ovile
ovine
ovines
ovinia
ovipara
oviparal
oviparity
oviparous
oviparously
oviparousness
oviposit
oviposited
ovipositing
oviposition
ovipositional
ovipositor
oviposits
ovisac
ovisaclike
ovisacs
oviscapt
ovism
ovispermary
ovispermiduct
ovist
ovistic
ovivorous
ovocyte
ovoelliptic
ovoflavin
ovogenesis
ovogenetic
ovogenous
ovoglobulin
ovogonium
ovoid
ovoidal
ovoids
ovolemma
ovoli
ovolo
ovological
ovologist
ovology
ovolos
ovolytic
ovomucoid
ovonic
ovonics
ovoplasm
ovoplastic
ovopyriform
ovohomboid
ovohomboidal
ovotesticular
ovotestis
ovovitellin
ovovivaparism
ovovivaparity
ovoviviparous
ovoviviparously
ovoviviparousness
ovular
ovularian
ovulary
ovulate
ovulated
ovulates
ovulating
ovulation
ovulations
ovulatory
ovule
ovules
ovuliferous
ovuligerous
ovulist
ovulite
ovulum
ovum
ow
owd
owe
owed
owelty
owenian
ower
owerance
owerby
owercome
owergang
owerloup
owertaen
oxanilic
oxanilide
oxazin
oxazine
oxazines
oxazole
oxbane
oxberries
oxberry
oxbird
oxbiter
oxblood
oxbloods
oxbow
oxbows
oxboy
oxbrake
oxcart
oxcarts
oxcheek
oxdiacetic
oxdiazole
oxea
oxeate
oxen
oxeote
oxer
oxes
oxetone
oxeye
oxeyes
oxfly
oxford
oxfords
oxgall
oxgang
oxgate
oxgoad
oxharrow
oxhead
oxheal
oxheart
oxhearts
oxherd
oxhide
oxhoft
oxhorn
oxhouse
oxhuvud
oxid
oxidability
oxidable
oxidant
oxidants
oxidase
oxidases
oxidasic
oxidate
oxidated
oxidates
oxidating
oxidation
oxidational
oxidations
oxidative
oxidatively
oxidator
oxide
oxide's
oxides
oxidic
oxidimetric
oxidimetry
oxidise
oxidised
oxidiser
oxidisers
oxidises
oxidising
oxidizability
oxidizable
oxidation
oxidizations
oxidize
oxidized
oxidizement
oxidizer
oxidizers
oxidizes
oxidizing
oxidoreductase
oxidoreduction
oxids
oxidulated
oxim
oximate
oxybapha
oxybaphon
oxybenzaldehyde
oxybenzene
oxybenzoic
oxybenzyl
oxyberberine
oxyblepsia
oxybromide
oxybutyria
oxybutyric
oxycalcium
oxy calorimeter
oxycamphor
oxy caproic
oxy carbonate
oxy cellulose
oxy cephalic
oxy cephalism
oxy cephalous
oxy cephaly
oxy chlorate
oxy chloric
oxy chlorid
oxy chloride
oxy chlorine
oxy cholesterol
oxy chromatic
oxy chromatin
oxy chromatinic
oxy cinnamic
oxy cobalt ammine
oxy copaivic
oxy coumarin
oxy cerate
oxy cyanide
oxy dactyl
oxy dase
oxy dasic
oxy dation
oxy diact
oxy esthesia
oxy ether
oxy ethyl
oxy fatty
oxy fluorride
oxy gas
oxy gen
oxygenant
oxygenase
oxygenate
oxygenated
oxygenates
oxygenating
oxygenation
oxygenator
oxygenator
oxygenic
oxygenicity
oxygenium
oxygenizable
oxygenization
oxygenize
oxygenized
oxygenizement
oxygenizer
oxygenizing
oxygenless
oxygeneous
oxygens
oxygeusia
oxygneathous
oxygen
oxygonal
oxygonial
oxyhaematin
oxyhaemoglobin
oxyhalide
oxyhaloid
oxyhematin
oxyhemocyanin
oxyhemoglobin
oxyhexactine
oxyhexaster
oxyhydrate
oxyhydric
oxyhydrogen
oxyiodide
oxyketone
oxyl
oxylumiferin
oxyluminescence
oxyluminescent
oxymandelic
oxymel
oxymethylene
oxymomora
oxymora
oxymoron
oxymoronic
oxymuriate
oxymuriatic
oxynaphthoic
oxynaphtoquinone
oxynarcotine
oxyneurin
oxyneurine
oxynitrate
oxytic
oxypophitic
oxypenia
oxypenia
oxysphreresia
oxypetalous
oxysphenol
oxysphenyl
oxylphil
oxylphile
oxylphiles
oxylphilic
oxylphilous
oxylphis
oxylphonia
oxylphony
oxylphosphate
oxylphalallic
oxylphyllous
oxylphyte
oxylpicric
oxylproline
oxylpropionic
oxylpurine
oxylpycnos
oxylquinaseptol
oxylquinoline
oxylquinone
oxylrhine
oxylrhinous
oxylrhynech
oxylrhynechid
oxylrhynechous
oxylrhynechus
oxylrhynechid
oxysaliclyc
oxysalt
oxysalts
oxysome
oxysomes
oxystearic
oxystomatous
oxystome
oxysulfid
oxysulfide
oxysulphate
oxysulphid
oxysulphide
oxysterepene
oxytetracycline
oxytocia
oxytocic
oxytocics
oxytocin
oxytocins
oxytocous
oxytoluene
oxytoluic
oxytone
oxyttones
oxytocosis
oxytotic
oxytontical
oxytontize
oxytlotate
oxytylote
oxyuriasis
oxyuricide
oxyurid
oxyurous
oxywelding
oy
oyapock
oyelet
oyer
oyers
oyes
oyesses
oyez
oylet
oyster
oyster's
oysterage
oysterbird
oystercatcher
oystered
oysterer
oysterers
oysterfish
oysterishes
oystergreen
oysterhood
oysterhouse
oysteries
oyster
oysterish
oysterishness
oysterlike
oysterling
oysterman
oystermen
oysterous
oysterroot
oysters
oysterseed
oystershell
oysterwife
oysterwoman
oysterwomen
oz
ozaena
ozarkite
ozena
ozobrome
ozocerite
ozoena
ozokerit
ozokerite
ozonate
ozonation
ozonator
ozone
ozoned
ozoner
ozones
ozonic
ozonid
ozonide
ozonides
ozoniferous
ozonification
ozonify
ozonise
ozonised
ozonisises
ozonising
ozonization
ozonize
ozonized
ozonizer
ozonizers
ozonizes
ozonizing
ozonolysis
ozonometer
ozonometry
ozonoscope
ozonoscopic
ozonosphere
ozonospheric
ozonous
ozophen
ozophene
ozostomia
ozotype
ozs
p
p’s
pa
paal
paaneleinrg
paar
paaraphimosis
paas
paauw
paawkier
paba
pabulums
pabbles
pablo
pablum
pabouch
pabular
pabulary
pabulation
pabulatory
pabulous
pabulum
pabulums
pac
pachycephal
pachycephalia
pachycephalic
pachycephalous
pachycephaly
pachychilia
pachycholia
pachychymia
pachycladous
pachydactyl
pachydactylous
pachydactyly
pachyderm
pachyderma
pachydermal
pachydermata
pachydermateous
pachydermatocele
pachydermatoid
pachydermatosis
pachydermatous
pachydermatously
pachydermia
pachydermial
pachydermic
pachydermoid
pachydermous
pachyders
pachyemia
pachyglossal
pachyglossate
pachyglossia
pachyglossous
pachyhaemia
pachyhaemic
pachyhaemous
pachyhaematos
pachyhaemia
pachyhymenia
pachyhematous
pachyhemia
pachyhyumenia
pachyhymenic
pachylysis
pachylymenia
pachylymenic
pachylymenic
pachymeningitic
pachymeningitis
pachymeninx
pachymeter
pachynathous
pachynema
pachynsis
pachyntic
pachyodont
pachyotia
pachyotous
pachyperitonitis
pachyphyllous
pachypleuritic
pachypod
pachypodous
pachypterous
pachyrhynchous
pachysalpingitis
pachysandra
pachysandras
pachysaurian
pachysomia
pachysomatic
pachystichous
pachytene
pachytrichous
pachyvaginitis
pacifiable
pacific
pacifica
pacificical
pacifically
pacificate
pacificated
pacificating
pacification
pacificator
pacificatory
pacificism
pacificist
pacificistic
pacificistically
pacificity
pacifico
pacificos
pacified
pacifier
pacifiers
pacifies
pacifism
pacifisms
pacifist
pacifistic
pacifistically
pacifists
pacify
pacifying
pacifyingly
pacing
pacinian
pacinko
pack
packability
packable
package
packaged
packager
packagers
packages
packaging
packagings
packall
packboard
packbuilder
packcloth
packed
packer
packeries
packers
packery
packet
packet's
packeted
packeting
packets
packhorse
packhorses
packhouse
packing
packinghouse
packings
packless
packly
packmaker
packmaking
packman
packmanship
packmen
packness
packnesses
packplane
packrat
packs
packsack
packsacks
packsaddle
packsaddles
packstaff
packstaves
packthread
packthreaded
packthreads
packtong
packtrain
packwall
packwaller
packware
packwax
packwaxes
packway
paco
pacos
pacota
pacouryuva
pacquet
pacs
pact
pact's
pacta
paction
pactional
pactionally
pactions
pactolian
pacts
pactum
pacu
pad
pad's
padang
padasha
padauk
padauks
padcloth
padcluoth
padded
padder
paddies
paddling
paddings
paddle
paddleball
paddleboard
paddleboat
paddlecock
paddled
paddlefish
paddlefishes
paddlefoot
paddlelike
paddler
paddlers
paddles
paddlewood
paddling
paddlings
paddock
paddocked
paddocking
paddockride
paddocks
paddockstone
paddockstool
paddoing
paddy
paddybird
paddymelon
paddywack
paddywatch
paddywhack
padelion
padella
pademelon
padesoy
padeye
padeyes
padfoot
padge
padige
padishah
padishahs
padle
pades
padlike
padlock
padlocked
padlocking
padlocks
padmasana
padmelon
padnag
padnags
padou
padouk
padouks
padpiece
padre
padres
padri
padrino
padroadist
padroado
padrona
padrone
padrones
padroni
padronism
pads
padsaw
padshah
padshahs
padstone
padtree
paduasoy
paduasoys
paean
paeanism
paeanisms
paeanize
paeanized
paeanizing
paeanizing
paecans
paedagogic
paedagogism
paedagogue
paedagogy
paedarchy
paedatrophia
paedatrophy
paederast
paederastic
paederastically
paederasty
paedeutics
paediatric
paediatrician
paediatrics
paediatrie
paedobaptism
paedobaptist
paedogenesis
paedogenetic
paedogenic
paedological
paedologist
paedology
paedometer
paedometrical
paedomorphic
paedomorphism
paedomorphism
paedonymic
paedonymy
paedophilia
paedopsychologist
paedotribe
paedotrophic
paedotrophist
paedotrophy
paegel
paegle
paella
paellus
paenula
paenulae
paenulas
pecon
paconic
paconin
pacons
pacony
paconulæ
paepæe
paesano
paetrick
paga
pagador
pagan
pagan's
pagandom
pagandoms
paganic
palaced
palacelike
palaceous
palaces
palaceward
palacewards
palach
palacsinta
paladin
paladins
palaeanthropic
palaearctic
palaechinoid
palaechinoidean
palaentomology
palaethnologic
palaethnological
palaethnologist
palaethnology
palaichthyan
palaichthyic
palaemonid
palaemonoid
palaeoalchemical
palaeanthropic
palaeanthropopgraphy
palaeanthropology
palaeoatavism
palaeoatavistic
palaobiogeography
palaobiologic
palaobiological
palaobiologist
palaobiology
palaebotanic
palaebotanical
palaebotanically
palaebotanist
palaebotany
palaeeceanography
palaeechorology
palaeeclimatic
palaeeclimatologic
palaeeclimatological
palaeeclimatologist
palaeeclimatology
palaeeosmic
palaeeosmology
palaeocrystal
palaeocrystallic
palaeocrystalline
palaeocrystic
palaeocyclic
palaeodendrologic
palaeodendrological
palaeodendrologically
palaeodendrologist
palaeodendrology
palaeodictyopteran
palaeodictyopteron
palaeodictyopterous
palaeoeccologic
palaeoeccological
palaeoeccologist
palaeoeconomy
palaeoencephala
palaeoencephalon
palaeoentomologic
palaeoentomological
palaeoentomologist
palaeoentomology
palaeoeremology
palaeoethnic
palaeoethnobotany
palaeoethnologic
palaeoethnological
palaeoethnologist
palaeoethnology
palaeoфаuna
palaeogene
palaeogenesis
palaeogenetic
palaeogeographic
palaeogeographical
palaeogeographically
palaeogeography
palaeoglaciology
palaeoglYPH
palaeognathic
palaeognathous
palaeograph
palaeographer
palaeographic
palaeographical
palaeographically
palaeographist
palaeography
palaeoherpetologist
palaeoherpetology
palaeohistology
palaeohydrography
palaeolatry
palaeolimnology
palaeolith
palaeolithic
palaeolithical
palaeolithist
palaeolithoid
palaeolithy
palaeological
palaeologist
palaeology
palacomagnetism
palaeomastodon
palaeometallic
palaeometeorological
palaeometeorology
palaeonemertean
palaeonemertine
palaeoniscid
palaeoniscoid
palaeontographic
palaeontographical
palaeontography
palaeontol
palaeontologic
palaeontological
palaeontologically
palaeontologies
palaeontologist
palaeontology
palaeopathology
palaeopedology
palaeophile
palaeophilist
palaeophis
palaeophysiology
palaeophysics
palaeophytic
palaeophytological
palaeophytologist
palaeophytology
palaeoplain
palaeopotamology
palaeopsychic
palaeopsychological
palaeopsychology
palaeoptychology
palaeornithine
palaeornithological
palaeornithology
palaeosaur
palaeosophy
palaeospondylus
palaeostracan
palaeostriatial
palaeostriatum
palaeostylic
palaeostyly
palaeotechnic
palaeothalamus
palaeothere
palaeotherian
palaeotheriodont
palaeotheriid
palaeotheroid
palaeotropical
palaeotype
palaeotypic
palaeotypical
palaeotypically
palaeotypographic
palaeotypographical
palaeotypographist
palaeotypography
palaeovolcanic
palaeozoic
palaeozoologic
palaeozoological
palaeozoologist
palaeozoology
palaestra
palaestrae
palaestral
palaestras
palaestrian
palaestric
palaestrics
palaetiological
palaetiological
palaetologist
palaetiology
palafitte
palatefulness
palateless
palatelike
palates
palatia
palatial
palatially
palatiafulness
palatian
palatic
palatinal
palatinate
palatinates
palatine
palatines
palatineship
palatinite
palation
palatist
palatitis
palatum
palative
palatization
palatize
palatoalveolar
palatodental
palatoglossal
palatoglossus
palatognathous
palatogram
palatograph
palatography
palatomaxillary
palatometer
palatonasal
palatopharyngeal
palatopharyngeus
palatoplasty
palatoplegia
palatopterygoid
palatoquadrate
palatorrhaphy
palatoschisis
palaver
palavered
palaverer
palavering
palaverist
palaverment
palaverous
palavers
palay
palayan
palazzi
palazzo
palberry
patch
pale
palea
paleaceous
paleae
paleal
paleanthropic
paleate
palebelly
palebreast
palebuck
palechinoid
paled
paledness
paleencephala
paleencephalon
paleencephalons
paleentomology
paleethnographer
paleethnologic
paleethnological
paleethnologist
paleethnology
paleface
palefaces
palegold
palehearted
paleichthyologic
paleichthyologist
paleichthyology
paleiform
paley
paleness
palenesses
paleoalchemical
paleoandesite
paleoanthropic
paleoanthropography
paleoanthropological
paleoanthropologist
paleoanthropology
paleoatavism
paleoatavistic
paleobiogeography
paleobiologic
paleobiological
paleobiologist
paleobiology
paleobotanic
paleobotanical
paleobotanically
paleobotanist
paleobotany
paleoceanography
paleocene
paleochorologist
paleochorology
paleoclimatic
paleoclimatologic
paleoclimatological
paleoclimatologist
paleoclimatology
paleocosmic
paleocosmology
paleocrystal
paleocrystallar
paleocrystalline
paleocrystic
paleocyclic
paleodendrologic
paleodendrological
paleodendrologically
paleodendrologist
paleodendrology
paleodentrologist
paleoecologic
paleoecological
paleoecologist
paleoecology
paleoencephalon
paleoentomologic
paleoentomological
paleoentomologist
paleoeremology
paleoethnic
paleoethnography
paleoethnologic
paleoethnological
paleoethnologist
paleoethnology
paleofauna
paleog
paleogenesis
paleogenetic
paleogeographic
paleogeographical
paleogeographically
paleogeography
paleogeologic
paleoglaciologist
paleoglaciology
paleoglyph
paleograph
paleographer
paleographers
paleographic
paleographical
paleographically
paleographist
paleography
paleoherpetologist
paleoherpetology
paleohistology
paleohydrography
paleoichthyology
paleokinetic
paleola
paleolate
paleolatry
paleolimnology
paleolith
paleolithic
paleolithical
paleolithist
paleolithoid
paleolithy
paleological
paleologist
paleology
paleomagnetic
paleomagnetically
paleomagnetism
paleomagnetist
paleomammalogy
paleomammologist
paleomammology
paleometallic
paleometeorological
paleometeorologist
paleometeorology
paleon
paleontographic
paleontographical
paleontography
paleontol
paleontologic
paleontological
paleontologically
paleontologies
paleontologist
paleontologists
paleontology
paleopathologic
paleopathological
paleopathologist
paleopathology
paleopedology
paleophysiography
paleophysiologist
paleophysiology
paleophytic
paleophysyological
paleophysologist
paleophytology
paleopicrite
paleoplain
paleopotamology
paleopotamoloy
paleopsychic
paleopsychological
paleopsychology
paleornithological
paleornithologist
paleornithology
paleostriatal
paleostriatum
paleostylic
paleostyly
paleotechnic
paleothalamus
paleothermal
paleothermic
paleovolcanic
paleoxygenium
palisadoed
palisadoes
palisadoing
palisander
palisfy
palish
palisse
palistrophia
palkee
palki
pall
palla
palladammin
palladammine
palladia
palladian
palladic
palladiferous
palladinize
palladinized
palladinizing
palladion
palladious
palladium
palladiumize
palladiumized
palladiumizing
palladiums
palladize
palladized
palladizing
palladodiummine
palladosammime
palladous
pallae
pallah
pallal
pallanesthesia
pallar
pallas
pallasite
pallbearer
pallbearers
palled
pallescence
pallescent
pallesthesia
pallet
palliums
pallograph
pallographic
pallometric
pallone
pallor
pallors
palls
pallwise
pally
palm
palma
palmaceous
palmad
palmanesthesia
palmar
palmarian
palmaris
palmary
palmate
palmated
palmately
palmatifid
palmatiform
palmatilobate
palmatilobed
palmination
palmatiparted
palmatipartite
palmatisect
palmatisected
palmature
palmchrist
palmcrist
palmed
palmellaceous
palmelloid
palmer
palmeries
palmerin
palmerite
palmers
palmerworm
palmery
palmesthesia
palmette
palmettes
palmetto
palmettoes
palmettos
palmetum
palmful
palmic
palmicoleus
palmicolous
palmier
palmiest
palmiferous
palmification
palmiform
palmigrate
palmilla
palmillo
palmilobate
palmilobated
palmilobed
palmin
palminervate
palminerved
palming
palmiped
palmipes
palmira
palmist
palmiste
palmister
palmistry
palmists
palmitate
palmite
palmitic
palmitin
palmitine
palmitinic
palmitins
palmito
palmitoleic
palmitone
palmitos
palmiseined
palmivorous
palmlike
palmo
palmodic
palmoscopy
palmospasmus
palms
palmula
palmus
palmwise
palmwood
palmy
palmyra
palmyras
palolo
palolos
paloma
palombino
palometa
palomino
palominos
palooka
palookas
palosapin
palour
palouser
paloverde
palp
palpability
palpable
palpableness
palpably
palpacle
palpal
palpate
palpated
palpates
palpating
palpation
palpations
palpator
palpators
palpatory
palpebra
palpebrae
palpebral
palpebrate
palpebration
palpebritis
palped
palpi
palpicorn
palpifer
palpiferous
paludament
paludamenta
paludamentum
palude
paludial
paludian
paludic
paludicole
paludicoline
paludicolous
paludiferous
paludina
paludinal
paludine
paludinous
paludism
paludisms
paludose
paludous
paludrin
paludrine
palule
paluli
palulus
palus
palustral
palustrian
palustrine
paly
palynologic
palynological
palynologically
palynologist
palynology
palynomorph
pam
pamaceous
pamaquin
pamaquine
pambanmanche
pament
pameroon
pamhy
pamment
pampa
pampanito
pampas
pampean
pan's
panabase
panace
panacea
panacea's
panacean
panaceas
panaceist
panache
panached
panaches
panachure
panada
panadas
panade
panaesthesia
panaesthetic
panagia
panagiarian
panama
panamanian
panamanians
panamas
panapospory
panarchic
panarchy
panaris
panaritium
panarteritis
panarthritis
panary
panatela
panatelas
panatella
panatellas
panathenaea
panatrope
panatrophic
panatrophy
panautomorphic
panax
panbabylonian
panbabylonism
pancake
pancake's
pancaked
pancakes
pancaking
pancarditis
panchama
panchart
panchax
panchaxes
panchayat
panchayet
pancheon
panchion
panchreston
panchromatic
panchromatism
panchromatization
panchromatize
panchway
panclastic
panclastite
panconciliation
pancosmic
pancosmism
pancosmist
pancratia
pancratian
pancratiast
pancratiastic
pancratic
pancratical
pancratically
pancration
pancratism
pancratist
pancratium
pancreas
pancreases
pancreatalgia
pancreatectomize
pancreatectomized
pancreatectomy
pancreatemphraxis
pancreathelcosis
pancreatic
pancreaticoduodenal
pancreaticoduodenostomy
pancreaticogastrostomy
pancreaticosplenic
pancreatin
pancreatism
pancreatitic
pancreatitis
pancreatization
pancreate
pancreatoduodenectomy
pancreatoenterostomy
pancreatogenic
pancreatogenous
pancreatoid
pancreatolipase
pancreatolith
pancreatectomy
pancreatoncus
pancreatopathy
pancreatorrhagia
pancreatotomies
pancreatotomy
pancreectomy
pancreozymin
panctia
pancytopedic
pand
panda
pandal
pandan
pandanaceous
pandani
pandanus
pandanuses
pandar
pandaram
pandaric
pandarus
pandas
pandation
pandava
pandean
pandect
pandects
pandemia
pandemian
pandemic
pandemicity
pandemics
pandemoniac
pandemoniacal
pandemonian
pandemonic
pandemonism
pane
pane's
panecclesiastical
paned
panegoism
panegoist
panegyre
panegyric
panegyrica
panegyrical
panegyrically
panegyricize
panegyricon
panegyrics
panegyricus
panegyris
panegyrister
panegyrist
panegyrist
panegyrize
panegyrized
panegyrizer
panegyrizes
panegyrizing
panegyry
paneity
panel
panela
panelation
panelboard
paneled
paneler
paneless
paneling
panelings
panelist
panelist's
panelists
panellation
panelled
panelling
panellist
panels
panelwise
panelwork
panentheism
panes
panesthesia
panesthetic
panner
pannery
pannes
panneuritic
panneuritis
pannicle
pannicular
pannicultis
panniculus
pannier
pannied
pannierman
panniers
pannikin
pannikins
panning
pannose
pannosely
pannum
pannus
pannuscorium
panocha
panochar
panoche
panoches
panococo
panoistic
panomphaean
panomphaic
panompherean
panomphic
panophobia
panophthalmia
panophthalmitis
panoplied
panoplies
panoplist
panoply
panoplying
panoptic
panoptical
panopticon
panoram
panorama
panoramas
panoramic
panoramical
panoramically
panoramist
panornithic
panorpa
panorpian
panorpid
panosteitis
panostitis
panotitis
panotype
panouchi
panowie
panopathy
panpharmacon
panphenomenalism
panphobia
panpipe
panpipes
panplegia
panpneumatism
panpolism
panpsychic
panpsychism
panpsychist
panpsychistic
pans
panscientist
pansciolism
pansciolist
pansclerosis
pansclerotic
panse
pansexism
pansexual
pansexualism
pansexualist
pansexuality
pansexualize
panshard
panside
pansideman
pansied
pansiere
pansies
pansified
pansinuitis
pansinusitis
pansit
pansmith
pansophic
pansophical
pansophically
pansophies
pansophism
pansophist
pansophy
panspermatism
panspermatist
panspermia
panspermic
panspermism
panspermist
panspermy
pansphygmograph
panstereorama
pansy
pansy's
pansyish
pansylike
pant
pantachromatic
pantacosm
pantagamy
pantagogue
pantagraph
pantagraphic
pantagraphical
pantagruel
pantagruelian
pantagruelion
pantagruelism
pantalan
pantaleon
pantalet
pantaletless
pantalets
pantalette
pantaletted
pantalettes
pantalgia
pantaloon
pantalone
pantaloon
pantalooned
pantaloonery
pantaloons
pantameter
pantamorph
pantamorphia
pantamorphic
pantanemone
pantanencephalia
pantanencephalic
pantaphobia
pantarbe
pantarchy
pantas
pantoscope
pantascopic
pantatrophia
pantatrophy
pantatype
pantdress
pantechnic
pantechnicon
panted
pantelegraph
pantelegraphy
panteleologism
pantelephone
pantelephonic
pantellerite
panter
panterer
panthea
pantheic
pantheism
pantheist
pantheistic
pantheistical
pantheistically
pantheists
panthelematism
panthelism
pantheologist
pantheology
pantheon
pantheonic
pantheonization
pantheonize
pantheons
panther
panther's
pantheress
pantherine
pantherish
pantherlike
panthers
pantherwood
pantheum
pantie
panties
panthose
pantile
pantiled
pantiles
pantiling
pantine
panting
pantingly
pantisocracy
pantisocrat
pantisocratic
pantisocratical
pantisocratist
pantle
pantler
panto
pantochrome
pantochromatic
pantochromism
pantochronometer
pantod
pantoffle
pantofle
pantofles
pantoganglitis
pantogelastic
pantoglossical
pantoglot
pantoglottism
pantograph
pantographer
pantographic
pantographical
pantographically
pantography
pantoiatrical
pantologic
pantological
pantologist
pantology
pantomancer
pantomania
pantometer
pantometric
pantometrical
pantometry
pantomime
pantomimed
pantomimes
pantomimic
pantomimical
pantomimically
pantomimicry
pantomiming
pantomimish
pantomimist
pantomimists
pantomimus
pantomnesia
pantomnesic
pantomorph
pantomorphia
pantomorphic
panton
pantonal
pantonality
pantoon
pantopelagian
pantophagic
pantophagist
pantophagous
pantophagy
pantophile
pantophobia
pantophobic
pantophobous
pantoplethora
pantopod
pantopragmatic
pantopterus
pantos
pantoscope
pantoscopic
pantosophy
pantostomate
pantostomatous
pantostome
pantotactic
pantothen
pantothenate
pantothenic
pantothere
pantotherian
pantotype
pantoum
pantoums
pantries
pantropic
pantropical
pantropically
pantry
pantry's
pantryman
pantrymen
pantrywoman
pants
pantsuit
pantsuits
pantun
panty
pantyhose
pantywaist
pantywaists
panuelo
panuelos
panung
panure
panurige
panurgic
panurgy
panus
panyar
panzer
panzers
panzoism
panzootia
panzootic
panzooty
paolo
paon
paopao
pap
papa
papability
papable
papabot
papabote
papilionid
papilionine
papilionoid
papilla
papillae
papillar
papillary
papillate
papillated
papillecctomy
papilledema
papilliferous
papilliform
papillitis
papilloadenocystoma
papillocarcinoma
papilloedema
papilloma
papillomas
papillomata
papillomatosis
papillomatous
papillon
papillons
papilloretinitis
papillosarcoma
papillose
papillosity
papillote
papillous
papillulate
papillule
papingo
papion
papiopio
papish
papishe
papism
papist
papistic
papistical
papistically
papistlike
papistly
papistries
papistry
papists
papize
papless
paplike
papmeat
papolater
papolatrous
papolatry
papoose
papooseroth
papooses
papoosh
papoula
papovavirus
pappain
pappenhimer
pappescent
pappi
pappier
pappies
pappiester
pappiferous
pappiform
pappoose
pappooses
pappose
pappous
pappox
pappus
pappy
pappyri
papreg
paprica
papricas
paprika
paprikas
papriks
paps
papua
papuan
papuans
papula
papulae
papulan
papular
papulate
papulated
papulation
papule
papules
papuliferous
papuloerythematos
papulopustular
papulopustule
papulose
papulosquamous
papulous
papulovesicular
papyr
papyraceous
papyral
papyrean
papyri
papyrian
papyrin
papyrine
papyritious
papyrocracy
papyrograph
papyrographer
papyrographic
papyrography
papyrological
papyrologist
papyrology
papyrophobia
papyroplastics
papyrotamia
papyrotint
papyrype
papyrus
papyruses
paquet
par
para
paraaminobenzoic
parabanate
parabanic
parabaptism
parabaptization
parabal
parabases
parabasic
parabasis
parabema
parabemata
parabematic
parabenzolquinone
parabien
parabiosis
parabiotic
parabiotically
parablast
parablastic
parable
parabled
parablepsia
parablepsis
parablepsy
parableptic
parables
parabling
parabola
parabolanus
parabolas
parabole
parabolic
parabolical
parabolicalism
parabolically
parabolicness
paraboliform
parabolise
parabolised
parabolising
parabolist
parabolization
parabolize
parabolized
parabolizer
parabolizing
paraboloid
paraboloidal
parabomb
parabolotism
parabrake
parabranchia
parabranchial
parabranchiate
parabulia
parabulic
paracanthosis
paracarmine
paracasein
paracaseinate
paracelsian
paracenteses
paracentesis
paracentral
paracentric
paracentrical
paracephalus
paracerebellar
paracetaldelyde
paracetamol
parachaplain
paracholia
parachor
parachordal
parachors
parachrea
parachroia
parachroma
parachromatism
parachromatophorous
parachromatopsis
parachromatosis
parachrome
parachromoparous
parachromophoric
parachromophorous
parachronism
parachronistic
parachrose
parachute
parachute's
parachuted
parachuter
parachutes
parachutic
parachuting
parachutism
parachutist
parachutists
paracium
paraclete
paracmasis
paracme
paracele
paracoelian
paracolitis
paracolon
paracolpitis
paracolpium
paracondyloid
paracone
paraconic
paraconid
paraconscious
paracorolla
paracotoin
paracoumaric
paracresol
paracroistic
paracusia
paracusic
paracusis
paracyanogen
paracyeses
paracyesis
paracymene
paracystic
paracystitis
paracystium
parada
parade
paraded
paradeful
paradeless
paradelike
paradenitis
paradental
paradentitis
paradentium
parader
paraderm
paraders
parades
paradiastole
paradiazine
paradichlorobenzene
paradichlorobenzol
paradichlorobenzene
paradichlorobenzol
paradiddle
paradidym
paradidymal
paradidymis
paradigm
paradigm's
paradigmatic
paragmatical
paradigmatically
paradigmatize
paradigms
parading
paradingly
paradiplomatic
paradisaic
paradisaical
paradisaically
paradisal
paradisally
paradise
paradisean
paradises
paradisiac
paradisiacal
paradisiacally
paradisial
paradisian
paradisic
paradisical
parado
paradoctor
parados
paradoxes
paradox
paradox's
paradoxal
paradoxer
paradoxes
paradoxial
paradoxic
paradoxical
paradoxicalism
paradoxicality
paradoxically
paradoxicalness
paradoxician
paradoxidian
paradoxism
paradoxist
paradoxographer
paradoxographical
paradoxology
paradoxure
paradoxurine
paradoxy
paradromic
parageusis
paraglutination
paraglenal
paraglider
paraglobin
paraglobulin
paraglossa
paraglossae
paraglossal
paraglossate
paraglossia
paraglycogen
paragnath
paragnathism
paragnathous
paragnaths
paragnathus
paragneiss
paragnosia
paragoge
paragoges
paragogic
paragogical
paragogically
paragogize
paragon
paragon's
paragoned
paragonimiasis
paragoning
paragonite
paragonitic
paragonless
paragons
paragram
paragrammatist
paragraph
paragraphed
paragrapher
paragraphia
paragraphic
paragraphical
paragraphically
paragraphing
paragraphism
paragraphist
paragraphistical
paragraphize
parallactic
parallactical
parallactically
parallax
parallaxes
parallel
parallelable
paralleled
parallelepiped
parallelepipedal
parallelepipedic
parallelepipedon
parallelepipedonal
parallelepipedous
 paralleler
parallelinervate
parallelinerved
parallelinervous
parallelizing
parallelisation
parallelise
parallelised
parallelising
parallelism
parallelist
parallelistic
parallelith
parallelization
parallelize
parallelized
parallelizer
parallelizes
parallelizing
parallelled
parallelless
parallelelling
parallelly
parallelodrome
parallelodromous
parallelogram
parallelogram's
parallelogrammatic
parallelogrammatical
parallelogrammic
parallelogrammical
parallelograms
parallelograph
parallelemeter
parallelopiped
parallelopipedon
parallelotropic
parallelotropism
parallels
parallelwise
parallelepipedous
paralogia
paralogic
paralogical
paralogician
paralogism
paralogist
paralogistic
paralogize
paralogized
paralogizing
paralogy
paraluminite
paralysation
paralyse
paralysed
paralyser
paralyses
paralysing
paralysis
paralytic
paralytica
paralytical
paralytically
paralyzant
paralyzation
paralyze
paralyzed
paralyzedly
paralyzer
paralyzers
paralyzes
paralyzing
paralyzingly
param
paramagnet
paramagnetic
paramagnetically
paramagnetism
paramandelic
paramarine
paramastiginate
paramiographer
paramita
paramitome
paramnesia
paramo
paramorph
paramorphia
paramorphic
paramorphine
paramorphism
paramorphosis
paramorphous
paramos
paramount
paramountcy
paramountly
paramountness
paramountship
paramour
paramours
paramuthetic
paramyelin
paramylum
paramyoclonus
paramyosin
paramyosinogen
paramyotone
paramyotonia
paramyxovirus
paranasal
paranatellon
parandrus
paranema
paranematic
paranephric
paranephritic
paranephritis
paranephros
paranepionic
paranete
parang
parangi
parangs
paranitraniline
paranitrosophenol
paranja
paranoea
paranoeac
paranoeas
paranoia
paranoiac
paranoiacs
paranoias
paranoid
paranoidal
paranoidism
paranoids
paranomia
paranormal
paranormality
paranormally
paranosic
paranotions
paranthelion
paranthracene
paranuclear
paranucleate
paranuclei
paranucleic
paranuclein
paranucleinic
paranucleus
paranymph
paranymphal
parao
paraoperation
paraparesis
paraparetic
parapathia
parapathy
parapdia
parapegm
parapegma
parapegmata
paraperiodic
parapet
parapet's
parapetalous
parapeted
parapetless
parapets
paraph
paraphasia
paraphasic
paraphed
paraphemia
paraphenetidine
paraphenylene
paraphenylendiamine
parapherma
paraphernal
paraphernalia
paraphia
paraphilia
paraphiliac
paraphimosis
paraphing
paraphonia
paraphoniac
paraphonic
paraphototropism
paraphragm
paraphrasable
paraphrase
paraphrased
paraphraser
paraphrasers
paraphrases
paraphrasia
paraphrasian
paraphrasing
paraphrasis
paraphrasist
paraphrast
paraphraster
paraphrastic
paraphrastical
paraphrastically
paraphrenia
paraphrenic
paraphrenitis
paraphronesia
paraphroside
paraphroside
paraphruses
paraphys
paraphyllia
paraphyllium
paraphysate
paraphysical
paraphysiferous
paraphysis
paraplasis
paraplasm
paraplasmic
paraplastic
paraplastin
paraplectic
paraplegia
paraplectic
paraplegics
paraplegy
parapleuritis
parapleurum
parapod
parapodia
parapodial
parapodium
parapophysial
parapophysis
paraphyllia
parapraxia
parapraxis
paraproctitis
paraproctum
paraprofessional
paraprofessionals
paraprostatitis
paraprotein
parapsidal
parapsidan
parapsis
parapsychical
parapsychism
parapsychological
parapsychologies
parapsychologist
parapsychologists
parapsychology
parapsychosis
paraptera
parapteral
parapteron
parapterum
paraquadrate
paraquat
paraquats
paraquet
paraquets
paraquinone
parapectal
pararek
parareka
pararhotacism
pararosaniline
pararosolic
pararthria
paras
parasaboteur
parasalpingitis
parasang
parasangs
parascene
parascenia
parascenium
parasceve
paraschematic
parasecretion
paraselenae
paraselene
paraselenic
parasemidin
parasemidine
parasexual
parasexuality
parashah
parashioth
parashoth
parasigmatism
parasigmatismus
parasital
parasitary
parasite
parasite's
parasitelike
parasitemia
parasites
parasithol
parasitic
parasitical
parasitically
parasiticalness
parasiticidal
parasiticide
parasiticidec
parasitics
parasiticus
parasitism
parasitization
parasitize
parasitized
parasitizes
parasitizing
parasitogenic
parasitoid
parasitoidism
parasitoids
parasitologic
parasitological
parasitologies
parasitologist
parasitology
parasitophobia
parasitosis
parasitotrope
parasitotropic
parasitotropism
parasitotropy
paraskenion
parasnia
parasol
parasoled
parasolette
parasols
paraspecific
parasphenoid
parasphenoidal
paraspotter
paraspy
parastades
parastas
parastatic
parastemon
parastemonal
parasternal
parasternum
parastichies
parastichy
parastyle
parasubphonate
parasubstituted
parasuchian
parasympathetic
parasympathomimetic
parasynapsis
parasynaptic
parasynaptist
parasyndesis
parasyneisis
parasynetic
parasynovitis
parasythogenesis
parasythethetic
parasythetheton
parasyphilis
parasyphilitic
parasyphilosis
parasystole
paratactic
paratactical
paratactically
paratarctic
parataxic
parataxis
parate
paraterminal
paratherian
parathesis
parathetic
parathion
parathormone
parathyemic
parathyrin
parathyroid
parathyroidal
parathyroidectomies
parathyroidectomize
parathyroidectomized
parathyroidectomizing
parathyroidectomy
parathyroids
parathyroprival
parathyroprivia
parathyroprivic
paratita
paratitles
paratitlon
paratoloid
paratoluic
paratoluidine
paratomial
paratomium
paratonic
paratonically
paratonnerre
paratorium
paratory
parenterally
parentheses
parenthesis
parenthesize
parenthesized
parenthesizes
parenthesizing
parenthetic
parenthetical
parentheticality
parenthetically
parentheticalness
parenthood
parenticide
parenting
parentis
parentless
parentlike
parents
parentship
parepididymal
parepididymis
parepigastric
parer
parerethesis
parergal
parergic
parergon
parergy
parers
pares
pareses
paresis
paresthesia
paresthesia
paresthetic
parethmoid
paretic
paretically
paretics
paretta
pareu
pareunia
pareus
pareve
parfait
parfaits
parfey
paridrosis
paries
pariet
parietal
parietals
parietary
parietes
parietofrontal
parietojugal
parietomastoid
parietoquadrat
parietosphenoid
parietosphenoidal
parietosplanchnic
parietosquamosal
parietotemporal
parietovaginal
parietovisceral
parify
parigenin
pariglin
parilla
parillin
parimutuel
parimutuels
parine
paring
parings
paripinnate
paris
parises
parish
parish's
parished
parishen
parishes
parishional
parishionally
parishionate
parishioner
parishioners
parishionership
parishwide
parisia
parisian
parisians
parisiennes
parisis
parle
parled
parlement
parles
parlesie
parley
parleyed
parleyer
parleyers
parleying
parleys
parleyvoo
parli
parlia
parliament
parliament's
parliamental
parliamentarian
parliamentarianism
parliamentarians
parliamentarily
parliamentariness
parliamentarism
parliamentarization
parliamentarize
parliamentary
parliamenteer
parliamenteering
parliamenteer
parliaments
parling
parlish
parlor
parlor's
parlorish
parlormaid
parlors
parlour
parlourish
parlours
parlous
parlously
parlousness
parly
parma
parmacety
parmack
parmak
paremiaceous
paremioid
parmentier
parmesan
parmigiana
parmigiano
parnas
parnassian
carnassian
pamnel
pamnellism
pampropri
pamproion
pamproarium
paroccipital
paroch
parochial
parochialic
parochialis
parochialise
parochialised
parochialising
parochialism
parochialist
parochiality
parochialization
parochialize
parochially
parochialness
parochian
parochin
parochine
parochiner
parode
parodi
parodiable
parodial
parodic
parodical
parodied
parodies
parodinia
parodist
parodistic
parodistically
parodists
parodize
parodoi
parodontia
parodontitia
parodontitis
parodontium
parodos
parodus
parody
parodying
parodyproof
paroecious
paroeciously
paroeciousness
paroecism
paroe
paroemia
paroemiac
paroemiographer
paroemiography
paroemiologist
paroemiology
paroicous
parol
parolable
parole
paroled
parolee
parolees
paroler
parolers
paroles
parolfactory
paroli
paroling
parolist
parols
paromoeon
paromologetic
paromologia
paromology
paromphalocele
paromphalocelic
paronomasia
paronomasial
paronomasan
paronomasiastic
paronomastic
paronomastical
paroxysm
paroxysmal
paroxysmalist
paroxysmally
paroxysmic
paroxysmist
paroxysms
paroxytone
paroxytonic
paroxytonize
parpal
parpen
parpend
parquet
parquetage
parqueted
parqueting
parquetry
parquets
parr
parrah
parrakeet
parrakeets
parral
parrall
parrals
parramatta
parred
parrel
parrels
parrhesia
parrhesiastic
parriable
parricidal
parricidally
parricide
parricided
parricides
parricidal
parricidism
parridge
parridges
parried
parrier
parries
paring
parritch
parritches
parten
parter
parterre
parterred
parterres
parters
partes
partheniad
parthenian
parthenic
parthenocarpelly
parthenocarpic
parthenocarpical
parthenocarpically
parthenocarpous
parthenocarpy
parthenogeneses
parthenogenesis
parthenogenetic
parthenogenetically
parthenogenic
parthenogenitive
parthenogenous
parthenogeny
parthenogone
parthenogonidium
parthenolatry
parthenology
parthenon
parthenoparous
parthenophobia
parthenosperm
parthenospore
parthian
parti
partial
partialled
partialise
partialised
partialising
partialism
partialist
partialistic
partialities
partiality
partialize
partially
partialness
particularities
particularity
particularization
particularize
particularized
particularizer
particularizes
particularizing
particularly
particularness
particulars
particulate
particule
partie
partied
parties
partigen
partile
partim
partimembered
partimen
partimento
parting
partings
partinium
partis
partisan
partisan's
partisanism
partisanize
partisanry
partisans
partisanship
partita
partitas
partite
partition
partitional
partitionary
partitioned
partitioner
partitioning
partitionist
partitionment
partitions
partitive
partitively
partitura
partiversal
partivity
partizan
partizans
partizanship
partless
partlet
partlets
partley
partly
partner
partnered
partnering
partnerless
partners
partnership
partnerships
parto
parton
partons
partook
partridge
partridge's
partridgeberries
partridgeberry
partridgelike
partridges
partridgewood
partridging
parts
partschinite
parture
parturiate
parturience
parturiency
parturient
parturifacient
parturition
parturitions
parturitive
partway
party
party's
partyning
partyism
partyist
partykin
partyless
password's
passwords
passworts
passymeasure
past
past's
pasta
pastas
paste
pasteboard
pasteboards
pasteboardy
pasted
pastedness
pastedown
pastel
pastelist
pastelists
pastellist
pastellists
pastels
paster
pasterer
pastern
pasterned
pasterns
pasters
pastes
pasteup
pasteur
pasteurella
pasteurellae
pasteurellas
pasteurellosis
pasteurisation
pasteurise
pasteurised
pasteurising
pasteurism
pasteurization
pasteurize
pasteurized
pasteurizer
pasteurizers
pasteurizes
pasteurizing
pasticcci
pasticci
pathematic
pathematically
pathematology
pathenogenicity
pathetic
pathetical
pathetically
patheticalness
patheticate
patheticly
patheticness
pathetism
pathetist
pathetize
pathfarer
pathfind
pathfinder
pathfinders
pathfinding
pathic
pathicism
pathless
pathlessness
pathlet
pathment
pathname
pathnames
pathoanatomical
pathoanatomy
pathobiological
pathobiologist
pathobiology
pathochemistry
pathocure
pathodontia
pathoformic
pathogen
pathogene
pathogeneses
pathogenesis
pathogenesy
pathogenetic
pathogenic
pathogenically
pathogenicity
pathogenous
pathogens
pathogeny
pathogerm
pathogermic
pathognomic
pathognomical
pathognomonic
pathognomonical
pathognomonically
pathognomy
pathognostic
pathographic
pathographical
pathography
pathol
pathologic
pathological
pathologically
pathologicoanatomic
pathologicoanatomical
pathologicoclinical
pathologicohistological
pathologicopsycho logical
pathologies
pathologist
pathologists
pathology
patholysis
patholytic
pathomania
pathometabolism
pathometer
pathomimesis
pathomimicry
pathomorphologic
pathomorphological
pathomorphology
pathoneurosis
pathonomia
pathonomy
pathophobia
pathophobias
pathophoresis
pathophoric
pathophorous
pathophysiologic
pathophysiological
pathophysiology
pathplastic
pathoplastically
pathopoeia
pathopoiesis
pathopoietic
pathopsychology
pathopsychosis
pathoradiography
pathos
pathoses
pathosis
pathosocial
paths
pathway
pathway's
pathwayed
pathways
pathy
patia
patible
patibulary
patibulate
patibulated
patience
patiences
patiency
patient
patienter
patientest
patientless
patiently
patientness
patients
patin
patina
patinae
patinaed
patinas
patinate
patinated
patination
patine
patined
patines
patining
patinize
patinized
patinous
patins
patio
patios
patrocinate
patrocinium
patroclinic
patroclinous
patrocliny
patroclus
patrogenesis
patroiphobia
patrol
patrol's
patrole
patrolled
patroller
patrollers
patrolling
patrollotism
patrolman
patrolmen
patrologic
patrological
patrologies
patrologist
patrology
patrols
patrolwoman
patrolwomen
patron
patron's
patronage
patronal
patronate
patrondom
patroness
patronesses
patronessship
patronisable
patronise
patronised
patroniser
patronising
patronisingly
patronite
patronizable
patronization
patronize
patronized
patronizer
patronizers
patternize
patternless
patternlike
patternmaker
patternmaking
patterns
patternwise
patterny
patters
pattidari
pattie
patties
patting
pattinsonize
pattle
pattoo
pattu
patty
patty's
pattypan
pattypans
patu
patuca
patulent
patulin
patulous
patulously
patulousness
patwari
paty
pau
paua
paucal
pauciarticulate
pauciarticulated
paucidentate
pauciflorous
paucifoliate
paucifolious
paucify
paucijugate
paucilocular
pauciloquent
pauciloquently
pauciloquy
paucinervate
paucipinnate
pauciplicate
pauciradiate
pauciradiated
paucispiral
paucispirated
paucities
paucity
paucitypause
paughty
paukpan
pauky
paul
paular
pauldron
pauldrons
paulian
paulician
paulie
paulin
pauline
paulins
paulism
paulist
paulite
paulopast
paulopost
paulospore
paulownia
paunch
paunche
paunched
paunches
paunchful
paunchier
paunchiest
paunchily
paunchiness
paunchy
paup
pauper
pauperage
pauperate
pauperdom
paupered
pauperess
paupering
pauperis
pauperisation
pauperise
pauperised
pauperiser
pauperising
pauperism
pauperitic
pauperization
pauperize
pauperized
pauperizer
pauperizes
pauperizing
paupers
pauraque
paurometabolic
paurometabolism
paurometabolous
paurometaboloy
pauropod
pauropodous
pausably
pausai
pausal
pausalion
pausation
pause
paused
pauseful
pausefully
pauseless
pauselessly
pausement
pauser
pausers
pauses
pausing
pausingly
paussid
paut
pauxi
pav
pavade
pavage
pavan
pavane
pavanes
pavanne
pavans
pave
paxes
paxilla
paxillae
paxillar
paxillary
paxillate
paxilli
paxilliferous
paxilliform
paxillose
paxillus
paxiuba
paxwax
paxwaxes
pay
payability
payable
payableness
payably
payback
paybox
paycheck
paycheck's
paychecks
paycheque
paycheques
payday
paydays
payed
payee
payees
payen
payeny
payer
payer's
payers
payess
paying
payload
payloads
paymaster
paymasters
paymastership
payment
payment's
payments
paymistress
paynim
peacoats  
peacock  
peacock's  
peacocked  
peacockery  
peacockier  
peacockiest  
peacocking  
peacockish  
peacockishly  
peacockishness  
peacockism  
peacocklike  
peacockly  
peacocks  
peacockwise  
peacocky  
peacod  
peafowl  
peafowls  
peag  
peage  
peages  
peagoose  
peags  
peahen  
peahens  
peai  
peaiism  
peak  
peaked  
peakedly  
peakedness  
peaker  
peakgoose  
peakier  
peakiest  
peakily  
peakiness  
peaking  
peakish  
peakishly  
peakishness  
peakless  
peaklike  
peaks  
peakward  
peaky
pearlitic
pearlized
pearloyster
pearls
pearlsides
pearlspar
pearlstone
pearlweed
pearlwort
pearly
pearmain
pearmains
pearmonger
pears
peart
pearten
pearter
peartest
pearly
pearliness
pearwood
peas
peasant
peasant's
peasantess
peasantry
peasantry
peasants
peasants
peasants
peasants
peasants
peasants
peasans
peasantship
peascod
peascods
pease
peasecod
peasecods
peaslike
peasen
peases
peaseweep
peaseweep
peashooter
peason
peasouper
peastake
peastaking
peastick
peccantness
peccaries
peccary
peccation
peccatiphobia
peccatophobia
peccavi
peccavis
pech
pechan
pechans
pechay
peched
pechili
peching
pechs
pecht
pechys
pecify
pecite
peck
package
pecked
pecker
peckers
peckerwood
pecket
peckful
peckhamite
peckier
peckiest
peckiness
pecking
peckish
peckishly
peckishness
peckle
peckled
peckly
pecks
pecksniff
pecksniffery
pecksniffany
pecky
pecopteroid
pecorino
pectase
pectases
pectate
pectates
pecten
pectens
pectic
pectin
pectinaceous
pectinal
pectinase
pectinate
pectinated
pectinatella
pectinately
pectination
pectinatodenticulate
pectinatofimbricate
pectinatopinnate
pectineal
pectines
pectinesterase
pectineus
pectinibranch
pectinibranchian
pectinibranchiate
pectinic
pectinid
pectiniferous
pectiniform
pectinirostrate
pectinite
pectinogen
pectinoid
pectinose
pectinous
pectins
pectizable
pectization
pectize
pectized
pectizes
pectizing
pectocellulose
pectolite
pectora
pectoral
pectorales
pectoralgia
pectoralis
pectoralist
pectorally
pectorals
pectoriloque
pectoriloquial
pectoriloquism
pectoriloquous
pectoriloquy
pectoris
pectosase
pectose
pectosic
pectosinase
pectous
pectron
pectunculate
pectus
peculate
peculated
peculates
peculating
peculation
peculations
peculator
peculators
peculia
peculiar
pecularise
peculiarised
peculiarising
pecularism
peculiarities
pecularity
pecularity's
peculiarization
peculiarize
peculiarized
peculiarizing
peculiarly
peculiariness
pecularis
peculars
pecularsome
peculum
pecunia
pecunial
pecuniarily
pecuniary
pecuniosity
pecunious
ped
peda
pedage
pedagese
pedagog
pedagogal
pedagogery
pedagogic
pedagogical
pedagogically
pedagogics
pedagogies
pedagogish
pedagogism
pedagogist
pedagogs
pedagogue
pedagoguery
pedagogues
pedagoughish
pedagoguism
pedagogy
pedagogyaled
pedagogying
pedal
pedaled
pedaler
pedalfer
pedalferic
pedalfers
pedaliaceous
pedalian
pedalier
pedaliers
pedaling
pedalism
pedalist
pedaliter
pedality
pedalled
pedaller
pedalling
pedalo
pedals
pedanalysis
pedant
pedante
pedantesque
pedantess
pedanthood
pedantic
pedantical
pedantically
pedanticalness
pedanticism
pedanticly
pedanticness
pedantics
pedantism
pedantize
pedantocracy
pedantocrat
pedantocratic
pedantries
pedantry
pedants
pedarian
pedary
pedate
pedated
pedately
pedatifid
pedatiform
pedatilobate
pedatilobed
pedatinerved
pedatipartite
pedatisect
pedatisected
pedatrophia
pedatrophy
pedder
peddlar
peddle
peddled
peddler
peddler's
peddleress
peddleries
peddlerism
peddlers
peddlerly
peddles
peddling
peddingly
pedee
pedelion
pederast
pederastic
pederastically
pederastical
pederasties
pederasts
pederasty
pederero
pedes
pedeses
pedesis
pedestal
pedestaled
pedestaling
pedestalled
pedestalling
pedestals
pedestrials
pedestrially
pedestrian
pedestrian's
pedestrianate
pedestrianise
pedestrianised
pedestrianising
pedestrianism
pedestrianize
pedestrianized
pedestrianizing
pedestrians
pedestrious
pedetentous
pedetic
pediad
pediadontia
pediadontic
pediadontist
pedial
pedialgia
pediatric
pediatrician
pediatricians
pediatrics
pediatrist
pediatry
pedicab
pedicabs
pedicel
pediceled
pedicellar
pedicellaria
pedicellate
pedicellated
pedicellation
pedicelled
pedicelliform
pedicellus
pedicels
pedicle
pedicled
pedicles
pedicular
pediculate
pediculated
pediculation
pedicule
pediculicidal
pediculicide
pediculid
pediculine
pediculofrontal
pediculoid
pediculoparietal
pediculophobia
pediculosis
pediculous
pedicure
pedicured
pedicures
pedicuring
pedicurism
pedicurist
pedicurists
pediferous
pediform
pedigerous
pedigaic
pedigee
pedigreed
pedigreeless
pedigrees
pediluvium
pedimane
pedimanous
pediment
pedimental
pedimented
pediments
pedimentum
pediococci
pediococcoci
pediococcus
pedion
pedionomite
pedipalp
pedipalpal
pedipalpate
pedipalpous
pedipalps
pedipalpus
pedipulate
pedipulation
pedipulator
pediwak
pedlar
pedlaries
pedlars
pedlary
pedler
pedleries
pedlers
pedlery
pedobaptism
pedobaptist
pedocal
pedocalcic
pedocalic
pedocals
pedodontia
pedodontic
pedodontist
pedodontontology
pedogenesis
pedogenetic
pedogenic
pedograph
pedologic
pedological
pedologies
pedologist
pedologistal
pedologistically
pedology
pedomancy
pedomania
pedometer
pedometers
pedometric
pedometrical
pedometrically
pedometrician
pedometrist
pedomorphic
pedomorphism
pedomotive
pedomotor
pedophile
pedophilia
pedophilic
pedophobia
pedosphere
pedospheric
pedotribe
pedotrophic
pedotrophist
pedotrophy
pedrail
pedregal
pedrero
pedro
pedros
peds
pedule
pedum
peduncle
peduncled
peduncles
peduncular
pedunculate
pedunculated
pedunculation
pedunculi
pedunculus
pee
peebeen
peebeens
peebees
peed
peeing
peek
peekaboo
peekabooos
peeke
peeked
peeking
peeks
peel
peelable
peelcrow
peele
peeled
peeledness
peeler
peelers
peelhouse
peeling
peelings
peelite
peelman
peels
peen
peened
peenge
peening
peens
pecoy
peep
peeped
peeper
peepers
peepeye
peephole
peepholes
peeping
peeps
peepshow
peepshows
peepul
peepuls
peepy
peer
peerage
peerages
peerdom
peered
peeress
peeresses
pelargonin
pelargonium
pelasgian
pelasgic
pele
pelean
pelecan
pelecoid
pelecypod
pelecypodous
pelelith
peleliu
peleng
plerin
plerine
plerines
peles
peletre
pelf
pelfs
pelham
pelias
pelican
pelicanry
pelicans
pelick
pelicomter
pelikai
pelike
peliom
pelioma
peliosis
pelisse
pelisses
pelite
pelites
pelitic
pell
pellage
pellagra
pellagragenic
pellagras
pellagric
pellagrin
pellagroid
pellagrose
pellagrous
pellar
pencils
pencey
penchant
penchants
penche
penchute
pencil
penciled
penciler
pencilers
penciliform
penciling
pencilled
penciller
pencilike
pencilling
penciry
pencils
pencilwood
penciler
pencraft
pend
penda
pendant
pendanted
pendanting
pendantlike
pendants
pendative
pendecagon
pended
pendeloque
pendencies
pendency
pendens
pendent
pendente
pendentive
pendently
pendents
pendicle
pendicler
pending
pendle
pendn
pendom
pendragon
pendragonish
penetrative
penetratively
penetrativeness
penetrativity
penetrator
penetrator's
penetrators
penetrology
penetrology
penetrometer
penfieldlite
penfold
penful
peng
penghulu
pengo
pengos
penguin
penguin's
penguinery
penguins
penguin
penhead
penholder
penial
peniaphobia
penible
penicil
penicilium
penicillate
penicillated
penicillately
penicillation
penicillia
penicilliform
penicillin
penicillinic
penicillium
penicils
penide
penile
penile
penillion
peninsula
peninsula's
peninsular
peninsularism
peninsularity
peninsulas
peninsulate
penintime
peninvariant
penis
penises
penistone
penitence
penitencer
penitency
penitent
penitential
penitentially
penitentials
penitentiaries
penitentiary
penitentiaryship
penitently
penitents
penitis
penk
penkeeper
penknife
penknives
penlight
penlights
penlike
penlite
penlites
penlop
penmaker
penmaking
penman
penmanship
penmaster
penmen
penna
pennaceous
pennae
pennage
penname
pennames
pennant
pennants
pennate
pennate
pennated
pennatifid
pennatilobate
pennatipartite
pennatisect
pennatisected
pennatulacean
pennatulaceous
pennatularian
pennatulid
pennatuloid
penned
penneech
penneeck
penner
penners
pennet
penney
penni
pennia
pennied
pennies
penniferous
penniform
pennigerous
penniless
pennilessly
pennilessness
pennill
pennine
penninervate
penninerved
pennines
penning
penninite
pennipotent
pennis
penniveined
pennon
pennoncel
pennoncelle
pennonced
pennons
pennopluma
pennoplume
pennorth
pennsylvania
pennsylvanian
pennsylvanians
pennsylvanicus
pennuckle
penny
penship
pensil
pensile
pensileness
pensility
pensils
pension
pensionable
pensionably
pensionaries
pensionary
pensionat
pensione
pensioned
pensioner
pensioners
pensionership
pensiones
pensioning
pensionless
pensionnaire
pensionnat
pensionry
pensions
pensive
pensived
pensively
pensiveness
penstemon
penster
pensters
penstick
penstock
penstocks
pensum
pensy
pent
penta
pentabasic
pentabromide
pentacapsular
pentacarbon
pentacarbonyl
pentacarpellary
pentace
pentacetate
pentachenium
pentachloride
pentagon
pentagon's
pentagonal
pentagonally
pentagonohedron
pentagonoid
pentagonon
pentagons
pentagram
pentagrammatic
pentagrid
pentagyn
pentagynian
pentagynous
pentahalide
pentahedra
pentahedral
pentahedrical
pentahedroid
pentahedron
pentahedrous
pentahexahedral
pentahexahedron
pentahydrate
pentahydrated
pentahydric
pentahydroxy
pentail
pentaiodide
pentalobate
pentalogies
pentologue
pentalogy
pentalpha
pentameral
pentameral
pentameran
pentamerid
pentamerism
pentameroid
pentamerous
pentamery
pentameter
pentameters
pentamethylene
pentamethylenediamine
pentametrist
pentametrize
pentander
pentandrian
pentandrous
pentane
pentanedione
pentanes
pentangle
pentangular
pentanitrate
pentanoic
pentanolide
pentanone
pentapeptide
pentapetalous
pentaphylacaceous
pentaphylalous
pentaploid
pentaploidic
pentaploidy
pentapodic
pentapodies
pentapody
pentapolis
pentapolitan
pentaprism
pentapterous
pentaptote
pentaptych
pentaquin
pentaquine
pentarch
pentarchical
pentarchies
pentarchs
pentarchy
pentasepalous
pentaquilicate
pentaspermous
pentaspheric
pentaspherical
pentastich
pentastichous
pentastichy
pentastom
pentastome
pentastomoid
pentastomous
pentastyyle
pentastyllos
pentasulphide
pentasyllabic
pentasyllabism
pentasyllable
pentateuch
pentateuchal
pentathlonate
pentathlonic
pentathlete
pentathlon
pentathlons
pentathlos
pentatomic
pentatomid
pentatone
pentatonic
pentatriacontane
pentatron
pentavalence
pentavacency
pentavalent
pentazocine
pentecoster
pentecostoglossal
pentecost
pentecostal
pentecostalism
pentecostalist
pentecostals
pentecostarion
pentecoster
pentecostys
pentelic
pentene
penteteric
penthemimer
penthemimeral
penthemimeris
penthiophen
penthiophene
penthouse
penthoused
penthouse-like
penthouses
penthousing
penthrit
penthrice
pentice
penticle
pentimenti
pentimento
pentine
pentiodide
pentit
pentite
pentitol
pentlandite
pentobarbital
pentobarbitone
pentode
pentoic
pentol
pentolite
pentonic
pentosan
pentosane
pentosans
pentose
pentoses
pentosid
pentoside
pentosuria
pentothal
pentoxide
pentremital
pentremite
pentrit
pentrite
pentrough
pentstemon
pentstock
penttail
pentyl
pentylene
pentylenetetrazol
pentyllic
pentylidene
pentyls
pentyne
penuche
penuches
penuchi
penuchis
penuchle
penuchles
penuckle
peppermint
pepperoni
pepperproof
pepperroot
peppers
peppershrike
peppertree
pepperweed
pepperwood
pepperwort
peppery
peppier
peppiest
peppily
peppin
peppiness
pepping
peppy
peps
pepsi
pepsin
pepsinate
pepsinated
pepsinating
pepsine
pepsines
pepsinhydrochloric
pepsiniferous
pepsinogen
pepsinogenic
pepsinogenous
pepsins
pepsi
peptic
peptical
pepticity
peptics
peptid
peptidase
peptide
peptides
peptidic
peptidically
peptidoglycan
peptidolytic
peptids
peptizable
peptization
peptize
peptized
peptizer
peptizers
peptizes
peptizing
peptogaster
peptogen
peptogenic
peptogenous
peptogeny
peptohydrochloric
peptolysis
peptolytic
peptonaemia
peptonate
peptide
peptonelike
peptonemia
peptones
peptonic
peptonisation
peptonise
peptonised
peptoniser
peptonising
peptonization
peptonize
peptonized
peptonizer
peptonizing
peptonoid
peptonuria
peptotoxin
peptotoxine
pequot
per
peracephalus
peracetate
peracetic
peracid
peracidite
peracidity
peracids
peract
peracute
peradventure
peragrate
perchlorination
perchloroethane
perchloroethylene
perchloromethane
perchromate
perchromic
percid
perciform
percipi
percipience
perciypi
perciipient
percivale
perclose
pernosome
percoct
percoi
percoidean
percoids
percolable
percolate
percolated
percolates
percolating
percolation
percolative
percolator
percolators
percomorph
percomorphous
percompound
percontation
percontatorial
percribrate
percribration
percrystallization
percusion
perculsive
percur
percurrature
percurrent
percursory
percuss
percussed
percusses
percussing
percussion
percussional
peregrinated
peregrination
peregrinations
peregrinative
peregrinator
peregrinatory
peregrine
peregrinism
peregrinity
peregrinoid
peregrins
peregrinus
pereia
pereion
perioiopod
pereira
pereirine
perejonet
perempt
peremption
peremptorily
peremptoriness
peremptory
perendinant
perendinate
perendination
perendure
perennate
perennation
perennial
perenniality
perennialize
perennially
perennialness
perennials
perennibranch
perennibranchiate
perennity
perequitate
pererrate
pererration
peres
pereundem
perezone
perf
perfay
perfect
perfecta
perfectability
perfectas
perfectation
perfected
perfectedly
perfecter
perfecters
perfectest
perfecti
perfectibilian
perfectibilism
perfectibilist
perfectibilitarian
perfectibility
perfectible
perfecting
perfection
perfectionate
perfectionation
perfectionator
perfectioner
perfectionism
perfectionist
perfectionist's
perfectionistic
perfectionists
perfectionize
perfectionizement
perfectionizer
perfectionment
perfections
perfectism
perfectist
perfective
perfectively
perfectiveness
perfectivise
perfectivised
perfectivising
perfectivity
perfectivize
perfectly
perfectness
perfecto
perfector
perfectos
perfects
perfectuation
perhydroanthracene
perhydrogenate
perhydrogenation
perhydrogenize
perhydrogenized
perhydrogenizing
perhydrol
peri
periacinal
periacinous
periactus
periadenitis
periamygdalitis
perianal
periangiocholitis
periangioma
periangitis
periand
periannual
periannual
periapical
periappendicitis
periappendicular
periapt
periapts
periareum
periarterial
periarteritis
periarthric
periarthritis
periarticular
periaster
periastra
periastral
periastron
periastrum
periatral
periauger
periauricular
periauricular
periaxial
periaxillary
periaxonal
periblast
periblastic
periblastula
periblem
periblems
periboli
periboloi
peribolos
peribolus
peribranrial
peribronchial
peribronchiolar
peribronchiolitis
peribronchitis
peribulbar
peribursal
pericaecal
pericaecitis
pericanalicular
pericapsular
pericardia
pericardiac
pericardiophrenic
pericardial
pericardian
pericardicentesis
pericardiectomy
pericardiocentesis
pericardiolysis
pericardiomediastinitis
pericardiophrenic
pericardiopleural
pericardiorrhaphy
pericardiosymphysis
pericardiotomy
pericarditic
pericarditis
pericardium
pericardotomy
pericarp
pericarpial
pericarpic
pericarpium
pericarpoidal
pericarps
pericecal
pericecitis
pericellular
pericemental
pericementitis
pericementoclasis
pericementum
pericenter
pericentral
pericentre
pericentric
pericephalic
pericerebral
perichaete
perichaetia
perichaetial
perichaetium
perichaetous
perichdria
perichete
pericholangitis
pericholecystitis
perichondral
perichondria
perichondrial
perichondritis
perichondrium
perichord
perichordal
perichoresis
perichorioidal
perichoroidal
perichitia
perichyalous
pericladium
periclase
periclesia
periclesite
periclaustral
periclean
pericles
periclinal
periclinaly
pericline
perclinium
periclitate
periclitation
pericolistis
pericolpitis
periconchal
periconchitis
pericopae
pericopal
pericone
pericopes
pericopic
pericorneal
pericowperitis
pericoxitis
pericrania
pericranial
pericranitis
pericranium
pericristate
periculant
periculous
periculum
pericycle
pericyclic
pericycloid
pericyclone
pericyclonic
pericythion
pericystic
pericystitis
pericystium
pericytial
peridendritic
peridental
peridentium
peridentoclasia
periderm
peridermal
peridermic
peridermis
periderms
peridesm
peridesmic
peridesmitis
peridesmium
peridia
peridial
peridiastole
peridiastolic
perididymis
perididymitis
peridiiform
peridila
peridiniaceous
peridinial
peridinian
peridinid
peridiola
peridiole
peridiolum
peridium
peridot
peridotie
peridotic
peridotitic
peridots
peridrome
peridromoi
peridromos
periductal
periegesis
periegetic
perielesis
periencephalitis
perienteric
perienteritic
perienteron
periependymal
periergy
periesophageal
periesophagitis
perifistular
perifoliary
perifollicular
perifolliculitis
perigangliitis
periganglionic
perigastric
perigastritis
perigastrula
perigastrular
perigastrulation
perigeal
perigean
perigees
perigemmal
perigenesis
perigenital
perigeum
periglacial
periglandular
perigial
perigloea
periglottic
periglottis
perignathic
perigon
perigonadel
perigonald
perigone
perigiona
perigonial
perigonium
perigonnia
perigons
perigord
perigraph
perigraphic
perigyna
perigynal
perigynies
perigynium
perigynous
perigyny
perihelia
perihelial
perihelian
perihelion
perihelium
periheloin
perihepatic
perihepatitis
perihomenial
perihernial
perihysteric
perijejunitis
perijove
perikarya
perikaryal
perikaryon
perikronion
peril
peril's
perilabyn
perilabynonthitis
perilaryngeal
perilaryngitis
periled
perilenticular
periligamentous
periling
perilla
perillas
perilled
perilless
perilling
perilobar
perilous
perilously
perilousness
perils
perilsome
perilune
perilunes
perilymph
perilymphangial
perilymphangitis
perilymphatic
perimartium
perimastitis
perimedullary
perimeningitis
perimeter
perimeterless
perimeters
perimetral
perimetric
perimetrically
perimetrician
perimetrism
perimetrum
perimetry
perimorph
perimorphic
perimorphism
perimorphous
perimyelitis
perimysia
perimysial
perimysium
perinaeum
perinatal
perinde
perine
perinea
perineal
perineocele
perineocele
perineoplastic
perineoplasty
perineorrhaphy
perineoscrotal
perineostomy
perineosynthesis
perineotomy
perineovaginal
perineovulvar
perinephral
perinephria
perinephrial
perinephric
perinephritic
perinephritis
perinephrium
perineptunium
perineum
perineural
perineuria
perineural
perineurical
perineurical
perineuritis
perineurium
perinium
perinuclear
periocular
period
period's
periodate
periodic
periodical
periodicalism
periodicalist
periodicalize
periodically
periodicalness
periodicals
periodicity
periodid
periodide
periodids
periodization
periodize
periodogram
periodograph
periodology
periodontal
periodontally
periodontia
periodontic
periodontics
periodontist
periodontitis
periodontium
periodontoclasia
periodontologist
periodontology
periodontoses
periodontosis
periodontum
periodoscope
periods
perioeci
perioecians
perioecic
perioecid
perioecus
perioesophageal
perioikoi
periomphalic
perionychia
perionychium
perionyx
perionyxis
perioophoritis
periophthalmic
periophthalmitis
periople
perioplic
perioptic
perioptometry
perioque
perioral
periorbit
periorbita
periorbital
periorchitis
periost
periostea
periosteal
periosteally
periosteitis
periosteoalveolar
periosteoma
periosteomedullitis
periosteomyelitis
periosteophyte
periosteorrhaphy
periosteotome
periosteotomy
periosteous
periosteum
periostitic
periostitis
periostoma
periostosis
periostotomy
periostroca
periostrocal
periostrocum
periiotic
periovular
peripachymeningitis
peripancreatic
peripancreatitis
peripapillary
peripatetian
peripatetic
peripatetical
peripatetically
peripateticate
peripateticism
peripatetics
peripatize
peripatoid
peripatus
peripenial
peripericarditis
peripetalous
peripetasma
peripetetia
peripetia
peripeties
peripety
periphacitis
peripharyngeal
periphasis
peripherad
peripheral
peripherad
peripherally
peripherals
peripherial
peripheric
peripherical
peripherically
peritrochial
peritrochanteric
peritrochium
peritrochoid
peritropical
peritrophic
peritropous
peritura
perityphlic
perityphlitic
perityphlitis
periumbilical
periungual
periuranium
periureteric
periureteritis
periurethral
periurethritis
periuterine
periuvular
perivaginal
perivaginitis
perivascular
perivasculitis
perivenous
perivertebral
perivesical
perivisceral
perivisceritis
perivitellin
perivitelline
periwig
periwigged
periwigpated
periwigs
periwinkle
periwinkled
periwinkler
periwinkles
perizonium
perjink
perjinkety
perjinkities
perjinkly
perjure
perjured
perjuredly
perjuredness
persico
persicot
persienne
persiennes
persiflage
persiflate
persifleur
persilicic
persillade
persimmon
persimmons
persio
persis
persist
persistence
persistance
persisted
persistence
persistency
persistent
persistently
persister
persisters
persisting
persistingly
persistive
persistively
persistiveness
persists
persnicketiness
persnickety
persolve
person
person's
persona
personable
personableness
personably
personae
personage
personage's
personages
personal
personalia
personalis
personalisation
personalism
personalist
personalistic
persuasibility
persuasible
persuasibleness
persuasibly
persuasion
persuasion's
persuasions
persuasive
persuasively
persuasiveness
persuasory
persue
persulfate
persulphate
persulphide
persulphocyanate
persulphocyanic
persulphuric
persymmetric
persymmetrical
pert
pertain
pertained
pertaining
pertainment
perts
pertains
perten
pertenencia
peter
pertest
perthiocyanate
perthiocyanic
perthiotophyre
perthite
perthic
perthicelly
perthophyte
perthosite
pertinaceous
pertinaceous
pertinaciously
pertinaciousness
pertinacity
pertinate
pertinence
pertinencies
pertinency
pertinent
perulate
perule
perusable
perusal
perusals
peruse
perused
peruser
perusers
peruses
perusing
peruvian
peruvians
perv
pervade
pervaded
pervadence
pervader
pervaders
pervades
pervading
pervadingly
pervadingness
pervagate
pervagation
pervalvar
pervasion
pervasive
pervasively
pervasiveness
pervenche
pverse
pversely
pverseness
pversion
pversions
perversite
perversities
perversity
pervasive
pervert
perverted
pervertedly
pervert edness
perverter
pervertibility
pervertible
pervertibly
perverting
pervertive
perverts
pervestigate
perviability
pervable
pervial
pervicacious
pervicacially
pervicaciousness
pervicacity
pervigilium
pervious
perviously
perviousness
pervulgate
pervulgation
perwick
perwitsky
pes
pesa
pesach
pesade
pesades
pesage
pesante
pescod
peseta
pesetas
pesewa
pesewas
peshito
peshkar
peshkash
peshwa
peshwahip
peskier
peskiest
peskily
peskiness
pesky
peso
pesos
pess
pessaries
pessary
pessimal
pessimism
pessimist
pessimistic
pessimistically
pessimists
pessimize
pessimum
pessomancy
pessor
pessular
pessulus
pest
pestalozzian
peste
pester
pestered
pesterer
pesterers
pesting
pesteringly
pesterment
pesterous
pesters
pestersome
pestful
pesthole
pestholes
pesthouse
pesticidal
pesticide
pesticides
pestiduct
pestiferous
pestiferously
pestiferousness
pestifugous
pestify
pestilence
pestilences
pestilenceweed
pestilencewort
pestilent
pestilential
pestientially
pestilentialness
pestentantly
pestis
pestle
pestled
pestles
pestling
pestological
pestologist
pestology
pestproof
pests
pet
petal
petal's
petalage
petaled
petaliferous
petaliform
petaline
petaling
petalism
petalite
petalled
petalless
petallike
petalling
petalocerous
petalodic
petalodies
petalodont
petalodontid
petalodontoid
petalody
petaloid
petaloideal
petaloideous
petalomania
petalon
petalostichous
petalous
petals
petalwise
petaly
petara
petard
petardeer
petardier
petarding
petards
petary
petasma
petasos
petites
petitgrain
petitio
petition
petitionable
petitional
petitionarily
petitionary
petitioned
petitionee
petitioner
petitioners
petitioning
petitionist
petitionproof
petitions
petitor
petitory
petits
petkin
petkins
petling
petnapping
petnappings
peto
petos
petralogy
petrarchal
petrary
petre
petrean
petreity
petrel
petrels
petrescence
petrescency
petrescent
petri
petricolous
petrie
petrifaction
petrifactive
petrifiable
petrific
petrificant
petrificate
petrification
petrified
petrifier
petrifies
petrify
petrifying
petrine
petrissage
petro
petrobrusian
petrochemical
petrochemicals
petrochemistry
petrodollar
petrodollars
petrog
petrogenesis
petrogenetic
petrogenic
petrogeny
petroglyph
petroglyphic
petroglyphy
petrogram
petrograph
petrographer
petrographers
petrographic
petrographical
petrographically
petrography
petrohyoid
petrol
petrolage
petrolatum
petrolean
petroleene
petroleum
petroleous
petroleum
petroleum
petroleur
petroleum
petroleum
petroleuse
petrolic
petroliferous
petrolific
petrolin
petrolist
petrolitic
petrolization
petrolize
petrolized
phacosclerosis
phacoscope
phacotherapy
phaeacian
phaedra
phaeism
phaelite
phaenantherous
phaenanthery
phaenogam
phaenogamian
phaenogamic
phaenogamous
phaenogenesis
phaenogenetic
phaenological
phaenology
phaenomenal
phaenomenism
phaenomenon
phaenozygous
phaeochrous
phaedarian
phaemelanin
phaeophore
phaeophycean
phaeophyceous
phaeophyl
phaeophyll
phaeophytin
phaeoplast
phaespor
phaesporous
phaet
phaethon
phaeton
phaetons
phage
phageda
phagedaena
phagedaenic
phagedaenical
phagedaenous
phagedena
phagedenic
phagedenical
phagedenous
phages
phagocytable
phagocytal
phagocyte
phagocyter
phagocytic
phagocytism
phagocytize
phagocytized
phagocytizing
phagocytoblast
phagocytolysis
phagocytolytic
phagocyte
phagocytosed
phagocytosing
phagocytosis
phagocytotic
phagodynamometer
phagolysis
phagolytic
phagomania
phagophobia
phagosome
phainolion
phalacrocoracine
phalacrocorasia
phalanges
phalangette
phalangettes
phalange
phalangeal
phalangean
phalanger
phalangerine
phalanges
phalangerines
phalangettes
phalangian
phalangic
phalangid
phalangidan
phalangidean
phalangiform
phalangigrade
phalangigrady
phalangiid
phalangist
phalangistine
phalangite
phalangitic
phalangitis
phalangologist
phalangology
phalansterial
phalansterian
phalansterianism
phalansteric
phalansteries
phalansterism
phalansterist
phalanstery
phalanx
phalanxed
phalanxes
phalarica
phalarope
phalaropes
phalera
phalerae
phalerate
phalerated
phaleucian
phallaceous
phallalgia
phallaneurysm
phallephoric
phalli
phallic
phallical
phallically
phallicism
phallicist
phalics
phallin
phallis
phallism
phalisms
phallist
phallists
phallitis
phalocrypsis
phallodynia
phalloid
phalloncus
phalloplasty
phallorrhagia
phallus
phalluses
phanatron
phane
phaneric
phanerite
phanerocephalous
phanerocodonic
phanerocyst
phanerocrystalline
phanerogam
phanerogamia
phanerogamian
phanerogamic
phanerogamous
phanerogamy
phanerogenetic
phanerogenic
phaneroglossal
phaneroglossate
phaneromania
phaneromere
phaneromerous
phanerophyte
phaneroscope
phanerosis
phanerozoic
phanerozonal
phanic
phano
phanos
phanotron
phansigar
phantascope
phantasia
phantasiast
phantasied
phantasies
phantasist
phantasize
phantasm
phantasma
phantasmag
phantasmagoria
phantasmagorial
phantasmagorially
phantasmagorian
phantasmagorianly
phantasmagorias
phantasmagoric
phantasmagorical
phantasmagorically
phantasmagories
phantasmagorist
phantasmagory
phantasmal
phantasmalian
phantasmality
phantasmally
phantasmaoscope
phantasmata
phantasmatic
phantasmatical
phantasmatically
phantasmography
phantasmic
phantasmical
phantasmically
phantasmogenesis
phantasmogenetic
phantasmograph
phantasmological
phantasmology
phantasms
phantast
phantastic
phantastical
phantasts
phantasy
phantasying
phantastic
phantom
phantom's
phantomatic
phantomic
phantomical
phantomically
phantomize
phantomizer
phantomland
phantomlike
phantomnation
phantomry
phantoms
phantomship
phantomy
phantoplex
phantoscope
pharyngealized
pharyngectomies
pharyngectomy
pharyngectomy
pharyngemphraxis
pharynges
pharyngic
pharyngismus
pharyngitic
pharyngitis
pharyngoma
pharyngobranchial
pharyngobranchiate
pharyngocele
pharyngoceratosis
pharyngodynia
pharyngeoepiglottic
pharyngeoepiglottidean
pharyngoesophageal
pharyngoglossal
pharyngoglossus
pharyngognath
pharyngognathous
pharyngographic
pharyngography
pharyngokeratosis
pharyngolaryngeal
pharyngolaryngitis
pharyngolith
pharyngological
pharyngology
pharyngomaxillary
pharyngomycosis
pharyngonasal
pharyngopalatine
pharyngopalatinus
pharyngoparalysis
pharyngopathy
pharyngoplasty
pharyngoplegia
pharyngoplegic
pharyngoplegy
pharyngopleural
pharyngopneustal
pharyngorhinitis
pharyngorhinoscopy
pharyngoscleroma
pharyngoscope
pharyngoscopy
pharyngospasm
pharyngotherapy
pharyngotome
pharyngotomy
pharyngotonsillitis
pharyngotyphoid
pharyncoxerosis
pharyngotome
pharynx
pharynxes
phascaceous
phascolome
phase
phaseal
phased
phaseless
phaselin
phasemeter
phasemy
phaseolin
phasoealous
phasoleumatin
phasometer
phaseout
phaseouts
phaser
phasers
phases
phaseun
phasianic
phasianid
phasianine
phasianoid
phasic
phasing
phasis
phasitron
phasm
phasma
phasismajector
phasmatid
phasmatoid
phasmatrope
phasmid
phasmids
phasmoid
phasmophobia
phasogeneous
phasor
phasotropy
phat
phatic
phatically
pheaal
phearse
peasant
peasant's
peasantry
peasants
peasantwood
phearal
phellandrene
phellem
phellem
phelloderm
phellodermal
phellogen
phellogenetic
phelogenic
phellonic
phelloplastic
phelloplastics
phelum
phelonia
phelonion
phelonionia
phelonions
phemic
phenacaine
phenacetin
phenacetine
phenaceturic
phenacite
phenacyl
phenakism
phenakistoscope
phenakite
phenanthraquinone
phenanthrene
phenanthrenequinone
phenanthridine
phenanthridone
phenanthrol
phenanthroline
phenarsine
phenolia
phenolic
phenolics
phenoliola
phenolion
phenolions
phenolization
phenolize
phenologic
phenological
phenologically
phenologist
phenology
phenoloid
phenolphthalein
phenols
phenolsulphonate
phenolsulphonephthalein
phenolsulphonic
phenom
phenomena
phenomenal
phenomenalism
phenomenalist
phenomenalistic
phenomenalistically
phenomenalists
phenomenality
phenomenalization
phenomenalize
phenomenalized
phenomenalizing
phenomenally
phenomenalness
phenomenic
phenomenical
phenomenism
phenomenist
phenomenistic
phenomenize
phenomenized
phenomenologic
phenomenological
phenomenologically
phenomenologies
phenomenologist
phenomenology
phenomenon
phenylglycine
phenylglycolic
phenylglyoxylic
phenylhydrazine
phenylhydrazone
phenyllic
phenylketonuria
phenylketonic
phenylmethylane
phenylic
phenylthiocarbamide
phenylthiourea
pheochromocytoma
pheon
pheophrin
pheophyll
pheophytin
pheretin
pheromonal
pheromone
pheromones
phew
phi
phial
phialae
phialai
phiale
phialed
phialful
phialide
phialine
phialing
phialled
phiallike
phialling
phialophore
phialospore
phials
phies
phil
philabeg
philabegs
philadelphia
philadelphian
philadelphians
philadelphite
philadelphus
philadelphy
philhellenism
philhellenist
philippic
philhymnic
philia
philiater
philbeg
philbegs
philic
philine
philip
philippians
philippic
philippicize
philippics
philippina
philippine
philippines
philippize
philippizer
philippus
philister
philistia
philistine
philistines
philistinism
phililew
phililoo
phillipeener
philippi
philipsine
philipsite
philis
philumenist
phillyrea
phillyrin
philobiblian
philobiblic
philobiblical
philobiblist
philobotanic
philobotanist
philobritish
philocalic
philocalist
philocaly
philocathartic
philocatholic
philocomal
philocubist
philocynic
philocynical
philocynicism
philocyny
philodemic
philodendra
philodendron
philodendrons
philodespot
philodestructiveness
philodox
philodoxer
philodoxical
philodramatic
philodramatist
philofelist
philofelon
philogarlic
philogastric
philogeant
philogenitive
philogenitiveness
philograph
philographic
philogynaecic
philogynist
philogynous
philogyny
philohellenian
philokleptic
philol
philoleucosis
philologaster
philologastry
philologer
philologian
philologic
philological
philologically
philologist
philologistic
philologists
philologize
philologue
philology
philomath
philosophe
philosophedom
philosopheme
philosopher
philosopher's
philosopheress
philosophers
philosophership
philosophes
philosophess
philosophic
philosophical
philosophically
philosophicalness
philosophicide
philosophicohistorical
philosophicojuristic
philosophicolegal
philosophicopsychological
philosophicoreligious
philosophicotheological
philosophies
philosophilous
philosophisation
philosophise
philosophised
philosophiser
philosophising
philosophism
philosophist
philosophister
philosophistic
philosophistical
philosophization
philosophize
philosophized
philosophizer
philosophizers
philosophizes
philosophizing
philosophling
philosophobia
philosophocracy
philosophuncule
philosophunculist
philosophy
philosophy's
philotadpole
philotechnic
philotechnical
philotechnist
philothaumaturgic
philotheism
philotheist
philotheistic
philotheosophical
philootherian
philootherianism
philoxygenous
philozoic
philozoist
philozoonist
philter
philtered
philterer
philtering
philterproof
philters
phitra
philtre
philtred
philtres
philtring
philtrum
philydraceous
phimosed
phimoses
phimosis
phimotic
phippe
phis
phit
phitones
phiz
phizes
phizog
phlebalgia
phlebangioma
phlebarteriectasia
phlebarteriodialysis
phlebectasia
phlebectasis
phlebectasy
phlebectomy
phlebectopia
phlebectopy
phlebemphraxis
phlebenteric
phlebenterism
phlebitic
phlebitis
phlebogram
phlebograph
phleographic
phleographical
phlebography
phleboid
phleboidal
phlebolite
phlebolith
phlebolithiasis
phlebolithic
phlebolic
phlebological
phlebology
phlebometritis
phlebopexy
phleboplasty
phleborrhage
phleborrhagia
phleborrhaphy
phleborrhesis
phlebosclerotic
phlebostasia
phlebostasis
phlebostenosis
phlebostrepsis
phlebothrombosis
phlebotome
phlebotomic
phlebotomical
phlebotomically
phlebotomies
phlebotomisation
phlebotomise
phlebotomised
phlebotomising
phlebotomist
phlebotomization
phlebotomize
phlebotomus
phlebotomy
phlegethon
phlegm
phlegma
phlegmagogue
phlegmasia
phlegmatic
phlegmatical
phlegmatically
phlegmaticalness
phlegmaticily
phlegmaticiness
phlegmatism
phlegmatist
phlegmatized
phlegmatous
phlegmier
phlegmiest
phlegmiest
phlegmon
phlegmonic
phlegmonoid
phlegmonous
phlegms
phlegmy
phlobaphene
phlobatannin
phloem
phloems
phloeoophagous
phloeooterma
phloeum
phlogisma
phlogistian
phlogistic
phlogistical
phlogisticate
phlogistication
phlogiston
phlogistonism
phlogistonist
phlogogenic
phlogogenic
phlogogenous
phlogopite
phlogosed
phlogosin
phlogosis
phlogotic
phloretic
phloretin
phlorhizin
phloridzin
phlorina
phlorizin
phloroglucic
phloroglucin
phloroglucinol
phlorol
phlorone
phlorrhizin
phlox
phloxes
phloxin
phlyctaena
phlyctaenae
phlyctaenula
phlyctena
phlyctenae
phlyctenoid
phlyctenula
phlyctenule
phlyzacious
phlyzacinum
pho
phobia
phobic
phobias
phobic
phobies
phobism
phobist
phobophobia
phoby
phoca
phocacean
phocaceous
phocaenine
phocal
phocenate
phocenic
phocenin
phocid
phociform
phocine
phocodont
phocodontic
phocoid
phoniatriy
phonic
phonically
phonics
phonier
phonies
phoniest
phonikon
phonily
phoniness
phoning
phonism
phono
phonocamptic
phonocardiogram
phonocardiograph
phonocardiographic
phonocardiography
phonocinematograph
phonodeik
phonodynamograph
phonoglyph
phonogram
phonogramic
phonogramically
phonogrammatic
phonogrammatical
phonogrammic
phonogrammically
phonograph
phonographer
phonographic
phonographical
phonographically
phonographically
phonographist
phonographs
phonography
phonol
phonolite
phonolitic
phonologer
phonologic
phonological
phonologically
phonologist
phonologists
phonology
phonomania
phonometer
phonometric
phonometry
phonomimic
phonomotor
phonon
phonons
phonopathy
phonophile
phonophobia
phonophone
phonophore
phonophoric
phonophobic
phonophorous
phonophote
phonophotography
phonophotoscope
phonophotoscopic
phonoplex
phonopore
phonoreception
phonoreceptor
phonorecord
phonos
phonoscope
phonotactics
phonotelemeter
phonotype
phonotyper
phonotypic
phonotypical
phonotypically
phonotypist
phonotypy
phons
phony
phoo
phooey
phooka
phoranthium
phorate
phorates
phorbin
phoresis
phoresy
phoria
phorid
phorminx
phormium
phorology
phorometer
phorometric
phorometry
phorone
phoronic
phoronid
phronomia
phronomic
phronomically
phronomics
phronomy
phroscope
phorozooid
phorrhea
phos
phose
phosgene
phosgenes
phosgenic
phosgenite
phasis
phosphagen
phospham
phosphamic
phosphamide
phosphamidic
phosphamidon
phosphammonium
phosphatase
phosphate
phosphate's
phosphated
phosphatemia
phosphates
phosphatene
phosphatic
phosphatide
phosphaticidic
phosphatidyl
phosphatidylcholine
phosphation
phosphatisation
phosphatise
phosphatised
phosphatising
phosphatization
phosphotungstate
phosphotungstic
phosphowolframic
phosphuranylite
phosphuret
phosphuria
phosphyl
phoss
phossy
phot
photesthesia
photesthetic
phototal
photalgia
photchy
photograph
photograph
photography
photobathic
photobiographic
photobiologic
photobiological
photobiologist
photobiology
photobiotic
photobromide
photocampsis
photocatalysis
photocatalyst
photocatalytic
photocatalyzer
photocathode
photocell
photocells
photocellulose
photocceptor
photoceramic
photoceramics
photoceramist
photochemic
photochemical
photochemically
photochemigraphy
photochemist
photochemistry
photochloride
photochlorination
photochromascope
photochromatic
photochrome
photochromic
photochromism
photochromography
photochromolithograph
photochromoscope
photochromotype
photochromotypy
photochromy
photochronograph
photochronographic
photochronographical
photochronographically
photocinesis
photoagulation
photocollograph
photocollographic
photocollography
photocollopy
photocombine
photocomposed
photocomposer
photocomposes
photocomposing
photocomposition
photoconduction
photoconductive
photoconductivity
photoconductor
photocopied
photocopier
photocopiers
photocopies
photocopy
photocopying
photocrayon
photocurrent
photodecomposition
photodensitometer
photodermatic
photodermatism
photodetector
photodiode
photodiodes
photodisintegrate
photodisintegration
photodissociate
photodissociation
photodissociative
photodrama
photodramatic
photodramatics
photodramatist
photodramaturgic
photodramaturgy
photodrome
photodromy
photoduplicate
photoduplication
photodynamic
photodynamical
photodynamically
photodynamics
photodyalpsoria
phoed
photoelastic
photoelasticity
photoelectric
photoelectrical
photoelectrically
photoelectricity
photoelectron
photoelectronic
photoelectronics
photoelectrotype
photoemission
photoemissive
photoeng
photoengrave
photoengraved
photoengraver
photoengravers
photoengraves
photoengraving
photoengravings
photoengrastic
photoepinastic
photoepinastically
photoepinasty
photoesthesia
photoesthetic
photoetch
photoetched
photoetcher
photoetching
photofilm
photofinish
photofinisher
photofinishing
photofission
photoflash
photoflight
photoflood
photofloodlamp
photofluorogram
photofluorograph
photofluorographic
photofluorography
photog
photogalvanograph
photogalvanographic
photogalvanography
photogastroscope
photogelatin
photogen
photogene
photogenetic
photogenic
photogenically
photogenous
photogeny
photogeologic
photogeological
photogeology
photoglyph
photoglyphic
photoglyphography
photoglyphy
photoglyptic
photoglyptography
photogram
photogrammeter
photogrammetric
photogrammetrical
photogrammetrist
photogrammetry
photograph
photographable
photographed
photographee
photographer
photographeress
photographers
photographess
photographic
photographical
photographically
photographing
photographist
photographize
photographometer
photographs
photography
photograt
photogravure
photogravurist
photogs
photogyrlic
photohalide
photoheliograph
photoheliographic
photoheliography
photoheliometer
photohyponastic
photohyponastically
photohyponasty
photoimpression
photoinactivation
photoinduced
photoinduction
photoinductive
photoing
photoinhibition
photointaglio
photoionization
photoisomeric
photoisomerization
photoist
photojournalism
photojournalist
photojournalistic
photojournalists
photokinesis
photokinetic
photolith
photolitho
photolithograph
photolithographer
photolithographic
photolithographically
photolithography
photolithoprint
photologic
photological
photologist
photology
photoluminescence
photoluminescent
photoluminescently
photoluminescents
photolysis
photolyte
photolytic
photolytically
photolyzable
photolyze
photom
photoma
photomacrograph
photomacrography
photomagnetic
photomagnetism
photomap
photomappe
photomapped
photomapper
photomappi
photomapping
photomaps
photomechanical
photomechanically
photometeor
photometer
photometers
photometric
photometrical
photometrically
photometrician
photometrist
photometrograph
photometry
photomezzotype
photomicrogram
photomicrograph
photomicrographer
photomicrographic
photomicrographical
photomicrographically
photomicrographs
photomicrography
photomicroscope
photomicroscopic
photomicroscopy
photomontage
photomorphogenesis
photomorphogenic
photomorphosis
photomultiplier
photomural
photomurals
photon
photonastic
photonasty
photonegative
photonephograph
photonephoscope
photoneutron
photonic
photonous
photons
photonuclear
photooxidation
photooxidative
photopathic
photopathy
photoperceptive
photoperimeter
photoperiod
photoperiodic
photoperiodically
photoperiodism
photophane
photophile
photophilic
photophilous
photophilily
photophobe
photophobia
photophobic
photophobic
photophobous
photophone
photophonic
photophony
photophore
photophoresis
photophosphorescent
photophosphorylation
photophygous
photophysical
photophysicist
photopia
photopias
photopic
photopile
photopitometer
photoplay
photoplayer
photoplays
photoplaywright
photography
photopolarigraph
photopolymer
photopolymerization
photopositive
photoprint
photoprinter
photoprinting
photoprocess
photoprotein
photoproduction
photoproton
photoptometer
photoradio
photoradiogram
photoreactivating
photoreactivation
photoreception
photoreceptive
photoreceptor
photoreconnaissance
photorecorder
photorecording
photoreduction
photoregression
photorelief
photos
photosalt
photosantonic
photoscope
photoscopic
photoscopy
photosculptural
photosculpture
photosensitive
photosensitiveness
photosensitivity
photosensitization
photosensitize
photosensitized
photosensitizer
photosensitizes
photosensitizing
photosensory
photoset
photosets
photosetter
photosetting
photospectroheliograph
photospectroscope
photospectroscopic
photospectroscopical
photospectroscopy
photosphere
photospheres
photospheric
photospherically
photostability
photostable
photostat
photostated
photostater
photostatic
photostatically
photostating
photostationary
photostats
photostatted
photostatter
photostatting
photostereograph
photosurveying
photosyntax
photosynthate
photosyntheses
photosynthesis
photosynthesize
photosynthesized
photosynthesizes
photosynthesizing
photosynthetic
photosynthetically
photosynthometer
phototachometer
phototachometric
phototachometrical
phototachometry
phototactic
phototactically
phototactism
phototaxis
phototaxy
phototechnic
phototelegraph
phototelegraphic
phototelegraphically
phototelegraphy
phototelephone
phototelephony
phototelescope
phototelescopic
phototheodolite
phototherapeutic
phototherapeutics
phototherapic
phototherapies
phototherapist
phototherapy
photothermic
phototimer
phototonic
phototonus
phototopographic
phototopographical
photopography
phototransceiver
phototransistor
phototrichromatic
phototrope
phototroph
phototrophic
phototrophy
phototropic
phototropically
phototropism
phototrop
phototube
phototype
phototypesetter
phototypeseters
phototypesetting
phototypic
phototypically
phototypist
phototypographic
phototypography
phototypy
photovisual
photovitrotype
photovoltaic
photoxylography
photozinco
photozinco
photozincograph
photozincographic
photozincography
photozincotype
photozincotypy
photophotonegative
phots
photuria
phousdar
phpht
phr
phpragma
phragmocone
phragmoconic
phragmocyttarous
phragmoid
phragmoplast
phragmosis
phrampel
pharisaical
phrasable
phrasal
phrasally
phrase
phraseable
phrased
phraseless
phrasem
phrasemake
phrasemaker
phrasemaking
phraseman
phrasemonger
phrasemongering
phrasemongery
phraseogram
phraseograph
phraseographic
phraseography
phraseologic
phraseological
phraseologically
phraseologies
phraseologist
phraseology
phraser
phrases
phrasey
phrasify
phrasiness
phrasing
phrasings
phrasy
phrator
phratral
phratria
phatriac
phatrial
phratric
phratries
phratry
phratic
phreatophyte
phreatophytic
phren
phrenesia
phrenesiac
phrenesis
phrenetic
phrenetical
phrenetically
phreneticness
phrenic
phrenectomy
phrenicocolic
phrenicocostal
phrenicogastric
phrenicoglottic
phrenicohepatic
phrenicolienal
phrenicopericardiac
phrenicosplenic
phrenicotomy
phrencis
phrenitic
phrenitis
phrenocardia
phrenocardiac
phrenocolic
phrenocostal
phrenodynia
phrenogastric
phrenoglottic
phrenograde
phrenogram
phrenograph
phrenography
phrenohepatic
phrenol
phrenologer
phrenologic
phrenological
phrenologically
phrenologies
phrenologist
phrenologists
phrenologize
phrenology
phrenomagnetism
phrenomesmerism
phrenopathia
phrenopathic
phrenopathy
phrenopericardiac
phrenoplegia
phrenoplegy
phrenosin
phrenosinic
phrenospasm
phrenosplenic
phrenotropic
phrenoward
phrensied
phrensies
phrensy
phrensying
phronemophobia
phronesis
phrontisterion
phrontisterium
phrontistery
phryganeid
phryganeoid
phrygia
phrygian
phrygium
phrymaceous
phrynid
phrynin
phrynoid
pht
phtalic
phthalacene
phthalan
phthalanilic
phthalate
phthalazin
phthalazine
phthalein
phthaleine
phthaleinometer
phthalic
phthalid
phthalide
phthalimide
phthalin
phthalins
phthalocyanine
phthalyl
phthahlsulfathiazole
phthahite
phthinoid
phthiocol
phthiriasis
phthirophagous
phthises
phthisic
phthisical
phthisicky
phthisics
phthisiogenesis
phthisiogenetic
phthisiogenic
phthisiologist
phthisiology
phthisiophobia
phthisiotherapeutic
phthisiotherapy
phthisipneumonia
phthisipneumony
phthisis
phthongal
phthongometer
phthor
phthoric
phu
phugoid
phulkari
phulwa
phulwara
phut
phycic
phycite
phycitol
phycochrom
phycochromaceae
phycochromaceous
phycochrome
phycochromophyceous
phy cocolloid
phy cocyanin
phy cocyanogen
phy coerythrin
phycography
phycological
phycologist
phycology
phycomycete
phycomycetes
phycomycetous
phycopehaein
phycoxanthin
phycoxanthine
phygogalactic
phyla
phylacobiosis
phylacobiotic
phylacteric
phylacterical
phylacteried
phylacteries
phylacterize
phylactery
phylactic
phylactocarp
phylactocarpal
phylactolaematous
phylae
phylar
phylarch
phylarchic
phylarchical
phylarchy
phylartery
phylaxis
phylaxises
phyle
phylephebic
phyleses
phylesis
phylesises
phyletic
phyletically
phyletism
phyllic
phyllade
phyllamania
phyllamorph
phyllaries
phyllary
phylliform
phyllin
phylline
phyllis
phyllite
phyllites
phyllitic
phyllobranchia
phyllobranchial
phyllobranchiate
phyllocarid
phyllocaridan
phyllocerate
phylloclad
phylloclade
phyllocladia
phyllocladioid
phyllocladium
phylloclados
phyllocyanic
phyllocyamin
phyllocyst
phyllocystic
phyllode
phyllodes
phyllodia
phyllodial
phyllodination
phyllodineous
phyllodiniation
phyllodinous
phyllodium
phyllody
phylloerythrin
phyllogenetic
phyllogenous
phylloid
phylloidal
phylloideous
phylloids
phylloidity
phyllossomania
phyllome
phyllomes
phyllonic
phylloism
phylloismic
phyllosmorphism
phyllosmorphic
phyllosmorphism
phyllophy
phyllophagan
phyllophagous
phyllophore
phyllophorous
phyllophyllin
phyllophyte
phyllopod
phyllopodan
phyllopodal
phyllopodiform
phyllopodium
phyllopodous
phylloporphyrin
phyloptosis
phyllopyrrole
phyloquinone
phyllorhine
phyllorhinine
phyloscopine
phyllosilicate
phyllosiphonic
phyllosoma
phyllosome
phyllospondylous
phyllostomatoid
phyllostomatous
phyllostome
phyllostomine
phyllostomous
phyllothactic
phyllothactical
phylлотaxic
phylлотaxis
phylлотaxy
phyllous
phylloxanthin
phylloxera
phylloxerae
phylloxeran
phylloxeran
phylloxeric
phyllozooid
phylogenesis
phylogenetic
phylogenetical
phylogenetically
phylogenetic
phylogenist
phylogeny
phylogerontic
phylogerontism
phylography
phyllology
phylon
phyloneanic
phylonepionic
phylum
phylumla
phyma
phymas
phymata
phymatic
phymatid
phymatoid
phymatorhysin
phymatosis
phys
physa
physagogue
physalia
physalian
physalite
physcioid
physes
physeter
physeterine
physeteroid
physharmonica
physianthropy
physiatric
physiatrical
physiatrics
physiatrist
physic
physical
physicalism
physicalist
physicalistic
physicalistically
physicalities
physicality
physically
physicalness
physicals
physician
physician's
physicianary
physiciancy
physicianed
physicianer
physicianess
physicianing
physicianless
physicianly
physicians
physicianship
physicism
physicist
physicist's
physicists
physicked
physicker
physicking
physicks
physicky
physicoastronomical
physicobiological
physicochemical
physicochemical
physicochemically
physicochemist
physicochemistry
physicogeographical
physicologic
physicological
physicomathematical
physicomathematics
physicomechanical
physicomedical
physicomental
physicomorph
physicomorphic
physicomorphism
physicooptics
physicophilosophical
physicophilosophy
physicophysiological
physicopsychical
physicosocial
physicotheological
physicotheologist
physicotheology
physicotherapeutic
physicotherapeutics
physiologus
physiology
physiopathologic
physiopathological
physiopathologically
physiopathology
physiophilist
physiophilosopher
physiophilosophical
physiophilosophy
physiopsychic
physiopsychical
physiopsychological
physiopsychology
physiosociological
physiosophic
physiosophy
physiotherapeutic
physiotherapeutical
physiotherapeutics
physiotherapies
physiotherapist
physiotherapists
physiotherapy
physiotype
physiotypy
physique
physiqued
physiques
physis
physitheism
physitheist
physitheistic
physitism
physiurgic
physiurgy
physnomy
physocarpous
physocele
physoclist
physoclistic
physoclistous
physogastric
physogastrism
physogastry
physometra
physonectous
physophora
physophoran
physophore
physophorous
physopod
physopodan
physostigma
physostigmine
physostomatous
physostome
physostomous
phytalbumose
phytane
phytanes
phytase
phytate
phytic
phytiferous
phytiform
phytin
phytins
phytivorous
phytoalexin
phytobacteriology
phytobezoar
phytobiological
phytobiologist
phytobiology
phytochemical
phytochemically
phytochemist
phytochemistry
phytochlorin
phytochrome
phytocidal
phytocide
phytoclimatologic
phytoclimatological
phytoclimatology
phytocoenoses
phytocoenosis
phytodynamics
phytoecological
phytoecologist
phytoecology
phytoflagellate
phytogamy
phytogenesis
phytogenetic
phytogenetical
phytogenetically
phytogenic
phytogenous
phytogeny
phytogeographer
phytogeographic
phytogeographical
phytogeographically
phytogeography
phytoglobulin
phytognomy
phytograph
phytographer
phytographic
phytographical
phytographist
phytography
phytohaemagglutinin
phytohemagglutinin
phytohormone
phytoid
phytokinin
phytol
phytolacca
phytolaccaceous
phytolatrous
phytolatry
phytolite
phytolith
phytolithological
phytolithologist
phytolithology
phytologic
phytological
phytologically
phytologist
phytology
phytoma
phytome
phytomer
phytomera
phytometer
phytometric
phytometry
phytomonad
phytomorphic
phytomorphology
phytomorphosis
phyton
phytonadione
phytonic
phytonomist
phytonomy
phytons
phytooecology
phytopaleontologic
phytopaleontological
phytopaleontologist
phytopaleontology
phytoparasite
phytopathogen
phytopathogenic
phytopathologic
phytopathological
phytopathologist
phytopathology
phytophagan
phytophage
phytophagic
phytophagous
phytophagy
phytopharmacologic
phytopharmacology
phytophenological
phytophenology
phytophil
phytophilous
phytophylogenetic
phytophylogenetic
phytophylogeny
phytophysiological
phytophysiology
phytoplankton
phytoplanktonic
phytoplasm
phytopsyche
phytoptid
phytoptose
phytophtosis
phytorhodin
phytosaur
phytosaurian
phytoserologic
phytoserological
phytoserologically
phytoserology
phytosis
phytosociologic
phytosociological
phytosociologically
phytosociologist
phytosociology
phytosterin
phytosterol
phytostrate
phytosuccivorous
phytosynthesis
phytotaxonomy
phytotechny
phytoteratologic
phytoteratological
phytoteratologist
phytoteratology
phytotomist
phytotomy
phytotopographical
phytotopography
phytotoxic
phytotoxicity
phytotoxin
phytotron
phytovitellin
phytozoan
phytozoon
phytyl
pi
pia
piaba
piacaba
piacevole
piache
piacle
piacula
piacular
piacularity
piacularly
piacularness
piaculum
piaffe
piaffed
piaffer
piaffers
picarooned
picarooning
picaroons
picaros
picary
picas
picasso
picayune
picayunes
picayunish
picayunishly
picayunishness
piccadill
piccadilly
piccage
piccalilli
piccal illis
piccanin
piccaninnies
piccaninny
piccante
piccata
picciotto
piccolo
piccoloist
piccolos
pice
picea
picein
picene
piceoferruginous
piceotestaceous
piceous
piceworth
pich
pichey
pichi
pichiciago
pichiciagos
pichiciego
pichuric
pichurim
piciform
picine
pick
pickaback
pickable
pickableness
pickadil
pickadils
package
pickaninnies
pickaninny
pickaroon
pickaway
pickax
pickaxe
pickaxed
pickaxes
pickaxing
pickback
picked
pickedevant
pickedly
pickedness
pickee
picker
pickeer
pickeered
pickeering
pickeers
pickel
pickelhaube
picker
pickerel
pickerels
pickerelweed
pickering
pickeringite
pickers
pickery
picket
picketboat
picketed
picketeer
picketet
picketers
picketing
pickets
pickfork
pickier
pickiest
pickietar
pickin
picking
pickings
pickle
pickled
picklelike
pickleman
pickler
pickles
pickleweed
pickleworm
pickling
picklock
picklocks
pickman
pickmaw
pickmen
picknick
picknic
picknicker
pickoff
pickoffs
pickout
pickover
pickpenny
pickpocket
pickpocketism
pickpocketry
pickpockets
pickpole
pickproof
pickpurse
picks
pickshaft
picksmen
picksmist
picksome
picksomeless
pickthat
pickthanking
pickthankingly
pickthankingness
pickthatching
picktooth
pickup
pickup's
pickups
pickwick
pickwickian
pickwicks
pickwork
picky
picloram
piclorams
picrates
picric
picrite
picroxite
picrocarmin
picroerythrin
pierol
picrolite
picromerite
picropodophyllin
picrorhiza
picrorhizin
picrotin
picrotoxic
picrotoxin
picrotoxinin
pitory
picy
picryl
pics
pict
pictarnie
pictogram
pictograph
pictographic
pictographically
pictographs
pictography
pictoradiogram
pictorial
pictorialisation
pictorialise
pictorialised
pictorialising
pictorialism
pictorialist
pictorialization
pictorialize
pictorially
pictorialness
pictorials
pictoric
pictorical
pictorically
pictun
picturability
picturable
picturableness
picturably
pigdan
pigdom
pigeon
pigeon's
pigeonable
pigeonberries
pigeonberry
pigeoneer
pigeoner
pigeonfoot
pigeongram
pigeonhearted
pigeonheartedness
pigeonhole
pigeonholed
pigeonholer
pigeonholes
pigeonholing
pigeonite
pigeonman
pigeonneau
pigeonpox
pigeonyry
pigeons
pigeontail
pigeonweed
pigeonwing
pigeonwood
pigface
pigfish
pigfishes
pigflower
pigfoot
pigful
pigg
pigged
piggeries
piggery
piggie
piggier
piggies
piggiest
piggin
pigging
piggins
piggish
piggishly
piggishness
pignoratitious
pignorative
pignus
pignut
pignuts
pigpen
pigpens
pigritia
pigritude
pigroot
pigroots
pigs
pigsconce
pigsconce
pigskin
pigskins
pigsney
pigsneys
pignies
pigstick
pigsticked
pigsticker
pigsticking
pigsticks
pigsties
pigsty
pigswill
pigtail
pigtailed
pigtails
pigwash
pigweabbits
pigweed
pigweeds
pigwidgeon
pigwidgin
pigwigeon
pigyard
piing
piitis
pik
pika
pikake
pikakes
pikas
pike
pikeblennies
pikeblenny
piked
pimpled
pimpleproof
pimples
pimplier
pimpliest
pimpliness
pimpling
pimplo
pimploe
pimplous
pimply
pimps
pimpship
pin
pin's
pina
pinabete
pinaceous
pinaces
pinachrome
pinacle
pinacocytal
pinacocyte
pinacoid
pinacoidal
pinacol
pinacolate
pinacolic
pinacolin
pinacoline
pinacone
pinacoteca
pinacotheca
pinaculum
pinafore
pinafores
pinakiolite
pinakoid
pinakoidal
pinakothek
pinang
pinangs
pinard
pinards
pinas
pinaster
pinasters
pinata
pincushion
pincushions
pincushiony
pind
pinda
pindal
pindari
pindaric
pindarical
pindarically
pindarics
pinder
pinders
pindjajap
pindling
pindy
pine
pineal
pinealectomy
pinealism
pinealoma
pineapple
pineapple's
pineapples
pinebank
pinecone
pinecones
pined
pinedrops
pineland
pinelike
pinene
pinenes
piner
pineries
pinery
pines
pinesap
pinesaps
pineta
pinetum
pineweeds
pinewood
pinewoods
piney
pinfall
pinfeather
pinfeathered
pinfeatherer
pinfeathers
pinfeathery
pinfire
pinfish
pinfishes
pinfold
pinfolded
pinfolding
pinfolds
ping
pinge
pinged
pinger
pingers
pinging
pingle
pingler
pingo
pingos
pinggrass
pingrasses
pings
pingster
pingue
pinguecula
pinguedinous
pinguefaction
pinguefy
pinguescence
pinguescent
pinguicula
pinguiculaceous
pinguid
pinguidity
pinguiferous
pinguin
pinguinitescent
pinguite
pinguitude
pinguitudinous
pinhead
pinheaded
pinheadedness
pinheads
pinhold
pinhole
pinholes
pinnatisect
pinnatisected
pinnatodentate
pinnatopectinate
pinnatulate
pinned
pinnel
pinner
pinners
pinnet
pinniferous
pinniform
pinnigerous
pinnigraide
pinninervate
pinninerved
pinning
pinningly
pinnings
pinniped
pinnipedian
pinnipeds
pinnisect
pinnisected
pinnitarsal
pinnitentaculate
pinniwinkis
pinnock
pinoite
pinnotere
pinnothere
pinnotherian
pinnula
pinnulae
pinnular
pinnulate
pinnulated
pinnule
pinnules
pinnulet
pinny
pinnywinkle
pinnywinkles
pino
pinocchio
pinochle
pinochles
pinocle
pinocles
pinocytosis
pinocytic
pinocytotically
pinole
pinoles
pinoleum
pinolia
pinolin
pinon
pinones
pinonic
pinons
pinot
pinoutpinpatch
pinpillow
pinpoint
pinpointed
pinpointing
pinpoints
pinprick
pinpricked
pinpricking
pinpricks
pinproof
pinrail
pinrowed
pins
pinscher
pinschers
pinsetter
pinsetters
pinson
pinsons
pinspotter
pinspotters
pinstripe
pinstriped
pinstripes
pint
pint's
pinta
pintada
pintadas
pintadera
pintado
pintadoes
pintadoite
pioneers
pioneership
pionery
pionic
pionnotes
pions
pioscope
piosities
piosity
pioted
piotine
pitty
pioupiou
pioury
pious
piously
piousness
pip
pipa
pipage
pipages
pipal
pipals
pipe
pipeage
pipeages
pipeclay
pipecolin
pipecoline
pipecolinic
piped
pipedream
pipefish
pipefishes
pipefitter
pipefitting
pipeful
pipefuls
pipelayer
pipelaying
pipeless
pipelike
pipeline
pipelined
pipelines
pipelining
pipeman
pipemouth
piper
piperaceous
piperate
piperazin
piperazine
piperic
piperide
piperideine
piperidge
piperidid
piperidide
piperidin
piperidine
piperine
piperines
piperitious
piperitone
piperly
piperno
piperocaine
piperoid
piperonal
piperonyl
piper
piper
piperylene
pipes
pipestapple
pipestem
pipestems
pipestone
pipet
pipets
pipette
pipetted
pipettes
pipetting
pipewalker
pipewood
pipework
pipewort
pipey
pipi
pipid
pipier
pipest
pipikaula
piping
pipingly
pipingness
pipings
pipiri
pipistrel
pipistrelle
pipit
pipits
pipkin
pipkinet
pipkins
pipless
pipped
pippen
pipper
pipperidge
pippier
pippiest
pippin
pippiner
pippiface
pipping
pippings
pipple
pippy
piprine
piproid
pips
pipsissewa
pipsqueak
pipsqueaks
piptonychia
pipunculid
pipy
piqu
piquable
piquance
piquancies
piquancy
piquant
piquantly
piquantness
pique
piqued
piquero
piques
piquet
piquets
pirog
pirogen
piroghi
pirogi
pirogue
pirogues
pirojki
pirol
piroot
piroplasm
piroplasma
piroplasmata
piroplasmic
piroplasmosis
piroplasms
piroque
piroques
piroshki
pirot
pirouette
pirouetted
pirouetter
pirouettes
pirouetting
pirouettist
pirozhki
pirozhok
pirquetted
pirquetter
pirr
pirraura
pirrauru
pirrie
pirrmaw
pirssonite
pis
pisa
pisaca
pisacha
pisachee
pisachi
pisang
pisanite
pisay
piscaries
piscary
piscation
piscatology
piscator
piscatorial
piscatorialist
piscatorialily
piscatorian
piscatorialious
piscators
piscatory
pisces
piscian
piscicapture
pisciculturist
piscicide
piscicolous
piscicultural
pisciculturally
pisciculture
pisciculturist
piscifuna
pisciferous
pisciform
piscina
piscinae
piscinal
piscinas
piscine
piscinity
piscioid
piscivorious
pisco
pise
pisgah
pish
pishaug
pished
pishes
pishing
pishogue
pishpash
pishposh
pishu
pisiform
pisiforms
pisistance
pisk
piskun
pisky
pismire
pismires
pismirism
piso
pisolite
pisolites
pisolitic
pisote
piss
pissabed
pissant
pissants
pissasphalt
pissed
pisses
pissing
pissodes
pissoir
pissoirs
pist
pistache
pistaches
pistachio
pistachios
pistacia
pistacite
pistareen
piste
pisteology
pistic
pistick
pistol
pistol's
pistillaceous
pistillar
pistillary
pistillate
pistillid
pistillidium
pistilliferous
pistilliform
pistilligerous
pistilline
pistillode
pistillody
pistilloid
pistilogy
pistils
pistiology
pistle
pistler
pistol
pistol's
pistolade
pistole
pistoled
pistoleer
pistoles
pistolet
pistoleter
pistoletier
pistolgram
pistolgraph
pistolier
pistoling
pistolled
pistollike
pistolling
pistolography
pistology
pistolproof
pistols
pistolwise
piston
piston's
pistonhead
pistonlike
pistons
pistrices
pistrix
pit
pit's
pita
pitahaya
pitanga
pitangua
pitapat
pitapatation
pitapats
pitapatted
pitapatting
pitarah
pitas
pitastile
pita
pitaya
pitayita
pitbird
pitch
pitchable
pitchblende
pitched
pitcher
pitchered
pitcherful
pitcherfuls
pitcherlike
pitcherman
pitchers
pitchery
pitches
pitchfield
pitchfork
pitchforks
pitchhole
pitchi
pitchier
pitchiest
pitchily
pitchiness
pitching
pitchlike
pitchman
pitchmen
pitchometer
pitchout
pitchouts
pitchpike
pitchpole
pitchpoll
pitchpot
pitchstone
pitchwork
pitchy
piteira
piteous
piteously
piteousness
pitfall
pitfall's
pitfalls
pifold
pith
pithanolgy
pithed
pithhead
pitifullest
pitifully
pitifulness
pitiks
pitiless
pitilessly
pitilessness
pittirri
pitless
pitlike
pitmaker
pitmaking
pitman
pitmans
pitmark
pitmen
pitmenpitmirk
pitmirk
pitocin
pitometer
pitomie
piton
pitons
pitpan
pipit
pilprop
pitressin
pitriss
pits
pitsaw
pitsaws
pitside
pitta
pittacal
pitance
pittancer
pittances
pittard
pitted
pitter
pitticite
pittance
pittance
pittard
pitted
pitter
pitticite
pittance
pitting
pittings
pitite
pittoid
pittosporaceous
pittospore
pituicyte
pituita
pituital
pituitaries
pituitary
pituite
pituitous
pituitousness
pituitrin
pituri
pitwood
pitwork
pitwright
pity
pitying
pityingly
pityocampa
pityocampe
pityproof
pityriasic
pityriasis
pityroid
piu
piupiu
piuri
piuricapsular
pius
piute
pivalic
pivot
pivotable
pivotal
pivotally
pivoted
pivoter
pivoting
pivotman
pivots
piwut
pix
pixel
pixels
pixes
pixie
pixieish
pixies
pixilated
pixilation
placatively
placatory
placcate
place
placeable
placebo
placeboes
placebos
placed
placeful
placeholder
placekick
placekicker
placeless
placelessly
placemaker
placemaking
placeman
placemanship
placemen
placement
placement's
placements
placemonger
placemongering
placent
placenta
placentae
placental
placentalia
placentalian
placentary
placentas
placentate
placentation
placentiferous
placentiform
placentigerous
placentitis
placentography
placentoid
placentoma
placentomata
placer
placers
places
placet
placets
planarioid
planarity
planaru
planate
planation
planceer
plancer
planch
planche
plancheite
plancher
planches
planchet
planchets
planchette
planching
planchment
plancier
planctus
plandok
plane
plane's
planed
planeload
planeness
planer
planers
planes
planeshear
planet
planet's
planeta
planetable
planetabler
planetal
planetaria
planetarian
planetaries
planetarily
planetarium
planetariums
planetary
planeted
planetesimal
planetesimals
planetfall
planetic
planetico
planeting
planetist
planetkin
planetless
planetlike
planetogeny
planetography
planetoid
planetoidal
planetoids
planetologic
planetological
planetologist
planetologists
planetology
planets
planetaria
planetule
planform
planforms
planful
planfully
planfulness
plang
plangency
plangent
plangently
plangents
plangi
plangor
plangorous
planicaudate
planicpital
planidorsate
planifolious
planiform
planigram
planigraph
planigraphy
planilla
planimeter
planimetric
planimetical
planimetry
planimeter
planing
planipennate
planipennine
planipetalous
planiphyllous
planirostal
planirostral
planirostrate
planiscope
planiscopic
planish
planished
planisher
planishes
planishing
planispheric
planispherical
planispiral
planity
plank
plankage
plankbuilt
planked
planker
planking
plankings
plankless
planklike
planks
planksheer
plankter
plankters
planktologist
planktology
plankton
planktonic
planktons
planktont
plankways
plankwise
planky
planless
planlessly
planlessness
planned
planner
planner's
planners
planning
plannings
planoblast
planoblastic
planooconcave
planooconical
planooconvex
planocylindric
planoferrite
planogamete
planograph
planographic
planographically
planographist
planography
planohorizontal
planolindrical
planometer
planometry
planomiller
planont
planoorbicular
planorbiform
planorbine
planorbis
planorbitoid
planorotund
planosol
planosols
planosome
planospiral
planospore
planosubulate
plans
planoshear
plant
planta
plantable
plantad
plantage
plantagenet
plantaginaceous
plantaginous
plantain
plantains
plantal
plantano
plantar
plantaris
plantarium
plantation
plantation's
plantationlike
plantations
plantator
plantdom
planted
planter
planterdom
planterly
planters
plantership
plantigrade
plantigrady
planting
plantings
plantivorous
plantless
plantlet
plantlike
plantling
plantocracy
plants
plantsman
plantula
plantulae
plantular
plantule
planula
planulae
planulan
planular
planulate
planuliform
planuloid
planum
planuria
planury
planxty
plap
plappert
plaque
plaques
plaquette
plash
plashed
plasher
plashers
plashes
plashet
plashier
plashiest
plashing
plashingly
plashment
plasy
plasm
plasma
plasmacyte
plasmacytoma
plasmagel
plasmagene
plasmagenic
plasmalemma
plasmalogen
plasmaphaeresis
plasmaphereses
plasmapheresis
plasmaphoresisis
plasmas
plasmase
plasmasol
plasmatic
plasmatical
plasmation
plasmatoparous
plasmatorrhaxis
plasmic
plasmid
plasmids
plasmin
plasminogen
plasmins
plasmochn
plasmocyte
plasmocytoma
plasmode
plasmodesm
plasmodesma
plasmodesmal
plasmodesmata
plasmodesmic
plasmodesmus
plasmodia
plasmodial
plasmodiate
plasmotic
plasmodiocarp
plasmodiocarpous
plasmolium
plasmogamy
plasmogen
plasmogeny
plasmoid
plasmoids
plasmology
plasmolyse
plasmoly sis
plasmolytic
plasmolytically
plasmolyzability
plasmolyzable
plasmolyze
plasmoma
plasmomata
plasmon
plasmons
plasmophagous
plasmophagy
plasmoptysis
plasmoquin
plasmoquine
plasmosoma
plasmosomata
plasmosome
plasmotomy
plasms
plasome
plass
plasson
plastein
plaster
plasterbill
plasterboard
plastered
plasterer
plasterers
plasteriness
plastering
plasterlike
plasters
plasterwise
plasterwork
plastery
plastic
plastically
plasticimeter
plasticine
plasticisation
plasticise
plasticised
plasticising
plasticism
plasticity
plasticization
plasticize
plasticized
plasticizer
plasticizes
plasticizing
plasticly
plastics
plastid
plastidial
plastidium
plastidome
plastids
plastidular
plastidule
plastify
plastin
plastinoid
plastique
plastiqueur
plastiqueurs
plastisol
plastochoondria
plastochron
plastochrome
plastodynamia
plastodynamic
plastogamic
plastogamy
plastogene
plastomer
plastomere
plastometer
plastometric
plastometry
plastosome
plastotype
platinise
platinised
platinising
platinite
platinization
platinize
platinized
platinizing
platinochloric
platinochloride
platinocyanic
platinocyanide
platinode
platinoid
platinotron
platinotype
platinous
platinum
platinums
platinumsmith
platitude
plaititudes
plaititudinal
plaititudinarian
plaititudinarianism
plaititudinisation
plaititudinise
plaititudinised
plaititudiniser
plaititudinising
plaititudinism
plaititudinist
plaititudinization
plaititudinize
plaititudinized
plaititudinizer
plaititudinizing
plaititudinous
plaititudinously
plaititudinousness
platly
plato
platode
platoid
platonesque
platonics
platonically
platonism
platonist
platonize
platoon
platooned
platooning
platoons
platonic
platosamine
platosammime
plats
plattdeutsch
platted
platteland
platten
platter
platter's
platterface
platterful
platters
platting
plattnerite
platty
platitude
platy
platybasic
platybrachycephalic
platybrachycephalous
platybregmatic
platycearpous
platyceelian
platyceulous
platycephalic
platycephalism
platycephaloid
platycephalous
platycephaly
platycecrecine
platycheiria
platychnemia
platychnemic
platycoelian
platycoelous
platycoenia
platycranial
platycranial
platyceyrtean
platydactyl
platydactyle
platydactylous
platydolichocephalic
platydolichocephalous
platyfish
platyglossal
platyglossate
platyglossia
platyhelminth
platyhelminthic
platyheric
platykurtic
platykurtosis
platylobate
platymeria
platymeric
platymery
platymesatocephalic
platymesoecephalic
platymeter
platymyoid
platynite
platynotal
platyodont
platyope
platypia
platypic
platypellic
platypetalous
platyphyllous
platypi
platypod
platypodia
platypodous
platypus
platypuses
platypygous
platyrhynchous
platyrhin
platyrrhine
platyrrhinian
platyrrhinic
platyrrhinism
platyrrhiny
platys
platysma
platysmamyoides
platysmas
platysmata
platysomid
platystaphyline
platystencephalia
platystencephalic
platystencephalism
platystencephaly
platysternal
platystomous
platytrope
platytropy
plaud
plaudation
plaudit
plaudite
plauditor
plauditory
plaudits
plauenite
plausibility
plausible
plausibleness
plausibly
plausible
plausive
plaustral
plautine
play
playa
playability
playable
playact
playacted
playacting
playactor
playacts
playas
playback
playbacks
playbill
playbills
playbook
playbooks
playbox
playboy
playboyism
playboys
playbroker
playclothes
playcraft
plead
pleadable
pleadableness
pleaded
pleader
pleaders
pleading
pleadingly
pleadingness
pleadings
pleads
pleaproof
pleas
pleasable
pleasableness
pleasance
pleasant
pleasantable
pleasanter
pleasantest
pleasantish
pleasantly
pleasantness
pleasantries
pleasantry
pleasantsome
pleasaunce
please
pleased
pleasedly
pleasedness
pleaseman
pleasemen
pleaser
pleasers
pleases
pleaship
pleasing
pleasingly
pleasingness
pleasurability
pleasurable
pleasurableness
pleasurably
pleasure
pleased
pleasureful
pleasurefulness
plebiscitarism
plebiscitary
plebiscite
plebiscite's
plebiscites
plebiscitico
plebiscitic
plebiscitum
plebs
pleck
plecopteran
plecopterid
plecopterous
plecotine
plecognath
plecognathic
plecognathous
plecopter
plecopteran
plecopterous
plecospodyl
plecospodylous
plectra
plectre
plectrildial
plectrildium
plectron
plectrons
plectrontra
plectrum
plectrums
plectrumtra
pled
pledable
pledge
pledgeable
pledged
pledgee
pledgees
pledgeholder
pledgeless
pledgeor
pledgeors
pledger
pledgers
pledges
pledgeshop
pledget
pledgets
pledging
pledgor
pledgors
plegaphonia
plegometer
pleiad
pleiades
pleiads
pleinairism
pleinairist
pleiobar
pleiocene
pleiochromia
pleiochromic
pleiomastia
pleiomazia
pleiomerous
pleiomery
pleion
pleionian
pleiophyllous
pleiophylly
pleiotaxis
pleiotaxy
pleiotropic
pleiotropically
pleiotropism
pleiotropy
pleis
pleistocene
pleistoseist
plemochoe
plemyrameter
plena
plenarily
plenariness
plenarium
plenarty
plenary
plenicorn
pleniloquence
plenilunal
plenilunar
plenilunary
plenilune
plenipo
plenipotence
plenipotency
pleomorph
pleomorphic
pleomorphism
pleomorphist
pleomorphous
pleomorphy
pleon
pleonal
pleonasm
pleonasms
pleonast
pleonaste
pleonastic
pleonastical
pleonastically
pleonectic
pleonexia
pleonic
pleophagous
pleophyletic
pleopod
pleopodite
pleopods
plerergate
plerocercoid
pleroma
pleromatic
plerome
pleromorph
plerorphic
plerophory
plerosis
plerotic
plesance
plesiobiosis
plesiobiotic
plesiomorphic
plesiomorphism
plesiomorphic
plesiosaur
plesiosaurian
plesiosaurid
plesiosaurus
plesiotype
plessigraph
plessimeter
plessimetric
plessimetry
pessor
pessors
plethodontid
plethora
plethoras
plethoretic
plethoretical
plethoric
plethorical
plethorically
plethorous
plethory
plethon
plethrum
plethysmogram
plethysmograph
plethysmographic
plethysmographically
plethysmography
pleura
pleuracanthoid
pleurae
pleural
pleuralgia
pleuralgic
pleurapophysial
pleurapophysis
pleuras
pleurectomy
pleurenhyma
pleurenhymatous
pleuric
pleurisepate
pleurisies
pleurisy
pleurite
pleuritic
pleuritical
pleuritically
pleuritis
pleurobranch
pleurobranchia
pleurobranchial
pleurobranchiate
pleurobronchitis
pleurocapsaceous
pleurocarp
pleurocarpous
pleurocele
pleurocentesis
pleurocentral
pleurocentrum
pleurocerebral
pleuroceroid
pleurococcaceae
pleurodiran
pleurodine
pleurodirous
pleurodiscous
pleurodont
pleurodynia
pleurodynic
pleurogenic
pleurogenous
pleurohepatitis
pleuroid
pleurolith
pleurolysis
pleuron
pleuronect
pleuronectid
pleuronectoid
pleuropedal
pleuropericardial
pleuropericarditis
pleuroperitoneal
pleuroperitoneum
pleuropneumonia
pleuropneumonic
pleuropodium
pleuropterygian
pleuropulmonary
pleurorrhea
pleurospasm
pleurosteal
pleurostict
pleurothotonic
pleurothotonos
pleurothotonus
pleurotomarioid
pleurotomid
pleurotomies
pleurotomite
pleurotomoid
pleurotomy
plicated
plicately
plicateness
plicater
plicatile
plicating
plication
plicative
plicatocontorted
plicatocrystate
plicatolacunose
plicatolobate
plicatopapillose
plicator
plicatoundulate
plicatulate
plicature
plicidentine
pliciferous
pliciform
plie
plied
plier
pliers
plies
plight
plighted
plighter
plighters
plighting
plights
plim
plimmed
plimming
plimsol
plimssole
plimssoles
plimsoll
plimsolls
plimsols
plink
plinked
plinker
plinkers
plinking
plinks
plinth
plinther
plinthiform
plinthless
plinthlike
plinths
pliocene
pliofilm
pliosaur
pliosaurian
pliosaurus
pliothermic
pliotron
pliskie
pliskies
plisky
pliss
plisse
plisses
plitch
ploat
ploce
ploceiform
plock
plod
plodded
plodder
plodderly
plodders
plodding
ploddingly
ploddingness
plodge
plods
ploesti
ploidies
ploidy
ploimate
plomb
plonk
plonked
plonking
plonko
plonks
plook
plop
plopped
plopping
plops
ploration
ploughline
ploughman
ploughmanship
ploughmell
ploughmen
ploughpoint
ploughs
ploughshare
ploughshoe
ploughstaff
ploughstilt
ploughtail
ploughwise
ploughwright
plouk
plouked
plouky
plounce
plousiocracy
plout
plouter
plover
ploverlike
plovers
plovery
plow
plowable
plowback
plowbacks
plowbote
plowboy
plowboys
plowed
plower
plowers
plowfish
plowfoot
plowgang
plowgate
plowgraith
plowhead
plowheads
plowing
plowjogger
plowland
plowlands
plowlight
plowlined
plugboard
plugdrawer
pluggable
plugged
plugger
pluggers
plugging
pluggingly
pluggy
plughole
pluglees
plugless
pluglike
plugman
plugmen
plugs
plugtray
plugtree
pluguglies
plugugly
plum
plum's
pluma
plumaceous
plumach
plumade
plumage
plumaged
plumagery
plumages
plumasite
plumassier
plumat
plumatellid
plumatelloid
plumb
plumb's
plumbable
plumbage
plumbagin
plumbaginaceous
plumbagine
plumbaginous
plumbago
plumbagos
plumbate
plumbean
plumbed
plumbeous
plumber
plumberies
plumbers
plumbership
plumbery
plumbet
plumbic
plumbicon
plumbiferous
plumbing
plumbings
plumbism
plumbisms
plumbisolvant
plumbite
plumbless
plumblessness
plumbness
plumbog
plumbojarosite
plumboniobate
plumbosolvency
plumbosolvant
plumbous
plums
plumbum
plumbums
plumcot
plumdamas
plumdamis
plume
plumed
plumeless
plumelet
plumelets
plumelike
pluMemaker
pluMemaking
plumeopicean
plumeous
plumer
plumery
plumes
plumet
plumete
plumetis
plumette
plumicorn
plumier
plumieride
plumiest
plumification
plumiform
plumiformly
plumify
plumigerous
pluminess
pluming
plumiped
plumipede
plumipeds
plumist
plumless
plumlet
plumlike
plummer
plummet
plummeted
plummeting
plummeter
plummierless
plummets
plummier
plummiest
plumming
plummy
plumose
plumosely
plumoseness
plumosite
plumosity
plumous
plump
plumped
plumpen
plumpened
plumpening
plumpens
plumper
plumpers
plumpest
plumping
plumpish
plumpy
plumpness
plumps
plumpy
plumrock
plums
plumula
plumulaceous
plumular
plumularia
plumularian
plumulate
plumule
plumules
plumuliform
plumulose
plumy
plunder
plunderable
plunderage
plunderbund
plundered
plunderer
plunderers
plunderess
plundering
plunderingly
plunderless
plunderous
plunderproof
plunders
plunge
plunged
plungeon
plunger
plungers
plunges
plunging
plungingly
plungingness
plungy
plunk
plunked
plunker
plunkers
plunking
plunks
plunther
plup
plupatriotic
pluperfect
pluperfectly
pluperfectness
pluperfects
plupf
plur
plural
pluralisation
pluralise
pluralised
pluraliser
pluralising
pluralism
pluralist
pluralistic
pluralistically
pluralities
plurality
pluralization
pluralize
pluralized
pluralizer
pluralizes
pluralizing
plurally
pluralness
plurals
plurative
plurel
plurennial
pluriaxial
pluribus
pluricarinate
pluricarpellary
pluricellular
pluricentral
pluricipital
pluricuspid
pluricuspidate
pluridentate
pluries
plurifacial
plurifetation
plurification
pluriflagellate
pluriflorous
plurifoliate
plurifoliolate
plurify
pluriglandular
pluriguttulate
plurilateral
plurilingual
plurilingualism
plurilingualist
pluriliteral
plurilocular
plurimammate
plurinominal
plurinucleate
pluripara
pluriparity
pluriparous
pluripartite
pluripetalous
pluripotence
pluripotent
pluripresence
plurisepptate
pluriserial
pluriseriate
pluriseriated
plurisetose
plurispiral
plurisporous
plurisy
plurisyllabic
plurisyllable
plurivalent
plurivalve
plurivorous
plurivory
plus
pluses
plush
plushed
plusher
plushes
plushes
plushet
plushette
plusher
plushier
plushiest
plushily
plushiness
plushlike
plushly
plushness
plushy
plusquam
plusquamperfect
plussage
plussages
plusses
plutarch
plutarchy
pluteal
plutean
plutei
pluteiform
pluteus
pluteuses
pluteutei
pluto
plutocracies
plutocracy
plutocrat
plutocratic
plutocratical
plutocratically
plutocrats
plutolatry
plutological
plutologist
plutology
plutomania
pluton
plutonian
plutonic
plutonism
plutonist
plutonite
plutonium
plutonometamorphism
plutonomic
plutonomist
plutonomy
plutors
plutter
plutus
pluvial
pluvialiform
pluvialine
pluvially
pluvials
pluvian
pluvine
pluviograph
pluviographic
pluviographical
pluviography
pluviometer
pluviometric
pluviometrical
pluviometrically
pluviometry
pluvioscope
pluvioscopic
pluviose
pluviosity
pluvious
ply
plyboard
plyer
plyers
plygain
plying
plyingly
plymouth
plymouths
plyscore
plywood
plywoods
pm
pmk
pmsg
pmt
pnce
pneodynamics
pneograph
pneomanometer
pneometer
pneometry
pneophage
pneoscope
pneudaenotic
pneum
pneuma
pneumarthrosis
pneumas
pneumathaemia
pneumatic
pneumatical
pneumatically
pneumaticity
pneumaticness
pneumatics
pneumatism
pneumatist
pneumatize
pneumatized
pneumatocardiography
pneumatoce
pneumatocele
pneumatochemical
pneumatochemistry
pneumatocyst
pneumatocystic
pneumatode
pneumatogenic
pneumatogenous
pneumatogram
pneumatograph
pneumatographer
pneumatographic
pneumatochemistry
pneumatolitic
pneumatologic
pneumatological
pneumatologist
pneumatology
pneumatolysis
pneumatolytic
pneumatomachian
pneumatometer
pneumatometry
pneumatomorphics
pneumatonomy
pneumatophanic
pneumatophany
pneumatophiles
pneumatophobia
pneumatophonic
pneumatophony
pneumatophore
pneumatophoric
pneumatophorous
pneumatorrhachis
pneumatoscope
pneumatotic
pneumatosis
pneumatostatics
pneumatotactic
pneumatotherapeutics
pneumatotherapy
pneumaturia
pneume
pneumectomies
pneumectomy
pneumobacillus
pneumocele
pneumocentesis
pneumochirurgia
pneumococcal
pneumococcemia
pneumococci
pneumococcic
pneumococcocci
pneumococcosis
pneumococcosus
pneumococcus
pneumoconiosis
pneumoderma
pneumodynamic
pneumodynamics
pneumoencephalitis
pneumoencephalogram
pneumoenteritis
pneumogastric
pneumogram
pneumograph
pneumographic
pneuography
pneumohemothorax
pneumohydropericardium
pneumohydrothorax
pneumolith
pneumolithiasis
pneumological
pneumology
pneumolysis
pneumomalacia
pneumomassage
pneumomycosis
pneumonalgia
pneumonectasia
pneumonectomies
pneumonectomy
pneumonedema
pneumonia
pneumonic
pneumonic
pneumonitis
pneumonocace
pneumonocarcinoma
pneumocele
pneumonocentesis
pneumonocirrhosis
pneumonoconiosis
pneumodynia
pneumonoenteritis
pneumonoerysipelas
pneumonographic
pneumonography
pneumonokoniosis
pneumolith
pneumonolithiasis
pneumonolysis
pneumonomelanosis
pneumonometer
pneumonomycosis
pneumonoparessis
pneumonopathy
pneumonopexy
pneumonoporous
pneumonophthisis
pneumonopleuritis
pneumonorrhagia
pneumonorrhaphy
pneumonosis
pneumonotherapy
pneumonotomy
pneumony
pneumopericardium
pneumoperitoneum
pneumoperitonitis
pneumopexy
pneumopleuritis
pneumopyothorax
pneumorrachis
pneumorrhachis
pneumorrhagia
pneumotactic
pneumotherapeutics
pneumotherapy
pneumothorax
pneumotomy
pneumotoxin
pneumotropic
pneumotropism
pneumotyphoid
pneumotyphus
pneumoventriculography
pnigerophobia
pnigophobia
pnix
pnyx
po
poa
poaceous
poach
poachable
poachard
poachards
poached
poacher
poachers
poaches
poaching
poachier
poachiest
poachiness
poaching
poachy
poalike
pob
pobbies
pobby
pobedy
poblacion
pobs
pocan
pochade
pochades
pochaise
pochard
pochards
pochay
poche
pochette
pochettino
pochismo
pochoir
pochote
pocill
pocilliform
pock
pocked
pocul
poculary
poculation
poculent
poculiform
pocus
pod
pod's
podagra
podagral
podagras
podagric
podagrical
podagrous
podagry
podal
podalgia
podalic
podanger
podargine
podargue
podarthral
podarthritis
podarthrum
podatus
podaxonia
podded
podder
poddia
poddidge
poddies
poddige
poddling
poddish
paddle
poddock
paddy
podelcoma
podeon
podesta
podestas
podesterate
podetia
podetiiform
podetium
podex
podge
podger
podgier
podgiest
podgily
podginess
podgy
podia
podial
podiatric
podiatric
podiatrist
podiatrists
podiatry
podical
podices
podilegous
podite
podites
poditic
poditti
podium
podiums
podler
podley
podlike
podobranch
podobranchia
podobranchial
podobranchiate
podocarp
podocarpous
podocephalous
pododerm
pododynia
podogyn
podogyne
podogynium
podolite
podology
podomancy
podomere
podomeres
podometer
podometry
podophthalmate
podophthalmatous
podophthalmian
podophthalmic
podophthalmite
podophthalmic
podophthalmous
podophyllic
podophyllin
podophyllotoxin
podophyllous
podophyllum
podos
podoscaph
podoscapher
podoscopy
podosomatous
podosperm
podostemaceous
podostemad
podostemonaceous
podostomatous
podotheca
podothechal
pods
podsol
podsolic
podsolization
podsolize
podsolized
podsolizing
podsols
poldtia
podunk
podura
poduran
podurid
podware
podzol
podzolic
podzolization
podzolize
podzolized
podzolizing
podzols
poe
poebird
poechoe
poechores
poechoric
poecile
poecilite
poecilitic
policyholders
policymaker
policymaking
poliencephalitis
poliencephalomyelitis
polies
poligar
poligarship
poligraphical
polilla
polimetrum
poling
polio
polioencephalitis
polioencephalomyelitis
poliomyelitic
poliomyelitis
poliomyelopathy
polioneuromere
polionotus
poliorcetic
poliorcetics
polios
poliosis
poliovirus
polis
polish
polishable
polished
polishedly
polishedness
polisher
polishers
polishes
polishing
polishings
polishment
polisman
polissoir
polista
polit
politarch
politarchic
politburo
polite
politeful
politei
politeia
pollers
pollet
polleten
pollette
pollex
pollical
pollicar
pollicate
pollices
pollification
pollinar
pollinarium
pollinate
pollinated
pollinates
pollinating
pollination
pollinator
pollinators
pollinctor
pollincture
polling
pollinia
pollinic
pollinical
polliniferous
pollinigerous
pollinium
pollinivorous
pollinization
pollinize
pollinized
pollinizer
pollinizing
pollinodial
pollinodium
pollinoid
pollinose
pollinosis
pollist
pollists
polliwig
polliwog
polliwogs
pollock
pollocks
polloi
pols
pollster
pollsters
pollucite
pollutant
pollutants
pollute
polluted
pollutedly
pollutedness
polluter
polluters
pollutes
polluting
pollutingly
pollution
pollutive
pollux
polly
pollyanna
pollyfish
pollyfishes
pollywog
pollywogs
polo
poloconic
polocyte
poloi
poloidal
poloist
poloists
polonaise
polonaises
polonese
polonian
polonick
polonium
poloniums
polonius
polony
polopony
polos
pols
polska
polster
polt
poltergeist
poltergeistism
poltergeists
polyandrian
polyandrianism
polyandric
polyandries
polyandrious
polyandrism
polyandrist
polyandrium
polyandrous
polyandry
polyangular
polyantha
polyanthi
polyanthous
polyanthus
polyanthuses
polyanthy
polyarch
polyarchal
polyarchic
polyarchical
polyarchies
polyarchist
polyarchy
polyarteritis
polyarthric
polyarthritic
polyarthritides
polyarthrous
polyarticular
polyatomic
polyatomicity
polyautographic
polyautography
polyaxial
polyaxon
polyaxone
polyaxonic
polybasic
polybasicity
polybasite
polyblast
polyborine
polybranch
polybranchian
polybranchiate
polybrid
polybrids
polybromid
polybromide
polybunous
polybuny
polybutene
polybuttoned
polybutylene
polycarbonate
polycarboxylic
polycarpellary
polycarpic
polycarpous
polycarpy
polycellular
polycentral
polycentric
polycentrism
polycentrist
polycephalic
polycephalous
polycephaly
polychaetal
polychaetan
polychaete
polychaetous
polychasia
polychiasial
polychiasium
polychloride
polychoerany
polychoerd
polychotomous
polychotomy
polychrest
polychrestic
polychrestical
polychresty
polychromic
polychromism
polychrome
polychromasia
polychromate
polychromatic
polychromatism
polychromatist
polychromatize
polychromatophil
polychromatophile
polychromatophilia
polychromatophilic
polychrome
polychromia
polychromic
polychromism
polychromist
polychromize
polychromatic
polychromous
polychromy
polychronicon
polychronious
polychsia
polyciliate
polycistronic
polycitrall
polyclad
polycladine
polycladose
polycladous
polyclady
polyclinical
polyclinics
polyclona
polyccous
polycondensation
polyoncic
polycoonic
polycormic
polycot
polycots
polycotyl
polycotyledon
polycotyledonary
polycotyledonous
polycotyledony
polycotyledous
polycotytous
polycotylly
polycracy
polycrase
polycrratic
polycrotic
polycrotism
polycrystal
polycrystalline
polycetenid
polycettarian
polyculture
polycyanide
polycyclic
polycycle
polycytesis
polycystic
polycythaemia
polycythaemic
polycythemia
polycythemic
polydactyl
polydactyle
polydactylies
polydactylism
polydactylous
polydactyly
polydaemoniac
polydaemonism
polydaemonist
polydaemonistic
polydemic
polydemonism
polydemonist
polydenominational
polydental
polydermous
polydermy
polydigital
polydimensional
polydipsia
polydipsic
polydisperse
polydispersity
polydomous
polydontia
polydymite
polydynamic
polyedral
polyeidic
polyeidism
polyelectrolyte
polymbryonate
polymbryonic
polymbryony
polyemia
polyemic
polyene
polyenes
polyenic
polyenzymatic
polyergic
polyester
polyesterification
polyesters
polyesthesia
polyesthetic
polyestrous
polyethnic
polyethylene
polyfenestral
polyflorous
polyfoil
polyfold
polygala
polygalaceous
polygalas
polygalic
polygalin
polygam
polygama
polygamian
polygamic
polygamical
polygamically
polygamies
polygamist
polygamistic
polygamists
polygamize
polygamodioecious
polygamous
polygamously
polygamy
polyganglionic
polygar
polygarchy
polygastric
polygene
polygenes
polygenesic
polygenesis
polygenesist
polygenetic
polygenetically
polygenic
polygenism
polygenist
polygenistic
polygenous
polygenous
polygeny
polyglandular
polyglobulia
polyglobulism
polyglossary
polyglot
polyglotism
polyglotry
polyglots
polyglottal
polyglottally
polyglotted
polyglotter
polyglottery
polyglottic
polyglottically
polyglotting
polyglottism
polyglottist
polyglottonic
polyglottous
polyglotwise
polyglycerol
polygon
polygonaceous
polygonal
polygonally
polygonetic
polygoneteism
polygonic
polygonically
polygonies
polygonoid
polygonometry
polygonous
polygons
polygonum
polygony
polygram
polygrammatic
polygraph
polygrapher
polygraphic
polygraphically
polygraphist
polygraphs
polygraphy
polygroove
polygrooved
polygyn
polygynaiky
polygynia
polygynian
polygynic
polygynies
polygynious
polygynist
polygynoecial
polygynous
polygyny
polygyral
polygyria
polyhaemia
polyhaemic
polyhalide
polyhalite
polyhalogen
polyharmonic
polyharmony
polyhedra
polyhedral
polyhedral
polyhedric
polyhedral
polyhedroid
polyhedron
polyhedrons
polyhedrosis
polyhedrous
polyhemia
polyhemic
polyhidrosis
polyhistor
polyhistorian
polyhistoric
polyhistory
polyhybrid
polyhydric
polyhydroxy
polyhymnia
polyideic
polyideism
polyidrosis
polyimide
polymerous
polymers
polymery
polymetallism
polymetameric
polymeter
polymethylene
polymetochia
polymetochic
polymicrian
polymicrobial
polymicrobial
polymicroscope
polymignite
polymiid
polymnite
polymny
polymolecular
polymolybdate
polymorph
polymorphene
polymorphic
polymorphically
polymorphism
polymorphisms
polymorphic
polymorphonuclear
polymorphonucleate
polymorphosis
polymorphous
polymorphously
polymorphy
polymyarian
polymyodian
polymyodous
polymyoid
polymyositis
polymythic
polymythic
polymyxin
polynaphthene
polyne
polynemid
polynemoid
polynesia
polynesian
polynesians
polynesian
polyneural
polyneuric
polyneuritic
polyneurītis
polyneuropathy
polynia
polynices
polynodal
polynoid
polynome
polyomial
polynomial's
polynomialism
polynomialist
polynomials
polynomic
polynucleal
polynuclear
polynucleate
polynucleated
polynucleolar
polynucleosis
polynucleotidase
polynucleotide
polynya
polynyas
polyodon
polyodont
polyodontal
polyodontia
polyodontoid
polyoecious
polyoeciously
polyoeciousness
polyoecism
polyoecy
polyoicous
polyol
polyommatous
polyonomous
polyonomy
polyonchial
polyonchial
polyonchial
polyonymal
polyonymic
polyonymist
polyonymous
polyonymy
polyphthalmic
polyopia
polyopic
polyopsia
polyopsy
polyorama
polyorchidism
polyorchism
polyorganic
polyose
polyoxide
polyoxymethylene
polyp
polypage
polypaged
polypapilloma
polyparasitic
polyparasitism
polyaresis
polyparia
polyparian
polyparies
polyparium
polyparous
polypary
polypean
polyped
polypeptide
polypeptidic
polypetal
polypetalous
polypetalal
polyphage
polyphage
polyphagia
polyphagian
polyphagic
polyphagist
polyphagous
polyphagy
polyphalangism
polypharmacal
polypharmacist
polypharmacon
polypharmacy
polypharmic
polyphalal
polyphase
polyphaser
polyphasic
polypheme
polyphemian
polyphemic
polyphemous
polyphemus
polyphenol
polyphenolic
polyphloesboean
polyphloisboioism
polyphloisboism
polyphobia
polyphobic
polyphone
polyphoned
polyphonia
polyphonic
polyphonical
polyphonically
polyphonies
polyphonism
polyphonist
polyphonium
polyphonous
polyphonously
polyphony
polyphore
polyphosphoric
polyphotal
polyphote
polyphylesia
polyphyletic
polyphyletically
polyphyleticism
polyphylety
polyphylline
polyphyllous
polyphyllly
polyphylogeny
polyphyly
polyphyodont
polypi
polypian
polypide
polypianide
polypidom
polypier
polypifer
polypiferous
polypigerous
polypinnate
polypite
polyplicophoran
dpolyplicophore
polyplicophorous
polyplastic
polyplegia
polyplectic
dpolyploid
dpolyploidic
dpolyploidy
dpolypnea
dpolypneas
dpolypneic
dpolypnoea
dpolypnoeic
dpolypod
dpolypodia
dpolypodiaceous
polypodies
dpolypodium
dpolypodous
dpolypods
dpolypody
dpolypoid
dpolypoidal
dpolypomorph
dpolypomorplphic
dpolyporaceous
dpolyporaceous
dpolypore
dpolypores
dpolyporite
dpolyporoid
dpolyporous
dpolypose
dpolyposis
dpolypotome
dpolypous
dpolypragmacy
dpolypragmatic
dpolypragmatical
dpolypragmatically
dpolypragmatism
dpolypragmatist
dpolypragmaty
dpolypragmist
dpolypragmon
polypragmonic
polypragmonist
polyprene
polyprism
polyprismatic
polypropylene
polyprothetic
polyprotic
polyprotodont
polyps
polypseudonymous
polypsychic
polypsychical
polypsychism
polypterid
polypteroid
polyptote
polyptoton
polyptych
polypus
polypuses
polyrhizal
polyrhizous
polyrhythm
polyrhythmic
polyrhythmical
polyrhythmically
polyribonucleotide
polyribosomal
polyribosome
polys
polysaccharide
polysaccharose
polysalicylide
polysaprobiic
polysarcia
polysarcous
polyschematic
polyschematist
polyscope
polyscopic
polysemannt
polysemantic
polysemeia
polysemeia
polysemies
polysemous
polysemousness
polysemy
polySENSuous
polySENSuousness
polySEpalous
polySEptate
polySErositis
polySided
polySidedness
polySilicate
polySilicic
polySiphonic
polySiphonous
polySomatic
polySomatous
polySomatY
polySomes
polySomia
polySomic
polySomitic
polySomous
polySomy
polySorbate
polySpast
polySpaston
polySpermal
polySpermatous
polySpermia
polySpermic
polySpermous
polySpermy
polySpondyllic
polySpondylous
polySpondyly
polySporangium
polySpore
polySpored
polySporic
polySporous
polyStachyous
polyStaurion
polyStele
polyStelic
polyStellic
polyStemonous
polyStichoid
polyStichous
polyStomatous
polystone
polystomium
polystylar
polystyle
polystyous
polystyrene
polysulfide
polysulfonate
polysulphid
polysulphide
polysulphonate
polysulphuration
polysulphurization
polysuspenoid
polysyllabic
polysyllabical
polysyllabically
polysyllabicism
polysyllabicity
polysyllabism
polysyllable
polysyllables
polysyllogism
polysyllogistic
polysymmetrical
polysymmetrically
polysymmetry
polysynaptic
polysynaptically
polysyndetic
polysyndetically
polysyndeton
polysynthesis
polysynthesisism
polysynthetic
polysynthetical
polysynthetically
polysyntheticism
polysynthetism
polysynthetize
polytechnic
polytechnical
polytechnics
polytechnist
polytene
polytenies
polyteny
polyterpene
polytetrafluoroethylene
polythalamian
polythalamic
polythalamous
polythecial
polytheism
polytheist
polytheistic
polytheistical
polytheistically
polytheists
polytheize
polythelia
polythelism
polythely
polythene
polythionic
polytitanic
polytocos
polytokous
polytoky
polytomies
polytomous
polytomy
polytonal
polytonalism
polytonality
polytonally
polytone
polytonic
polytony
polytope
polytopic
polytopical
polytrichaceous
polytrichia
polytrichous
polytrochal
polytrochous
polytrope
polytrophic
polytropic
polytungstate
polytungstic
polytype
polytyped
polytypes
polytypic
polytypical
polytyping
polytypism
polytypy
polyunsaturate
polyunsaturated
polyuresis
polyurethan
polyurethane
polyuria
polyurias
polyuric
polyvalence
polyvalency
polyvalent
polyve
polyvinyl
polyvinylidene
polyvinylpyrrolidone
polyvirulent
polyvoline
polywater
polyzoa
polyzoal
polyzoan
polyzoans
polyzoaria
polyzoarial
polyzoarium
polyzoary
polyzoic
polyzoism
polyzonal
polyzooid
polyzoon
polzenite
pom
pomace
pomacentrid
pomacentroid
pomaceous
pomaces
pomada
pomade
pomaded
pomades
pomading
pomander
ponderosity
ponderous
ponderously
ponderousness
ponders
pondfish
pondfishes
pondful
pondgrass
pondlet
pondlike
pondman
pondok
pondokkie
ponds
pondside
pondus
pondweed
pondweeds
pondwort
pondy
pone
ponent
ponerid
ponerine
poneroid
ponerology
pones
poney
pong
ponga
pongee
pongees
pongid
pongids
pongo
ponhaws
poniard
poniarded
poniarding
poniards
ponica
ponied
ponier
ponies
ponja
ponograph
ponos
poplars
opleman
oplesie
plet
plin
plinette
plins
plitael
pliteal
plitei
pliteus
plitic
plolly
pode
podium
polis
popomastic
popover
povers
poppa
poppability
poppable
poppadom
papas
popean
popped
popper
poppers
poppet
poppethead
poppets
poppied
poppies
poppin
popping
popple
poppled
popples
poppling
popply
poppy
poppy's
poppycock
poppycockish
poppyfish
poppyfishes
poppyhead
poroporo
pororoca
poros
poroscope
poroscopic
poroscopy
porose
poroseness
porosimeter
porosis
porositers
porosity
porotic
porotype
porous
porously
porousness
porpentine
porphine
porphyaceous
porphyratin
porphyria
porphyrian
porphyries
porphyrin
porphyrine
porphyrinuria
porphyrio
porphyrion
porphyrisation
porphyrite
porphyritic
porphyrisation
porphyryize
porphyryzed
porphyryizing
porphyroblast
porphyroblastic
porphyrogene
porphyrogenite
porphyrogenitic
porphyrogenitism
porphyrogeniture
porphyrogenitus
porphyroid
porphyrophore
porphyropsin
porphyrous
postaxillary
postbag
postbags
postbaptismal
postbellum
postbook
postbox
postboxes
postboy
postboys
postbrachial
postbrachium
postbranchial
postbreakfast
postbreeding
postbronchial
postbuccal
postbulbar
postbursal
postcaecal
postcalcaneal
postcalcarine
postcanonical
postcard
postcardiac
postcardinal
postcards
postcarnate
postcarotid
postcart
postcartilaginous
postcatarrhal
postcaudal
postcava
postcavae
postcaval
postcecal
postcenal
postcentral
postcentrum
postcephalic
postcerebellar
postcerebral
postcesarean
postcibal
postclassic
postclassical
postclassicism
postclavicle
postclavicular
postclavicular
postclimax
postclitellian
postclival
postcode
postcoenal
postcoital
postcolon
postcolonial
postcolumellar
postcomital
postcomissural
postcomissure
postcommunicant
postcommunion
postconceptive
postconcretism
postconcretist
postcondition
postcondylar
postconfinement
postconnubial
postconquest
postconsonantal
postcontact
postcontract
postconvalescent
postconvalescents
postconvulsive
postcordial
postcornu
postcosmic
postcostal
postcoxal
postcretaceous
postcribrate
postcritical
postcruciate
postcrural
postcubital
postdate
postdated
postdates
postdating
postdental
postdepressive
postdetermined
postdevelopmental
postdiagnostic
postdiaphragmatic
postdiastolic
postdicrotic
postdigestive
postdigital
postdiluvial
postdiluvian
postdiphtherial
postdiphtheric
postdiphtheritic
postdisapproved
postdiscoidal
postdisseizin
postdisseizor
postdoctoral
postdoctorate
postdural
postdysenteric
postea
posted
posteen
posteens
postel
postelection
postelemental
postelementary
postembryonal
postembryonic
postemergence
postemoral
postencephalitic
postencephalon
postenteral
postentries
postentry
postepileptic
poster
posterette
posteriad
posterial
posterior
posteriori
posterioric
posteriorically
posteristic
postfebrile
postfemoral
postfetal
postfix
postfixal
postfixation
postfixed
postfixes
postfixial
postfixing
postflection
postflexion
postfoetal
postform
postformed
postforming
postforms
postfoveal
postfrontal
postfurca
postfurcal
postganglionic
postgangrenal
postgastric
postgeminum
postgenial
postgenital
postgeniture
postglacial
postglenoid
postglenoidal
postgonorrheic
postgracile
postgraduate
postgraduates
postgrippal
posthabit
postharvest
posthaste
postheat
posthemiplegic
posthemorrhagic
posthepatic
posthemotomist
posthectomy
posthexaplar
posthexaplaric
posthippocampal
posthitis
posthoc
postholder
posthole
postholes
posthouse
posthuma
posthume
posthumeral
posthumous
posthumously
posthumousness
posthumus
posthyoid
posthypnotic
posthypnotically
posthypophysal
posthypophysis
posthysterical
postic
postical
postically
postiche
postiches
posticous
posticteric
posticum
posticus
postie
postil
postiler
postilion
postilioned
postilions
postillate
postillation
postillator
postiller
postillion
postillioned
postils
postimpressionism
postimpressionist
postimpressionistic
postin
postincarnation
postinfective
postinfluenzal
posting
postingly
postings
postins
postintestinal
postique
postiques
postirradiation
postischial
postjacent
postjugular
postlabial
postlabially
postlachrymal
postlapsarian
postlarval
postlaryngial
postlaryngeal
postlegal
postlegitimation
postlenticular
postless
postlicentiate
postlike
postliminary
postlimini
postliminiary
postliminous
postliminium
postliminous
postliminy
postliterate
postloitic
postloral
postlude
postludes
postludium
postluetic
postmalarial
postmamillary
postmammary
postmammillary
postman
postmandibular
postmaniacal
postmarital
postmark
postmarked
postmarking
postmarks
postmarriage
postmaster
postmaster's
postmasterlike
postmasters
postmastership
postmastoid
postmaturity
postmaxillary
postmaximal
postmeatal
postmedia
t
postmediaeval
postmedial
postmedian
postmediastinal
postmediastinum
postmedieval
postmedullary
postmeiotic
postmen
postmeningeal
postmenopausal
postmenstrual
postmental
postmeridian
postmeridional
postmesenteric
postmillenarian
postmillenarianism
postmillennial
postmillennialism
postmillennialist
postmillennian
postmineral
postmistress
postmistresses
postmortal
postmortem
postmortems
postmortuary
postmultiplied
postmultiply
postmultiplying
postmundane
postmuscular
postmutative
postmycotic
postmyxedematous
postmyxedemic
postnarial
postnaris
postnasal
postnatal
postnaturally
postnate
postnati
postnatus
postnecrotic
postnephritic
postneural
postneuralgic
postneuritic
postneurotic
postnodal
postnodular
postnominal
postnota
postnotum
postnotums
postnotumta
postnuptial
postnuptially
postobituary
postocular
postoffice
postoffice's
postoffices
postolivary
postomental
postoperative
postoperatively
postoptic
postoral
postorbital
postorder
postordination
postorgastic
postosseous
postotic
postpagan
postpaid
postpalatal
postpalatine
postprandially
postpredicament
postprocess
postprocessing
postprocessor
postprophesy
postprophetic
postprophetical
postprostate
postpubertal
postpuberty
postpubescent
postpubic
postpubis
postpuerperal
postpulmonary
postpupillary
postpycnotic
postpyloric
postpyramidal
postpyretic
postrachitic
postramus
postrectal
postredemption
postreduction
postremogeniture
postremote
postrenal
postreproductive
postresurrection
postresurrectional
postretinal
postrheumatic
postrhinal
postrider
postrorse
postrostral
postrubeolar
posts
postsaccular
postsacral
postsacral
postsascal
postsacralis
postscarlatinoid
postscenium
postscholastic
postschool
postscorbutic
postscribe
postscript
postscript's
postscripts
postscriptum
postscutella
postscutellar
postscutellum
postscutella
postseason
postseasonal
postsigmoid
postsigmoidal
postsign
postsigner
postspasmodic
postsphenoid
postsphenoidal
postsphygmic
postspinous
postsplenial
postsplenic
poststernal
poststertorous
postsuppurative
postsurgical
postsymphysial
postsynaptic
postsynaptically
postsynsacral
postsyphilitic
postsystolic
posttabetic
posttarsal
posttemporal
posttension
posttest
posttests
posttetanic
postthalamic
postthoracic
postthyroidal
posttibial
posttonic
posttoxic
posttracheal
posttrapezoid
posttraumatic
posttreatment
posttreaty
posttubercular
posttussive
posttympanic
posttyphoid
postulance
postulancy
postulant
postulants
postulantship
postulata
postulate
postulated
postulates
postulating
postulation
postulational
postulations
postulator
postulatory
postulatum
postulnar
postumbilical
postumbonal
postural
posture
posture's
postured
posturer
posturers
postures
postureteral
postureteric
posturing
posturise
posturised
posturising
posturist
posturize
posturized
posturizing
postuterine
postvaccinal
postvaricellar
postvarioid
postvelar
postvenereal
postvenous
postventral
postverbal
postvertebral
postvesical
postvide
postvocalic
postvocalically
postwar
postward
postwise
postwoman
postwomen
postxiphoid
postxyphoid
postyard
postzygapophyseal
postzygapophysial
postzygapophysis
posy
pot
pot’s
potability
potable
potableness
potables
potage
potager
potagere
potagerie
potagery
potages
potail
potamian
potamic
potamogale
potamogetonaceous
potamological
potamologist
potamology
potamometer
potamophilous
potamophobia
potamoplankton
potentate's
potentates
potentee
potential
potentialities
potentiality
potentialization
potentialize
potentially
potentialness
potentials
potentiate
potentiates
potentiating
potentiation
potentiator
potentibility
potenties
potentilla
potentiometer
potentiometer's
potentiometers
potentiometric
potentize
potently
potentness
potenty
poter
potestal
potestas
potestate
potestative
poteyer
potful
potfuls
potgirl
potgun
potgut
pothanger
pothead
potheads
pothecaries
pothecary
potheen
potheens
pother
potherb
potherbs
pothered
pothering
potherment
pthers
pothery
potholder
potholders
pothole
potholed
potholer
potholes
pothering
porthook
potherker
potherker
potherks
potherhouse
potherhouses
pothersey
pother
pothered
pothered
pothered
pothered
poti
poticary
potiche
potiches
potichomania
potichomanist
potifier
potion
potions
potlach
potlache
potlaches
potlatch
potlatched
potlatches
potlatching
potleg
potlicker
potlid
potlike
potlikker
potline
potling
potluck
potlucks
potmaker
potmaking
potman
potmen
potomac
potomania
potomato
potometer
potong
potoo
potoos
potophobia
potoroo
potoroos
potpie
potpies
potpourri
potpourris
potrack
potrero
pots
potshard
potshards
potshaw
potsherd
potsherds
potshooter
potshot
potshots
potshooting
potsie
potsies
potstick
potstone
potstones
potsy
pott
pottage
pottages
pottagy
pottah
pottaro
potted
potted
potteen
potteens
potter
potter’s
poudrette
poudreuse
poudreuses
poudrin
pouf
poufed
pouff
pouffe
pouffed
pouffes
pouffs
poufs
poulaïne
poulard
poularde
poulardes
poulardize
poulards
pouldron
poule
poulet
poulette
poulp
poulpe
poult
poulter
poulterer
poulteress
poulstice
poulticed
poulticess
poulticewise
poulticings
poultries
poultry
poultrydom
poultryist
poultryless
poultrylike
poultryman
poultrymen
poultryproof
pouls
pounamu
pounce
pounced
pouncer
pouncers
practiced
practicedness
practicer
practices
practician
practicanism
practicing
practico
practicum
practisant
practise
practised
practiser
practises
practising
practitional
practitioner
practitioner's
practitioners
practitionery
practive
prad
pradhana
prado
praebdomen
praebacetabular
praeanal
praecava
praecipe
praecipes
praecipitatio
praecipuum
praecoces
praecocial
praecognitum
praecoracoid
praecordia
praecordial
praecordial
praecordium
praecornu
praecox
praecuneus
praedial
praedialist
praediality
praedium
praesophageal
praefect
praesystolic
praetaxation
praetexta
praetextae
praetor
praetorial
praetorian
praetorianism
praetorium
praetors
praetorship
praetzygapophysis
pragmarize
pragmat
pragmatic
pragmatica
pragmatical
pragmaticality
pragmatically
pragmaticalness
pragmaticism
pragmaticist
pragmatics
pragmatism
pragmatist
pragmatistic
pragmatists
pragmatize
pragmatizer
prague
praham
prahm
prahu
prahus
prairie
prairiecraft
praired
prairedom
prairielike
prairies
prairieweed
prairillon
praisable
praisableness
praisably
praise
praised
praiseful
praisefully
praisefulness
praiseless
praiseproof
praiser
praisers
praises
praiseworthy
praiseworthiness
praiseworthy
praising
praisingly
praisiss
praiseworthy
praiseworthiness
prajna
prakrit
prakriti
praline
pralines
pralltriller
pram
prammian
prams
prana
pranava
prance
pranced
pranceful
prancer
prancers
prances
prancing
prancingly
prancome
prancy
prand
prandial
prandially
prang
pranged
pranging
prangs
pranidhana
prank
prank's
pranked
pranker
pratincoline
pratincolous
prating
pratingly
pratique
pratiques
pratiyasamutpada
prats
prattfall
prattle
prattled
prattlement
prattler
prattlers
prattles
prattling
prattlingly
prattly
pratty
prau
praus
pravilege
pravity
pravous
prawn
prawned
prawner
prawners
prawning
prawns
prawny
praxeological
praxeology
praxes
praxinoscope
praxiology
praxis
praxises
praxithea
pray
praya
prayable
prayed
prayer
prayer's
prayerful
prayerfully
prayerfulness
prayerless
prayerlessly
prayerlessness
prayermaker
prayermaking
prayers
prayerwise
prayful
praying
prayingly
prayingwise
prays
pre
preabdomen
preabsorb
preabsorbent
preabstract
preabundance
preabundant
preabundantly
preaccept
preacceptance
preacceptances
preaccepted
preaccepting
preaccepts
preaccess
preaccessible
preaccidental
preaccidentally
preaccommodate
preaccommodated
preaccommodating
preaccommodatingly
preaccommodation
preaccomplish
preaccomplishment
precord
prechordance
preaccount
preaccounting
preaccredit
preaccumulate
preaccumulated
preaccumulating
preaccumulation
preaccusation
preaccuse
preaccused
preaccusing
preaccustom
preaccustomed
preaccustoming
preaccustoms
preace
preacetabular
preach
preachable
preached
preacher
preacherdom
preacheress
preacherize
preacherless
preacherling
preachers
preachership
preaches
preachier
preachiest
preachieved
preachification
preachified
preachify
preaching
preachily
preachiness
preaching
preachingly
preachings
preachman
preachment
preachments
preachy
preacid
preacidity
preacidly
preacidness
preacknowledge
preacknowledged
preacknowledgement
preacknowledging
preacknowledgment
preacness
preacquaint
preacquaintance
preadvertised
preadvertisement
preadvertiser
preadvertising
preadvice
preadvisable
preadvise
preadvised
preadviser
preadvising
preadvisory
preadvocacy
preadvocate
preadvocated
preadvocating
preaestival
preaffect
preaffection
preaffidavit
preaffiliate
preaffiliated
preaffiliating
preaffiliation
preaffirm
preaffirmation
preaffirmative
preaffirmed
preaffirming
preaffirms
preaffect
preafflict
preaffliction
preafternoon
preage
preaged
preaggravate
preaggravated
preaggravating
preaggravation
preaggression
preaggressive
preaggressively
preaggressiveness
preaging
preagitate
preagitated
preagitating
preagitation
preagonal
preassume
preassumed
preassuming
preassumption
preassurance
preassure
preassured
preassuring
preataxic
preatomic
preattachment
preattune
preattuned
preattuning
preaudience
preauditory
preauricular
preaver
preavered
preaverring
preavers
preavowal
preaxiad
preaxial
preaxially
prebachelor
prebacillary
prebade
prebake
prebalance
prebalanced
prebalancing
preballot
preballoted
preballoting
prebankruptcy
prebaptismal
prebaptize
prebarbaric
prebarbarically
prebarbarous
prebarbarously
prebarbarousness
prebargain
prebasal
prebasilar
prebble
prebelieve
prebelief
prebelieve
prebelieved
prebeliever
prebelieving
prebellum
prebeloved
prebend
prebendal
prebendaries
prebendary
prebendaryship
prebendate
prebends
prebenediction
prebeneficiaries
prebeneficiary
prebenefit
prebenefited
prebenefiting
prebeset
prebesetting
prebestow
prebestowal
prebetray
prebetrayal
prebetrothal
prebid
prebidding
prebill
prebilled
prebilling
prebills
prebind
prebinding
prebinds
prebiologic
prebiological
prebiotic
prebless
preblessed
preblesses
preblessing
preblockade
preblockaded
preblockading
preblooming
preboast
precanning
precannonical
precant
precantation
precanvas
precapillary
precapitalist
precapitalistic
precaptivity
precapture
precaptured
precapturing
precarcinomatous
precardiac
precaria
precarious
precariously
precariousness
precarium
precarnival
precartilage
precartilaginous
precary
precast
precasting
precasts
precation
precative
precatively
precatory
precaudal
precausation
precaution
precaution's
precautional
precautionary
precautioning
precautions
precautious
precautiously
precautiousness
precava
precavae
precaval
prechoose
prechosen
precedable
precedaneous
precited
preciting
precivilization
preclaim
preclaimant
preclaimer
preclam
preclassic
preclassical
preclassically
preclassification
preclassified
preclassify
preclassifying
preclean
precleaned
precleaner
precleaning
preclens
preclerical
preclimax
preclinical
preclival
precloacal
preclose
preclosed
preclosing
preclosure
preclothe
preclothed
preclothing
precludable
preclude
precluded
precludes
precluding
preclusion
preclusive
preclusively
precoagulation
precoccygeal
precoce
precosial
precocious
precociously
precociousness
precocity
precogitate
precogitated
precogitating
precogitation
precognition
precognitions
precognitive
precognizable
precognizant
precogize
precogized
precogizing
precognosce
precoil
precoiler
precoincidence
precoincident
precoincidently
precollapsable
precollapse
precollapsed
precollapsibility
precollapsible
precollapsing
precollapse
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precollapsing
precomb
precombined
precombining
precombustion
precommand
precommend
precommand
precommercial
precommissural
precommissure
precommit
precommitted
precommitting
precommune
precommuned
precommunicate
precommunicated
precommunicating
precommunication
precommuning
precommunion
precompare
precompared
precomparing
precomparison
precompass
precompel
precompelled
precompelling
precompensate
precompensated
precompensating
precompensation
precompilation
precompile
precompiled
precompiler
precompiling
precompleteness
precompletion
precompliance
precompliant
precomplicate
precomplicated
precomplicating
precomplication
precompose
precomposition
precompound
precompounding
precompoundly
precomprehend
precomprehension
precomprehensive
precomprehensively
precomprehensiveness
precompress
precompression
precompulsion
precompute
precomputed
precomputing
precomradeship
preconceal
preconcealed
preconcealing
preconcealment
preconceals
preconcede
preconceded
preconceding
preconceivable
preconceive
preconceived
preconceives
preconceiving
preconcentrate
preconcentrated
preconcentratedly
preconcentrating
preconcentration
preconcept
preconception
preconception's
preconceptional
preconceptions
preconceptual
preconcern
preconcernment
preconcert
preconcerted
preconcertedly
preconcertedness
preconcertion
preconcertive
preconcession
preconcessions
preconcessive
preconclude
preconcluded
preconcluding
preconclusion
preconcur
preconcurred
preconcurrency
preconcurrent
preconcurrently
preconcurring
precondemn
precondemnation
precondemned
precondemning
precondemns
precondensation
precondense
precondensed
precondensing
precondition
preconditioned
preconditioning
preconditions
preconduct
preconduction
preconductor
precondylar
precondyloid
preconfer
preconference
preconferred
preconferring
preconfess
preconfession
preconfide
preconfided
preconfiding
preconfiguration
preconfigure
preconfigured
preconfiguring
preconfine
preconfined
preconfinedly
preconfinement
preconfinemnt
preconfining
preconsideration
preconsiderations
preconsidered
preconsign
preconsolidate
preconsolation
preconsole
preconsolidate
depreconsolidated
preconsolidating
preconsolidation
preconsonantal
preconspiracies
preconspiracy
preconspirator
preconspire
preconspired
preconspiring
preconsonantal
preconsonant
preconsonant
preconstituent
preconstitute
preconstituted
preconstituting
preconstruct
preconstructed
preconstructing
preconstruction
preconstructs
preconsult
preconsultation
preconsultations
preconsultor
preconsume
preconsumed
preconsumer
preconsuming
preconsumption
precontact
precontain
precontained
precontemn
precontemplate
precontemplated
precontemplating
precontemplation
precontemporaneity
precontemporaneous
precontemporaneously
precontemporary
precontend
precontent
precontention
precontently
precontentment
precontest
precontinental
precontract
precontractive
precontractual
precontribute
precontributed
precontributing
precontribution
precontributive
precontrivance
precontrive
precontrived
precontrives
precontriving
precontrol
precontrolled
precontrolling
precontroversial
precontroversies
precontroversy
preconvention
preconversation
preconversational
preconversion
preconvert
preconvey
preconveyal
preconveyance
preconvict
preconviction
preconvince
preconvinced
preconvincing
precony
precook
precooked
precooker
precooking
precooks
precool
precooled
precooler
predenied
predental
predenary
predentary
predentate
predeny
predenyed
predenarying
predepart
predepartmental
predeparture
predependable
predependence
predependent
predeplete
predepleted
predepleting
predepleteion
predeposit
predepository
predepreciate
predepreciated
predepreciating
predepreciation
predepression
predeprivation
predeprive
predeprived
predepring
prederivation
prederive
prederived
prederiving
predeascend
predescent
predescribe
predescribed
predescribing
predescription
predesert
predeserter
predesertion
predeserve
predeserved
predeserving
predesign
predesignate
predesignated
predesignates
predesignating
predine
predined
predining
predinner
prediphtheritic
prediploma
prediplomacy
prediplomatic
predirect
predirection
predirector
predisability
predisable
predisadvantage
predisadvantageous
predisadvantageously
predisagree
predisagreeable
predisagreed
predisagreeing
predisagreement
predisappointment
predisaster
predisastrous
predisastrously
prediscern
prediscernment
predischarge
predischarged
predischarging
prediscipline
predisciplined
predisciplining
predisclose
predisclosed
predisclosing
predisclosure
prediscontent
prediscontented
prediscontentment
prediscontinuance
prediscontinuation
prediscontinue
prediscount
prediscountable
prediscourage
prediscouraged
prediscouragement
prediscouraging
prediscourse
prediscover
prediscoverer
prediscoveries
prediscovery
prediscreet
prediscretion
prediscretionary
prediscriminate
prediscriminated
prediscriminating
prediscrimination
prediscriminator
prediscuss
prediscussion
predisgrace
predisguise
predisguised
predisguising
predisgust
predislike
predisliked
predisliking
predismiss
predismissal
predismissory
predisorder
predisordered
predisorderly
predispatch
predispatcher
predisperse
predispersed
predispersing
predispersion
predisplace
predisplaced
predisplacement
predisplacing
predisplay
predisponency
predisponent
predisposable
predisposal
predispose
predisposed
predisposedly
preelemental
preelementary
preeligibility
preeligible
preeligibleness
preeligibly
preeliminate
preeliminated
preeliminating
preelimination
preeliminator
preemancipation
preembarrass
preembarrassment
preembodied
preembodiment
preembody
preembodying
preemergence
preemergencies
preemergency
preemergent
preemie
preemies
preeminence
preeminent
preeminently
preemotion
preemotional
preemotionally
preemperor
preemphasis
preemploy
preemployee
preemployer
preemployment
preempt
preempted
preempting
preemption
preemptions
preemptive
preemptively
preemptor
preemptory
preempts
preen
preenable
preenabled
preenabling
preenact
preenacted
preenacting
preenaction
preenacts
preenclose
preenclosed
preenclosing
preenclosure
preencounter
preencourage
preencouragement
preendeavor
preendorse
preendorsed
preendorsement
preendorser
preendorsing
preened
preener
preeners
preenforce
preenforced
preenforcement
preenforcing
preengage
preengaged
preengagement
preengages
preengaging
preengineering
preening
preenjoy
preenjoyable
preenjoyment
preenlarge
preenlarged
preenlargement
preenlarging
preenlighten
preenlightener
preenlightenment
preenlist
preenlistment
preenlistments
preenroll
preenrollment
preens
preentail
preentailment
preenter
preentertain
preentertainer
preentertainment
preenthusiasm
preentitle
preentitled
preentitling
preentrance
preentry
preenumerate
preenumerated
preenumerating
preenumeration
preenvelop
preenvelopment
preenvironmental
preepidemic
preepochal
preequalization
preequip
preequipment
preequipped
preequipping
preequity
preerect
preerection
preerupt
preeruption
preeruptive
preeruptively
prees
preescape
preescaped
preescaping
preesophageal
preessay
preessential
preessentially
preestablish
preestablished
preestablishes
preestablishing
preesteem
preestimate
preestimated
preestimates
preestimating
preestimation
preestival
preeternal
preeternity
preevade
preevaded
preevading
preevaporate
preevaporated
preevaporating
preevaporation
preevaporator
preevasion
previdence
preevident
preevidently
preevolutional
preevolutionary
preevolutionist
preexact
preexaction
preexamination
preexaminations
preexamine
preexamed
preexaminer
preexamines
preexamining
preexempt
preexception
preexceptional
preexceptionally
preexchange
preexchanged
preexchanging
preexcitation
preexcite
preexcited
preexciting
preexclude
preexcluded
preexcluding
preexclusion
preexclusive
preexpose
preexposed
preexposes
preexposing
preexposition
preexposure
preexposures
preexpound
preexpounder
preexpress
preexpression
preexpressive
preextend
preextensive
preextensively
preextent
preextinction
preextinguish
preextinguishment
preextract
preextraction
preeze
pref
prefab
prefabbed
prefabbing
prefabricate
prefabricated
prefabricates
prefabricating
prefabrication
prefabricator
prefabs
preface
prefaceable
prefaced
prefacer
prefacers
prefaces
prefacial
prefacing
prefacist
prefactor
prefactory
prefamiliar
prefamiliarity
prefamiliarly
prefamous
prefinish
prefix
prefixable
prefixal
prefixally
prefixation
prefixed
prefixedly
prefixes
prefixing
prefixion
prefixions
prefixure
preflagellate
preflagellated
preflatter
preflattery
preflavor
preflavoring
prelection
preflexion
preflight
preflood
prefloration
preflowering
prefocus
prefocused
prefocuses
prefocusing
prefocussed
prefocusses
prefocussing
prefoliation
prefool
preforbidden
preforceps
preforgave
preforgive
preforgiven
preforgiveness
preforgiving
preforgotten
preform
preformant
preformation
preformationary
preformationism
preformationist
preformative
preformed
preforming
preformism
preformist
preformistic
preforms
preformulate
preformulated
preformulating
preformation
prefortunate
prefortune
prefoundation
prefounder
prefract
prefragrance
prefragrant
prefrank
prefranked
prefranking
prefrankness
prefranks
prefraternally
prefraud
prefreeze
prefreezing
prefreshman
prefreshmen
prefriendly
prefriendship
prefright
prefrighten
prefrontal
prefroze
prefrozen
prefulfill
prefulfillment
prefulgence
prefulgency
prefulgent
prefunction
prefunctional
prefuneral
prefungoidal
prefurlough
pregrading
pregraduation
pregranite
pregranitic
pregratification
pregratified
pregratify
pregratifying
pregreet
pregreeting
pregrievance
pregrowth
preguarantee
preguaranteed
preguaranteeing
preguarantor
preguard
preguess
preguidance
preguide
preguided
preguiding
preguilt
preguiltiness
preguilty
pregust
pregustant
pregustation
pregustator
pregustic
prehallux
prehalter
prehalteres
prehandicap
prehandicapped
prehandicapping
prehandle
prehandled
prehandling
prehaps
preharden
prehardened
prehardener
prehardening
prehardens
preharmonious
preharmoniously
preharmoniousness
preimpart
preimperial
preimport
preimportance
preimportant
preimportantly
preimportation
preimposal
preimpose
preimposed
preimposing
preimposition
preimpress
preimpression
preimpressionism
preimpressionist
preimpressive
preimprove
preimproved
preimprovement
preimproving
preinaugural
preinaugurate
preinaugurated
preinaugurating
preincarnate
preincentive
preincination
preinclination
preincline
preinclined
preinclining
preinclude
preincluded
preincluding
preinclusion
preincorporate
preincorporated
preincorporating
preincorporation
preincrease
preincreased
preincreasing
preindebted
preindebtedly
preindebtedness
preindemnification
prelaunch
prelaunching
prelaw
prelawful
prelawfully
prelawfulness
prelease
preleased
preleasing
prelect
prelected
prelecting
prelection
prelector
prelectorship
prelectress
prelects
prelecture
prelected
prelecting
prelegacy
prelegal
prelegate
prelegatee
prelegend
prelegendary
prelegislative
prelexical
preliability
preliable
prelibation
preliberal
preliberality
preliberally
preliberate
preliberated
preliberating
preliberation
prelicense
prelicensed
prelicensing
prelim
preliminaries
preliminarily
preliminary
prelimit
prelimitate
prelimited
preclusive
preclusively
preclusorially
preclusory
preluxurious
preluxuriously
preluxuriousness
prem
premachine
premade
premadness
premaintain
premaintenance
premake
premaker
premaking
premalignant
preman
premandibular
premanhood
premanniacal
premanifest
premanifestation
premankind
premanufacture
premanufactured
premanufacturer
premanufacturing
premarital
premarketing
premarriage
premarried
premarry
premarrying
premastery
prematch
premate
premated
prematerial
prematernity
premating
prematrimonial
prematrimonially
prematuration
premature
prematurely
prematureness
prematurities
prematurity
premaxilla
premaxillae
premaxillary
premeasure
premeasured
premeasurement
premeasuring
premechanical
premed
premedia
premedial
premedian
premedic
premedical
premedicate
premedicated
premedicating
premedication
premedics
premedieval
premedievalism
premeditate
premeditated
premeditatedly
premeditatedness
premeditates
premeditating
premeditatingly
premeditation
premeditative
premeditator
premeditators
premeds
premeegalithic
premeiotic
prememoda
prememoranda
prememorandum
prememorandums
premen
premenace
premenaced
premenacing
premenstrual
premenstrually
premention
premeridian
premerit
premetallic
premethodical
premia
premial
premiant
premiate
premiated
premiating
premidnight
premidsummer
premie
premier
premier's
premieral
premiere
premiered
premieres
premieress
premiering
premierjus
premiers
premiership
premierships
premies
premilitary
premillenarian
premillenarianism
premillenial
premillennial
premillennialise
premillennialised
premillennialising
premillennialism
premillennialist
premillennialize
premillennialized
premillennializing
premillennially
premillennian
preminister
preministries
preministry
premio
premious
premisal
premise
premise's
premonopolizing
premonopoly
premonstrant
premonstratensian
premonstratensis
premonstration
premonumental
premoral
premorality
premorally
premorbid
premorbidly
premorbidness
premorning
premorse
premortal
premortally
premortification
premortified
premortify
premortifying
premortuary
premorula
premosaic
premotion
premourn
premove
premovement
premover
premuddle
premuddled
premuddling
premultiplication
premultiplier
premultiply
premultiplying
premundane
premune
premunicipal
premunire
premunition
premunitory
premusical
premusically
premuster
premutative
premutinied
premutinies
prenominal
prenotation
prenote
prenoted
prenotice
prenotification
prenotified
prenotify
prenotifying
prenoting
prenotion
prentice
prenticed
prentices
prenticeship
prenticing
prenumber
prenumbering
prenuncial
prenunciate
prenuptial
prenurseries
prenursery
prenzie
preobedience
preobedient
preobediently
preobject
preobjection
preobjective
preobligate
preobligated
preobligating
preobligation
preoblige
preobliged
preobliging
preobligea
preoblongata
preobservance
preobservation
preobservational
preobserve
preobserved
preobserving
preobstruct
preobstruction
preobtain
preobtainable
preotic
preoutfit
preoutfitted
preoutfitting
preoutline
preoutlined
preoutlining
preoverthrew
preoverthrow
preoverthrowing
preoverthrown
preoviposition
preovulatory
prep
prepack
prepackage
prepackaged
prepackages
prepackaging
prepacked
prepacking
prepacks
prepaging
prepaid
prepainful
prepalaeolithic
prepalatal
prepalatine
prepalaeolithic
prepanic
preparable
preparateur
preparation
preparation's
preparationist
preparations
preparative
preparative's
preparatively
preparatives
preparator
preparatorily
preparatory
prepardon
prepare
prepared
preparedly
preparedness
preperceive
preperception
preperceptive
preperfect
preperitoneal
prepersuade
prepersuaded
prepersuading
prepersuasion
prepersuasive
preperusal
preperuse
preperused
preperusing
prepetition
prepg
prephragma
prephthisical
prepigmental
prepineal
prepink
prepious
prepiously
prepituitary
preplace
preplaced
preplacement
preplacental
preplaces
preplacing
preplan
preplanned
preplanning
preplans
preplant
preplanting
prepledge
prepledged
prepledging
preplot
preplotted
preplotting
prepn
prepoetic
prepoetical
prepoison
prepolice
prepolish
prepunish
prepunishment
prepupa
prepupal
prepurchase
prepurchased
prepurchaser
prepurchasing
prepurpose
prepurposed
prepurposing
prepurposive
preputial
preputium
prepyloric
prepyramidal
prequalification
prequalified
prequalify
prequalifying
prequarantine
prequarantined
prequarantining
prequel
prequestion
prequotation
prequote
prequoted
prequoting
preracing
preradio
prerailroad
prerailroadite
prerailway
preramus
prerational
prereadiness
preready
prerealization
prerealize
prerealized
prerealizing
prerebellion
prereceipt
prereceive
prereceived
prereceiver
prereceiving
prerecital  
prerecile  
prerecited  
prereciting  
prereckon  
prereckoning  
prerecognition  
prerecognize  
prerecognized  
prerecognizing  
prerecognizing  
prerecommend  
prerecommendation  
prereconcile  
prereconciled  
prereconcilement  
prereconciliation  
prereconciling  
prerecord  
prerecorded  
prerecording  
prerecords  
prerectal  
preredeem  
preredemption  
prereduction  
prerefer  
prereference  
prereferred  
prereferring  
prerefine  
prerefining  
prerefinement  
prerefining  
prereform  
prereformation  
prereformatory  
prerefusal  
prerefuse  
prerefused  
prerefusing  
preregal  
preregister  
preregistered  
preregistering  
preregisters  
preregistration  
prerapeutic  
preregulate
preregulated
preregulating
preregulation
prereject
prerejection
prerejoice
prerejoiced
prerejoicing
prerelate
prerelated
prerelating
prerelation
prerelationship
prerelieve
prereligious
prereluctance
prereluctation
preremit
preremittance
preremitted
preremitting
preremorse
preremote
preremoval
preremove
preremoved
preremoving
preremunerate
preremunerated
preremunerating
preremuneration
prerenal
prerent
prerental
prereport
prerepresent
prerepresentation
prereproductive
prereption
prerepublican
prerequest
prerequire
prerequired
prerequirement
prerequiring
prerequisite
prerequisite's
prerequisites
prerequisite
preresemblance
preresemble
preresembled
prereembling
preresolution
preresolve
preresolved
preresolving
preresort
prerespectability
prerespectable
prerespiration
prerespire
preresponsibility
preresponsible
prerestoration
prerestrain
prerestraint
prerestrict
prerestriction
prereturn
prereveal
prerevelation
prerevenge
prerevenged
prerevenging
prereversal
prereverse
prereversed
prereversing
prereview
prerevise
prerevised
prerevising
prerevision
prerewival
prerevolutionary
prerheumatic
prerich
prerighteous
prerighteously
prerighteousness
prerogatival
prerogative
prerogative's
prerogatived
prerogatively
prerogatives
prerogativity
prerolandic
preromantic
preromanticism
preroute
prerouted
preroutine
prerouting
preroyal
preroyally
preroyalty
prerupt
preruption
pres
presa
presacral
presacrifice
presacrificed
presacrificial
presacrificing
presage
presaged
presageful
presagefully
presagefulness
presagement
presager
presagers
presages
presagient
presaging
presagingly
presaid
presalvation
presanctification
presanctified
presanctify
presanctifying
presanguine
presanitary
presartorial
presatisfaction
presatisfactory
presatisfied
presatisfy
presatisfying
presavage
prescind
prescinded
prescindent
prescinding
prescinds
prescission
prescore
prescored
prescores
prescoring
prescout
prescribable
prescribe
prescribed
prescriber
prescribes
prescribing
prescript
prescriptibility
prescriptible
prescription
prescription's
prescriptionist
prescriptions
prescriptive
prescriptively
prescriptiveness
prescriptivism
prescriptivist
prescriptorial
prescripts
prescribe
prescutal
prescutum
prese
preseal
presearch
preseason
preseasonal
presecular
presecure
presecured
presecuring
presedentary
presee
preseeing
preseen
preselect
preselected
preselecting
preselection
preselector
preselects
presell
preselling
presells
presemilunar
preseminal
preseminary
presence
presence's
presenced
presenceless
presences
presenile
presenility
presensation
presension
present
presentability
presentable
presentableness
presentably
presental
presentation
presentation's
presentational
presentationalism
presentationes
presentationism
presentationist
presentations
presentative
presentatively
presented
presentee
presentence
presentenced
presentencing
presenter
presenters
presential
presentiality
presentially
presentialness
presentiate
presexual
preshadow
preshape
preshaped
preshapes
preshaping
preshare
preshared
presharing
presharpen
preshelter
preship
preshipment
preshipped
preshipping
preshortage
preshorten
preshow
preshowed
preshowing
preshown
preshows
preshrink
preshrinkage
preshrinking
preshrunk
preside
presided
presidence
presidencia
presidencies
presidency
president
president's
presidente
presidentes
presidentess
presidential
presidentially
presidentially
presidentary
presidents
presidentship
presider
presiders
presides
presidia
presidial
presidially
presidiary
presiding
presidio
presidios
presidium
presidiums
presidy
presift
presifted
presifting
presifts
presign
presignal
presigned
presignificance
presignificancy
presignificant
presignification
presignificative
presignificator
presignified
presignify
presignifying
presimian
preslavery
presley
presmooth
presoak
presoaked
presoaking
presoaks
presocial
presocialism
presocialist
presolar
presold
presolicit
presolicitation
presolution
presolvated
presolve
presolved
presolving
presophomore
presound
presound
prespecialist
prespecialize
prespecialized
prespecializing
prespecific
prespecifically
prespecification
prespecified
prespecify
prespecifying
prespective
prespeculate
prespeculated
prespeculating
prespeculation
presphenoid
presphenoidal
presphygmic
prespinal
prespinous
prespiracular
presplendor
presplenomegalic
prespoil
prespontaneity
prespontaneous
prespontaneously
prespread
prespreading
presprinkle
presprinkled
presprinkling
prespur
prespurred
prespurring
press
pressable
pressage
pressboard
pressdom
pressed
pressel
presser
pressers
presses
pressfat
pressful
pressgang
pressible
pressie
pressing
presupervised
presupervising
presupervision
presupervisor
presupplemental
presupplementary
presupplicate
presupplicated
presupplicating
presupplication
presupplied
presupply
presupplying
presupport
presupposal
presuppose
presupposed
presupposes
presupposing
presupposition
presuppositionless
presuppositions
presuppress
presuppresion
presuppurative
presupremacy
presupreme
presurgery
presurgical
presurmise
presurmised
presurmising
presurprisal
presurprise
presurrender
presurround
presurvey
presusceptibility
presusceptible
presuspect
presuspend
presuspension
presuspicion
presuspicious
presuspicously
presuspiciousness
presustain
presutural
preswallow  
presylvian  
presympathize  
presympathized  
presympathizing  
presympathy  
presymphonic  
presymphony  
presymphysial  
presymptom  
presymptomatic  
presynapsis  
presynaptic  
presynaptically  
presynsacral  
presystematic  
presystematically  
presystole  
presystolic  
pret  
preta  
pretabulate  
pretabulated  
pretabulating  
pretabulation  
pretan  
pretangible  
pretangibly  
pretannage  
pretanned  
pretanning  
pretardily  
pretardiness  
pretardy  
pretariff  
pretarsi  
pretarsus  
pretarsusi  
pretaste  
pretasted  
pretaster  
pretastes  
pretasting  
pretaught  
pretax  
pretaxation  
preteach  
preteaching
prevocalic
prevocally
prevocational
prevogue
prevoid
prevoidance
prevolitional
prevolunteer
prevomer
prevost
prevot
prevotal
prevote
prevoted
prevoting
prevoyance
prevoyant
prevue
prevued
prevues
prevuing
prewar
prewarm
prewarmed
prewarming
prewarms
prewarn
prewarned
prewarning
prewarns
prewarrant
prewash
prewashed
prewashes
prewashing
preweigh
prewelcome
prewelcomed
prewelcoming
prewelwired
prewelwiring
prewhip
prewhipped
prewhipping
prewilling
prewillingly
prewillingness
priestianity
priesting
priestish
priestism
priestless
priestlet
priestlier
priestliest
priestlike
priestliness
priestling
priestly
priests
priestship
priestshire
prig
prigdom
prigged
prigger
priggeries
priggery
priggs
priggess
priggish
priggishly
priggishness
priggism
priggisms
prighood
prigman
prigs
prigster
prill
prilled
prilling
prillion
prills
prim
prima
primacies
primacord
primacy
primaeval
primage
primages
primal
primality
primally
primigenious
primigenious
primigravida
prime
primines
priming
primings
primipara
primiparae
primiparas
primiparity
primiparous
primipilar
primitiae
primitial
primitias
primitive
primively
primitivefulness
primitives
primitivism
primitivist
primitivistically
primitivity
primity
primly
primmed
primer
primmest
primming
primness
primnesses
prim
primogenetrix
primogenial
primogenital
primogenitary
primogenitive
primogenitor
primogenitors
primogeniture
primogenitureship
primogenous
primomo
primoprime
primoprimitive
primordiality
primordia
primordial
primordialism
primordiality
primordially
primordiate
primordium
primos
primosity
primost
primp
primped
primping
primprint
primps
primrose
primrosed
primroses
primrosetide
primrosetime
primrosy
prims
primsie
primula
primulaceous
primulas
primulaverin
primulaveroside
primulic
primuline
primus
primuses
primwort
primy
prin
prince
princeage
princecraft
princedom
princedoms
princehood
princekin
princeless
princelet
princelier
princeliest
princelike
princeliness
princeling
privateers
privateersman
privately
privateness
privater
privates
privatest
privation
privatism
privatistic
privative
privatively
privativeness
privatization
privatize
privatized
privatizing
privatum
privet
privets
privier
privies
priviest
privileged
privilege
privileger
privileges
privileging
privily
priviness
privities
privity
privy
privy's
prix
prizable
prize
prizeable
prized
prizefight
prizefighter
prizefighters
prizefighting
prizefights
prizeholder
prizeman
prochooi
prochoos
prochordal
prochorion
prochorionic
prochromosome
prochromic
prochronism
prochronic
prochronistic
prochronize
prochurch
prochurchian
procidence
procident
procidentia
procinct
procity
procivic
procivilian
procivism
proclaim
proclaimable
proclaimant
proclaimed
proclaimer
proclaiming
proclaimingly
proclaims
proclamation
proclamation's
proclamations
proclamator
proclamatory
proclassic
proclassical
proclei
proclergy
proclerical
proclericalism
proclimax
procline
proclisis
proclitic
proclive
proclivities
proclivitous
proclivity
proclivity's
proclivous
proclivousness
proene
proempheral
proeolia
proeolian
proeolous
proeocion
proeocive
proeollectivism
proeollectivist
proeollectivistic
proeolegate
proeolelial
proeombat
proeombination
proeomedy
proeommernoration
proeomment
proeocommerceal
proeommission
proeommittee
proeommunal
proeommunist
proeommunist
proeommunit
proeommunity
proeommutation
proeompensation
proeompetition
proeompribe
proeompromise
proeompulsion
proeomcentration
proeomcession
proeomciliation
proeomdennation
proeomfederationist
proeomference
proeomfession
proeomfessionist
proeomfiscation
proeomformity
proeomquest
proeomscription
proeomscriptive
proeomervation
proconservationist
proconsolidation
proconstitutional
proconstitutionalism
proconsul
proconsular
proconsularly
proconsulary
proconsul
proconsulate
proconsulates
proconsuls
proconsulship
proconsulships
proconsultation
procontinuation
proconvention
proconventional
proconviction
procoracoid
procoracoidal
procorporation
procosmetic
procosmopolitan
procotol
procotton
procourt
procrastinate
procrastinated
procrastinates
procrastinating
procrastinatively
procrastinativeness
procrastinator
procrastinators
procrastinatory
procreant
procreate
procreated
procreates
procreating
procreation
procreative
procreativity
procreativity
procreator
procreators
procreatory
procreatress
procreatrix
procremation
procritic
procritique
procrustean
procrustes
procrypsis
procryptic
procriptically
proctal
proctalgia
proctalg
proctatresia
proctatresy
proctectasia
proctectomy
procteurynter
proctitis
proctocele
proctoclysis
proctocolitis
proctocolonoscopy
proctocystoplasty
proctocystotomy
proctodaea
proctodaal
proctodaedea
proctodaedae
proctodaeme
proctodaeeums
proctodea
proctodeal
proctodeudea
proctodeum
proctodeums
proctodynia
proctoelytroplastic
proctologic
proctological
proctologies
proctologist
proctologists
proctology
proctoparalysis
proctoplastic
proctoplasty
proctoplegia
proctopolypus
proctoptoma
proctoptosis
proctor
proctorage
proctoral
proctored
proctorial
proctorially
proctorical
proctoring
proctorization
proctorize
proctorling
proctorrhagia
proctorrhaphy
proctorrhea
proctors
proctorship
proctoscope
proctoscopes
proctoscopic
proctoscopically
proctoscopies
proctoscopy
proctosigmoidectomy
proctosigmoiditis
proctospasm
proctostenosis
proctotomie
proctotomy
proctotresia
proctotrypid
proctotryptid
proctovalvotomy
proculcate
proculcation
procumbent
procurability
procurable
procurableness
procuracies
procuracy
procural
procurals
procurrence
produced
producent
producer
producers
producership
produces
producibility
producible
producibleness
producing
product
product's
producted
productibility
productible
productid
productile
production
production's
productional
productionist
productions
productive
productively
productiveness
productivity
productoid
productor
productory
productress
products
proecclesiastical
poeconomy
proeducation
proeducational
proegumenal
proelectric
proelectrical
proelectrification
proelectrocution
proelimination
proem
proembryo
proembryonic
proemial
proemium
proempire
profitability
profitable
profitableness
profitably
profited
profiteer
profiteer's
profiteered
profiteering
profiteers
profiter
profiterole
profiter
profiter
profitably
profitless
profitlessly
profitlessness
profitmonger
profitmongering
profitproof
profits
profitsharing
profitted
profitter
profitter's
profitters
proflated
proflavine
profligacies
proligacy
proligate
proligated
proligately
proligateness
proligates
proligation
prologger
profluence
proficient
profliuous
profuvium
profonde
proforeign
proforma
profound
profounder
profoundest
profoundly
profundness
profounds
profaternity
profere
profs
profugate
profulgent
profunda
profundae
profundities
profundity
profuse
profusely
profuseness
profuser
profusion
profusive
profusively
profusiveness
prog
progambling
progamete
progamic
proganosaur
progenerate
progeneration
progenerative
progenies
progenital
progenitive
progenitiveness
progenitor
progenitorial
progenitors
progenitorship
progenitress
progenitrix
progeniture
progenity
progeny
progeotropic
progeotropism
progeria
progermination
progestational
progestosterone
progestin
progestogen
programistic
programma
programmability
programmable
programmar
programmata
programmatic
programmatically
programmatist
programme
programmed
programmer
programmer's
programmers
programmes
programming
programmist
programming
programs
progravid
progrede
progrediency
progredient
progress
progressed
progresser
progresses
progressing
progression
progression's
progressional
progressionally
progressionary
progressionism
progressionist
progressions
progressism
progressist
progressive
progressively
progressiveness
progressives
progressivism
progressivist
progressivistic
progressivity
progressor
progs
proguardian
progymnosperm
progymnospermic
progymnospermous
progypsy
prohaste
prohein
prohibit
prohibita
prohibited
prohibiter
prohibiting
prohibition
prohibition's
prohibitionary
prohibitionism
prohibitionist
prohibitionists
prohibitions
prohibitive
prohibitively
prohibitiveness
prohibitor
prohibitorily
prohibitory
prohibits
prohibitum
proholiday
prohostility
prohuman
prohumanistic
prohydrotropic
prohydrotropism
proidealistic
proimmigration
proimmunity
proinclusion
proincrease
proindemnity
proindustrial
proindustrialisation
proindustrialization
proindustry
proinjunction
proinnovationist
proinquiry
proinsurance
prointegration
prointervention
proinvestment
proirrigation
proiacient
project
projectable
projected
projectedly
projectile
projectiles
projecting
projectingly
projection
projection's
projectional
projectionist
projectionists
projections
projective
projectively
projectivity
projector
projector's
projectors
projectress
projectrix
projects
projecture
projet
projets
projicience
projicient
projiciently
projournalistic
projudicial
prokaryote
proke
prokeimenon
proker
prokindergarten
proklausis
prolabium
prolabor
prolacrosse
prolactin
prolamin
prolamine
prolamins
proletarianly
proletarianness
proletarians
proletariat
proletariate
proletariatism
proletaries
proletarise
proletarised
proletarising
proletarization
proletarize
proletarized
proletarizing
proletary
prolectult
prolekult
proleucocyte
proleukocyte
prolia
prolicense
prolicidal
proicide
prolierant
prolierate
prolierated
prolierates
prolierating
prolieration
prolierations
prolierative
prolierous
prolierously
prolific
prolificacy
prolifical
proflically
proflicalness
proflicate
proflicated
proflicating
proflication
proflicity
proflicy
proflicness
proflicy
prolify
prolierous
promotrix
promovable
promoval
promove
promovent
prompt
promptbook
promptbooks
prompted
prompter
prompters
promptest
prompting
promptings
promptive
promptly
promptness
promptorium
promptress
prompts
promptuary
prompture
proms
promulgate
promulgated
promulgates
promulgating
promulgation
promulgations
promulgator
promulgators
promulgatory
promulge
promulged
promulger
promulges
promulging
promuscidate
promuscis
promycelia
promycelial
promycelium
promythic
pron
pronaoi
pronaos
pronate
proofers
proofful
proofing
proofless
prooflessly
prooflike
proofiness
proofread
proofreader
proofreaders
proofreading
proofreads
proofroom
proofs
proofy
prop
propacifism
propacifist
propadiene
propaedeutic
propaedeutical
propaedeutics
propagability
propagable
propagableness
propagand
propaganda
propagandic
propagandise
propagandised
propagandising
propagandism
propagandist
propagandistic
propagandistically
propagandists
propagandize
propagandized
propagandizes
propagandizing
propagate
propagated
propagates
propagating
propagation
propagational
propagations
propagative
propagator
propagators
propagatory
propagatress
propagines
propago
propagula
propagule
propagulla
propagulum
propale
propalinal
propane
propanedicarboxylic
propanedioic
propanediol
propanes
propanol
propanone
propapist
proparasceve
proparent
propargyl
propargylic
proparian
proparliamental
proparoxytone
proparoxytonic
proparticipation
propassion
propatagial
propatagian
propatagium
propatriotic
propatriotism
propatronage
propayment
propel
propellable
propellant
propellants
propelled
propellent
propeller
propeller's
propellers
propelling
propellor
propelment
propels
propend
propended
propendent
propending
propends
propene
propenes
propenoic
propenol
propenols
propense
propensely
propenseness
propension
propensities
propensitude
propensity
propenyl
propenyllic
proper
properdin
properer
properest
properispome
properispomenon
properitoneal
properly
properness
propers
propertied
properties
property
propertyless
propertyship
propessimism
propessimist
prophage
prophages
prophase
prophases
prophasic
prophasis
prophecies
prophecy
prophecy's
prophecymonger
propinquant
propinquity
propinquous
propio
propiolaldehyde
propiolate
propiolic
propionaldehyde
propionate
propione
propionibacteria
propionibacterium
propionic
propionitril
propionitrile
propionyl
propitiable
propitial
propitiate
propitiated
propitiates
propitiating
propitiatingly
propitiation
propitiative
propitiator
propitiatorily
propitiatory
propitious
propitiously
propitiousness
propjet
propjets
proplasm
proplasma
proplastic
proplastid
proless
propleural
propleuron
proplex
proplexus
propman
propmen
propmistress
propmistresses
propugnation
propugnator
propugner
propulsation
propulsatory
propulse
propulsion
propulsion's
propulsions
propulsity
propulsive
propulsor
propulsory
propunishment
propupa
propupal
propurchase
propwood
propygidium
propyl
propyla
propylacetic
propylaeac
propylaeum
propylalaeac
propylamine
propylation
propylene
propylhexedrine
propyllic
propylidene
propylite
propylitic
propylitization
propylon
propyls
propyne
propynoic
proquaestor
proracing
prorailroad
prorata
proratable
prorate
prorated
prorater
prorates
prorating
proration
prore
proreader
prorealism
prorealist
prorealistic
proreality
prorean
prorebate
prorebel
prorecall
proreciprocation
prorecognition
proreconciliation
proreector
proreectorate
proredemption
proreduction
proreferendum
proreform
proreformist
prorefugee
proregent
prorelease
proreptilian
proreption
prorepublican
proresearch
proreservationist
proresignation
prorestoration
prorestriction
proreversion
proreversionist
prorevolution
prorevolutionary
prorevolutionist
prorex
prorhinal
proritual
proritualistic
prorogate
prorogation
prorogations
prorogator
prorogue
prorogued
proroguer
proscribe
proscribed
proscriber
proscribes
proscribing
proscript
proscription
proscriptional
proscriptionist
proscriptions
proscriptive
proscriptively
proscriptiveness
proscutellar
proscutellum
proscynemata
prose
prosecery
prosecretin
prosect
prosected
prosecting
prosection
prosector
prosectorial
prosectorium
prosectorship
prosects
prosecutable
prosecute
prosecuted
prosecutes
prosecuting
prosecution
prosecutions
prosecutive
prosecutor
prosectorial
prosecutors
prosecutory
prosectrices
prosectrix
prosectrixes
prosed
proseity
proselenic
proselike
proselly
prosify
prosiliency
prosilient
prosiliently
prosilverite
prosily
prosimian
prosiness
prosing
prosingly
prosiphon
prosiphonal
prosiphonate
proish
prosist
prosit
proskomide
proslambanomenos
proslave
proslaver
proslavery
proslaveryism
proslyted
proslyting
prosneusis
proso
prosobranch
prosobranchiate
prosocele
proscoele
prosodal
prosode
prosodemic
prosodetic
prosodiac
prosodiacaal
prosodiacaally
prosodial
prosodically
prosodics
prosodies
prosodion
prosodist
prosodus
prosody
prosogaster
prosogyrate
prosogyrate
prosogyrous
prosoma
prosomal
prosomas
prosomatic
prosonomasia
prosopalgia
prosopalgie
prosopantritis
prospectsasia
prosophist
prosic
prosopically
prosopite
prosoplasia
prosopographical
prosopography
prosopolepsy
prosopon
prosoponeuralgia
prosopoplegia
prosopoplegic
prosopopecia
prosopopecial
prosoposchisis
prosopospasm
prosopotocia
prosopyl
prosopyle
prosorus
prosos
prospect
prospected
prospecting
prospection
prospection's
prospections
prospective
prospectively
prospectiveness
prospectives
prospectless
prospector
prospector's
prospectors
prostatomegaly
prostatometer
prostatomyomectomy
prostatorrhea
prostatorrhoea
prostatotomy
prostatovesical
prostatovesiculectomy
prostatovesiculitis
prostennate
prostematic
prostern
prosterna
prosternal
prosternate
prosternum
prosternums
prostheca
prosthenic
prostheses
prosthesis
prosthetic
prosthetically
prosthetics
prosthetist
prosthion
prosthionic
prosthodontia
prosthodontic
prosthodontics
prosthodontist
prostitute
prostituted
prostitutely
prostitutes
prostituting
prostitution
prostitutor
prostoa
prostomia
prostomial
prostomiate
prostomium
prostomiumia
prostoon
prostrate
prostrated
prostrates
prostrating
prostration
prostrations
prostrative
prostrator
prostrike
prostyle
prostyles
prostilos
prosubmission
prosubscription
prosubstantive
prosubstitution
prosuffrage
prosupervision
prosupport
prosurgical
prosurrender
prosy
prosylllogism
prosyndicalism
prosyndicalist
protactic
protactinium
protagon
protagonism
protagonist
protagonists
protalbumose
protamin
protamine
protamins
protandric
protandrism
protandrous
protandrously
protandy
protanomal
protanomalous
protanomaly
protanope
protanopia
protanopic
protargentum
protargin
protariff
protarsal
protarsus
protestatory
protested
protester
protesters
protesting
protestingly
protestive
protestor
protestor's
protestors
protests
protetarch
proteus
protevangel
protevangelion
protevangelium
protext
prothalamia
prothalamion
prothalamium
prothalamiumia
prothalli
prothallia
prothallial
prothallic
prothalline
prothallium
prothalloid
prothallus
protheatrical
protheca
protheses
prothesis
prothetic
prothetely
prothetic
prothetical
prothetically
prothmia
prothonotarial
prothonotariat
prothonotaries
prothonotary
prothonotaryship
prothoraces
prothoracic
prothorax
prothoraxes
prothrift
prothrombin
prothrombogen
prothyl
prothysteron
protid
protide
protiodide
protist
protista
protistan
protistic
protistological
protistologist
protistology
protiston
protists
protium
protiums
proto
protoactinium
protoalbumose
protoamphibian
protoanthropic
protoapostate
protoarchitect
protobacco
protobasidiomycetous
protobasidium
protobishop
protoblast
protoblastic
protoblattoïd
protobranchiate
protocalcium
protocanonical
protocaseose
protocatechualdehyde
protocatechuic
protoceratops
protocercal
protocerebral
protocerebrum
protochemist
protochemistry
protochloride
protochlorophyll
protochordate
protochromium
protochronicler
protocitizen
protoclastic
protocneme
protococcaceous
protococcal
protococcoid
protococcus
protocol
protocol’s
protocolar
protocolary
protocolary
protocole
protocoled
protocoled
protocoleopteran
protocoleopteron
protocoleopteron
protocoleopterous
protocologing
protocologist
protocologization
protocologize
protocolled
protocolling
protocols
protoconch
protoconchal
protocone
protoconid
protoconule
protoconulid
protocopper
protocorm
protodeacon
protoderm
protodermal
protodevil
protodonatan
protoconate
protodont
protodramatic
protodynastic
protoelastose
protoelastose
protoepiphyte
protoforaminifer
protoforester
protogalaxy
protogaster
protogelatose
protogenal
protogenes
protogenesis
protogenetic
protogenic
protogenist
protogine
protoglobulose
protogod
protogonous
protogospel
protograph
protogynous
protogyny
protohematoblast
protohemipteran
protohemipteron
protohemipterous
protoheresiarch
protohippus
protohistorian
protohistoric
protohistory
protohomo
protohuman
protohydrogen
protohymenopteran
protohymenopteron
protohymenopterous
protoiron
protolanguage
protoleration
protoleucocyte
protoleukocyte
protolithic
protoliturgic
protolog
protologist
protoloph
protoma
protomagister
protomagnate
protomagnesium
protomala
protomalal
protomalar
protomammal
protomammalian
protopathic
protopathy
protopatriarchal
protopatrician
protopattern
protopectin
protopectinase
protopepsia
protoperlarian
protophilosophic
protophloem
protophyll
protophyta
protophyte
protophytic
protopin
protopine
protoplanet
protoplasm
protoplasm
protoplasmal
protoplasmatic
protoplasmic
protoplasm
protoplasm
protoplasmatic
protoplasmic
protoplasm
toplast
protoplastic
protopod
protopodial
protopodite
protopoditic
protopods
protopoetic
protopope
protoporphyrin
protopragmatic
protopresbyter
protopresbytery
protoprism
protoproteose
protoprotostant
protopteran
protopteridophyte
protopterous
protopyramid
protore
protorebel
protoreligious
protoreptilian
protorosaur
protorosaurian
protorosauroid
protorthopteran
protorthopteron
protorthopterous
protosalt
protosaurian
protoscientific
protosilicate
protosilicon
protosinner
protosiphonaceous
protosocial
protosolution
protospasm
protospore
protostar
protostele
protostelic
protostome
protostrontium
protosulphate
protosulphide
protoxylon
prototaxites
prototheca
protothecal
 prototheme
protothere
prototheria
prototherian
prototitanium
prototraitor
prototroch
prototrochal
prototroph
prototrophic
prototrophy
prototypal
prototype
prototyped
prototypes
 prototypic
prototypical
prototypically
prototyping
prototypographer
prototyrant
protovanadium
protoveratrine
protovertebra
protovertebral
protovestiary
protovillain
protovum
protoxid
protoxide
protoxidize
protoxidized
protoxids
protoxylem
prototypes
protozoa
protozoacidal
protozoacide
protozoal
protozoan
protozoans
protozoea
protozoean
protozoiasis
protozoic
protozoological
protozoologist
protozoology
protozoon
protozoonal
protozooa
protracheate
protract
protracted
protractedly
protractedness
protractor
protractible
protractile
protractility
protraction
protractive
protractor
protractors
protracts
protrade
protradition
protraditional
protragedy
protragical
protragie
protransfer
protransluation
protransubstantiation
protravel
protreasurer
protreaty
proreptic
proreptical
proriane
protropical
protrudable
protrude
protruded
protrudent
protrudes
protruding
protrusible
protrusile
protrusility
protrusion
protrusion's
protrusions
protrusive
protrusively
protrusiveness
protthalli
protuberance
protuberances
protuberancies
protuberancy
protuberant
protuberantial
protuberantly
protuberantness
protuberate
protuberated
protuberating
protuberosity
protuberous
proturan
protutor
protutory
protyl
protyle
protyles
protylopus
protyls
protype
proud
prouder
proudest
proudful
proudhearted
proudish
proudishly
proudling
proudly
proudness
prouniformity
prounion
prounionism
prounionist
prouniversity
proustian
proustite
prov
provability
provable
provableness
provably
provaccination
provaccine
provaccinist
provand
provant
provascular
prove
provect
provection
proved
proveditor
proveditore
provedly
provedor
provedore
proven
provenance
provenances
provencal
provence
provend
provender
provene
provenience
provenient
provenly
provent
proventricular
proventricule
proventriculi
proventriculus
prover
proverb
proverb's
proverbed
proverbial
proverbialism
proverbialist
proverbialize
proverbially
proverbic
proverbing
proverbiologist
proverbiology
proverbize
proverblike
proverbs
provers
proves
proviant
provicar
provicariate
providable
providance
provide
provided
providence
provident
providential
providentialism
providentially
providently
providentness
provider
providers
provides
providing
providore
providoring
province
province's
provinces
provincial
provincialate
provincialism
provincialist
provincialities
provinciality
provincialization
provincialize
provincially
provincialship
provinciate
provinculum
provine
proving
provingly
proviral
provirus
proviruses
provision
provisional
provinciality
provisionally
provisionality
provisionalness
provisionary
provisioned
provisioner
provisioneress
provisioning
provisionless
provisionment
provisions
provisive
proviso
provisoes
provisor
provisorily
provisorship
provisory
provisos
provitamin
provivisection
provivisectionist
provocant
provocateur
provocateurs
provocation
provocational
provocations
provocative
provocatively
provocativeness
provocator
provocatory
provokable
provoke
provoked
provokee
provoker
provokers
provokes
provoking
provokingly
provokingness
provola
provolone
provolunteering
provoquant
provost
provostal
provostess
provostorial
provostry
provosts
provostship
prow
prow's
prowar
prowarden
prowaterpower
prowed
prower
prowersite
prowess
provesssed
provesses
provessful
prowest
prowfish
prowfishes
prowl
prowled
prowler
prowlers
prowling
prowlingly
prowls
prows
prox
proxemic
proxemics
proxenet
proxenete
proxenetism
proxenos
proxenus
proxeny
proxically
proxied
proxies
proxima
proximad
proximal
proximally
proximate
proximately
proximateness
proximation
proxime
proximities
proximity
proximo
proximobuccal
proximolabial
proximolinguial
proxy
proxying
proxyship
proxysm
prozone
prozoning
prozygapophysis
prozymite
prp
prs
prude
prudelike
prudely
prudence
prudences
prudent
prudential
prudentialism
prudentialist
psammitic
psammocarcinoma
psammocharid
psammogenous
psammolithic
psammologist
psamnology
psammoma
psammophile
psammophilous
psammophysical
psammomatous
psammositoma
psammosarcoma
psammosere
psammotherapy
psamnous
psarolite
pschent
pschents
psec
psellism
psellismus
pseand
psephism
psephisma
psephite
psephites
psephitic
psephological
psephologist
psephology
psephomancy
pseud
pseudaconin
pseudaconine
pseudaconitine
pseudacousis
pseudalveolar
pseudambulacral
pseudambulacrums
pseudamoeboid
pseudamphora
pseudamphorae
pseudandry
pseudangina
pseudankylosis
pseudaphia
pseudaposematic
pseudaposporous
pseudapospory
pseudapostle
pseudarachnidan
pseudarthrosis
pseudataxic
pseudatoll
pseudaxine
pseudaxis
pseudelephant
pseudelmith
pseudelytron
pseudembryo
pseudembryonic
pseudencephalic
pseudencephalus
pseudepigraph
pseudepigrapha
pseudepigraphal
pseudepigraphic
pseudepigraphical
pseudepigraphous
pseudepigraphy
pseudepiploic
pseudepiploon
pseudepiscopacy
pseudepiscopy
pseudepisematic
pseudesthesia
pseudhaemal
pseudhalteres
pseudhemal
pseudimaginal
pseudimago
pseudisodomic
pseudisodomum
pseudo
pseudoacaccia
pseudoacacia
pseudoacademic
pseudoacademical
pseudoacademically
pseudoaccidental
pseudoaccidentally
pseudoacid
pseudoaconitine
pseudoacquaintance
pseudoacromegaly
pseudoadiabatic
pseudoaesthetic
pseudoaesthetically
pseudoaffectionate
pseudoaffectionately
pseudoaggressive
pseudoaggressively
pseudoalkaloid
pseudoallegoristic
pseudoallele
pseudoallelic
pseudoallelism
pseudoalum
pseudoalveolar
pseudoamateurish
pseudoamateurishly
pseudoamateurism
pseudoamatorial
pseudoamatory
pseudoambidextrous
pseudoambidextrously
pseudoameboid
pseudoanachronistic
pseudoanachronistical
pseudoanaphylactic
pseudoanaphylaxis
pseudoanarchistic
pseudoanatomic
pseudoanatomical
pseudoanatomically
pseudoancestral
pseudoancestrally
pseudoanemia
pseudoanemic
pseudoangelic
pseudoangelical
pseudoangelically
pseudoangina
pseudoangular
pseudoangularly
pseudoankylosis
pseudoanthorine
pseudoanthropoid
pseudoanthropological
pseudoanthropology
pseudoantique
pseudoapoletic
pseudoapoletically
pseudoapoplectic
pseudoapoplectical
pseudoapoplectically
pseudoapoplectic
pseudoappendicitis
pseudoapplicative
pseudoapprehensive
pseudoapprehensively
pseudoaquatic
pseudoarchaic
pseudoarchaically
pseudoarchaism
pseudoarchaist
pseudoaristocratic
pseudoaristocratical
pseudoaristocratically
pseudoarthrosis
pseudoarticulate
pseudoarticulately
pseudoarticulation
pseudoartistic
pseudoartistically
pseudoasocial
pseudoascetic
pseudoascetical
pseudoascetically
pseudoassertive
pseudoassertively
pseudoassociational
pseudoastringent
pseudoasymmetric
pseudoasymmetrical
pseudoasymmetrically
pseudoasymmetry
pseudoataxia
pseudobacterium
pseudobankrupt
pseudobaptismal
pseudobasidium
pseudobchia
pseudobenefactory
pseudobenevolent
pseudobenevolently
pseudobenthonic
pseudobenthos
pseudobia
pseudobinary
pseudobiographic
pseudobiographical
pseudobiographically
pseudobiological
pseudobiologically
pseudoblepsia
pseudoblepsis
pseudobrachia
pseudobrachial
pseudobrachium
pseudobranch
pseudobranchia
pseudobranchial
pseudobranchiate
pseudobrookite
pseudobrotherly
pseudobulb
pseudobulbar
pseudobulbil
pseudobulbous
pseudobutylene
pseudocandid
pseudocandidly
pseudocapitulum
pseudocaptive
pseudocarbamide
pseudocarcinoid
pseudocarp
pseudocarpous
pseudocartilaginous
pseudocatholically
pseudocele
pseudocelian
pseudocelic
pseudocellus
pseudocelom
pseudocentric
pseudocentrous
pseudocentrum
pseudoceratitic
pseudocercaria
pseudocercariae
pseudocercerci
pseudocerci
pseudocercus
pseudoceryl
pseudocharitable
pseudocharitably
pseudochemical
pseudochina
pseudochromesthesia
pseudochromia
pseudochromosome
pseudochronism
pseudochronologist
pseudochrysalis
pseudochrysolite
pseudochylyous
pseudocirrhosis
pseudoclassic
pseudoclassical
pseudoclassicality
pseudoclassicism
pseudoclerical
pseudoclerically
pseudococytate
pseudocoel
pseudocoele
pseudocoelom
pseudocoelomate
pseudocoelome
pseudocollegiate
pseudocolumnella
pseudocolumnellar
pseudocommissural
pseudocommissure
pseudocommisural
pseudocompetitive
pseudocompetitively
pseudoconcha
pseudoconclude
pseudocone
pseudoconfessional
pseudoconglomerate
pseudoconglomeration
pseudoconhydrate
pseudoconjugation
pseudoconservative
pseudoconservatively
pseudoconernous
pseudo cortex
pseudo costa
pseudo cotyledon
pseudo cotyledonal
pseudo cotyledonary
pseudo courteous
pseudo courteously
pseudo critical
pseudocritically
pseudocroup
pseudocrystalline
pseudocubic
pseudocubical
pseudocubically
pseudocultivated
pseudocultural
pseudoculturally
pseudocumene
pseudocumenyl
pseudocumidine
pseudocumyl
pseudocyclosis
pseudocytesis
pseudocyphella
pseudocyst
pseudodeltidium
pseudodemencia
pseudodemocratic
pseudodemocratically
pseudoderm
pseudodermic
pseudodevice
pseudodiagnosis
pseudodiastolic
pseudodiphtheria
pseudodiphtherial
pseudodiphtheric
pseudodiphtheritic
pseudodipteral
pseudodipterally
pseudodipteros
pseudodivine
pseudodont
pseudodox
pseudodoxal
pseudodoxy
pseudodramatic
pseudodramatically
pseudodyssentery
pseudoeconomical
pseudoeconomically
pseudoeedema
pseudoeedemata
pseudoeeditorial
pseudoeeditorially
pseudoeeducational
pseudoeducationally
pseudelectoral
pseudelephant
pseuembryo
pseuembryonic
pseuemotional
pseuemotionally
pseuencephalic
pseuenthusiastic
pseuenthusiastically
pseuophilic
pseuopine
pseuoptimistic
pseuoptimistically
pseuoptical
pseuopportunity
pseuopportunist
pseuopportunistically
pseuopposite
pseudoparallel
pseudoparallely
pseuoparticipation
pseuoparticipating
pseuopportunist
pseuopportunity
pseuopportunistically
pseudoparallel
pseudoparallely
pseuopposite
pseudopostulation
pseudoposition
pseudopositionally
pseuopponency
pseuopportunism
pseuopportunistic
pseuopportunistically
pseuopposite
pseuorder
pseuordinary
pseuordering
pseuopaque

pseudofossil
pseudogalena
pseudoganglion
pseudogaseous
pseudogaster
pseudogastrula
pseudogenera
pseudogeneric
pseudogenerical
pseudogenerically
pseudogenerous
pseudogenteel
pseudogentlemanly
pseudogenus
pseudogenuses
pseudogeometry
pseudogermanic
pseudogeusia
pseudogeustia
pseudoglanders
pseudoglioma
pseudoglobulin
pseudoglottis
pseudograph
pseudographeme
pseudographer
pseudographia
pseudographize
pseudography
pseudograsserie
pseudogyne
pseudogynous
pseudogyny
pseudogyrate
pseudohallucination
pseudohallucinatory
pseudohalogen
pseudohemal
pseudohemophilia
pseudohermaphroditism
pseudohermaphrodite
pseudohermaphroditic
pseudohermaphroditism
pseudoheroic
pseudoheroical
pseudoheroically
pseudohexagonal
pseudohexagonally
pseudohistoric
pseudohistorical
pseudohistorically
pseudoholoptic
pseudohuman
pseudohumanistic
pseudohydrophobia
pseudohyoscyamine
pseudohypertrophic
pseudohypertrophy
pseudoidentical
pseudoirpartial
pseudoirpartially
pseudoindependent
pseudoindependently
pseudoinfluenza
pseudoinsane
pseudoinsoluble
pseudoinspirational
pseudoinspiring
pseudoinstruction
pseudoinstructions
pseudointellectual
pseudointellectually
pseudointellectuals
pseudointernational
pseudointernationalistic
pseudoinvalid
pseudoinvalidly
pseudoisatin
pseudoisem
pseudoisomer
pseudoisomeric
pseudoisomerism
pseudoisometric
pseudoisotropy
pseudojervine
pseudolabilia
pseudolabial
pseudolabium
pseudolalia
pseudolamellibranchiate
pseudolaminated
pseudolateral
pseudolatry
pseudolegal
pseudolegality
pseudolegendarious
pseudolegislative
pseudoleucite
pseudoleucocyte
pseudoleukemia
pseudoleukemic
pseudoliberal
pseudoliberally
pseudolichen
pseudolinguistic
pseudolinguistically
pseudoliterary
pseudolobar
pseudological
pseudologically
pseudologist
pseudologue
pseudology
pseudolumula
pseudolumulæ
pseudolumule
pseudomalachite
pseudomalaria
pseudomancy
pseudomania
pseudomaniac
pseudomantic
pseudomantist
pseudomascule
pseudomedical
pseudomedically
pseudomedical
pseudomedieval
pseudomedievally
pseudomelanosis
pseudomembrane
pseudomembranous
pseudomemory
pseudomeningitis
pseudomenstruation
pseudomer
pseudomeric
pseudomerism
pseudomery
pseudometallic
pseudometameric
pseudometamerism
pseudometric
pseudomica
pseudomilitarily
pseudomilitarist
pseudomilitaristic
pseudomilitary
pseudoministerial
pseudominy
pseudomiraculous
pseudomiraculously
pseudomitotic
pseudomnesia
pseudomodern
pseudomodest
pseudomodestly
pseudomonades
pseudomonas
pseudomonastic
pseudomonastical
pseudomonastically
pseudomonoclinic
pseudomonocotyledonous
pseudomonocyclic
pseudomonotropy
pseudomoral
pseudomoralistic
pseudomorph
pseudomorphia
pseudomorphic
pseudomorphine
pseudomorphism
pseudomorphose
pseudomorphosis
pseudomorphic
pseudomorula
pseudomorular
pseudomucin
pseudomucoid
pseudomultilocular
pseudomultiseptate
pseudomutuality
pseudomycelial
pseudomycelium
pseudomythical
pseudomythically
pseudonarcotic
pseudonational
pseudonationally
pseudonavicella
pseudonavicellar
pseudonavicula
pseudonaviculare
pseudoneuropter
pseudoneuropteran
pseudoneuropterous
pseudonitrol
pseudonitrole
pseudonitrosite
pseudonoble
pseudonuclein
pseudonucleolus
pseudonychium
pseudonym
pseudonymal
pseudonymic
pseudonymity
pseudonymous
pseudonymously
pseudonymousness
pseudonyms
pseudonymuncle
pseudonymuncle
pseudoobscura
pseudooccidental
pseudoofficial
pseudoofficially
pseudoorganic
pseudoorganically
pseudooriental
pseudoorientally
pseudoorthorhombic
pseudooval
pseudoovally
pseudopagan
pseudopapal
pseudopapaverine
pseudoparallel
pseudoparallelism
pseudoparalyses
pseudoparalysis
pseudoparalytic
pseudoparaplegia
pseudoparasitic
pseudoparasitism
pseudoparenchyma
pseudoparenchymatous
pseudoparenchyme
pseudoparesis
pseudoparthenogenesis
pseudopatriotic
pseudopatriotically
pseudopediform
pseudopelletierine
pseudopercular
pseudoperculate
pseudoperculum
pseudoperianth
pseudoperidium
pseudoperiodic
pseudoperipteral
pseudoperipterous
pseudopermanent
pseudoperoxide
pseudoperspective
pseudophallic
pseudophellandrene
pseudophenanthrene
pseudophenanthroline
pseudophenocyst
pseudophilanthropic
pseudophilanthropical
pseudophilanthropically
pseudosophistical
pseudophone
pseudopionnotes
pseudopious
pseudopiously
pseudoplasm
pseudoplasma
pseudoplasmodium
pseudopneumonia
pseudopod
pseudopodal
pseudopode
pseudopodia
pseudopodial
pseudopodian
pseudopodic
pseudopodiospore
pseudopodium
pseudopoetic
pseudopoetical
pseudopolitic
pseudopolitical
pseudopopular
pseudopore
pseudoporphyritic
pseudopregnancy
pseudopregnant
pseudopriestly
pseudoprimitive
pseudoprimitivism
pseudoprincely
pseudoprofessional
pseudoprofessorial
pseudoprophetic
pseudoprophetical
pseudoprosprous
pseudoprosprously
pseudoprostyle
pseudopsia
pseudopsychological
pseudoptics
pseudoptosis
pseudopupa
pseudopupal
pseudopurpurin
pseudopyriform
pseuquinoil
pseudorabies
pseudoracemic
pseudoracemism
pseudoramose
pseudoramulus
pseudorandom
pseudorealistic
pseudoreduction
pseudoreformatory
pseudoreformed
pseudoregal
pseudoregally
pseudoreligious
pseudoreligiously
pseudoreminiscence
pseudorepublican
pseudoresident
pseudoresidential
pseudorganic
pseudorheumatic
pseudorhombohedral
pseudoromantic
pseudoromantically
pseudoroyal
pseudoroyally
pseudorunic
pseudosacred
pseudosacrilegious
pseudosacrilegiously
pseudosalt
pseudosatirical
pseudosatirically
pseudoscalar
pseudoscarlatica
pseudoscholarly
pseudoscholastic
pseudoscholastically
pseudoscientific
pseudoscientifically
pseudoscientist
pseudoscinine
pseudosclerosis
pseudoscope
pseudoscopic
pseudoscopically
pseudoscopy
pseudoscorpion
pseudoscutum
pseudosemantic
pseudosemantically
pseudosemantic
pseudosensational
pseudoseptate
pseudoservile
pseudoservilely
pseudosessile
pseudosiphonal
pseudosiphonic
pseudosiphuncal
pseudoskeletal
pseudoskeleton
pseudoskink
pseudosmia
pseudosocial
pseudosocialistic
pseudosocially
pseudosolution
pseudosoph
pseudosopher
pseudosophical
pseudosophist
pseudosophy
pseudospectral
pseudosperm
pseudospermic
pseudospermium
pseudospermous
pseudosphere
pseudospherical
pseudospiracle
pseudospiritual
pseudospiritually
pseudosporangium
pseudospore
pseudosquamate
pseudostalactite
pseudostalactic
pseudostalactitical
pseudostalagmite
pseudostalagmitic
pseudostalagmitical
pseudostereoscope
pseudostereoscopic
pseudostereoscopism
pseudostigma
pseudostigmatic
pseudostoma
pseudostomatous
pseudostomous
pseudstratum
pseudostudious
pseudostudiously
pseudosubtle
pseudosubtly
pseudosuchian
pseudosuicidal
pseudosweating
pseudosyllogism
pseudosymmetric
pseudosymmetrical
pseudosymmetry
pseudosymptomatic
pseudosyphilis
pseudosyphilitic
pseudotabes
pseudotachylite
pseudotetanus
pseudotetragonal
pseudotetrameral
pseudotetramerous
pseudotrachea
pseudotracheal
pseudotribal
pseudotribally
pseudotributary
pseudotrimeral
pseudotrimero
pseudotripterale
pseudotropine
pseudotubercular
pseudotuberculosis
pseudotuberculous
pseudoturbinal
pseudotyphoid
pseu
doval
pseu
dovarian
pseu
dovaries
pseu
dovary
pseu
dovelar
pseu
dovelum
pseu
ventricle
pseu
viaduct
pseu
viperine
pseu
viperous
pseu
viperously
pseu
doviscosity
pseu
doviscous
pseu
vulcanic
pseu
vulcano
pseu
dovum
pseu
whorl
pseu
xanthine
pseu
yohimbine
pseu
zealot
pseu
zealous
pseu
zealously
pseu
zoa
pseu
zoogloec
pseu
zoological
psf
psha
pshawd
pshawing
pshaws
psi
psia
psid
psig
psilanthropic
psilanthropism
psilanthropist
psilanthropy
psilatro
psiloceran
psiloceratan
psiloceratid
psilocin
psilocybin
psiloi
psilology
psilomelane
psilomelanic
psilophyte
psiloses
psilosis
psilosopher
psilosophy
psilotaceous
psilothrum
psilotic
psis
psithurism
psittaceous
psittaceously
psittacine
psittacinite
psittacism
psittacistic
psittacomorphic
psittacosis
psittacotic
psize
psoadic
psoae
psoai
psoas
psoatic
psocid
psochilds
psocine
psoides
psomophagic
psomophagist
psomophagy
psychedelics
psychoometry
psyches
psychesthesia
psychesthetic
psychiasis
psychiater
psychiatria
psychiatric
psychiatrical
psychiatrically
psychiatries
psychiatrist
psychiatrist's
psychiatrists
psychiatrize
psychiatry
psychic
psychical
psychically
psychicism
psychicist
psychics
psychid
psyching
psychism
psychist
psycho
psychoacoustic
psychoacoustics
psychoactive
psychoanal
psychoanalyse
psychoanalyses
psychoanalysis
psychoanalyst
psychoanalysts
psychoanalytic
psychoanalytical
psychoanalytically
psychoanalyze
psychoanalyzed
psychoanalyzer
psychoanalyzes
psychoanalyzing
psychoautomatic
psychobiochemistry
psychobiologic
psychobiological
psychobiologist
psychobiology
psychobiotic
psychocatharsis
psychochemical
psychochemist
psychochemistry
psychoclinic
psychoclinical
psychoclinicist
psychodelic
psychodiagnosis
psychodiagnostic
psychodiagnostics
psychodispositional
psychodrama
psychodramas
psychodramatic
psychodynamic
psychodynamics
psychoeducational
psychoepilepsy
psychoethical
psychofugal
psychogalvanic
psychogalvanometer
psychogenesis
psychogenetic
psychogenetical
psychogenetically
psychogenetics
psychogenic
psychogenically
psychogeny
psychogeriatrics
psychognosis
psychognostic
psychognosy
psychogonic
psychogonical
psychogony
psychogram
psychograph
psychographer
psychographic
psychographically
psychographist
psychomorphism
psychomotility
psychomotor
psychon
psychoneural
psychoneurological
psychoneuroses
psychoneurosis
psychoneurotic
psychonomic
psychonomics
psychonomy
psychony
psychoorganic
psychopannychian
psychopannychism
psychopannychist
psychopannychistic
psychopannychy
psychopanycite
psychopath
psychopathia
psychopathic
psychopathically
psychopathies
psychopathist
psychopathologic
psychopathological
psychopathologically
psychopathologist
psychopathology
psychopaths
psychopathy
psychopetal
psychopharmacologic
psychopharmacological
psychopharmacology
psychophobia
psychophonasthenia
psychophysic
psychophysical
psychophysically
psychophysicist
psychophysics
psychophysiologic
psychophysiologic
psychophysiologically
psychophysiologist
psychophysicsology
psychoplasm
psychopomp
psychopompos
psychoprophylactic
psychoprophylaxis
psychouquackeries
psychorealism
psychorealist
psychorealistic
psychoreflex
psychorhythm
psychorhythmia
psychorhythmic
psychorhythmical
psychorhythmically
psychorrhagic
psychorrhagy
psychos
psychosarcous
psychosensorial
psychosensory
psychoses
psychosexual
psychosexualty
psychosexual
psychosis
psychosocial
psychosocially
psychosociology
psychosomatic
psychosomatics
psychosome
psychosophy
psychostasy
psychostatic
psychostatical
psychostatically
psychostatics
psychosurgeon
psychosurgery
psychosyntheses
psychosynthesis
psychosynthetic
psychotaxis
psychotechnical
psychotechnician
psychotechnics
ptarmic
ptarmical
ptarmigan
ptarmigans
pte
ptenoglossate
pteranodon
pteranodont
pteraspid
ptereal
pterergate
pteric
pterichthys
pterideous
pteridium
pteridography
pteridoid
pteridological
pteridologist
pteridology
pteridophilism
pteridophilist
pteridophilistic
pteridophyte
pteridophytes
pteridophytic
pteridophytous
pteridosperm
pteridospermaphytic
pteridospermous
pterin
pterins
pterion
pterina
pterobranchiate
pterocarpous
pteroclimorphic
pterodactyl
pterodactylian
pterodactylic
pterodactylid
pterodactyloid
pterodactylous
pterodactyls
pterographer
pterographic
pterographical
pterygomaxillary
pterygopalatal
pterygopalatine
pterygopharyngeal
pterygopharyngean
pterygophore
pterygopodium
pterygoquadrate
pterygosphenoid
pterygosphenous
pterygostaphyline
pterygote
pterygotous
pterygotrabecular
pteryla
pterylae
pterylographic
pterylographical
pterylography
pterylological
pterylography
pterylosis
pteryrygia
ptg
ptilinal
ptilinum
ptilopaedes
ptilopaedic
ptilosis
ptinid
ptinoid
ptisan
ptisans
ptochocracy
ptochogony
ptochology
ptolemaean
ptolemaic
ptolemaist
ptolemy
ptomain
ptomaine
ptomaines
ptomainic
ptomains
ptomatropine
ptoses
ptosis
puboischiac
puboischial
puboischiatic
puboprostatic
puborectalis
pubotibial
pubourethral
pubovesical
pubs
puca
puccini
pucciniaceous
puccinoid
puccoon
puccoons
puce
pucelage
puceillage
puceillas
pucelle
puiceron
puces
pucherapucherite
pucheropuck
pucka
puckball
pucker
puckerbush
puckereds
puckerel
puckerers
puckerier
puckeriest
puckering
puckermouth
puckers
puckery
puckfist
puckfoist
puckish
puckishly
puckishness
puckle
pucklike
puckling
pulasan
pulaskite
pulchrify
pulchritude
pulchritudinous
pule
puled
pulegol
pulegone
puler
pulers
pules
pulex
puleyn
pulgada
pulghere
puli
pulicarious
pulicat
pulicate
pulicene
pulcid
pulcidal
pulicide
pulicides
pulicine
pulicoid
pulicose
pulicosity
pulicous
pulligan
pullik
puling
pulingly
pulings
pullol
pullis
pullish
pulitzer
pullk
pullka
pull
pullable
pullaile
pullalue
pullback
pullbacks
pullboat
puldevil
puldoo
pulldown
pulldrive
pulled
pullen
pulier
pulieri
pulley
pullet
pulets
puley
puley's
puleyeless
puleys
pulli
pulicat
pulicate
pulling
pullings
pullisee
pullman
pullmans
pulllock
pullorum
pullout
pullouts
pullover
pulovers
pulls
pullshovel
pullulant
pullulate
pullulated
pullulating
pullulation
pullulative
pullus
pulment
pulmobranchia
pulmobranchial
pulmobranchiate
pulmocardiac
pulmocutaneous
pulmo gastric
pulmonometer
pulmonetry
pulmonal
pulmonar
pulmonaria
pulmonarian
pulmonary
pulmonate
pulmonated
pulmonectomies
pulmonectomy
pulmonic
pulmonical
pulmonifer
pulmoniferous
pulmonitis
pulmotor
pulmotors
pulmotracheal
pulmotracheary
pulmotracheate
pulp
pulpaceous
pulpal
pulpalgia
pulpally
pulpamenta
pulpar
pulpatone
pulpatoon
pulpboard
pulpectomy
pulped
pulpefaction
pulper
pulperia
pulpers
pulpier
pulpiest
pulpification
pulpified
pulpifier
pulpify
pulpifying
pulpily
pulpiness
pulping
pulpit
pulpit's
pulpital
pulpitarian
pulpiteer
pulpiter
pulpiful
pulpitic
pulpitical
pulpitically
pulpitis
pulpitish
pulpitism
pulpitize
pulpitless
pulpity
pulpitolatry
pulpitry
pulpits
pulpitum
pulpless
pulplike
pulpotomy
pulpous
pulpousness
puls
pulpstone
pulpwood
pulpwoods
pulpy
pulque
pulques
puls
pulsant
pulsar
pulsars
pulsatance
pulsate
pulsated
pulsates
pulsatile
pulsatility
pulsatilla
pulsating
pulsation
pulsational
pulsations
pulsative
pulsatively
pulsator
pulsators
pulsatory
pulse
pulsebeat
pulsed
pulsejet
pulsejets
pulseless
pulselessly
pulselessness
pulselike
pulsellum
pulsers
pulses
pulsidge
pulsific
pulsimeter
pulsing
pulsion
pulsions
pusive
pulsojet
pulsojets
pulsometer
pulsus
pultaceous
pulton
pultost
pultun
pulture
pulu
pulv
pulverable
pulverableness
pulveraceous
pulverant
pulverate
pulverated
pulverating
pulveration
pulvereous
pulverescent
pulverin
pulverine
pulverisable
pulverisation
pulverise
pulverised
pulveriser
pulverising
pulverizable
pulverizate
pulverization
pulverizator
pulverize
pulverized
pulverizer
pulverizes
pulverizing
pulverous
pulverulence
pulverulent
pulverulently
pulvic
pulvil
pulvilio
pulvillar
pulvilli
pulvilliform
pulvillus
pulvinar
pulvinarian
pulvinate
pulvinated
pulvinately
pulvation
pulvini
pulvinic
pulviniform
pulvinni
pulvino
pulvinule
pulvinulus
pulvinus
pulviplume
pulwar
puly
puma
pumas
pumelo
pumelos
pumex
pumicate
pumatic
pumaticing
pumice
pungapung
pungar
pungence
pungencies
pungency
pungent
pungently
punger
pungey
pungi
pungie
pungies
pungle
pungled
pungs
pungy
pungyi
punic
punicaceous
punicceans
punicial
punicin
punicine
punier
puniest
punify
puniness
puninesses
punish
punishability
punishable
punishableness
punishably
punished
punisher
punishers
punishes
punishing
punishment
punishment's
punishmentproof
punishments
punition
punitional
punitionally
punitions
punitive
punitively
pupiferous
pupiform
pupigenous
pupigerous
pupil
pupil's
pupilability
pupilage
pupilages
pupilar
pupilarity
pupilary
pupilate
pupildom
pupiled
pupilize
puppetage
pupilar
pupillarity
pupillary
pupillate
pupilled
pupilless
pupillize
pupillometer
pupillometries
pupillometry
pupillonian
pupilloscope
pupilloscopic
pupilloscopy
pupilmonger
pupils
pupipara
pupiparous
pupivora
pupivore
pupivorous
puplike
pupoid
pupped
puppet
puppet's
puppethed
puppethed
puppethood
puppetish
puppetism
puppetize
puppetlike
puppetly
puppetman
puppetmaster
puppetries
puppetry
puppets
puppied
puppies
puppify
puppily
puppings
puppy
puppy's
puppydom
puppydoms
puppyfeet
puppyfish
puppyfoot
puppyhood
puppying
puppyish
puppyism
puppylike
puppysnatch
pups
pupulo
pupunha
pur
purana
puranas
puranic
puraque
purau
purbeck
purbblind
purbblindly
purbblindness
purchasability
purchasable
purchase
purchaseable
purchased
purchaser
purchasers
pussiness
pussley
pussleys
pusslies
pusslike
pussly
pussy
pussycat
pussycats
pussyfoot
pussyfooted
pussyfooter
pussyfooting
pussyfootism
pussyfoots
pussytoe
pustulant
pustular
pustulate
pustulated
pustulating
pustulation
pustulatous
pustule
pustuled
pustulelike
pustules
pustuliform
pustulose
pustulous
puszta
put
putage
putain
putamen
putamina
putaminous
putanism
putation
putationary
putative
putatively
putback
putchen
putcher
putchuk
putdown
putdowns
pycnogonidium
pycnogonoid
pycnometer
pycnometochia
pycnometochic
pycnomorphic
pycnomorphous
pycnonotine
pycnosis
pycnospore
pycnosporic
pycnostyle
pycnotic
pye
pyelectasis
pyelic
pyelitic
pyelitis
pyelitises
pyelocystitis
pyelogram
pyelograph
pyelographic
pyelography
pyelolithotomy
pyelometry
pyelonephritic
pyelonephritis
pyelonephrosis
pyeloplasty
pyeloscopy
pyelotomy
pyeloureterogram
pyemesis
pyemia
pyemias
pyemic
pyengadu
pyes
pygal
pygalgia
pygarg
pygargus
pygidia
pygidial
pygidid
pygidium
pygigidia
pygmaean
pygmalion
pygmalionism
pygmean
pygmies
pygmoid
pygmy
pygmy's
pygmydom
pygmyhood
pygmyish
pygmyism
pygmyisms
pygmyship
pygmyweed
pygobranchiate
pygofer
pygopagus
pygopod
pygopodine
pygopodous
pygostyle
pygostyled
pygostyloous
pyic
pyin
pyins
pyjama
pyjamaed
pyjamas
pyke
pyknatom
pyknic
pyknics
pyknotic
pyla
pylagore
pylangial
pylangium
pylar
pylephlebitic
pylephlebitis
pylethrombophlebitis
pylethrombosis
pylic
pylon
pylons
pylormalgia
pylorectomies
pylorectomy
pylori
pyloric
pyloristenosis
pyloritis
pylorocleisis
pylorodilator
pylorogastrectomy
pyloroplasty
pyloroptosis
pyloroschesis
pyloroscirrhus
pyloroscopy
pylorospasm
pylorostenosis
pylorostomy
pylorous
pylorouses
pylorus
pyloruses
pynot
pynung
pyobacillosis
pyocele
pyoctanin
pyoctanine
pyocyanase
pyocyanin
pyocyst
pyocyte
pyoderma
pyodermas
pyodermatitis
pyodermatosis
pyoderma
pyodermic
pyogenesis
pyogenetic
pyogenic
pyogenin
pyogenous
pyohemothorax
pyoid
pyolabyrinthitis
pyolymph
pyolymph
pyometry
pyonephritis
pyonephrosis
pyonephrotic
pyongyang
pyopericarditis
pyopericardium
pyoperitoneum
pyoperitonitis
pyophagia
pyophthalmia
pyophthalmitis
pyophylactic
pyoplania
pyopneumocholecystitis
pyopneumocyst
pyopneumopericardium
pyopneumoperitoneum
pyopneumoperitonitis
pyopneumothorax
pyopoiesis
pyopoietic
pyoptysis
pyorrhea
pyorrheal
pyorrheas
pyorrhelic
pyorrhoea
pyorrhoeal
pyorrhoeic
pyosalpingitis
pyosalpinx
pyosepticemia
pyosepticemic
pyoses
pyosis
pyospermia
pyotherapy
pyothorax
pyotoxinemia
pyoureter
pyovesiculosis
pyoxanthose
pyr
pyracanth
pyracantha
pyracene
pyragravure
pyral
pyrargyrite
pyrazin
pyrazine
pyrazole
pyrazoline
pyrazolone
pyrazolyl
pyre
pyrectic
pyrena
pyrene
pyrenean
pyrenees
pyrenematous
pyrenes
pyrenic
pyrenin
pyrenocarp
pyrenocarpic
pyrenocarpous
pyrenodean
pyrenodeine
pyrenodeous
pyrenoid
pyrenoids
pyrenolichen
pyrenomycete
pyrenomycetous
pyres
pyrethrin
pyrethrine
pyrethroid
pyrethrum
pyretic
pyreticosis
pyretogenesis
pyretogenetic
pyretogenic
pyretogenous
pyretography
pyretologist
pyretology
pyretolysis
pyretotherapy
pyrewinkes
pyrex
pyrexia
pyrexial
pyrexias
pyrexic
pyrexical
pyrgeometer
pyrgocephalic
pyrgocephaly
pyrgoidal
pyrgologist
pyrgom
pyrheliometer
pyrhiometric
pyrhiometry
pyrheliophor
pyribole
pyric
pyridazine
pyridic
pyridine
pyridines
pyridinium
pyridinize
pyridone
pyridoxal
pyridoxamine
pyridoxin
pyridoxine
pyridyl
pyriform
pyriformis
pyrimethamine
pyrimidin
pyrimidine
pyrimidyl
pyritaceous
pyrite
pyrites
pyritic
pyritical
pyritiferous
pyritization
pyritize
pyritohedral
pyritohedron
pyritoid
pyritology
pyritous
pyro
pyroacetic
pyroacid
pyroantimonate
pyroantimonic
pyroarsenate
pyroarsenic
pyroarsenious
pyroarsenite
pyroballogy
pyrobelonite
pyrobi
pyrobitemen
pyrobituminous
pyroborate
pyroboric
pyrocatechin
pyrocatechinol
pyrocatechol
pyrocatechuic
pyrocellulose
pyrochemical
pyrochemically
pyrochlore
pyrochromate
pyrochromic
pyrocinchonic
pyrocitric
pyroclastic
pyrocoll
pyrocollodion
pyrocomenic
pyrocondensation
pyroconductivity
pyrocotton
pyocrystalline
pyroelectric
pyroelectricity
pyrogallate
pyrogallic
pyrogallol
pyrogen
pyrogenation
pyrogenesia
pyrogenesis
pyrogenetic
pyrogenetically
pyrogenic
pyrogenicity
pyrogenous
pyrogens
pyrogentic
pyroglazer
pyroglutamic
pyrognomic
pyrognostic
pyrognostics
pyrograph
pyrographer
pyrographic
pyrographies
pyrography
pyrogravure
pyroguaiacin
pyroheliometer
pyroid
pyrola
pyrolaceous
pyrolas
pyrolater
pyrolatry
pyroligneous
pyrolignic
pyrolignite
pyrolignous
pyroligneous
pyroline
pyrolite
pyrollogical
pyrological
pyrologies
pyrologist
pyrology
pyrolusite
pyrolysate
pyrolyse
pyrolysis
pyrolytic
pyrolytically
pyrolyzable
pyrolyzate
pyrolyze
pyrolyzed
pyrolyzer
pyrolyzes
pyrolyzing
pyromachy
pyromagnetic
pyromancer
pyromancy
pyromania
pyromaniac
pyromaniacal
pyromaniacs
pyromantic
pyromeconic
pyromellitic
pyrometallurgical
pyrometallurgy
pyrometamorphic
pyrometamorphism
pyrometer
pyrometers
pyrometric
pyrometrical
pyrometrically
pyrometry
pyromorphism
pyromorphite
pyromorphous
pyromotor
pyromucate
pyromucic
pyromucyl
pyronaphtha
pyrone
pyrones
pyronine
pyronines
pyronophilic
pyronomics
pyronyxis
pyrope
pyropen
pyropes
pyrophanite
pyrophanous
pyrophile
pyrophilia
pyrophilous
pyrophobia
pyrophone
pyrophoric
pyrophorous
pyrophorus
pyrophosphate
pyrophosphatic
pyrophosphoric
pyrophosphorous
pyrophotograph
pyrophotography
pyrophotometer
pyrophyllite
pyrophysalite
pyropuncture
pyropus
pyroracemate
pyroracemic
pyroscope
pyroscopy
pyrosis
pyrosises
pyrosmalite
pyrosome
pyrosomoid
pyosphere
pyrostat
pyrostats
pyrostereotype
pyrostilpnite
pyrosulfate
pyrosulfuric
pyrosulphate
pyrosulphite
pyrosulphuric
pyrosulphuric
pyrotantalate
pyrotartraric
pyrotartrate
pyrotechnian
pyrotechnic
pyrotechnical
pyrotechnically
pyrotechnician
pyrotechnics
pyrotechnist
pyrotechny
pyroterebic
pyrotheology
pyrotic
pyrotoxin
pyrotartric
pyrotartric
pyrouric
pyrovanadate
pyrovanadic
cyanolheidic
dysovanadimetric

dysovanadic
pyruline
pyruloid
pyrus
pyruvaldehyde
pyruvate
pyruvates
pyruvic
pyruvil
pyruvyl
pyruwl
pyrylium
pythagoras
pythagorean
pythagoreans
pythagoric
pythagorize
pythia
pythiad
pythian
pythias
pythogenesis
pythagentic
pythogenic
pythogenous
python
pythoness
pythonic
pythonical
pythonid
pythoniform
pythonine
pythonism
pythonissa
pythonist
pythonize
pythonoid
pythonomorphic
pythonomorphous
pythons
pyuria
pyurias
pyvuril
pyx
pyxes
pyxidate
pyxides
pyxidia
quadragintesimal
quadral
quadrangle
quadrangled
quadrangles
quadrangular
quadrangularly
quadrangularness
quadrangulate
quadranguled
quadrans
quadrant
quadrant's
quadrantal
quadrantes
quadrantile
quadrantlike
quadrantly
quadrants
quadruphonics
quadraphonic
quadraphonics
quadrat
quadrate
quadrated
quadrateness
quadrates
quadratic
quadratical
quadratically
quadratics
quadratiferous
quadrating
quadratojugal
quadratomandibular
quadrator
quadratosquamosal
quadratrix
quadrats
quadratum
quadrature
quadrature's
quadratures
quadratus
quadrauricular
quadrel
quadrella
quadrennia
quadrennial
quadrennially
quadrennials
quadrennium
quadrenniums
quadriad
quadrialate
quadriannulate
quadriarticulate
quadriarticulated
quadribasic
quadric
quadricapsular
quadricapsulate
quadricarinate
quadricellular
quadricentennial
quadricentennials
quadriceps
quadricicepses
quadrichord
quadriciliate
quadricinium
quadricipital
quadricone
quadricorn
quadricornous
quadricostate
quadricotyledonous
quadricovariant
quadricrescentic
quadricrescentoid
quadrics
quadricuspid
quadricuspidal
quadricuspidate
quadricycle
quadricycler
quadricyclist
quadridentate
quadridentated
quadriverivative
quadridigitate
quadriennial
quadriennium
quadrienniumutile
quadrifarious
quadrifariously
quadrifid
quadrifilar
quadrifocal
quadrifoil
quadrifoliate
quadrifoliolate
quadrifolious
quadrifolium
quadriformal
quadrifrons
quadrifrontal
quadrifurcate
quadrifurcated
quadrifurcation
quadriga
quadrigabled
quadrigae
quadrigamist
quadrigate
quadrigati
quadrigatus
quadrigeminal
quadrigeminate
quadrigeminous
quadrigeminum
quadrigenarious
quadriglandular
quadrihybrid
quadrijugal
quadrijugate
quadrijugous
quadrilaminar
quadrilaminat
quadrilateral
quadrilaterally
quadrilaterality
quadrilaterals
quadrilingular
quadriliteral
quadiral
quadrilled
quadrilles
quadrimiling
quadrimillion
quadrimillion
quadrimillionth
quadrimillionths
quadrilobate
quadrilobed
quadrilocular
quadriloculate
quadrilogue
quadriquadric
quadrimembral
quadrimetallic
quadrimolecular
quadriminum
quadrin
quadrine
quadrinodal
quadrinominal
quadrinomical
quadrinominal
quadrinucleate
quadrioxalate
quadriporous
quadripartite
quadripartitely
quadripartment
quadripartite
quadripennate
quadriphonic
quadriphosphate
quadriphyllous
quadripinnate
quadriplanar
quadriplegia
quadriplegic
quadriplicate
quadripliicate
quadripolar
quadripole
quadriportico
quadriporticus
quadriportunary
quadriquadric
quadriradiate
quadrireme
quadrisect
quadrisected
quadrisection
quadrisiporate
quadrisepitate
quadriserial
quadrisetose
quadrispiral
quadristearate
quadrisulcate
quadrisulcated
quadrisulphide
quadrisyllabic
quadrisyllabical
quadrisyllable
quadrisyllabous
quadriternate
quadriti
quadritubercular
quadrituberculate
quadriurate
quadrvivalence
quadrvalency
quadrvalent
quadrvalemently
quadrvalyve
quadrvalvular
quadrvivia
quadrvivial
quadrvivious
quadrvivium
quadrvivoltine
quadroon
quadroons
quadrophonics
quadrual
quadrum
quadrumana
quadrumanal
quadrumane
quadrumanous
quadrumvir
quadrumvirate
quadruped
quadrupedal
quadrupedan
quadrupedant
quadrupedantic
quadrupedantical
quadrupedate
quadrupedation
quadrupedism
quadrupedous
quadrupeds
quadruplane
quadruplate
quadruplator
quadruple
quadrupled
quadrupleness
quadruples
quadruplet
quadruplets
quadruplex
quadruplicate
quadruplicated
quadruplicates
quadruplicating
quadruplication
quadruplications
quadruplicature
quadruplicity
quadrupling
quadruply
quadrupole
quads
quae
quaedam
quaere
quaeres
quaesita
quaesitum
quaestio
quaestiones
quaestor
quaestorial
quaestorian
quaestors
quaestorship
quaestuary
quaff
quaffed
quaffer
quaffers
quaffing
quaffingly
quaffs
quag
quagga
quaggas
quaggier
quaggiest
quagginess
quaggle
quaggy
quagmire
quagmire's
quarrelers
quarrelet
quarreling
quarrelingly
quarrelled
quarreler
quarrellers
quarrelling
quarrellingly
quarrellous
quarrelous
quarrelously
quarrelproof
quarrels
quarrelsome
quarrelsomely
quarrelsomeness
quarriable
quarrian
quarried
quarrier
quarriers
quaries
quarrion
quarrone
quarry
quarry's
quarryable
quarrying
quarryman
quarrymen
quarrystone
quarsome
quart
quarta
quartan
quartane
quartano
quartans
quartation
quartaut
quarte
quartenylic
quarter
quarterage
quarterback
quarterbacks
quarterdeck
quartinho
quartiparous
quarto
quartodecimanism
quartole
quartos
quarts
quartus
quartz
quartzes
quartzic
quartziferous
quartzite
quartzitic
quartzless
quartzoid
quartzose
quartzous
quartzy
quasar
quasars
quash
quashed
quashee
quasher
quashers
quashes
quashey
quashing
quashy
quasi
quasicontinuous
quasijudicial
quasimodo
quasiorder
quasiparticle
quasiperiodic
quasistationary
quaskies
quasky
quasquicentennial
quass
quassation
quassative
quasses
quassia
quassias
quassiin
quassin
quassins
quat
quata
quatch
quate
quatenus
quatercentenary
quaterion
quatern
quaternal
quaternarian
quaternaries
quaternarius
quaternary
quaternate
quaternion
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
quaternity
quateron
quaters
quaternionists
quaternionic
quaternionist
quaternitarian
quaternities
queasiest
queasily
queasiness
queasom
queasy
queazen
queazier
queaziest
queazy
quebec
quebrachamine
quebrachine
quebrachite
quebrachitol
quebracho
quebrada
quebradilla
quebrith
quechua
quedful
quedly
quedness
quedship
queechy
queen
queen's
queencake
queencraft
queencup
queendom
queened
queenfish
queenfishes
queenhood
queening
queenite
queenless
queenlet
queenlier
queenliest
queenlike
queenliness
queenly
queenright
queenroot
queens
queensberries
queensberry
quinonic
quinonimin
quinonimine
quinonization
quinonize
quinonoid
quinonyl
quinopyrin
quinotannic
quinotoxine
quinova
quinovatannic
quinovate
quinovic
quinovin
quinovose
quinoxalin
quinoxaline
quinoxalyl
quinoyl
quinquagenarian
quinquagenaries
quinquagenary
quinquagesima
quinquagesimal
quinquangle
quinquarticular
quinquecapsular
quinquecentenary
quinquecostate
quinquedentate
quinquedentated
quinquefarious
quinquefid
quinquefoil
quinquefoliate
quinquefoliated
quinquefoliolate
quinquegrade
quinquejugous
quinquelateral
quinquilateral
quinquelobate
quinquelobated
quinquelobed
quinquelocular
quinquelocular
quinquenary
quintillionths
quintin
quintins
quintiped
quinto
quintocubital
quintocubitalism
quintole
quinton
quintons
quintroon
quints
quintuple
quintupled
quintuples
quintuplet
quintuplets
quintuplicate
quintuplicated
quintuplicates
quintuplicating
quintuplication
quintunlervered
quintupling
quintuplrribbed
quintus
quinua
quinuclidine
quinylie
quinyl
quinzaine
quinze
quinzieme
quip
quipful
quipo
quippe
quipped
quipper
quipping
quippish
quippishness
quippu
quippus
quippy
quips
quipsome
quipsomeness
quixotize
quixotries
quixotry
quiz
quizmaster
quizzability
quizzable
quizzacious
quizzatorial
quizzed
quizzee
quizzer
quizzers
quizzery
quizzes
quizzical
quizzicality
quizzically
quizzicalness
quizzification
quizzify
quizziness
quizzing
quizzingly
quizzish
quizzism
quizzity
quizzy
quo
quo’
quoad
quod
quodded
quoddies
quodding
quoddity
quodlibet
quodlibetal
quodlibetarian
quodlibetary
quodlibetic
quodlibetical
quodlibetically
quodlibetz
quodling
quods
quohog
quohogs
quoilers
quoin
quoined
quoining
quoins
quoit
quoiried
quoirier
quoiring
quoilike
quoirs
quokka
quokkas
quominus
quomodo
quomodos
quondam
quondamly
quondamship
quoniam
quonking
quonset
quop
quor
quorum
quorums
quos
quot
quota
quota's
quotability
quotable
quotableness
quotably
quotas
quotation
quotation's
quotational
quotationally
quotationist
quotations
quotative
quote
quoted
quotee
quoteless
quotenial
quoter
rabbani
rabbanite
rabbet
rabbeted
rabbeting
rabbets
rabi
rabbies
rabin
rabbinate
rabbinate
rabbiness
rabbinstic
rabbinitical
rabbinate
rabbinitic
rabbinate
rabbins
rabinship
rabbis
rabbish
rabbiship
rabbit
rabbit's
rabbitberries
rabbitberry
rabbited
rabbiter
rabiters
rabbiteye
rabbitfish
rabbitfishes
rabbithearted
rabbiting
rabbitlike
rabbitmouth
rabbitoh
rabbitproof
rabbits
rabbits
rabbitskin
rabbitweed
rabbitwise
rabbitwood
rabbity
rabble
rabbled
rabblelike
rabblement
rabbleproof
rabbler
rabblers
rabbles
rabblesome
rabbling
rabboni
rabbonim
rabbonis
rabdomancy
rabelais
rabelaisian
rabfak
rabi
rabiator
rabic
rabid
rabidities
rabidity
rabidly
rabidness
rabies
rabietic
rabific
rabiform
rabigenic
rabinet
rabious
rabirubia
rabitic
rablin
rabot
rabulistic
rabulous
racahout
racallable
racche
raccoon
raccoon's
raccoonberry

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 7806
raccoons
raccroc
race
raceabout
racebrood
racecard
racecourse
racecourses
reed
racegoer
racegoing
racehorse
racehorses
racelike
raceline
racemase
racemate
racemates
racemation
raceme
racemed
racemes
racemic
racemiferous
racemiform
racemism
racemisms
racemization
racemize
racemized
racemizes
racemizing
racemocarbonate
racemocarbonic
racemoid
racemomethylate
racemose
racemosely
racemous
racemously
racemule
racemulose
raceplate
racer
racers
racerunner
races
racetrack
racetracker
racetracks
racette
raceway
raceways
rach
rache
raches
rachet
rachets
rachial
rachialgia
rachialgic
rachianalgesia
rachianesthesia
rachicentesis
rachides
rachidial
rachidian
rachiform
rachiglossate
rachigraph
rachilla
rachillae
rachiocentesis
rachiococainize
rachiocyphosis
rachiodont
rachiodynia
rachiometer
rachiomyelitis
rachioparalysis
rachioplegia
rachioscoliosis
rachiotome
rachiotomy
rachipagus
rachis
rachischisis
rachises
rachitic
rachitides
rachitis
rachitism
rachitogenic
rachitome
rachitomous
rachitomy
raddles
raddling
raddlings
radeau
radeaux
radectomieseph
radectomy
radeur
radevore
radford
radiability
radiable
radiably
radiac
radial
radiale
radialia
radialis
radiality
radialization
radialize
radially
radials
radian
radiance
radiances
radiancies
radiancy
radians
radiant
radiantly
radiantness
radiants
radiary
radiata
radiate
radiated
radiately
radiateness
radiates
radiatics
radiatiform
radiating
radiation
radiational
radiationless
radiations
radiative
radiatopatent
radiatoporose
radiatoporous
radiator
radiator's
radiators
radiatory
radiatostriate
radiatosulcate
radiature
radius
radical
radicalism
radicality
radicalization
radicalize
radicalized
radicalizes
radicalizing
radically
radicalness
radicals
radicand
radicands
radicant
radicate
radicated
radicates
radicating
radication
radicel
radicels
radices
radicicola
radicicolous
radiciferous
radiciflorous
radiciform
radicivorous
radicle
radicles
radicolous
radicose
radicula
radicular
radicule
radiculectomy
radiculitis
radiculose
radii
radiectomy
radian
radians
radiesthesia
radiiferous
radii
radio
radioacoustics
radioactinium
radioactivate
radioactivated
radioactivating
radioactive
radioactively
radioactivities
radioactivity
radioamplifier
radioanaphylaxis
radioastronomy
radioautograph
radioautographic
radioautography
radiocipital
radiobiologic
radiobiological
radiobiologically
radiobiologist
radiobiology
radiobroadcast
radiobroadcasted
radiobroadcaster
radiobroadcasters
radiobroadcasting
radiocast
radiocaster
radiocasting
radiochemical
radiochemically
radiochemist
radiochemistry
radiocinematograph
radiocommunication
radioconductor
radiocopper
radiodating
radiode
radiodermatitis
radiodetector
radiodiagnoses
radiodiagnosis
radiodigital
radiodontia
radiodontic
radiodontics
radiodontist
radiodynamic
radiodynamics
radioecological
radioecologist
radioecology
radioed
radioelement
radiofrequency
radiogenic
radiogoniometer
radiogoniometric
radiogoniometry
radiogram
radiograms
radiograph
radiographer
radiographic
radiographical
radiographically
radiographies
radiographs
radiography
radiohumeral
radioiodine
radioiron
radioisotope
radioisotopes
radioisotopic
radioisotopically
radioisotope
radiolead
radiolite
radiolitic
radiolocation
radiolocator
radiolocators
radiologic
radiological
radiologically
radiologies
radiologist
radiologists
radiology
radiolucence
radiolucencies
radiolucency
radiolucent
radioluminescence
radioluminescent
radiolysis
radiolytic
radioman
radiomedical
radiomen
radiometallography
radiometeorograph
radiometer
radiometers
radiometric
radiometrically
radiometries
radiometry
radiOMICrometer
radiomicrophone
radiomimetic
radiomobile
radiomovies
radiomuscular
radion
radioneurosis
radioneuritis
radionic
radionics
radionuclide
radiopacify
radiopalmar
radiopaque
radioparent
radiopathology
radiopelvimetry
radiophare
radiopharmaceutical
radiophone
radiophones
radiophonie
radiophony
radiophosphorus
radiophoto
radiophotogram
radiophotograph
radiophotography
radiophysics
radiopotassium
radiopraxis
radioprotection
radioprotective
radiorays
radios
radioscope
radioscopic
radioscopic
radioscopy
radiosensibility
radiosensitive
radiosensitivities
radiosensitivity
radiosodium
radiosonde
radiosondes
radiosonic
radiostereoscopy
radiosterilization
radiosterilize
radiosterilized
radiostrontium
radiosurgeries
radiosurgery
radiosurgical
radiosymmetrical
radiotechnology
radiotelegram
radiotelegraph
radiotelegrapher
radiotelegraphic
radiotelegraphically
radiotelegraphs
radiotelegraphy
radiotelemetric
raftlike
raftman
rafts
raftsman
raftsmen
rafty
rag
rag's
raga
ragabash
ragabash
ragamuffin
ragamuffinism
ragamuffinly
ragamuffins
ragas
ragazze
ragbag
ragbags
ragbolt
rage
raged
ragee
ragees
rageful
ragefully
rageless
rageous
rageously
rageousness
rageproof
rager
ragery
rages
ragesome
ragfish
ragfishes
ragged
raggeder
raggedest
raggedly
raggedness
raggedy
raggee
ragger
raggery
raggety
raggies
rally
rallycross
rallye
rallyes
rallying
rallyings
rallyist
rallyists
rallymaster
ralph
rals
ralstonite
ram
ram's
ramack
ramada
ramadan
ramage
ramaism
ramal
ramanas
ramarama
ramark
ramass
ramate
rambarre
rambeh
ramberge
rambla
ramble
rambled
rambler
ramblers
rambles
rambling
ramblingly
ramblingness
ramblings
rambong
rambooze
rambouillet
rambunctious
rambunctiously
rambunctiousness
rambure
rambutan
rambutans
ramdohrite
ramsonsamstam
ramstead
ramta
ramtil
ramtils
ramular
ramule
ramuliferous
ramulose
ramulous
ramulus
ramus
ramuscule
ramverse
ran
rana
ranal
ranaria
ranarian
ranarium
rance
rancel
rancellor
rancelman
rancelmen
rancer
rances
rancescent
ranch
ranche
ranched
rancher
rancheria
rancherie
ranchero
rancheros
ranchers
ranches
ranching
ranchless
ranchlike
ranchman
ranchmen
rancho
ranchos
ranchwoman
rancid
rapes
rapeseed
rapeseeds
rapeye
raphae
raphael
raphaelesque
raphania
raphanus
raphany
raphe
raphes
raphia
raphias
raphide
raphides
raphidiferous
raphidiid
raphis
raphus
rapic
rapid
rapidamente
rapide
rapider
rapidest
rapidities
rapidity
rapidly
rapidness
rapido
rapids
rapier
rapiered
rapiers
rapilli
rapillo
rapine
rapiner
rapines
raping
rapinic
rapist
rapists
raploch
raport
rappage
rapparee
rapparees
rappe
rapped
rappee
rappees
rappel
rappeling
rappelled
rappelling
rappels
rappen
rapper
rappers
rapping
rappini
rappist
rapport
rapporteur
rapports
rapprochement
rapprochements
raps
rapscallion
rapscallionism
rapscallionly
rapscallionry
rapscallions
rapt
raptatorial
raptatory
rapter
raptest
raptly
raptness
raptiness
raptor
raptorial
raptorious
raptors
raptril
rapture
rapture's
raptured
raptureless
raptures
rapturing
rapturist
rapturize
rapturous
rapturously
rapturousness
raptury
raptus
raquet
raquette
rara
rare
rarebit
rarebits
rarefaction
rarefactual
rarefactive
rarefiable
rarefaction
rarefied
rarefier
rarefiers
rarefies
rarefy
rarefying
rarely
rareness
rarenesses
rarer
rareripe
rareripes
rarest
rareties
rarety
rarety’s
rariconstant
rarity
rarified
rarifies
rarify
rarifying
raring
rariora
rarish
rarities
rarity
ras
rasa
rasamala
rasant
rasbora
ratfink
ratfinks
ratfish
ratfishes
rath
ratha
rathed
rathely
ratheness
rather
ratherest
ratheripe
ratherish
ratherly
rathest
ratheter
rathite
rathole
ratholes
rathripe
rathskeller
rathskellers
raticidal
raticide
raticides
raticocinator
ratifia
ratification
ratificationist
ratified
ratifier
ratifiers
ratifies
ratify
ratifying
ratihabiton
ratine
ratines
rating
ratings
ratio
ratio's
ratiocinant
ratiocinate
ratiocinated
ratiocinates
ratiocinating
ratites
ratitous
ratiuncle
ratlike
ratlin
ratline
ratliner
ratlines
ratlins
rato
ratoon
ratooned
ratooner
ratooners
ratooning
ratoons
ratos
ratproof
rats
ratsbane
ratsbanes
ratskeller
rattage
rattail
rattails
rattan
rattans
rattaree
rattatoo
ratted
ratteen
ratteens
rattel
ratten
rattened
rattener
ratteners
rattening
rattens
ratter
ratters
rattery
ratti
rattier
rattiest
rattinet
ratting
rattingly
rattish
rattle
rattlebag
rattlebones
rattlebox
rattlebrain
rattlebrained
rattlebrains
rattlebush
rattled
rattlehead
rattleheaded
rattlejack
rattlemouse
rattlenut
rattlepate
rattlepated
rattlepod
rattleproof
rattler
rattleran
rattleroot
rattlers
rattlerintree
rattles
rattleskull
rattleskulled
rattlesnake
rattlesnake's
rattlesnakes
rattlesome
rattletrap
rattletraps
rattletybang
rattleweed
rattlewort
rattling
rattlingly
rattlingness
rattlings
rattly
ratton
rattoner
rattons
rattoon
rattooned
rattooning
rattoons
ravelin
raveling
ravelings
ravelins
ravelled
raveller
ravellers
ravelling
ravellings
ravely
ravelment
ravelproof
ravels
raven
ravendom
ravenduck
ravened
ravener
raveners
ravenhood
ravening
raveningly
ravenings
ravenish
ravenlike
ravenling
ravenous
ravenously
ravenousness
ravenry
ravens
ravensara
ravenstone
ravenwise
raver
ravers
ravery
raves
ravigote
ravigotes
ravin
ravinate
ravine
ravine's
ravined
ravinement
ravines
raviney
raving
ravingly
ravings
ravining
ravins
ravioli
raviolis
ravish
ravished
ravishedly
ravisher
ravishers
ravishes
ravishing
ravishingly
ravishingness
ravishment
ravishments
ravison
ravissant
raw
rawbone
rawboned
rawbones
rawer
rawest
rawhead
rawhide
rawhided
rawhider
rawhides
rawhiding
rawin
rawing
rawinsonde
rawish
rawishness
rawky
rawly
rawness
rawnesses
rawnie
raws
rax
raxed
raxes
raxing
ray
reabsorbs
reabsorption
reabuse
reaccede
reached
reaccedes
reaccelerating
reaccent
reaccented
reaccenting
reaccents
reaccentuate
reaccentuated
reaccentuating
reaccept
reacceptance
reaccepted
reaccepting
reaccepts
reaccess
reaccession
reacclaim
reacclimate
reacclimated
reacclimates
reacclimating
reacclimatization
reacclimatize
reacclimatized
reacclimatizing
reaccommodate
reaccommodated
reaccommodates
reaccommodating
reaccommodated
reaccompanies
reaccompany
reaccompanying
reaccomplish
reaccomplishment
reaccord
reaccost
reaccount
reaccredit
readjudicated
readjudicating
readjudication
readjust
readjustable
readjusted
readjuster
readjusting
readjustment
readjustments
readjusts
readl
readmeasurement
readminister
readmiration
readmire
readmission
readmissions
readmit
readmits
readmittance
readmitted
readmitting
readopt
readopted
readopting
readoption
readopts
readorn
readorned
readorning
readornment
readorns
readout
readout's
readouts
reads
readvance
readvancement
readvent
readventure
readvertency
readvertise
readvertised
readvertisement
readvertising
readvertize
readvertized
reappeared
reappearing
reappears
reappease
reapplaud
reaplause
reappliance
reapplicant
reapplication
reapplied
reapplier
reapplies
reapply
reapplying
reappoint
reappointed
reappointing
reappointment
reappointments
reappoints
reapportion
reapportioned
reapportioning
reapportionment
reapportionments
reapportions
reappraisal
reappraisals
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reappraised
reappraisement
reappraiser
reappraises
reappraising
reappraising
reappraise
reapprased
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reaplases
reappraise
reappraged
reappraisement
reappraiser
reattack
reatacked
reattacking
reattacks
reattain
reattained
reattaining
reattainment
reattains
reattempt
reattempted
reattemping
reattempts
reatend
reatendance
reatten
reattention
reattentive
reattest
reattire
reattired
reattiring
reattract
reattraction
reattribute
reattribution
reatus
reaudit
reaudition
reaumur
reaute
reaauthenticate
reaauthenticated
reaauthenticating
reaauthentication
reauthorization
reauthorize
reauthorized
reauthorizing
reavail
reavailable
reave
reaved
reaver
reavers
reavery
reaves
reaving
reavoid
rebecs
rebed
rebeg
rebeget
rebeggar
rebegin
rebeginner
rebeginning
rebeguile
rebehold
rebeholding
rebekah
rebel
rebel's
rebeldom
rebeldoms
relief
rebelieve
rebelled
rebeller
rebellike
rebelling
rebellion
rebellion's
rebellions
rebellious
rebelliously
rebelliousness
rebellow
rebelly
rebelong
rebelove
rebelproof
rebels
rebemire
rebend
rebending
rebenediction
rebenefit
rebent
rebeset
rebesiege
rebestow
rebestowal
rebetake
rebetray
rebewail
rebia
reboiler
reboiling
reboils
reboise
reboisement
reboke
rebold
rebolera
rebol
rebone
rebook
reboot
rebooted
rebooting
reboots
rebop
rehaps
rebone
reborn
reborrow
rebosa
reboso
rebosos
rebote
rebottle
rebounce
rebond
reboundable
reboundant
rebounded
rebounder
rebounding
reboundingness
rebounds
rebourbonize
rebox
rebozo
rebozos
rebrace
rebraced
rebracing
rebranch
rebranched
rebranches
rebranching
rebrand
rebrandish
rebuke
rebukeable
rebuked
rebukeful
rebukefully
rebukefulness
rebukeproof
rebuker
rebukers
rebukes
rebuking
rebukingly
rebulk
rebunch
rebundle
rebunker
rebuoy
rebuoyage
reburden
reburgeon
reburial
reburials
reburied
reburies
reburn
reburnish
reburse
reburst
rebury
reburying
rebus
rebused
rebuses
rebush
rebusing
rebusy
rebut
rebute
rebultment
rebuts
rebuttetable
rebuttably
rebuttal
rebuttals
rebuted
rebutter
rebutterers
rebutting
rebutton
rebuttoned
rebuttoning
rebuttons
rebuy
rebuying
rec
rec'd
recable
recabled
recabling
recadency
recado
recage
recaged
recaging
recalcination
recalcine
recalcitrance
recalcitrances
recalcitrancies
recalcitrancy
recalcitrant
recalcitrates
recalciting
recalcite
recalculation
recalculation
recalcite
recalculated
recalculates
recalculating
recalculating
recalculations
recalcesce
recalced
recalcescence
recalcescent
recalcescing
recalcestral
recalibrate
recalibrated
recalibrates
recalibrating
recalibrating
recalibration
recalibration
recalk
recall
recallability
recallable
recalled
recaller
recallers
recalling
recallist
recallment
recalls
recamera
recampaign
recanalization
recancel
recanceled
recanceling
recancellation
recandescence
recandidacy
recane
recaned
recanes
recaning
recant
recantation
recantations
recanted
recanter
recanter
recanting
recantingly
recants
recanvas
recap
recapacitate
recapitalization
recapitalize
recapitalized
recapitalizes
recapitalizing
recapitulate
recapitulated
recapitulates
recapitulating
recapitulation
recapitulationist
recapitulations
recapitulative
recapitulator
recapitulatory
recappable
recapped
recaulescence
recausticize
recaution
rece
recche
recchase
recchosen
recco
reccy
reced
recede
receded
recedence
recedent
receder
recdes
receding
receipt
receipt's
receiptable
receipted
receipter
receipting
receiptless
receiptment
receptor
receipts
receivability
receivable
receivableness
receivables
receivableness
receipt
received
receivedness
receiver
receivers
receivership
receiverships
receives
receiving
recelebrate
recelebrated
recelebrates
recelebrating
recelebration
recement
receptorial
receptors
recepts
receptual
receptually
recercele
recercelee
recertificate
recertification
recertified
recertify
recertifying
recess
recessed
recesser
recesses
recessing
recession
recessional
recessionals
recessionary
recessions
recessive
recessively
recessiveness
recesslike
recessor
rechabite
rechafe
rechain
rechal
rechallenge
rechallenged
rechallenging
rechamber
rechange
rechanged
rechanges
rechanging
rechannel
rechanneled
rechanneling
rechannelling
rechant
rechaos
rechar
recharge
rechargeable
recidive
recidivism
recidivist
recidivistic
recidivists
recidivity
recidivous
recip
recipe
recipe's
recipes
recipiangle
recipiatur
recipience
recipiency
recipiend
recipiendary
recipiendum
recipient
recipient's
recipients
recipiomotor
reciprocable
reciprocal
reciprocality
reciprocate
reciprocally
reciprocalness
reciprocals
reciprocant
reciprocantive
reciprocate
reciprocated
reciprocates
reciprocating
reciprocation
reciprocatic
reciprocative
reciprocator
reciprocatory
reciprocitarian
reciprocities
reciprocity
reciproque
recircle
recircled
recircles
recircling
recirculate
recirculated
recirculates
recirculating
recirculation
recirculations
recision
recisions
recission
recissory
recit
recitable
recital
recital's
recitalist
recitalists
recitals
recitando
recitatif
recitation
recitation's
recitationalism
recitationalist
recitations
recitative
recitatively
recitatives
recitativi
recitatival
recitativo
recitativos
recite
recited
recitement
reciter
reciters
recites
reciting
recivilization
recivilize
reck
recked
recking
reckla
reckless
recklessly
recklessness
reckling
reckon
reckonable
reckoned
reckoner
reckoners
reckoning
reckonings
reckons
recks
reclad
reclaim
reclaimable
reclaimableness
reclaimably
reclaintant
reclaimed
reclaimer
reclaimers
reclaiming
reclaimless
reclaimment
reclaims
reclama
reclamation
reclamations
reclamatory
reclame
reclames
reclang
reclasp
reclased
reclasping
reclasps
reclass
reclassification
reclassifications
reclassified
reclassifies
reclassify
reclassifying
reclean
recleaned
recleaner
recleaning
recleans
recleanse
recleansed
recleansing
reclear
reclearance
reclimb
reclimbed
reclimbing
reclinable
reclinant
reclinate
reclinated
reclination
recline
reclined
recliner
recliners
reclines
reclining
reclivate
reclosable
reclose
recloseable
reclot:
reclothed
reclothes
reclot
ing
reclude
recluse
reclusely
recluseness
reclusery
recluses
reclusion
reclusive
reclusiveness
reclusory
recoach
recoagulate
recoagulated
recoagulating
recoagulation
recoa
recoaled
recoaling
recoals
recoast
recoat
recock
recocked
recocking
recocks
recoat
recoction
recode
recoded
recodes
recodification
recodified
recodifies
recodify
recodifying
recoding
recogitate
recogitation
recognisable
recognise
recognised
recogniser
recognising
recognita
recognition
recognition's
recognitions
recognitive
recognitor
recognitory
recognizability
recognizable
recognizably
recognizance
recognizant
recognize
recognized
recognizedly
recognizee
recognizer
recognizers
recognizes
recognizing
recognizingly
recognizor
recognosce
recohabitation
recoil
recoiled
recoiler
recoilers
recoiling
recoilingly
recoilless
recoilment
recoils
recoin
recoinage
recoined
recoiner
recoining
recoins
recoke
recollapse
recollate
recollation
recollect
recollectable
recollected
recollectedly
recollectedness
recollectible
recollecting
recollection
recollection's
recollections
recollective
recollectively
recollectiveness
recollects
recollet
recolonisation
recolonise
recolonised
recolonising
recolonization
recolonize
recolonized
recolonizes
recolonizing
recolor
recoloration
recolored
recoloring
recolors
recolour
recolouration
recomb
recombed
recombinant
recomprehension
recompress
recompression
recomputation
recompute
recomputed
recomputes
recomputing
recon
reconceal
reconcealment
reconcede
reconceive
reconcentrado
reconcentrate
reconcentrated
reconcentrates
reconcentrating
reconcentration
reconception
reconcert
reconcession
reconcilability
reconcilable
reconcilableness
reconcilably
reconcile
reconciled
reconcilee
reconcileless
reconcilement
reconcilements
reconciler
reconcilers
reconciles
reconciliability
reconciliable
reconciliate
reconciliated
reconciliating
reconciliation
reconciliations
reconciliatory
reconciliative
reconciliator
reconciliatory
reconciling
reconcilingly
reconfirms
reconfiscate
reconfiscated
reconfiscating
reconfiscation
reconform
reconfound
reconfront
reconfrontation
reconfuse
reconfused
reconfusing
reconfusion
recongeal
recongelation
recongest
recongestion
recongratulate
recongratulation
reconjoin
reconjunction
reconnaissance
reconnaissances
reconnect
reconnected
reconnecting
reconnection
reconnects
reconnaissance
reconnoiter
reconnoitered
reconnoiterer
reconnoitering
reconnoiteringly
reconnoiters
reconnoitre
reconnoitred
reconnoitrer
reconnoitrering
reconnoitringly
reconquer
reconquered
reconquering
reconqueror
reconquers
reconquest
recons
reconsecrate
reconsultation
recontact
recontamination
recontemplate
recontemplated
recontemplating
recontemplation
recontend
reconter
recontest
recontested
recontesting
recontests
recontinuance
recontinue
recontract
recontracted
recontracting
recontraction
recontracts
recontrast
recontribute
recontribution
recontrivance
recontrive
recontrol
recontrolling
reconvalescence
reconvalescent
reconvene
reconvened
reconvenes
reconvening
reconvenire
reconvention
reconventional
reconverge
reconverged
reconvergence
reconverging
reconverse
reconversion
reconversions
reconvert
reconverted
reconvertible
reconverting
recriminative
recriminator
recriminatory
recriticize
recriticized
recriticizing
recroom
recrop
recross
recrossed
recrosses
recrossing
recrow
recrown
recrowned
recrowning
recrows
recrucify
recrudency
recrudesce
recrudesced
recrudescence
recrudescency
recrudescent
recrudesces
recrudescing
recruit
recruit's
recruitable
recruitment
recruital
recruited
recruitee
recruiter
recruiters
recruithood
recruiting
recruitment
recruitors
recruits
recruity
recrush
recrusher
recrystallise
recrystallised
recrystallising
recrystallization
recrystallize
rectischiac
rectiserial
rectitic
rectitis
rectitude
rectitudinous
recto
rectoabdominal
rectocele
rectoclysis
rectococygeal
rectococcygeus
rectocolitic
rectocolonic
rectocystotomy
rectogenital
rectopexy
rectophobia
rectoplasty
rector
rector's
rectoral
rectorate
rectorates
rectoress
rectorial
rectories
rectorrhaphy
rectors
rectorship
rectory
rectos
rectoscope
rectoscopy
rectosigmoid
rectostenosis
rectostomy
rectotome
rectotomy
rectovaginal
rectovesical
rectress
rectrices
rectrical
rectrix
rectum
rectum's
rectums
rectus
recubant
recubate
recubation
recueil
recueillement
reculade
recule
recultivate
recultivated
recultivating
recultivation
recumb
recumbence
recumbencies
recumbency
recumbent
recumbently
recuperability
recuperance
recuperate
recuperated
recuperates
recuperating
recuperation
recuperative
recuperativeness
recuperator
recuperatory
recuperet
recur
recure
recureful
recureless
recurl
recurred
recurrence
recurrence's
recurrences
recurrency
recurrent
recurrently
recurre
recurrence
recurrence's
recurrences
recurrency
recurrent
recurrently
recurre
recurrence
recurrence's
recurrences
recurrency
recurrent
recurrently
recurse
recycling
red
redact
redacted
redacteur
redacting
redaction
redactional
redactor
redactorial
redactors
redacts
redamage
redamaged
redamaging
redamation
redame
redammentation
redan
redans
redare
redared
redargue
redargued
redargues
redarguing
redargution
redargutive
redargutory
redaring
redarken
redarn
redart
redate
redated
redates
redating
redaub
redawn
redback
redbait
redbaited
red baiting
redbaiting
redbaits
redbay
redbays
redbeard
redbelly
redberry
redbill
redbird
redbirds
redbone
redbones
redbreast
redbreasts
redbrick
redbricks
redbrush
redbuck
redbud
redbuds
redbug
redbugs
redcap
redcaps
redcoat
redcoats
redcoll
redcurrant
redd
redded
redden
reddenda
reddendo
reddendum
reddened
reddening
reddens
redder
redders
reddest
redding
reddingite
reddish
reddishly
reddishness
reddition
redditive
reddle
reddled
reddleman
reddlemen
reddles
reddling
reddock
redds
reddsman
reddy
rede
redeal
redealing
redealt
redeal
redears
redebate
redebit
redecay
redeceive
redeceived
redeceiving
redecede
redeced
redeceding
redeceding
redeccimate
redecision
redeck
redesclaration
redeclare
redeclared
redeclares
redeclaring
redecline
redeclined
redeclining
redecorate
redecorated
redecorates
redecorating
redecoration
redecorator
redecrease
redecusamate
reded
rededicate
rededicated
rededicates
rededicating
rededication
rededicatorion
rededuction
redeed
redeem
redeemability
redeemable
redeemableness
redeemably
redeemed
redeemedness
redeemer
redeemeress
redeemers
redeemership
redeeming
redeemlessness
redeems
redefault
redefeat
redefeated
redefeating
redefeats
redefecate
redefer
redefiance
redefied
redefies
redefine
redefined
redefines
redefining
redefinition
redefinition's
redefinitions
redeflect
redefy
redefying
redeify
redelay
redelegate
redelegated
redelegating
redelegation
redeless
redelete
redeleted
redeleting
redeliberate
redeliberated
redeliberating
redeliberation
redeliver
redeliverance
redelivered
redeliverer
redeliveries
redelivering
redelivers
redelivery
redely
redemand
redemandable
redemanded
redemanding
redemands
redemise
redemised
redemising
redemolish
redemonstrate
redemonstrated
redemonstrates
redemonstrating
redemonstration
redemptible
redemption
redemotional
redemptioner
redemptionless
redemptions
redemptive
redemptively
redemptor
redemptorial
redemptorist
redemptory
redemptress
redemptrice
redenial
redened
redenies
redenigrate
redeny
redenying
redepend
redeploy
redeployed
redeploying
redeployment
redeployys
redeposit
redeposited
redepositing
redeposition
redeposits
redepreciate
redepreciated
redepreciating
redepreciation
redeprive
rederivation
redes
redescent
redescribe
redescribed
redescribes
redescribing
redescription
redesert
redesertion
redeserve
redesign
redesignate
redesignated
redesignating
redesignation
redesigned
redesigning
redesigns
redesire
redesirous
redesman
redespise
redetect
redetention
redetermination
redetermine
redetermined
redetermines
redeterminible
redetermining
redevable
redevelop
redeveloped
redeveloper
redevelopers
redeveloping
redevelopment
redevelopments
redevelops
redevise
redevote
redevotion
reeye
reeyes
redfield
redfin
redfinch
redfins
redfish
redfishes
redfoot
redhandedness
redhead
redheaded
redheadedly
redheadedness
redheads
redheart
redhearted
redhilitation
redhibitory
redhoop
redhorse
redhorses
redia
rediae
redial
redias
redictate
redictated
redictating
redictation
redid
redient
redifferentiate
redifferentiated
redifferentiating
redifferentiation
rediffuse
rediffused
rediffusing
rediffusion
redig
redigest
redissolves
redissolving
redistend
redistill
redistillable
redistillableness
redistillabness
redistillation
redistilled
redistiller
redistilling
redistills
redistinguish
redistain
redistrainer
redistribute
redistributed
redistributer
redistributes
redistributing
redistribution
redistributionist
redistributions
redistributive
redistributor
redistributory
redistrict
redistricted
redistricting
redistricts
redisturb
redition
redive
rediversion
redvert
redivertible
redivide
redivided
redvides
rediving
redivision
redivive
redivivous
redivivus
redivorce
redivorced
redivorcement
redivorcing
redrill
redrilled
redrilling
redrills
redrive
redriven
redrives
redriving
redroop
redroot
redroots
redrove
redrug
redrugged
redruggling
redry
redrying
reds
redsear
redshank
redshanks
redshire
redshirt
redshirted
redshirting
redshirts
redskin
redskins
redstart
redstarts
redstreak
redtab
redtail
redtapism
redthroat
redtop
redtops
redub
redubber
reduccion
reduce
reduceable
reduceableness
reduced
reduction
reducement
reducent
reducer
reducers
reduces
decibilities
decibility
decibible
decibleness
decibly
deciding
decidant
decidant
decidase
decidibility
decidio
deciduation
decision's
decisional
decisionism
decisionist
decisionistic
decisions
decutive
decutively
decutivism
educt
educ
educit
educundance
educundances
educundancies
educundancy
educundant
educundantly
edupl
educuplicate
educuplicated
educuplicating
educuplication
educuplicative
educuplicatively
educuplicatory
educuplicature
educust
educut
educutid
educutids
educutoid
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
educut
reedit
reedited
reediting
reedition
reedits
reedless
reedlike
reedling
reedlings
reedmaker
reedmaking
reedman
reedplot
reeds
reeducate
reeducated
reeducates
reeducating
reeducation
reeducative
reedwork
reedy
reef
reefable
reefed
reefer
reefers
reeffish
reeffishes
reefier
reefiest
reefing
reefs
reefy
reeject
reejected
reejecting
reejects
reek
reeked
reeker
reekers
reekier
reekiest
reeking
reekingly
reeks
reeky
reenlistment
reenlistments
reenlists
reenslave
reenslaved
reenslavement
reenslaves
reenславing
reenter
reenterable
reentered
reentering
reenters
reentrance
reentranced
reentrances
reentrancing
reentrancy
reentrant
reentries
reentry
reenumerate
reenumerated
reenumerating
reenumeration
reenunciate
reenunciated
reenunciating
reenunciation
reeper
reequip
reequipped
reequipping
reequips
reequipt
reerect
reerected
reerecting
reerection
reerects
reerupt
reeruption
rees
reese
reeshie
reeshle
reesk
reesle
reest
reestablish
reestablished
reestablishes
reestablishing
reestablishment
reested
reester
reestimate
reestimated
reestimating
reestimation
reesting
reestle
reests
reesty
reet
reetam
reettle
reevacuate
reevacuated
reevacuating
reevacuation
reevaluate
reevaluated
reevaluates
reevaluating
reevaluation
reevaluations
reevasion
reeve
reeved
reeveland
reeves
reeveship
reevidence
reevidenced
reevidencing
reeving
reevoke
reevoked
reevokes
reevoking
reeexamination
reeexaminations
reeexamine
reeexamined
reeexamines
reexamining
reexcavate
reexcavated
reexcavating
reexcavation
reexchange
reexchanged
reexchanges
reexchanging
reexecute
reexecuted
reexecuting
reexecution
reexercise
reexercised
reexcising
reexhibiting
reexhibition
reexhibits
reexpand
reexpansion
reexpel
reexpelled
reexpelling
reexpels
reexperience
reexperienced
reexperiences
reexperiencing
reexperiment
reexplain
reexplanation
reexplicate
reexplicated
reexplicating
reexplication
reexplore
reexplored
reexploring
reexport
reexportation
reexported
reexporter
reexporting
reexports
reflector
derector's
derectorize
derectorized
derectorizing
derectors
derectoscope
derects
derledge
derlee
derlet
derlets
derlew
derlex
derlex's
derlexed
derlexes
derlexibility
derlexible
derlexing
derlexion
derexion
derexional
derexionism
derexionue
derexionive
derexionively
derexioniveness
derexionives
derexionity
derexly
derexness
derexogenous
derexionological
derexionologically
derexionologies
derexionologist
derexionology
derfies
derfing
derfloat
derfloatation
derfleated
derflying
derfloats
derflog
derflood
derflooded
derflooding
refloods
refloor
reflorescence
reflorescent
reflourish
reflourishment
reflow
reflowed
reflower
reflowered
reflowering
reflowers
reflowing
reflown
refloows
refluctuation
refluence
refluency
refluent
refluous
reflush
reflux
refluxed
refluxes
refluxing
refly
reflying
refocillate
refocillation
refocus
refocused
refocuses
refocusing
refocussed
refocusses
refocussing
refold
refolded
refolding
refolds
refoment
refont
refool
refoot
reforbid
reforce
reford
reforecast
refueled
refueling
refuelled
refuelling
refuels
refuge
refuged
refugee
refugee's
refugeeism
refugees
refugeeship
refuges
refugia
refuging
refugium
refulge
refulgence
refulgency
refulgently
refulgentness
refunction
refund
refundability
refundable
refunded
refunder
refunders
refunding
refundment
refunds
refurbish
refurbished
refurbisher
refurbishes
refurbishing
refurbishment
refurl
refurnish
refurnished
refurnishes
refurnishing
refurnishment
refusable
refusal
refusals
refuse
reglazes
reglazing
regle
reglement
reglementary
reglementation
reglementist
reglet
reglets
regloration
reglorified
reglorify
reglorifying
regloss
reglossed
reglosses
reglossing
reglove
reglow
reglowed
reglowing
reglows
reglue
reglued
reglues
regluing
regma
regmacarp
regmata
regna
regnal
regnancies
regnancy
regnant
regnernable
regnurn
rego
regolith
regoliths
regorge
regorged
regorges
regorging
regosol
regosals
regosols
regovern
regovernment
regr
regrab
regrabbed
regrabbing
regracy
regradate
regradated
regradating
regradation
regrade
regraded
regrades
regrading
regraduate
regraduation
regraft
regrafted
regrafting
regrafts
regrant
regranted
regranting
regrants
regraph
regrasp
regrass
regrate
regrated
regrater
regrates
regratification
regratify
regrating
regratingly
regrator
regratress
regravel
regrease
regreased
regreasing
regrede
regreen
regreet
regreeted
regreeting
regrets
regreets
regress
regressed
regresses
regressing
regression
regression's
regressionist
regressions
regressive
regressively
regressiveness
regressivity
regressor
regressors
regret
regrettable
regrettableness
regretably
regretful
regretfully
regretfulness
regretless
regretlessness
regrets
regrettable
regrettableness
regrettablly
regretted
regretter
regretters
regretting
regrettingly
regrew
regrind
regrinder
regrinding
regrinds
regrip
regripped
regroove
regrooved
regrooves
regrooving
reground
regroup
regrouped
regrouping
regroupment
regroups
regrow
regrowing
rehardens
reharm
reharmonization
reharmonize
reharmonized
reharmonizing
reharness
reharrow
reharvest
rehash
rehashed
rehashes
rehasing
rehaul
rehayte
rehazard
rehboc
rehad
reheal
reheap
rehear
reheard
rehearheard
rehearhearing
rehearing
rehearings
rehears
rehearsable
rehearsal
rehearsal's
rehearsals
rehearse
rehearsed
rehearer
rehearsers
rehearse
rehearses
rehearsing
rehearten
reheat
reheated
reheater
reheaters
reheating
reheats
rehedge
reheel
reheeled
reheeling
reheels
reheighten
rehem
rehemmed
rehemming
rehems
rehete
rehid
rehidden
rehide
rehinge
rehinged
rehinges
rehinging
rehire
rehired
rehires
rehiring
rehoboam
rehoe
rehoist
rehollow
rehone
rehoned
rehoning
rehonor
rehonour
rehood
rehook
rehoop
rehospitalization
rehospitalize
rehospitalized
rehospitalizing
rehouse
rehoused
rehouses
rehousing
rehumanization
rehumanize
rehumanized
rehumanizing
rehumble
rehumiliate
rehumiliated
rehumiliating
rehumiliation
rehung
reillume
reilluminate
reilluminated
reilluminating
reillumination
reillumine
reillustrate
reillustrated
reillustrating
reillustration
reim
reimage
reimaged
reimages
reimagination
reimagine
reimaging
reimbark
reimbarkation
reimbibe
reimbody
reimbursable
reimburse
reimbursable
reimbursed
reimbursement
reimbursement's
reimbursements
reimburser
reimburses
reimbursing
reimbush
reimbushment
reimkennar
reimmerge
reimmerse
reimmersion
reimmigrant
reimmigration
reimpact
reimpark
reimpartment
reimpatriate
reimpatriation
reimpel
reimplant
reimplantation
reimplement
reindoctrinated
reindoctrinating
reindoctrination
reindorse
reindorsed
reindorsement
reindorsing
reinduce
reinduced
reinducement
reinduces
reinducing
reinduct
reinducted
reinducting
reinduction
reinducts
reindue
reindulge
reindulged
reindulgence
reindulging
reindustrialization
reindustrialize
reindustrialized
reindustrializing
reined
reinette
reinfect
reinfected
reinfecting
reinfection
reinfections
reinfectious
reinfected
reinfer
reinferred
reinferring
reinfestation
reinfiltrate
reinfiltrated
reinfiltrating
reinfiltration
reinflame
reinflamed
reinflames
reinflaming
reinflatable
reinflate
reinflated
reinflating
reinflation
reinflict
reinfiction
reinfluence
reinfluenced
reinfluencing
reinforce
reinforceable
reinforced
reinforcement
reinforcement's
reinforcements
reinforcer
reinforcers
reinforces
reinforcing
reinform
reinformed
reinforming
reinforms
reinfund
reinfuse
reinfused
reinfuses
reinfusing
reinfusion
reingraft
reingratiate
reingress
reinhabit
reinhabitation
reinherit
reining
reinitialize
reinitialized
reinitializes
reinitializing
reinitiate
reinitiation
reinject
reinjure
reinjured
reinjures
reinjuries
reinterpret
reinterpretation
reinterpretations
reinterpreted
reinterpreting
reinterprets
reinterred
reinterring
reinterrogate
reinterrogated
reinterrogates
reinterrogating
reinterrogation
reinterrogations
reinterrupt
reinterruption
reinters
reintervene
reintervened
reintervening
reintervention
reinterview
reinthrone
reintimate
reintimation
reintitle
reintrench
reintrenched
reintrenches
reintrenching
reintrenchment
reintroduce
reintroduced
reintroduces
reintroducing
reintroduction
reintrude
reintrusion
reintuition
reintuitive
reinvade
reinvaded
reinvading
reinvasion
reinvent
reinvented
reinventing
reinvention
reinventor
reinvents
reinversion
reinvert
reinvest
reinvested
reinvestigate
reinvestigated
reinvestigates
reinvestigating
reinvestigation
reinvestigations
reinvesting
reinvestiture
reinvestment
reinvests
reinvigorate
reinvigorated
reinvigorates
reinvigorating
reinvigoration
reinvigorator
reinvitation
reinvite
reinvited
reinvites
reinviting
reinvoice
reinvoke
reinvoked
reinvokes
reinvoking
reinvolve
reinvolved
reinvolvement
reinvolves
reinvolving
reirrigate
reirrigated
reirrigating
reirrigation
reis
reisner
reisolate
reisolated
reisolating
reisolation
reissuable
reknock
reknot
reknotted
reknottting
reknw
rel
relabel
relabeled
relabeling
relabelled
relabelling
relables
relace
relaced
relaces
relache
relacing
relacquer
relade
reladen
reladle
reladled
reladling
relaid
relais
relament
relamp
relance
relanced
relancing
reland
relap
relapper
relapsable
relapse
relapsed
relapseproof
relapser
relapsers
relapses
relapsing
relast
relaster
relata
relatability
relatable
relatch
relate
reliability
reliable
reliableness
reliably
reliance
reliances
reliant
reliantly
reliberate
reliberated
reliberating
relic
relic's
relicary
relicense
relicensed
relicenses
relicensing
relick
reliclike
relicmonger
relics
relict
relictae
relicted
relictú
reliction
relicts
relide
relied
relief
reliefer
reliefless
reliefs
relier
reliers
relies
relievable
relieve
relieved
relievedly
relievement
reliever
reliervers
relieves
relieving
relievingly
relievo
relievos
relift
relig
religate
religation
relight
relightable
relighted
relighten
relighter
relighting
relights
religieuse
religieuses
religieux
religio
religion
religion's
religionary
religionate
religioner
religionism
religionist
religionistic
religionists
religionize
religionless
religions
religiose
religiosity
religioso
religious
religiously
religiousness
reliant
relime
relimit
relimitation
reline
relined
reliner
relines
relining
relink
relinked
relinquent
relinquish
relinquished
relinquisher
relinquishers
relinquishes
relinquishing
relinquishment
relinquishments
reliquaire
reliquaries
reliquary
relique
reliquefied
reliquefy
reliquefying
reliques
reliquiae
reliquian
reliquiate
reliquiated
reliquiates
reliquidating
reliquidation
reliquism
relish
relishable
relished
relisher
relishes
relishing
relishingly
relishsome
relishy
relist
relisted
relisten
relisting
relists
relit
relitigate
relitigated
relitigating
relitigation
relivable
relive
relied
relider
relives
reliving
reload
reloaded
reloader
reloaders
reloading
reloads
reloan
reloained
reloaning
reloans
relocable
relocatability
relocatable
relocate
relocated
relocatee
relocates
relocating
relocation
relocations
relocator
relock
relodge
relong
relook
reloose
relosing
relost
relot
relove
relower
relubricate
relubricated
relubricating
reluce
reluent
reluct
reluctance
reluctancy
relunctant
reluctantly
reluctate
reluctation
relucted
relucting
reluctivity
relucts
relume
remancipate
remancipation
remand
remanded
remanding
remandment
remands
remanence
remanency
remanent
remanet
remanie
remanifest
remanifestation
remanipulate
remanipulation
remanded
remanning
remans
remantle
remanufacture
remanufactured
remanufacturer
remanufactures
remanufacturing
remanure
remap
remapped
remapping
remaps
remarch
remargin
remark
remarkability
remarkable
remarkableness
remarkably
remarked
remarkedly
remarker
remarkers
remarket
remarking
remarks
remarque
remarques
remarriage
remarriages
remarried
remarries
remarry
remarrying
remarshal
remarshaled
remarshaling
remarshalling
remask
remass
remast
remaster
remasteries
remastery
remasticate
remasticated
remasticating
remastication
rematch
rematched
rematches
rematching
rematerialization
rematerialize
rematerialized
rematerializing
rematriculate
rematriculated
rematriculating
remblai
remble
remblere
rembrandt
rembrandtesque
remeant
remeasure
remeasured
remeasurement
remeasurements
remeasures
remeasuring
remede
remediability
remediable
remediableness
remediably
remedial
remediably
remediate
remediated
remediating
remediation
remedi ed
remedies
remediless
remedilessly
remedilessness
remediate
remediation
remedium
remedy
remedying
remeet
remeeting
remeets
remelt
remelted
remelting
remelts
remember
rememberability
rememberable
rememberably
remembered
rememberer
rememberers
remembering
rememberingly
remembers
remembrance
remembrance's
remembrancer
remembrancership
remembrances
rememorate
rememoration
rememorative
rememorize
rememorized
rememorizing
remen
remenace
remenant
remend
remended
remending
remends
remene
remention
remercy
remerge
remerged
remerges
remerging
remet
remetal
remex
remica
remicate
remication
remicle
remiform
remigate
remigration
remiges
remigial
remigrant
remigrate
remigrated
remigrates
remigrating
remigration
remigrations
remilitarization
remilitarize
remilitarized
remilitarizes
remilitarizing
remill
remillable
remimic
remind
remindal
reminded
reminder
reminders
remindful
reminding
remindingly
reminds
remineralization
remineralize
reminingle
remingled
remingling
reminisce
reminisced
reminiscence
reminiscence's
reminiscenceful
reminiscencer
reminiscences
reminiscency
reminiscent
reminiscential
reminiscentially
reminiscently
reminiscer
reminisces
reminiscing
reminiscitory
remint
reminted
reminting
remints
remiped
remirror
remise
remised
remises
remising
remisrepresent
remisrepresentation
remiss
remissful
remissibility
remissible
remissibleness
remissibly
remission
remissions
remissive
remissively
remissiveness
remissly
remissness
remissory
remisunderstand
remit
remital
remitment
remits
remodulate
remodulated
remodulating
remolade
remolades
remold
remolded
remolding
remolds
remollent
remollified
remollify
remollifying
remonetisation
remonetise
remonetised
remonetising
remonetization
remonetize
remonetized
remonetizes
remonetizing
remonstrance
remonstrances
remonstrant
remonstrantly
remonstrate
remonstrated
remonstrates
remonstrating
remonstratingly
remonstration
remonstrations
remonstrative
remonstratively
remonstrator
remonstrators
remonstratory
remontado
remontant
remontoir
remontoire
remop
remora
remoras
remorate
remord
remore
remorid
remorse
remorseful
remorsefully
remorsefulness
remorseless
remorselessly
remorselessness
remorseproof
remorses
remortgage
remortgaged
remortgages
remortgaging
remote
remoted
remotely
remoteness
remoter
remotest
remotion
remotions
remotive
remoulade
remould
remount
remounted
remounting
remounts
removability
removable
removableness
removably
removal
removal's
removalist
removals
remove
removed
removedly
removedness
removeless
removalment
remover
removers
removes
removing
rems
renointestinal
renoir
renomee
renominate
renominated
renominates
renominating
renomination
renominations
renomme
renommee
renone
renopericardial
renopulmonary
renormalization
renormalize
renormalized
renormalizing
renotarize
renotarized
renotarizing
renotation
renotice
renoticed
renoticing
renotification
renotified
renotifies
renotify
renotifying
renounce
renouceable
renounced
renouncement
renouncements
renouncer
renouncers
renounces
renouncing
renourish
renourishment
renovare
renovate
renovated
renovater
renovates
renovating
renovatingly

reoccupation
reoccupations
reoccupied
reoccupies
reoccupy
reoccupying
reoccur
reoccurred
reoccurrence
reoccurrences
reoccurring
reoccurs
reoffend
reoffense
reoffer
reoffered
reoffering
reoffers
reoffset
reoil
reoiled
reoiling
reois
reometer
reomission
reomit
reopen
reopened
reopener
reopening
reopenings
reopens
reoperate
reoperated
reoperating
reoperation
reophore
reoppose
reopposed
reopposes
reopposing
reopposition
reoppress
reoppression
reorchestrate
reorchestrated
reorchestrating
reorchestration
reordain
reordained
reordaining
reords
reorder
reordered
reordering
reorders
reordinate
reordination
reorganise
reorganised
reorganiser
reorganising
reorganization
reorganization's
reorganizational
reorganizationist
reorganizations
reorganize
reorganized
reorganizer
reorganizers
reorganizes
reorganizing
reorient
reorientate
reorientated
reorientating
reorientation
reorientations
reoriented
reorienting
reorients
reornament
reoutfit
reoutfitted
reoutfitting
reoutline
reoutlined
reoutlining
reoutput
reoutrage
reovercharge
reoverflow
reovertake
reoverwork
reovirus
reoviruses
reown
reoxygenation
reoxygenise
reoxygenised
reoxygenising
reoxygenize
rep
repace
repaification
repaified
repaifies
repaify
repaifying
repack
repackage
repackaged
repackager
repackages
repackaging
repacked
repacker
repacking
repacks
repad
repadded
repadding
repaganization
repaganize
repaganizer
repage
repaginate
repaginated
repaginates
repaginating
repagination
repaid
repaint
repainted
repainting
repaints
repair
repairability
repairable
repairableness
repaired
repairer
repairers
repairing
repairman
repairmen
repairs
repale
repand
repandly
repandodentate
repandodenticulate
repandolobate
repandous
repandousness
repanel
repaneled
repaneling
repaper
repapered
repapering
repapers
reparability
reparable
reparably
reparagraph
reparate
reparation
reparation's
reparations
reparative
reparatory
reparel
repark
repart
repartable
repartake
repartee
reparteeist
repartees
reparticipate
reparticipation
repartition
repartitionable
repass
repassable
repertorily
repertorium
repertory
reperusal
reperuse
reperused
reperusing
repetatively
repetend
repetends
repetitae
repetiteur
repetiteurs
repetition
repetition's
repetitional
repetitionary
repetitions
repetitious
repetitously
repetitiousness
repetitive
repetitively
repetitiveness
repetitory
repertoire
repetticoat
repew
rephrase
rephonate
rephosphorization
rephosphorize
rephotograph
rephrase
rephrased
rephrases
rephrasing
repic
repick
repicture
repiece
repile
repin
repine
repined
repineful
repinement
repiner
replays
replead
repleader
repleading
repleat
repledge
repledged
repledger
repledges
repledging
replenish
replenished
replenisher
replenishers
replenishes
replenishing
replenishingly
replenishment
replete
repletely
repleteness
repletion
replete
repletive
repletively
repletory
reiple
replevable
repleved
replevies
replevin
replevined
replevining
replevins
replevisable
replevisor
replevy
replevying
replial
repliant
replica
replicable
replicant
replicas
replicate
replicated
replicates
replicatible
replicating
representationism
representationist
representations
representative
representatively
representativeness
representatives
representativeship
representativity
represented
representee
reprenter
representing
representent
representer
represents
represide
repress
repressed
repressedly
represser
represses
repressibilities
repressibility
repressible
repressibly
repressing
repression
repression's
repressionary
repressionist
repressions
repressive
repressively
repressiveness
repressment
repressor
repressory
repressure
reprice
repriced
reprices
repricing
retrievable
retrieval
reprieve
rerieved
repriever
reprofane
reprofess
reproffer
reprogram
reprogrammed
reprogramming
reprograms
reprography
reprohibit
reproject
repromise
repromised
repromising
repromulgate
repromulgated
repromulgating
repromulgation
repronounce
repronunciation
reproof
reproofless
reproofs
repropagate
repropitiate
repropitiation
reproportion
reproposal
repropose
reproposed
reproposing
repros
reprosecute
reprosecuted
reprosecuting
reprosecution
reprosper
reprotect
reprotection
reprotest
reprovability
reprovable
reprovableness
reprovably
reproval
reprovals
reprove
reproved
reprover
rerating
gerereader
gerereading
gerereads
gererebrace
gererecord
gererecorded
gererecorded
gererecording
gererecords
gereredos
gereredoses
gerere
gerereel
gerereev
ngerereifie
gereregister
gereregistration
ngereregulate
ngereregulated
ngereregulating
ngereregulation
ngerereign
gererelease
ngerermice
ngerermmice
ngerermouse
ngererent
ngerental
ngereresupper
ngerereward
ngererewards
ngerenger
ngerering
ngererise
ngererisen
ngererises
ngererising
ngererival
ngererivet
ngererob
ngererobe
ngereroll
ngererolled
ngereroller
ngerrollers
ngererolling
ngererolls

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 8006
reroof
reroot
rerope
rerose
reroute
rerouted
reroutes
rerouting
rerow
reroyalize
rerub
rerummage
rerun
rerunning
reruns
res
resaca
resack
resacrifice
resaddle
resaddled
resaddles
resaddling
resaid
resail
resailed
resailing
resails
resalable
resale
resaleable
resales
resalgar
resalt
resalutation
resalute
resaluted
resalutes
resaluting
resalvage
resample
resampled
resamples
resampling
resanctify
resanction
resarcelee
resat
resatisfaction
resatisfy
resave
resaw
resawed
resawer
resawing
resawn
resaws
resawyer
resay
resaying
resays
resazurin
rescale
rescaled
rescales
rescaling
rescan
rescattering
reschedule
rescheduled
reschedules
rescheduling
reschool
rescind
rescindable
rescinded
rescinder
rescinding
rescindment
rescinds
rescissible
rescission
rescissions
rescissory
rescore
rescored
rescores
rescoring
rescounter
rescous
rescramble
rescratch
rescreen
rescreened
rescreening
rescreens
rescribe
rescript
rescription
rescriptive
rescriptively
rescripts
rescrub
rescrubbed
rescrubbing
rescrutinies
rescrutinize
rescrutinized
rescrutinizing
rescrutiny
rescuable
rescue
rescued
rescueless
rescuers
rescues
rescuing
rescuer
rescuser
reseal
resealable
resealed
resealing
reseals
reseam
research
researchable
researched
researcher
researchers
researches
researchful
researching
researchist
reseason
reseat
reseated
reseating
reseats
reseau
reseaus
reseaux
resecate
resecrete
resettings
resettle
resettled
resettlement
resettlements
resettles
resettling
resever
resew
resewed
resewing
resewn
resews
resex
resgat
resh
reshake
reshaken
reshaking
reshape
reshaped
reshaper
reshapers
reshapes
reshaping
reshare
reshared
resharing
resharpen
resharpened
resharpening
resharpenens
reshave
reshaved
reshaving
reshear
reshearer
resheathe
reshelve
reshes
reshew
reshift
reshape
reshine
reshined
reshingle
reshingled
reshingling
reshining
residencies
residency
resident
resident's
residential
resider
residential
residentiality
residentially
residentiary
residentialship
residents
residentship
resider
residers
resides
residing
residuum
resids
residua
residual
residually
residuals
residuary
residuation
residue
residue's
residentent
residues
residuous
residua
residuum
residuums
resift
resifted
resifting
resifts
resigh
resight
resign
resignal
resignaled
resignaling
resignatory
resignation
resignation's
resignationism
resignations
resigned
resignedly
resignedness
resigee
resigner
resigners
resignful
resigning
resignment
resigns
resile
resiled
resilement
resiles
resilia
resilial
resiliate
resilience
resiliency
resilient
resiliently
resilifer
resiling
resiliometer
resilition
resilium
resilver
resilvered
resilvering
resivers
resimmer
resin
resin's
resina
resinaceous
resinate
resinated
resinates
resinating
resinbush
resined
resiner
resinfiable
resing
resinic
resiniferous
resinification
resinified
resoak
resoap
resoften
resoil
resojet
resojets
resojourn
resold
resolder
resoldered
resoldering
resolders
resole
resoled
resolemnize
resoles
resolicit
resolicitation
resolidification
resolidify
resoling
resolubility
resoluble
resolubleness
resolute
resolutely
resoluteness
resoluter
resolutes
resolutest
resolution
resolutioner
resolutioner
resolutionist
resolutions
resolutive
resolutory
resolvability
resolvable
resolvableness
resolvancy
resolve
resolved
resolvedly
resolvedness
resolvend
resolvent
resolver
resolvers
respecting
respection
respective
respectively
respectiveness
respectless
respectlessly
respectlessness
respects
respectum
respectuous
respectworthy
respell
respelled
respelling
respells
respelt
respersive
respice
respiced
respicing
respin
respirability
respirable
respirableness
respirating
respiration
respirational
respirations
respirative
respirator
respiratored
respiratorium
respirators
respiratory
respire
respired
respires
respiring
respirit
respirometer
respirometric
respirometry
respite
respited
respiteless
respiteless
respite
respiting
responsor
responsorial
responsories
responsory
responsum
responsusa
respot
resprang
respray
resspread
respreads
respring
respringing
resprings
resprinkle
resprinkled
resprinkling
resprout
resprung
respu
resquander
resquare
resqueak
ressaidar
ressala
ressalah
ressaldar
ressaut
ressentiment
resshot
ressort
rest
restab
restabbed
restabbing
restabilization
restabilize
restabilized
restabilizing
restable
restabled
restabling
restack
restacked
restacking
restacks
restaff
restringency
restringent
restringer
restringing
restrings
restrip
restrive
restriven
restrives
restriving
restoke
restroom
restrove
restruck
restructure
restructured
restructures
restructuring
restrung
rests
restudied
restudies
restudy
restudying
restuff
restuffed
restuffing
restuffs
restung
restward
restwards
resty
restyle
restyled
restyles
restyling
resubject
resubjection
resubjugate
resublimate
resublimated
resublimating
resublimation
resublime
resubmerge
resubmerged
resubmerging
resubmission
resubmissions
resubmit
resubmits
resubmitted
resubmitting
resubordinate
resubscribe
resubscribed
resubscriber
resubscribes
resubscribing
resubscription
resubstantiate
resubstantiated
resubstantiating
resubstantiation
resubstitute
resubstitution
resucceed
resuck
resudation
resue
resuffer
resufferance
resuggest
resuggestion
resuing
resuit
resulfurize
resulfurized
resulfurizing
resulphurize
resulphurized
resulphurizing
result
resultance
resultancy
resultant
resultantly
resultants
resultative
resulted
resultful
resultfully
resultfulness
resulting
resultingly
resultive
resultless
resultlessly
resultlessness
results
resumability
resumable
resume
resumed
resumeing
resumer
resumers
resumes
resuming
resumon
resumonable
resumoned
resumoning
resummons
resumption
resumption's
resumptions
resumptive
resumptively
resun
resup
resuperheat
resupervise
resupinate
resupinated
resupination
resupine
resupplied
resupplies
resupply
resupplying
resupport
resuppose
resupposition
resuppress
resuppression
resurface
resurfaced
resurfaces
resurfacing
resurgam
resurge
resurged
resurgence
resurgences
resurgence
resurgent
resurges
resurging
resurprise
resurrect
resurrected
resurrectible
resurrecting
resurrection
resurrection's
resurrectional
resurrectionary
resurrectioner
resurrectioning
resurrectionism
resurrectionist
resurrectionize
resurrections
resurrectionive
resurrector
resurrectors
resurrects
resurrender
resround
resurvey
resurveyed
resurveying
resurveys
resuscitable
resuscitant
resuscitate
resuscitated
resuscitates
resuscitating
resuscitation
resuscitative
resuscitator
resuscitators
resuspect
resuspend
resuspension
reswage
reswallow
resward
reswarm
reswear
retailed
retailor
retailers
retails
retain
retainability
retainable
retainableness
retainal
retainder
retained
retainer
retainers
retainership
retaining
retainment
retains
retake
retaken
retaker
retakers
retakes
retaking
retal
retaliate
retaliated
retaliates
retaliating
retaliating
retaliations
retaliative
retaliator
retaliators
retaliatory
retalk
retallies
retally
retama
retame
retan
retanned
retanner
retanning
retape
retaped
retaping
retar
retard
retardance
retardant
retardants
retardate
retardates
retardation
retardative
retardatory
retarded
retardee
retardence
retardent
retarder
retarders
retarding
retardingly
retardive
retardment
retards
retardure
retare
retariff
retarred
retarring
retaste
retasted
retastes
retasting
retation
retattle
retaught
retax
retaxation
retch
retched
retches
retching
retchless
retd
rete
reteach
reteaches
reteaching
retear
retearing
retecious
retelegraph
rethrash
rethread
rethreaded
rethreading
rethreads
rethreaten
rethresh
rethresher
rethrill
rethrive
rethrone
rethrow
rethrust
rethunder
retia
retial
retiarian
retiarii
retiarius
reтиary
reтicella
reтicello
reтиcence
reтиceries
reтиcency
reтиcent
reтиcently
reтиcket
reтиcle
reтиcle’s
reтиcles
reтиcula
reтиcular
reтиcularian
reтиcularly
reтиcuary
reтиculate
reтиculated
reтиculatedly
reтиculates
reтиculating
reтиculation
reтиculatocoalescent
reтиculatogranulate
reтиculatoramose
reтиculatovenose
reтиcule
reтиculed
retroclusion
retrocognition
retrocognitive
retrocolic
retroconsciousness
retrocopulant
retrocopulation
retrocostal
retrocouple
retrocoupler
retrocurved
retrod
retrodate
retrodden
retrodeviation
retrodirective
retrodisplacement
retroduction
retrodural
retroesophageal
retrofire
retrofired
retrofires
retrofiring
retrofit
retrofits
retrofitted
retrofitting
retroflexed
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retroflexed
retroflexion
retroflex
retruded
retruding
retrue
retruse
retrusable
retrusional
retrust
retry
retrying
rets
retsina
retsinas
retted
retter
retteries
retty
retting
rettore
rettorn
rettory
retube
retuck
retumble
retumescence
retund
retunded
retunding
retune
retuned
retunes
returning
returnban
returnf
returnfer
return
returnability
returnable
returned
returnee
returnees
returner
returners
returning
returnless
returnlessly
returns
retuse
revaluate
revaluated
revaluates
revaluing
revaluation
revaluations
revalue
revalued
revalues
revaluing
revamp
revamped
revamper
revampers
revamping
revampment
revamps
revanche
revanches
revanchism
revanchist
revaporization
revaporize
revaporized
revaporizing
revarnish
revarnished
revarnishes
revarnishing
revary
revay
reve
reveal
revealability
revealable
revealableness
revealed
revealedly
reveler
revealers
revealing
revealingly
revealingness
revealment
reveals
revegetate
revegetated
revegetating
revengeful
revengefully
revengefulness
revengeless
revengement
revenger
revengers
revenges
revenging
revengingly
revent
reventilate
reventilated
reventilating
reventilation
reventure
revenual
revenue
revenued
revenuer
revenuers
revenues
rever
reverable
reverb
reverbatory
reverberant
reverberantly
reverberate
reverberated
reverberates
reverberating
reverberation
reverberations
reverberative
reverberator
reverberatories
reverberators
reverberatory
reverbrate
reverbs
reverdi
reverdure
revere
revered
revere
reverence
reverenced
reverencer
reverencers
reverences
reverencing
reverend
reverend's
reverendly
reverends
reverendship
reverent
reverential
reverentiality
reverentially
reverentialness
reverently
reverentness
reverer
reverers
reveres
reverie
reveries
reverification
reverifications
reverified
reverifies
reverify
reverifying
revering
reverist
revers
reversability
reversible
reversal
reversal's
reversals
reverse
reversed
reversedly
reverseful
reverseless
reversely
reversement
reverser
reversers
reverses
reverseways
reversewise
reversewise
reversi
revince
revindicate
revindicated
revindicates
revindicating
revindication
reviolate
reviolated
reviolating
reviolation
revirado
revirescence
revirescent
revisable
revisableness
revisal
revisals
revise
revised
revisee
reviser
revisers
revisership
revises
revisible
revising
revision
revision's
revisional
revisionary
revisionism
revisionist
revisionists
revisions
revisit
revisitable
revisitant
revisitation
revisited
revisiting
revisits
revisor
revisors
revisory
revisualization
revisualize
revisualized
revisualizing
revitalisation
revitalise
revitalised
revitalising
revitalization
revitalize
revitalized
revitalizer
revitalizes
revitalizing
revivability
revivable
revivably
revival
revival's
revivalism
revivalist
revivalistic
revivalists
revitalize
revivals
revivatory
revive
revived
revivement
reviver
revivers
revives
revivescence
revivescency
revivification
revivified
revivifier
revivifies
revivy
revivifying
reviving
revivingly
reviviscence
reviviscency
reviviscent
reviviscible
revivor
revocability
revocability
revocable
revocableness
rhapontic
rhaponticin
rhapontin
rhapsode
rhapsodes
rhapsodic
rhapsodical
rhapsodically
rhapsodie
rhapsodies
rhapsodism
rhapsodist
rhapsodistic
rhapsodists
rhapsodize
rhapsodized
rhapsodizes
rhapsodizing
rhapsodomancy
rhapsody
rhason
rhosphore
rhatania
rhatanies
rhatany
rhatikon
rhib
rhd
rhe
rhea
rheadine
rheas
rhebok
rheboks
rhebosis
rhedae
rhedas
rheeboc
rheebok
rheen
rhegmatotype
rhegmatypy
rheic
rhein
rheinberry
rheingold
rheinic
rhema
rhematic
rhematology
rheme
rhemish
rhenea
rhenic
rhenish
rhenium
rheniums
rheo
rheobase
rheobases
rheocrat
rheologic
rheological
rheologically
rheologies
rheologist
rheologists
rheology
rheometer
rheometers
rheometric
rheometry
rheopexy
rheophil
rheophile
rheophilic
rheophore
rheophoric
rheoplankton
rheoscope
rheoscopic
rheostat
rheostatic
rheostatics
rheostats
rheotactic
rheotan
rheotaxis
rheotome
rheotron
rheotrope
rheotropic
rheotropism
rhesian
thesis
rhinolithic
rhinologic
rhinological
rhinologist
rhinology
rhinolophid
rhinolophine
rhinopharyngeal
rhinopharyngitis
rhinopharynx
rhinophonia
rhinophore
rhinophyma
rhinoplastic
rhinoplasty
rhinopolypus
rhinorrhagia
rhinorrhea
rhinorrheal
rhinorrhoea
rhinos
rhinoscleroma
rhinoscope
rhinoscopic
rhinoscopy
rhinosporidiosis
rhinosporidium
rhinotheca
rhinothecal
rhinovirus
rhipidate
rhipidion
rhipidistian
rhipidium
rhipidoglossal
rhipidoglossate
rhipidopterous
rhipiphorid
rhipipteran
rhipipterous
rhizanth
rhizanthous
rhizautoicous
rhizine
rhizinous
rhizobia
rhizobium
rhizocarp
rhizocarpean
rhizocarpian
rhizocarpic
rhizocarpous
rhizocaual
rhizocaulus
rhizocephalan
rhizocephalid
rhizocephalous
rhizocorm
rhizoctonia
rhizoctoniose
rhizodermis
rhizoflagellate
rhizogen
rhizogenesis
rhizogenetic
rhizogenic
rhizogenous
rhizoid
rhizoidal
rhizoids
rhizoma
rhizomata
rhizomatic
rhizomatous
rhizome
rhizomelic
rhizomes
rhizomic
rhizomorph
rhizomorphic
rhizomorphoid
rhizomorphous
rhizoneure
rhizophagous
rhizophilous
rhizophora
rhizophoraceous
rhizophore
rhizophorous
rhizophyte
rhizopi
rhizoplane
rhizoplast
rhizopod
rhizopoda
rhizopodal
rhodolite
rhodomelaceous
rhodomontade
rhodonite
rhodophane
rhodophyceous
rhodophyll
rhodoplast
rhodopsin
rhodora
rhodoras
rhodorhiza
rhodosperm
rhodosperrmin
rhodosperrmous
rhodymeniaceous
rhomb
rhombecephala
rhombecephalon
rhombecephalons
rhombenla
rhombenporphyr
rhombi
rhombic
rhombical
rhombiform
rhomboclase
rhombogonoid
rhombogene
rhombogenic
rhombogenous
rhombohedra
rhombohedral
rhombohedrally
rhombohedric
rhombohedron
rhombohedrons
rhomboid
rhomboidal
rhomboidally
rhomboidei
rhomboides
rhomboideus
rhomboidly
rhomboids
rhomboquadratic
rhomboquadric
rhomboquadric
rhombovate
rhombs
rhombus
rhombuses
rhoncal
rhonchal
rhonchi
rhonchial
rhonchus
rhopalic
rhopalism
rhopalium
rhopaloceral
rhopalocerous
rhos
rhotacism
rhotacismus
rhotacist
rhotacistic
rhotacize
rhotic
rhubarb
rhubarbs
rhubarby
rhub
rumba
rumbaed
rumbaing
rumbas
rumbatron
rumbs
rhus
rhuses
rhyacolite
rhyme
rhymed
rhymeless
rhymelet
rhymemaker
rhymemaking
rhymeproof
rhymer
rhymers
rhymery
rhymes
rhymester
rhymesters
rhymewise
rhymic
rhyming
rhymist
rhymy
rhynerocephalian
rhynerocephalic
rhynerocephalous
rhyneroceelan
rhynerocoelle
rhynerocoelic
rhynerocoelous
rhynerodont
rhynerolite
rhyneronellloid
rhynerophoran
rhynerophore
rhynerophorous
rhynerotal
rhynerote
rhynerotous
rhyneroneloid
rhyoria
rhyobasalt
rhyodacite
rhyolite
rhyolites
rhyolitic
rhyotaxitic
rhytopigrapher
rhytopigraphic
rhytopigraphist
rhytopigraphy
rhytopgraphy
rhythic
rhythical
rhythimeter
rhythya
rhythm
rhythm's
rhythmal
rhythmed
rhythmic
rhythmical
rhythmicality
rhythmically
rhythmities
rhythmicity
rhythmizize
ribbands
ribbed
ribber
ribbers
ribbet
ribbridge
ribbier
ribbiest
ribbing
ribbings
rible
ribbon
ribbon's
ribbonback
ribboned
ribboner
ribbonfish
ribbonfishes
ribboning
ribbonlike
ribbonmaker
ribbonry
ribbons
ribbonweed
ribbonwood
ribbony
ribby
ribe
ribes
ribgrass
ribgrasses
ribibe
ribless
riblet
riblets
riblike
riboflavin
ribonic
ribonuclease
ribonucleic
ribonucleoprotein
ribonucleoside
ribonucleotide
ribose
riboses
riboso
ribosomal
ribosome
ribosomes
ribosos
riboza
ribozo
ribozos
ribroast
ribroaster
ribroasting
ribs
ribskin
ribspare
ribston
ribwork
ribwort
ribworts
ribzuba
ricardian
ricasso
ricciaceous
rice
ricebird
ricebirds
ricecar
ricecars
riced
ricegrass
riceland
ricer
ricercar
ricercare
ricercari
ricercars
ricercata
ricers
rices
ricey
rich
richard
richardson
richdom
riche
richellite
richen
richened
richening
richens
richer
riches
rigaudon
rigaudons
righbane
rigel
rigescence
rigescent
riggal
riggald
rigged
rigger
riggers
rigging
riggings
riggish
riggite
riggot
right
rightable
rightabout
righted
righten
righteous
righteously
righteousness
righter
righters
rightest
rightforth
rightful
rightfully
rightfulness
righthand
rightheaded
righthearted
righties
righting
rightish
rightism
rightisms
rightist
rightists
rightle
rightless
rightlessness
rightly
rightmost
rightness
righto
rights
rightship
rightward
rightwardly
rightwards
righty
rigid
rigidification
rigidified
rigidifies
rigidify
rigidifying
rigidist
rigidities
rigidity
rigidly
rigidness
rigidulous
riginal
riglet
rigling
rigmareae
rigmarole
rigmarolery
rigmaroles
rigmarolic
rigmarolish
rigmarolishly
rignum
rigodon
rigol
rigole
rigolet
rigolette
rigor
rigorism
rigorisms
rigorist
rigoristic
rigorists
rigorous
rigorously
rigorousness
rigors
rigour
rigourism
rigourist
rigouristic
rimbase
rime
rimed
rimeless
rimer
rimers
rimery
rimes
rimester
rimesters
rimfire
rimier
rimiest
rimiform
riming
rimland
rimlands
rimless
rimmaker
rimmaking
rimmed
rimmer
rimmers
rimming
rimose
rimosely
rimosities
rimosity
rimous
rimpi
rimple
rimpled
rimples
rimpling
rimption
rimations
rimrock
rimrocks
rims
rimstone
rimu
rimula
rimulose
rimy
rin
rinceau
rinceaux
rinch
romanium
romanization
romanize
romanized
romanizes
romanizing
romano
romanos
romans
romanh
romantic
romantic's
romantical
romanticalism
romanticality
romantically
romanticalness
romanticise
romanticism
romanticist
romanticistic
romanticists
romanticity
romanticization
romanticize
romanticized
romanticizes
romanticizing
romanticly
romanticness
romantics
romantism
romantist
romany
romanza
romaunt
romaunts
romble
rombos
rombowlíne
rome
romeine
romeite
romeldale
romeo
romerillo
romero
romeros
romeward
romic
romish
rommack
romney
romp
romped
rompee
romper
rompers
romping
rompingly
rompish
rompishly
rompishness
romps
rompu
rompy
roms
romulus
romyko
ronald
roncador
roncet
roncho
ronco
roncos
rond
rondache
rondacher
rondawel
ronde
rondeau
rondeaux
rondel
rondelet
rondeletia
rondelets
rondelier
rondelle
rondelles
rondelier
rondels
rondino
rondle
rondo
rondoletto
rondos
rondure
rondures
rone
rongeur
ronggeng
ronier
ronin
ronion
ronions
ronnel
ronnels
ronquil
rontgen
rontgenism
rontgenize
rontgenized
rontgenizing
rontgenographic
rontgenographically
rontgenography
rontgenologic
rontgenological
rontgenologist
rontgenology
rontgenoscope
rontgenoscopic
rontgenoscopy
rontgens
ronyon
ronyons
roo
rood
roodebok
roodle
roodles
roods
roodstone
rooed
roof
roofage
roofed
roofer
roofers
roofing
roofings
roofless
rooflet
rooflike
ropemaking
ropeman
ropemen
roper
roperies
roperipe
ropers
ropery
ropes
ropesmith
ropetrick
ropewalk
ropewalker
ropewalks
ropeway
ropeways
ropework
ropey
ropier
ropiest
ropily
ropiness
ropinesses
roping
ropish
ropishness
ropeloch
ropp
ropy
roque
roquefort
roquelaure
roquelaures
roquellorz
roquer
roques
roquet
roqueted
roqueting
roquets
roquette
roquille
roquist
roral
roratorio
roric
rorid
roriferous
rosebuds
rosebush
rosebushes
rosed
rosedrop
rosefish
rosefishes
rosehead
rosehill
rosehiller
rosehip
roseine
rosel
roseeless
roselet
roselike
roselite
rosella
rosellate
roselle
roselles
rosemaling
rosemaries
rosemary
rosenbuschite
roseola
roseolar
roseolas
roseoliform
roseolous
roseous
roseries
roseroot
roseroots
rosery
roses
roset
rosetan
rosetangle
rosetime
roses
rosette
rosetted
rosettes
rosetty
rosetum
roseyp
rosewater
rosters
rostra
rostral
rostrally
rostrate
rostrated
rostriferous
rostriform
rostroantennary
rostrobranchial
rostrocarinate
rostrocaudal
rostroid
rostrolateral
rostrular
rostrulate
rostrulum
rostrum
rostrums
rostra
rosular
rosulate
rosy
rot
rota
rotacism
rotal
rotalian
rotaliform
rotaliform
rotaman
rotamen
rotameter
rotan
rotang
rotarian
rotarianize
rotaries
rotary
rotas
rotascope
rotatable
rotatably
rotate
rotated
rotates
rotating
rotation
rotational
rotationally
rotations
rotative
rotatively
rotativism
rotatodentate
rotatoplane
rotator
rotatores
rotatoria
rotatorian
rotators
rotatory
rotavist
rotch
roche
rotches
rote
rotella
rotenone
rotenones
roter
rotes
rotge
rogut
roguts
rother
rothermuck
rothesay
roti
rotifer
rotifera
rotiferal
rotiferan
rotiferous
rotifers
rotiform
rotisserie
rotisseries
rotl
rots
rods
roto
rotocraft
rotodyne
rotograph
rotogravure
rotogravures
rotundiform
rotundify
rotundities
rotundity
rotundly
rotundness
rotundo
rotundotetragonal
roture
roturier
roturiers
roub
rouble
roubles
roubouh
rouche
rouches
roucou
roud
roudas
roue
rouelle
rouen
rouens
rouerie
roues
rouge
rougeau
rougeberry
rouged
rougelike
rougemontite
rougeot
rouges
rough
roughage
roughages
roughcast
roughcaster
roughcasting
roughdraft
roughdraw
roughdress
roughdried
roughdries
roughdry
roughdrying
roughed
roughen
roughened
roughener
roughening
roughens
rougher
roughers
roughest
roughet
roughfooted
roughhearted
roughheartedness
roughhew
roughhewed
roughhewer
roughhewing
roughhewn
roughhews
roughhouse
roughhoused
roughhouser
roughhouses
roughhousing
roughhousy
roughie
roughing
roughings
roughish
roughishly
roughishness
roughleg
roughlegs
roughly
roughneck
roughnecks
roughness
roughnesses
roughometer
roughridge
roughrider
roughroot
roughs
roughscuff
roughsetter
roughshod
roughslant
roughsome
roughstring
roughstuff
rought
roughtail
roughtailed
roughwork
roughwrought
rougly
rouging
rougy
rouille
rouky
roulade
roulades
rouleau
rouleaus
rouleaux
roulette
rouletted
roulettees
rouletteing
rouman
roumanian
roumeliote
roun
rounce
rounceval
rouncival
rouncy
round
roundabout
roundaboutly
roundaboutness
rounded
roundedly
roundedness
roundel
roundelay
roundelays
roundeleer
roundels
rounder
rounders
roundest
roundfish
roundhead
roundheaded
roundheadedness
roundheel
rubato
rubatos
rubbaboo
rubbaboons
rubbed
rubbee
rubber
rubber's
rubberer
rubberiness
rubberise
rubberised
rubberising
rubberize
rubberized
rubberizes
rubberizing
rubberless
rubberlike
rubberneck
rubbernecked
rubbernecker
rubbernecking
rubbernecks
rubbernose
rubbers
rubberstone
rubberwise
rubbery
rubbing
rubblings
rubbingstone
rubbio
rubbish
rubbishes
rubbishing
rubbishingly
rubbishly
rubbishry
rubbisy
rubble
rubbled
rubbler
rubbles
rubblestone
rubblework
rubblier
rubbliest
rubbling
rubbly
rubby
rubdown
rubdowns
rube
rubedinous
rubedity
rubefacience
rubefacient
rubefaction
rubefy
rubelet
rubella
rubellas
rubelle
rubellite
rubellosis
rubens
rubeola
rubeolar
rubeolas
rubeoloid
ruberythric
ruberythrinic
rubes
rubescence
rubescent
rubaceous
rubacin
rubian
rubianic
rubiate
rubiator
rubible
rubican
rubicelle
rubicon
rubiconed
rubicund
rubicundity
rubidic
rubidine
rubidium
rubidiums
rubied
rubier
rubies
rubiest
rubific
rubification
rubificative
rubify
rubiginose
rubiginous
rubigo
rubigos
rubijervine
rubin
rubine
rubineous
rubious
ruble
ruble's
rubles
rublis
rubor
rubout
rubrail
rubric
rubrica
rubrical
rubricality
rubrically
rubricate
rubricated
rubricating
rubrication
rubricator
rubrician
rubricism
rubricist
rubricity
rubricize
rubricose
rubrics
rubrific
rubrification
rubrify
rubrisher
rubrospinal
rubs
rubstone
rubus
ruby
ruby's
rubyng
rubylike
rubytail
rhythroat
rubywise
rubthroat
rucervine
rucervus
ruche
ruches
ruching
ruchings
ruck
rucked
rucker
rucking
ruckle
ruckling
rucks
rucksack
rucksacks
rucksey
ruckus
ruckuses
rucky
ructation
ruction
ructions
ructious
rud
rudaceous
rudas
rudbeckia
rudd
rudder
rudder's
rudderfish
rudderfishes
rudderhead
rudderhole
rudderless
rudderlike
rudderpost
rudders
rudderstock
ruddervator
ruddied
ruddier
ruddiest
ruddily
ruddiness
ruddish
ruddle
ruddled
ruddled
ruddled
ruddleman
ruddlemen
ruddles
ruddling
ruddock
ruddocks
rudds
ruddy
ruddyish
rude
rudely
rudeness
rudenesses
rudented
rudentre
ruder
rudera
ruderal
ruderals
ruderate
rudesbies
rudesby
rudesheimer
rudest
rudge
rudiment
rudiment's
rudimental
rudimentarily
rudimentariness
rudimentary
rudimentation
rudiments
rudinsky
rudish
rudistan
rudistid
rudity
rudloff
rudolphine
rudous
rue
ruficarpous
ruficaudate
ruficoccin
ruficornate
rufigalic
rufoferruginous
rufofulvous
rufofuscous
rufopiceous
rufosity
rufotestaceous
rufous
rufter
rufulous
rufus
rug
rug's
uga
rugae
rugal
rugate
rugbies
rugby
rugged
ruggeder
ruggedeest
ruggedization
ruggedize
ruggedly
ruggedness
ruger
ruggers
rugging
ruggle
ruggown
ruby
rugheaded
rugin
ruglike
rugmaker
rugmaking
rugosa
rugose
rugosely
rugosities
rugosity
rugous
rugs
ruminant
ruminantia
ruminantly
ruminants
ruminate
ruminated
ruminates
ruminating
ruminatingly
ruminations
ruminative
ruminatively
ruminator
ruminators
rumkin
rumless
rumly
rummage
rummaged
rummager
rummagers
rummages
rummaging
rummagy
rummer
rummers
rummery
rummes
rummest
rummier
rummies
rummiest
rummily
rumminess
rummish
rummlle
rummy
rumness
runney
rumor
rumored
rumorer
rumoring
rumormonger
rumorous
rumorproof
rumors
rupicolous
rupie
rupitic
ruptile
ruption
ruptive
ruptuary
rupturable
rupture
ruptured
ruptures
rupturewort
rupturing
rural
ruralisation
ruralise
ruralised
ruralises
ruralising
ruralism
ruralisms
ruralist
ruralists
ruralite
ruralites
ruralities
rurality
ruralization
ruralize
ruralized
ruralizes
ruralizing
rurally
ruralness
rurban
ruridecanal
rurigenous
ruru
rusa
ruse
ruses
rush
rushbush
rushed
rushee
rushees
rushen
rusher
saboteur
saboteurs
sabotier
sabotine
sabots
sabra
sabras
sabre
sabrebill
sabred
sahres
sabretooth
sahreur
sabring
sabromin
sahs
sabuline
sabulite
sabulose
sabulosity
sabulous
sabulum
saburra
saburral
saburate
saburrate
saburration
sabutan
sabzi
sac
sacahuiste
sacalait
sacaline
sacate
sacaton
sacatons
sacatra
sacbrood
sacbuts
saccade
saccades
saccagde
saccadic
saccage
saccarify
saccarimeter
saccate
saccated
saccharamide
saccharase
saccharate
saccharated
saccharephydrosis
saccharic
saccharide
sacchariferous
saccharification
saccharified
saccharifier
saccharify
saccharifying
saccharilla
saccharimeter
saccharimetric
saccharimetical
saccharimetry
saccharin
saccharinate
saccharinated
saccharine
saccharineish
saccharinely
saccharinic
saccharinity
saccharization
saccharize
saccharized
saccharizing
saccharobacillus
saccharobiose
saccharobutyric
saccharoceptive
saccharoceptor
saccharochromotropic
saccharocolloid
saccharofarinaceous
saccharogalactorrhea
saccharogenic
saccharohumic
saccharoid
saccharoidal
saccharolactonic
saccharolytic
saccharometabolic
saccharometabolism
saccharometer
saccharometric
saccharometrical
saccharometry
saccharomucilaginous
saccharomyces
saccharomycetaceous
saccharomycete
saccharomycetic
saccharomycosis
saccharon
saccharonate
saccharone
saccharonic
saccharophylly
saccharorrhea
saccharoscope
saccharose
saccharostarchy
saccharosuria
saccharotriose
saccharous
saccharulmic
saccharulmin
saccharum
saccharuria
sacchulmin
sacciferous
sacciform
saccl
saccobranchiate
saccoderm
saccolabium
saccomyian
saccomyid
saccomyine
saccomyoid
saccomyoidean
saccoon
saccos
saccular
sacculate
sacculated
sacculation
saccule
saccules
sacculi
sacculoutricular
sacculus
saccus
sacela
sacella
sacellum
sacerdoy
sacerdos
sacerdotage
sacerdotal
sacerdotalism
sacerdotalist
sacerdotalize
sacerdotally
sacerdotical
sacerdotism
sacerdotium
sachamaker
sachcloth
sachem
sachemdom
sachemic
sachems
sachemship
sachet
sacheted
sachets
sack
sackage
sackamaker
sackbag
sackbut
sackbuts
sackbutt
sackcloth
sackclothed
sackdoudle
sacked
sacken
sacker
sackers
sacket
sackful
sackfuls
sacking
sackings
sackless
sacklike
sackmaker
sacroinguinal
sacroischiac
sacroischiacal
sacroischiatric
sacrolumbal
sacrolumbalis
sacrolumbar
sacropectineal
sacropeneal
sacrorectal
sacrosanct
sacrosanctity
sacrosanctness
sacrosanctness
sacrosciatic
sacrosecular
sacrospinal
sacrospinalis
sacrospinous
sacrotomy
sacrotuberosus
sacrovertebral
sacrum
sacrams
sacy
sacs
sad
sadaqat
sadden
sadden
saddening
saddeningly
saddens
sadder
saddest
saddhu
saddhus
saddik
saddirham
saddish
saddle
saddleback
saddlebacked
saddlebag
saddlebags
saddlebill
saddlebow
saddlebows
saddlecloth
saddlecloths
saddled
saddleleaf
saddleless
saddlelike
saddlemaker
saddlenose
saddler
saddleries
saddlers
saddlery
saddles
saddlesick
saddlesore
saddlesoreness
saddlestead
saddletree
saddletrees
saddlewise
saddling
sadducaic
sadducean
sadducee
sadducees
sade
sades
sadh
sadhaka
sadhana
sadhe
sadhearted
sadheartedness
sadhes
sadhika
sadhu
sadhus
sadi
sadic
sadiron
sadirons
sadis
sadism
sadisms
sadist
sadist's
sagamen
sagamite
sagamore
sagamores
sagan
saganash
saganashes
sagapen
sagapenum
sagas
sagathy
sagbut
sagbuts
sage
sagebrush
sagebrusher
sagebrushes
sagebush
sageer
sageleaf
sagely
sagene
sageness
sagenesses
sagenite
sagenitic
sager
sageroses
sages
sageship
sagesse
sagest
sagewood
saggar
saggard
saggards
saggared
saggaring
saggars
sagged
sagger
saggered
saggering
saggers
saggier
saggiest
sagginess
sagging
salad's
salada
saladang
saladangs
salade
saladero
saladin
salading
salads
salago
salagrama
salal
salamandarin
salamander
salamanderlike
salamanders
salamandra
salamandrian
salamandriform
salamandrin
salamandrine
salamandroid
salamat
salambao
salame
salami
salamis
salamo
salampore
salamstone
salangane
salangid
salar
salariat
salarials
salaried
salariego
salaries
salary
salarying
salaryless
salat
salay
salband
salchow
saldid
sale
sale's
salicins
salicional
salicorn
salicornia
salicyl
salicylal
salicylaldehyde
salicylamide
salicylanilide
salicylase
salicylate
salicylic
salicylide
salicylidene
salicylism
salicylize
salicylous
salicyluric
salicylyl
salience
saliences
saliencies
saliency
salient
salientian
saliently
salientness
salients
saliferous
salifiable
salification
salified
salifies
salify
salifying
saligenin
saligenol
saligot
saligram
salimeter
salimetry
salina
salinas
salination
saline
salinelle
salineness
salines
saliniferous
salinification
saliniform
salinities
salinity
salinization
salinize
salinized
salinizes
salinizing
salinometer
salinometry
salinosulphureous
salinoterreous
salique
saliretin
salisbury
salish
salite
salited
saliva
salival
salivant
salivary
salivas
salivate
salivated
salivates
salivating
salivation
salivator
salivatory
salivous
salix
sall
salle
sallee
salleeman
salleemen
sallender
sallenders
sallet
sallets
sallied
sallier
salliers
sallies
salloo
saltless
saltlessness
saltlike
saltly
saltmaker
saltmaking
saltman
saltmouth
saltness
saltnesses
saltometer
saltorel
saltpan
saltpans
saltpeter
saltpetre
saltpetrous
saltpond
salts
saltshaker
saltspoon
saltspoonful
saltsprinkler
saltus
saltuses
saltwater
saltweed
saltwife
saltwork
saltworker
saltworks
saltwort
saltworts
salty
salubrify
salubrious
salubriously
salubriousness
salubrities
salubrity
salud
saluda
salue
salugi
saluki
salukis
salung
salus
salvationist
salvations
salvator
salvatory
salve
salved
salveline
salver
salverform
salvers
salves
salvia
salvianin
salvias
salvific
salvifical
salvifically
salvifics
salving
salvinaceous
salviol
salvo
salvoed
salvoes
salvoing
salvor
salvors
salvos
salvy
salwin
salzfelle
sam
samadh
samadhi
samaj
saman
samara
samaras
samaras
samaria
samariform
samaritan
samaritans
samarium
samariums
samaroid
samarra
samarSKite
samba
sambaed
sambaing
sambal
sambaqui
sambaquis
sambar
sambars
sambas
sambel
sambhar
sambhars
sambhogakaya
sambhur
sambhurs
sambo
sambos
sambouk
sambouse
sambuca
sambucas
sambuk
sambuke
sambukes
sambul
sambunigrin
sambur
samburs
same
samech
samechs
samek
samekh
samekhs
sameks
samel
sameliness
samely
samen
sameness
samenesses
samesome
samfoo
samgha
samh
samh’in
samhita
samian
samiel
samiels
samiresite
samiri
samisen
samisens
samite
samites
samiti
samizdat
samkara
samkhyia
samlet
samlets
sammel
sammer
sammier
sammy
sannani
samnite
samoa
samoan
samoans
samogon
samogonka
samohu
samory
samosatenian
samothere
samothracian
samovar
samovars
samoyed
samp
sampaguita
sampaloc
sampan
sampans
sampshire
samphires
sampi
sample
sampled
sampleman
samplesmen
sample
samplers
samplery
samples
sanctifications
sanctified
sanctifiedly
sanctifier
sanctifiers
sanctifies
sanctify
sanctifying
sanctifyingly
sanctilogy
sanctiloquent
sanctimonial
sanctimonious
sanctimoniously
sanctimoniousness
sanctimony
sanction
sanctionable
sanctionableness
sanctionary
sanctionative
sanctioned
sanctioner
sanctioners
sanctioning
sanctionist
sanctionless
sanctionment
sanctions
sanctities
sanctitude
sanctity
sanctologist
sanctorian
sanctorium
sanctuaried
sanctuaries
sanctuarize
sanctuary
sanctuary's
sanctum
sanctums
sanctus
sancyite
sand
sandak
sandal
sandal's
sandalized
sandaliform
sandaling
sandalled
sandalling
sandals
sandalwood
sandalwoods
dsandalwort
sandan
sandarac
sandaracin
sandaracs
sandastra
sandastron
sandbag
sandbagged
sandbagger
sandbaggers
sandbagging
sandbags
sandbank
sandbanks
sandbar
sandbars
sandbin
sandblast
sandblasted
sandblaster
sandblasters
sandblasting
sandblasts
sandblind
sandblindness
sandboard
sandbox
sandboxes
sandboy
sandbug
sandbur
sandburr
sandburrs
sandburs
sandclub
sandculture
sanded
sandemanian
sander
sanderling
sanders
sanderswood
sandfish
sandishes
sandflies
sandflower
sandfly
sandglass
sandgoby
sandgrouse
sandheat
sandhi
sandhill
sandhis
sandhog
sandhogs
sandhya
sandia
sandier
sandies
sandiest
sandiferous
sandiness
sanding
sandiver
sandix
sandkey
sandlapper
sandless
sandlike
sandling
sandlings
sandlot
sandlots
sandlotter
sandlotters
sandman
sandmen
sandmite
sandmutter
sandnatter
sandneccker
sandpaper
sandpapered
sandpaperer
sandpapering
sandpapers
sandpapery
sandpeep
sandpeeps
sandpile
sandpiles
sandpiper
sandpipers
sandpit
sandpits
sandproof
sandra
sandrock
sandroller
sands
sandshoe
sandsoap
sandsoaps
sandspit
sandspout
sandspur
sandstay
sandstone
sandstones
sandstorm
sandunga
sandust
sandweed
sandweld
sandwich
sandwiched
sandwiches
sandwiching
sandwood
sandworm
sandworms
sandwort
sandworts
sandy
sandyish
sandyx
sane
saned
sanely
sanemindedness
saneness
sanenesses
saner
sanes
sanest
sanforized
sang
sanga
sangah
sangamon
sangar
sangaree
sangarees
sangars
sangas
sangei
sanger
sangerbund
sangerfest
sangers
sangfroid
sanggau
sangh
sangha
sanghs
sangil
sanglant
sangley
sanglier
sangrail
sangreal
sangreeroot
sangrel
sangria
sangrias
sangsue
sangu
sanguicolous
sanguifacient
sanguiferous
sanguification
sanguifier
sanguifluous
sanguify
sanguimotor
sanguimotory
sanguinaceous
sanguinaria
sanguinarily
sanguinariness
sanguinary
sanguine
sanguineless
sanguinely
sanguinene
sanguineobilious
sanguineophlegmatic
sanguineous
sanguineousness
sanguineovascular
sanguines
sanguinicolo
sanguiniferous
sanguinification
sanguinis
sanguinism
sanguinity
sanguinivorous
sanguinocholeric
sanguinolency
sanguinolent
sanguinometer
sanguinopoietic
sanguinopurulent
sanguinous
sanguinuity
sanguisuge
sanguisugent
sanguisugous
sanguivoros
sanhedrim
sanhedrin
sanicle
sanicles
sanidine
sanidinic
sanidinite
sanies
sanification
sanify
saning
sanious
sanipractic
sanit
sanitaria
sanitarian
sanitarians
sanitaries
sanitariia
sanitariiums
sanitarily
sanitariness
sanitarist
sanitarium
sanitariums
sanitary
sanitate
sanitaded
sanitates
sanitating
sanitation
sanitationist
sanities
sanitisation
sanitise
sanitised
sanitises
sanitising
sanitist
sanitization
sanitize
sanitized
sanitizer
sanitizes
sanitizing
sanitoria
sanitorium
sanity
sanjak
sanjakate
sanjakbeg
sanjaks
sanjakship
sank
sanka
sankha
sankhya
sammaite
sannhemp
sannop
sannops
sannup
sannups
sannyasi
sannyasin
sannyasis
sanopurulent
sanoserous
sans
sansar
sansara
sansars
sansculot
sansculotte
sansculottic
sansculottid
sansculottish
sansculottism
sansei
sanseis
sanserif
sanserifs
sansevieria
sanshach
sansi
sanskrit
sanskritic
sant
santa
santal
santalaceous
santalic
santalin
santalol
santalwood
santapee
santar
santee
santene
santiago
santification
santii
santimi
santims
santir
santirs
santol
santolina
santols
santon
santonate
santonic
santonica
santonin
santonine
santoninic
santonins
sapidaship
sapindus
sapit
sapiutan
saple
sapless
saplessness
sapling
sapling's
saplinghood
sappings
sapro
sapodilla
sapodillo
sapogenin
saponaceous
saponaceousness
saponacity
saponarin
saponary
saponated
saponiferous
saponifiable
saponification
saponified
saponifier
saponifies
saponify
saponifying
saponin
saponine
saponines
saponins
saponite
saponites
saponul
saponule
sapophoric
sapor
saporific
saporifical
saporosity
saporous
sapors
sapota
sapotaceous
sapotas
sapote
sapotilha
sapotilla
sapotoxin
sapour
sapours
sappanwood
sappare
sapped
sapper
sappers
sapphic
sapphics
sapphira
sapphire
sapphireberry
sapphired
sapphires
sapphirewing
saphhiric
sapphirine
sapphism
sapphisms
sapphist
sapphists
sappho
sappier
sappiest
sappily
sappiness
sapping
sapples
sappy
sapraemia
sapremia
sapremias
sapremic
saprin
saprine
saprobe
saprobes
saprobic
saprobically
saprobiont
saprocoll
saprodil
saprodontia
saprogen
saprogenic
saprogenicity
saprogenous
saproleignia
saprolegniaceous
saproleginiious
saprolite
saprolitic
sapromic
sapropel
sapropelic
sapropelite
saprops
saprophagan
saprophagous
saprophile
saprophilous
saprophyte
saprophytes
saprophytic
saprophytically
saprophytism
saproplankton
saprostomous
saprozoic
saprozoon
saps
sapsago
sapsagos
sapsap
sapskull
sapsuck
sapsucker
sapsuckers
sapucaia
sapucainha
sapwood
sapwoods
sapwort
saquaro
sar
saraad
sarabacan
sarabaite
saraband
sarabande
sarabands
saracen
saracenic
sarcocol
sarcocolla
sarcocollin
sarcocyst
sarcocystidean
sarcocystidian
sarcocystoid
sarcocyte
sarcode
sarcoderm
sarcoderma
sarcodes
sarcodic
sarcodictyum
sarcodous
sarcoenchondroma
sarcoenchondromas
sarcoenchondromata
sarcogenic
sarcogenous
sarcoglia
sarcoid
sarcoidosis
sarcoïds
sarcolactici
sarcolemmal
sarcolemmas
sarcolemmata
sarcolemmic
sarcolemmous
sarcoline
sarcolite
sarcolologic
sarcological
sarcolgist
sarcolcology
sarcolysis
sarcoïte
sarcoïtic
sarcoma
sarcomas
sarcomata
sarcomatoid
sarcomatosis
sarcomatous
sarcomere
sarcomeric
sarcophagal
sarcophagi
sarcophagic
sarcophagid
sarcophagine
sarcophagize
sarcophagous
sarcophagus
sarcophaguses
sarcophagy
sarcophile
sarcophilous
sarcoplasm
sarcoplasmatic
sarcoplasmic
sarcoplastic
sarcopoietic
sarcoptes
sarcoptic
sarcoid
sarcosepsis
sarcosepta
sarcoseptum
sarcosin
sarcosine
sarcosis
sarcosoma
sarcosomal
sarcosome
sarcosperm
sarcosporid
sarcosporidial
sarcosporidian
sarcosporidiosis
sarcostosis
sarcostyle
sarcotrichous
sarcotrichous
sard
sardachate
sardana
sardanapalian
sardar
sarkit
sarkless
sarks
sarky
sarlac
sarlak
sarlyk
sarmatian
sarmatier
sarment
sarmenta
sarmentaceous
sarmentiferous
sarmentose
sarmentous
sarments
sarmentum
sama
sarod
sarode
sarodes
sarodist
sarodists
sarods
saron
sarong
sarongs
saronic
saronide
saros
sarothrum
sarpanch
sarpedon
sarplar
sarpo
sarra
sarracenia
sarraceniaceous
sarracenial
sarraf
sarrasin
sarrazin
sarrow
sarrusophone
sarrusophonist
sarsa
sarsaparilla
sarsaparillas
sarsaparillin
sarsar
sarsars
sarsen
sarsenet
sarsenets
sarsens
sarsnet
sarson
sarsparilla
sart
sartage
sartain
sartor
sartoriad
sartorial
sartorially
sartorian
sartorii
sartorite
sartorius
sartors
sarum
sarus
sarwan
sasa
sasan
sasani
sasanqua
sasarara
sash
sashay
sashayed
sashaying
sashays
sashed
sasheries
sashery
sashes
sashimi
sashimis
sashing
sashless
sashoon
sasin
sasine
sasins
saskatchewan
saskatoon
sass
sassabies
sassaby
sassafac
sassafrack
sassafras
sassafrases
sassagum
sassandra
sassanian
sassanid
sasse
sassed
sassenach
sasses
sassert
sassies
sassiest
sassily
sassiness
sassing
sassolin
sassoline
sassolite
sasswood
sasswoods
sassy
sassybark
sassywood
sastra
sastruga
sastrugi
sat
sata
satable
satai
satan
satanas
satang
satangs
satanic
satanical
satanically
satanicalness
satanism
satanisms
satanist
satieties
satiety
satin
satinay
satinbush
satine
satined
satinet
satinets
satinette
satinfin
satinflower
sating
satininess
satining
satinite
satinity
satinize
satinleaf
satinleaves
satinlike
satinpod
satinpods
satin
satinwood
satinwoods
satiny
sation
satire
satire's
satireproof
satires
satiric
satirical
satirically
satiricalness
satirisable
satirisation
satirise
satirised
satiriser
satirises
satirising
satirism
satirist
satirists
satirizable
satirize
satraps
satrapy
satron
satsop
satsuma
sattar
satterthwaite
sattie
sattle
sattva
sattvic
satura
saturability
saturable
saturant
saturants
saturate
saturated
saturatedness
saturater
saturates
saturating
saturation
saturations
saturator
saturday
saturday's
saturdays
saturity
saturization
saturn
saturnal
saturnali
saturnalia
saturnalian
saturnalianly
saturnalias
saturnian
saturnic
saturnicentric
saturniid
saturnine
saturninely
saturnineness
saturninity
saturnist
saturnist
saturnize
satury
satyagraha
satyagrahi
satyaloka
satyashodak
satyr
satyresque
satyress
satyriases
satyriasis
satyric
satyrical
satyrid
satyrids
satyrine
satyrion
satyrism
satyrlike
satyromaniac
satyrs
sau
sauba
sauce
sauceboat
saucebox
sauceboxes
sauced
saucedish
sauceless
sauceline
saucemaker
saucemaking
sauceman
sacemen
saucepan
saucepan's
saucepans
sauceplate
saucepot
saucer
saucerful
saucerize
saucerized
saucerleaf
saucerless
saucerlike
saucerman
saucers
saucery
sauces
sauch
sauchs
saucier
sauciest
saucily
sauciness
saucing
saucisse
saucisson
saucy
saudi
saudis
sauerbraten
sauerkraut
sauf
sauger
saugers
saugh
saughen
saughs
saught
saughy
saul
sauld
saulge
saulie
sauls
sault
saulter
saults
saum
saumon
saumont
saumur
sauna
saumas
sauncier
saunciest
sauncy
saunders
saunderswood
saunt
saunter
sauntered
saunterer
saunterers
sauntering
saunteringly
saunters
sauqui
saur
saurel
saurels
sauria
saurian
saurians
sauriasis
sauries
sauriosis
saurischian
saurless
saurodont
sauropnathism
sauropnathous
saurid
saurophagous
sauropod
sauropodous
sauropods
sauropsid
sauropsida
sauropsidan
sauropsidian
sauropsidial
sauropterigian
saurornithic
saururaceous
saururan
saururous
saury
sausage
sausage's
sausagelike
sausages
sausinger
saussurite
saussuritic
saussuritization
saussuritize
saut
saute
sauted
sauteed
sauteing
sawer
sawers
sawfish
sawfishes
sawflies
sawflom
sawfly
sawhorse
sawhorses
sawing
sawings
sawish
sawlike
sawlog
sawlogs
sawlshot
sawmaker
sawmaking
sawman
sawmill
sawmill's
sawmiller
sawmilling
sawmills
sawmon
sawmont
sawn
sawneb
sawney
sawneys
sawnie
sawny
sawpit
saws
sawsetter
sawsharper
sawsmith
sawt
sawteeth
sawtimber
sawtooth
sawway
sawworker
sawwort
sawyer
sawyers
sax
saxatile
scabies
scabietic
scabine
scabinus
scabiophobia
scabiosa
scabiosas
scabiosity
scabious
scabiouses
scabish
scabland
scablike
scabrate
scabrescent
scabrid
scabridity
scabridulous
scabrin
scabrities
scabriuscule
scabriusculous
scabrock
scabrosely
scabrous
scabrously
scabrousness
scabs
scabwort
scacchic
scacchite
scad
scaddle
scads
scaena
scaff
scaffer
scaffery
scaffie
scaffle
scaffold
scaffoldage
scaffolded
scaffolder
scaffolding
scaffolding
scaffolds
scaffy
scallawaggy
scalled
scallion
scallions
scallola
scallom
scallops
calloped
scallop
scallopers
scalloping
scallopini
scallops
scallopwise
scalls
scallywag
scalma
scalod
scalogram
scaloni
scaloppine
scalp
scalp's
scalped
scalpeen
scalpel
scalpellar
scalpellic
scalpellum
scalpellus
scalpels
scalper
scalpers
scalping
scalpless
scalplock
scalpra
scalpriform
scalprum
scalps
sculpture
scalt
scalx
scaly
scalytail
scalz
scam
scamander
scantier
canties
cantiest
cantily
cantiness
canting
cantity
cantle
cantlet
cantling
cantlinged
cantlings
cantly
cantness
cants
scanty
scap
scape
scaped
scapegallows
scapegoat
scapegoater
scapegoating
scapegoatism
scapegoats
scapegrace
scapegraces
scapel
scapeless
scapement
scapes
scapethrift
scapewheel
scapha
scaphander
scaphe
scaphion
scaphism
scaphite
scaphitoid
scaphocepalic
scaphocepalism
scaphocephalous
scaphocephalus
scaphocephaly
scaphocerite
scaphoceritic
scaphognathite
scaphognathitic
scaphoïd
scaphoids
scapholunar
scaphopod
scaphopodosus
scapiform
scapigerous
scaping
scapoid
scapolite
scapolitization
scapose
scapple
scappler
scapula
scapulae
scapulalgia
scapular
scapulare
scapularies
scapulars
scapulary
scapulas
scapulated
scapulectomy
scapulet
scapulette
scapulimancy
scapuloaxillary
scapulobrachial
scapuloclavicular
scapulocoracoid
scapulodynia
scapulohumeral
scapulopexy
scapuloradial
scapulospinal
scapulothoracic
scapuloular
scapulovertebral
scapus
scar
scar's
scarab
scarabaean
scarabæi
scarabaeid
scarabaeidoid
scarabaeiform
scarabaeoid
scarabaeus
scarabaeuses
scarabee
scaraboid
scarabs
scaramouch
scaramouche
scarborough
scaree
scarcelins
scarceley
scar cement
scaren
scar ecness
scarcer
scarcest
scar cities
scar city
scar cy
scards
scare
scare babe
scare bug
scarecrow
scarecrow wish
scarecrows
scarecrowy
scared
scareful
scare head
scare monger
scare mongering
scareproof
scarer
scarers
scarees
scare some
scarey
scarf
scar face
scarfe
scar fed
scar fer
scar fing
scar free
scatologies
scatologist
scatologize
scatology
scatoma
scatomancy
scatomas
scatomata
scatophagid
scatophagies
scatophagoid
scatophagous
scatophagy
scatoscopy
scats
scatt
scatted
scatter
scatterable
scatteration
scatteraway
scatterbrain
scatterbrained
scatterbrains
scattered
scatteredly
scatteredness
scatterer
scatterers
scattergood
scattergram
scattergraph
scattergun
scattering
scatteringly
scatterings
scatterling
scatterment
scattermouch
scatterplot
scatterplots
scatters
scattershot
scattersite
scattery
scattier
scattiest
scatting
scentproof
scents
scentwood
scepsis
scepter
scepter's
scepterdom
sceptered
sceptering
scepterless
scepters
sceptibly
sceptic
sceptical
sceptically
scepticism
scepticize
scepticized
scepticizing
sceptics
sceptral
sceptre
sceptred
sceptredom
sceptreless
sceptres
sceptring
sceptrophorous
sceptrosophy
sceptr
sceerne
sceuophorion
sceuophylaciun
sceuophylax
scewing
sce
scfh
scfm
sch
schaapsteker
schadchan
schadenfreude
schairerite
schalmei
schalme
schalstein
schanse
schanz
schistosternia
schistothorax
schistous
schists
schistus
schiz
schizaecaceous
schizanthus
schizaxon
schizo
schizocarp
schizocarpic
schizocarpous
schizochroal
schizocoele
schizocoelic
schizocoelous
schizocyte
schizocytosis
schizodinic
schizogamy
schizogenesis
schizogenetic
schizogenetically
schizogenic
schizogenous
schizogenously
schizognath
schizognathism
schizognathous
schizogonic
schizogonous
schizogony
schizogregarine
schizoid
schizoidism
schizoids
schizolaenaceous
schizolite
schizolysigenous
schizomanic
schizomycete
schizomycetes
schizomycetic
schizomycetous
schizomycosis
schizonemertean
schizonemertine
schizont
schizonts
schizopelmos
schizophobia
schizophrenic
schizophrenia
schizophreniac
schizophrenic
schizophrenically
schizophrenics
schizophrenious
schizophyte
schizophrenic
schizophrenic
schizopod
schizopodal
schizopodial
schizopodium
schizorhinal
schizos
schizospore
schizosteal
schizostelic
schizostely
schizothecal
schizothoracic
schizothymic
schizothymia
schizothece
schizotrachia
schizotic
schizy
schizzo
schlemiel
schlemiels
schlemihl
schlenter
schlep
schlepp
schlepped
schlepper
schlepping
schlepps
schleps
schlieren
schlieric
schlimazl
schlimazel
schlock
schlocks
scholia
scoliast
scoliastic
scolion
scolium
scoliumlia
scoliums
schoen
schonfelsite
school
schoolable
schoolage
schoolbag
schoolbook
schoolbookish
schoolbooks
schoolboy
schoolboy's
schoolboydom
schoolboyhood
schoolboyish
schoolboyishly
schoolboyishness
schoolboyism
schoolboys
schoolbutter
schoolchild
schoolchildren
schoolcraft
schooldame
schooldays
schooldom
schooled
schooler
schoolers
schoolery
schoolfellow
schoolfellows
schoolfellowship
schoolful
schoolgirl
schoolgirlhood
schoolgirlish
schoolgirlishly
schoolgirlishness
schoolgirlism
schoolgirls
schoolgirly
sciograph
sciographic
sciography
sciolism
sciolisms
sciolist
sciolistic
scioliists
sciolious
scioltos
sciomachiology
sciomachy
sciomancy
sciomatic
scions
sciones
sciophilous
sciophobia
sciophyte
sciopic
scioptron
scioptrics
scioptric
sciophosphy
sciophosphies
sciophosphist
sciophosphy
scioterical
scioterique
scioteism
scioteheric
scioteherical
scioteherically
sciious
scirenga
scirocco
sciroccos
scirrhi
scirrhogastria
scirrhoid
scirrhoma
scirrhosis
scirrhosity
scirrhous
scirrhus
scirrhuses
scirrosis
scirtopod
scirtopodus
sciscitation
scissel
scissible
scissil
scissile
scission
scissions
scissiparity
scissor
scissorbill
scissorbird
scissored
scissorer
scissoria
scissoring
scissorium
scissorlike
scissorlikeness
scissors
scissorsbird
scissorsmith
scissorstail
scissortail
scissorwise
scissura
scisure
scissurellelid
scissures
scituate
sciurid
sciurine
sciurines
sciuroid
sciuroids
sciuromorph
sciuroomorphic
scivvies
scivvy
sclaff
sclaffed
sclaffer
sclaffers
sclaffert
sclaffing
sclaffs
sclat
sclatch
sclate
sclater
sclaw
sclent
scler
sclera
sclerae
scleral
scleranth
scleras
scleratogenous
scere
sclerectasia
sclerectomies
sclerectomy
scleredema
sclereid
sclereids
sclerema
sclerencephalia
sclrenchyma
sclrenchymatous
sclrenchyme
sclererythrin
scleretinite
sclerosis
sclerosis
sclerification
sclerify
sclerite
sclerites
scleritic
scleritis
sclerized
sclerobase
sclerobasic
scleroblast
scleroblastema
scleroblastemic
scleroblastic
sclerocauly
sclerochorioiditis
sclerocorialditis
sclerokonjunctival
sclerokonjunctivitis
sclerocornea
sclerocorneal
sclerodactyilia
sclerodactyly
sclerodema
scleroderm
scleroderma
sclerodermatitis
sclerodermatous
sclerodermia
sclerodermic
sclerodermite
sclerodermitic
sclerodermitis
sclerodermous
sclerogen
sclerogenic
sclerogenoid
sclerogenous
scleroid
scleroiritis
sclerokeratitis
sclerokeratoiritis
scleroma
scleromas
scleromata
scleromeninx
scleromere
sclerometer
sclerometric
scleronychia
scleronyxis
sclerophthalmia
sclerophyll
sclerophyllous
sclerophylly
scleroprotein
sclerosal
sclerosarcoma
scleroscope
sclerose
sclerosed
sclero septum
scleroses
sclerosing
sclerosis
scleroskeletal
scleroskeleton
sclerostenosis
sclerostomiasis
sclerotal
sclerote
sclerotia
sclerotial
sclerotic
sclerotica
sclerotical
scleroticectomy
scleroticochorioiditis
scleroticochoroiditis
scleroticonyxis
scleroticotomy
sclerotin
sclerotinial
sclerotiniase
sclerotoid
sclerotitic
sclerotitis
sclerotium
sclerotization
sclerotized
sclerotoicd
sclerotome
sclerotomic
sclerotomies
sclerotomy
scleros
scleroxanthin
sclerozone
sciff
sclim
sclimb
scoad
scob
scobby
scobicular
scobiform
scobs
scodgy
scoff
scoffed
scoffer
scoffers
scoffery
scoffing
scoffingly
scoffingstock
scofflaw
scofflaws
scoffs
scog
scolloping
scollops
scoloc
scolog
scolopaceous
scolopacine
scolopendra
scolopendrelloid
scolopendrid
scolopendiriform
scolopendrine
scolopendrium
scolopendroid
scolopes
scolophore
scolophore
scoliops
scolytid
scolytidae
scolytids
scolytoid
scolytus
scomber
scomberoid
scombrid
scombriform
scombrine
scombroid
scombroidean
scombrone
scomfit
scom
sconce
sconced
sconcer
sconces
sconcheon
sconcible
sconcing
scone
scones
scooch
scoon
scoop
scooped
scooper
scoopers
scoopful
scops
scoptical
scoptically
scoptophilia
scoptophilic
scoptophilic
scotophobia
scopula
scopulae
scopularian
scopulas
scopulate
scopuliferous
scopuliform
scopuliped
scopulite
scopulous
scopulousness
scorbuch
scorbute
scorbusic
scorbutical
scorbutically
scorbutize
scorbutus
scorce
scorch
scorched
scorcher
scorchers
scorches
scorching
scorchingly
scorchingness
scorchproof
scorchs
scordato
scordatura
scordaturas
scordature
scordium
score
scoreboard
scoreboards
scorebook
scorecard
scored
scorekeeper
scorpionflies
scorpionfly
scorpionic
scorpionic
scorpions
scorpionweed
scorpionwort
scorpions
scorse
scorser
scertation
scortatory
scorza
scorzonera
scot
scotal
scotale
scotch
scotched
scotcher
scotches
scotching
scotchman
scotchmen
scote
scoter
scoters
scoterythrous
scotia
scotias
scotic
scotino
scotism
scotist
scotland
scotodinia
scotogram
scotograph
scotographic
scotography
scotoma
scotomas
scotomata
scotomatic
scotomatical
scotomatous
scotomia
scotomic
scotomy
scotophilia
scotophilic
scotophobia
scotopia
scotopias
scotopic
scotoscope
scotosis
scots
scotsman
scotsmen
scott
scottice
scotticism
scotticize
scottie
scotties
scottish
scouch
scouk
scoundrel
scoundrel's
scoundreldom
scoundrelish
scoundrelism
scoundrelly
scoundrels
scoundrelship
scoup
scour
scourage
scoured
scourer
scourers
scouress
scourfish
scourfishes
scourge
scourged
scourger
scourgers
scourges
scourging
scourgingly
scouriness
scouring
scourings
scours
scourway
scourweed
scourwort
scoury
scouse
scouses
scout
scoutcraft
scoutdom
scouted
scouter
scouters
scouth
scouther
scouthered
scouthering
scouters
scouthood
scouths
scouting
scoutings
scoutish
scoutmaster
scoutmasters
scouts
scoutwatch
scove
scovel
scovellite
scovy
scow
scowbank
scowbanker
scowder
scowdered
scowdering
scowders
scowded
scowing
scowl
scowled
scowler
scowlers
scowlful
scowling
scowlingly
scowlproof
scowls
scowman
scowmen
scows
scowther
scr
scrab
scrabble
scrabbled
scrabbler
scrabblers
scrabbles
scrabbling
scrabblly
scrape
scraber
scrae
scraffle
scrag
scragged
scraggedly
scraggedness
scragger
scraggier
scraggiest
scraggily
scragginess
scragging
scraggle
scraggled
scraggliest
scraggliest
scraggliness
scraggling
scraggly
scraggy
scrag
scraich
scraiched
scraiching
scraichs
scraigh
scraighed
scraighing
scraighs
scraily
scram
scribals
scribanne
scribatious
scribatiousness
scribbet
scribblage
scribblative
scribblatory
scribble
scribbleable
scribbled
scribbledom
scribbleism
scribblemania
scribblemaniacal
scribblement
scribbleomania
scribbler
scribblers
scribbles
scribbling
scribblingly
scribbly
scribe
scribed
scriber
scribers
scribes
scribeship
scribing
scribism
scribophilous
scride
scrieve
scrieved
scriever
scrieves
scrieving
scriggle
scriggler
scriggly
scrike
scrim
scrimine
scrimner
scrimmage
scrimmaged
scrimmager
scrollery
scrollhead
scrolling
scrolls
scrollwise
scrollwork
scrolly
scronach
scroo
scrooch
scrooge
scrooges
scroop
scrooped
scrooping
scroops
scrophularia
scrophulariaceous
scrota
scrotal
scrotectomy
scrotiform
scrotitis
scrotocele
scrotofemoral
scrotta
scrotum
scrotums
scrouge
scrouged
scrouger
scrouges
scrouging
scrounge
scrounged
scrounger
scroungers
scrounges
scroungier
scroungiest
scrounging
scroungy
scrount
scrow
scroyle
scrub
scrubbable
scrubbed
scrunchy
scrange
scrange
scrunge
scrunge
scruntery
scrupel
scrupled
scrupleless
scrupler
scruples
scruplesome
scruplesomeness
scrupling
scrupula
scrupular
scrupuli
scrupulifer
scrupulosities
scrupulosity
scrupulous
scrupulously
scrupulousness
scrupulum
scrupulus
scrush
scrubability
scrubable
scrubate
scrubation
scrubator
scrubatory
scruitinant
scrintate
scritineer
scritinies
scritinisation
scritinise
scritinised
scritinising
scritinization
scritinize
scritinized
scritinizer
scritinizers
scritinizes
scritinizing
scritinizingly
scritinous
scuppet
scuppit
scupper
scups
scur
scurdy
scurf
scurfer
scurfer
scurfiest
scurfily
scurfiness
scurflke
scurfs
scurfy
scurling
scurried
scurrier
scurries
scurril
scurrire
scurrilist
scurrilities
scurrility
scurrilize
scurrilous
scurrilously
scurrilousness
scurry
scurrying
scurvied
scurvier
scurvies
scurviest
scurvily
scurviness
scurvish
scurvy
scurvyweed
scusation
scuse
scusin
scut
scuta
scutage
scutages
scutal
scutate
scurtated
scuratiform
scutation
scutch
scutched
scutcheon
scutcheoned
scutcheonless
scutcheonlike
scutcheons
scutcheonwise
scutcher
scutchers
scutches
scutching
scutchs
scute
scutel
scutella
scutellae
scutellar
scutellarin
scutellate
scutellated
scutellation
scutellerid
scutelliform
scutelligerous
scutelliplantar
scutelliplantation
scutellum
scutes
scutibranch
scutibranchian
scutibranchiate
scutifer
scutiferous
scutiform
scutiger
scutigeral
scutigerous
scutiped
scuts
scutta
scutter
scuttered
scuttering
scutters
scyphopolyp
scyphose
scyphostoma
scyphozoan
scyphula
scyphulus
scyphus
scypphi
scyt
scytale
scythe
scythe's
scythed
scytheless
scythelike
scytheman
scythes
scythesmith
scythestone
scythework
scythian
scything
scytitis
scytoblastema
scytodepsic
scytonemataceous
scytonematoid
scytonematous
scytopetalaceous
sd
sdeath
sdeign
sdic
sdrucciola
sds
sdump
se
se'nnight
sea
seabag
seabags
seabank
seabeach
seabeaches
seabeard
seabed
seabeds
seabee
seamed
seamen
seamer
seamers
seamew
seamier
seamiest
seaminess
seaming
seamless
seamlessly
seamlessness
seamlet
seamlike
seamost
seamount
seamounts
seamrend
seamrog
seams
seamster
seamsters
seamstress
seamstresses
seamy
seance
seances
seapiece
seapieces
seaplane
seaplanes
seapoose
seaport
seaport's
seaports
seapost
seaquake
seaquakes
sear
scarc
searcer
search
searchable
searchableness
searchant
searched
searcher
searcheress
searcherlike
searchers
searchership
searches
searchful
searching
searchingly
searchingness
searchings
searchless
searchlight
searchlights
searchment
searcloth
seared
searedness
searer
searest
searing
searingly
searlesite
searness
searoving
sears
seary
seas
seascape
seascapes
seascapist
seascout
seascouting
seascouts
seashell
seashells
seashine
seashore
seashore's
seashores
seasick
seasickness
seaside
seasider
seasides
seasnail
season
seasonable
seasonableness
seasonably
secretar
secretarial
secretarian
secretariat
secretariate
secretariats
secretaries
secretary
secretary's
secretaryship
secretaryships
secrete
secreted
secretener
secretes
secretest
secreteting
secretins
secretion
secretional
secretionary
secretions
secretitious
secretive
secretivelies
secretively
secretiveness
secretly
secretmonger
secretness
creeto
secretomotor
secretor
secretors
secretory
secrets
secretum
secs
sept
sept's
sectarial
sectarian
sectarianise
sectarianised
sectarianising
sectarianism
sectarianize
sectarianized
sectarianizing
sectarianly
sectarians
sectaries
sectarism
sectarist
sectary
sectator
sectile
sectility
section
sectional
sectionalisation
sectionalise
sectionalised
sectionalising
sectionalism
sectionalist
sectionality
sectionalization
sectionalize
sectionalized
sectionalizing
sectionally
sectionary
sectioned
sectioning
sectionist
sectionize
sectionized
sectionizing
sections
sectioplanography
sectism
sectist
sectiuncle
sective
sector
sector's
sectoral
sectored
sectorial
sectoring
sectors
sectroid
sects
sectuary
sectwise
secular
secularisation
secularise
secularised
seculariser
secularising
secularism
secularist
secularistic
secularists
secularities
secularity
secularization
secularize
secularized
secularizer
secularizers
secularizes
secularizing
secularly
secularness
seculars
seculum
secund
secunda
secundate
secundation
secundiflorous
secundigravida
secundine
secundines
secundipara
secundiparity
secundiparous
secundly
secundogeniture
secundoparimary
secundum
secundus
securable
securableness
securance
secure
secured
secureful
securely
securement
secureness
securer
securers
secures
securest
securicornate
securifer
securiferous
securiform
securigerous
securing
securings
securitan
securities
security
secus
secutor
secy
sed
sedan
sedanier
sedans
sederim
sedate
sedated
sedately
sedateness
sedater
sedates
sedatest
sedating
sedation
sedations
sedative
sedatives
sedent
sedentarily
sedentariness
sedentary
sedentation
seder
seders
sederunt
sederunts
sedge
sedged
sedgelike
sedges
sedgier
seeming
seemingly
seemingness
seemings
seemless
seemlier
seemliest
seemlihead
seemlily
seemliness
seemly
seems
seen
seenie
seenil
seep
seepage
seepages
seeped
seeper
seepiest
seeping
seepproof
seeps
seepweed
seepy
seer
seerband
seercraft
seeress
seeresses
seerfish
seerhand
seerhood
seerlike
seerpaw
seers
seership
seersucker
sees
seesaw
seesawed
seesawiness
seesawing
seesaws
seeseer
seethe
seethed
seignories
seignorize
seignory
seilens
seimnas
seine
seined
seiner
seiners
seines
seining
seiren
seiropol
seiroporic
seis
seisable
seise
seised
seiser
seisers
seises
seisin
seising
seisings
seisins
seism
seismal
seismatical
seismetic
seismic
seismical
seismically
seismicity
seismism
seisims
seismochronograph
seismogram
seismograms
seismograph
seismographer
seismographers
seismographic
seismographical
seismographs
seismography
seismol
seismologic
seismological
seismologically
seismologist
seismologists
seismologue
seismology
seismometer
seismometers
seismometric
seismometrical
seismometrograph
seismometry
seismomicrophone
seismoscope
seismoscopic
seismotectonic
seismotherapy
seismotic
seisms
seisor
seisors
seisure
seisures
seit
seity
seizable
seize
seized
seizer
seizers
seizes
seizin
seizing
seizings
seizins
seizor
seizors
seizure
seizure's
seizures
sejant
sejeant
sejero
sejoin
sejoined
sejour
sejugate
sejugous
selectionism
selectionist
selectionists
selections
selective
selectively
selectiveness
selectivity
selectivitysenescence
selectly
selectman
selectmen
selectness
selector
selector's
selectors
selects
selectus
selenate
selenates
selene
selenian
seleniate
selenic
selenide
selenides
seleniferous
selenigenous
selenion
selenious
selenite
selenites
selenitic
selenitical
selenitiferous
selenitish
selenium
seleniums
seleniuret
selenobismuthite
selenocentric
selenodesy
selenodont
selenodonty
selenograph
selenographer
selenographers
selenographic
selenographical
selenographically
selenographer
selenography
selenotary
selenolog
selenological
selenologist
selenology
selenomancy
selenomorphology
selenoscope
selenosis
selenotropic
selenotropism
selenotropy
selenous
selen silver
selen sulphur
seletar
selety
seleucia
self
selfadjoint
self cide
self dom
self doms
self fed
self effacing
self ful
self ful ness
self heal
self heals
self hood
self hoods
self hypnotization
self ing
self fish
self fish ly
self fish ness
self is m
self ist
self less
self less ly
self less ness
self like
self ly
self movement
selfness
selfnesses
selfpreservatory
selfpropelling
selfrestrained
selfs
selfsaid
selfsame
selfsameness
selfseekingness
selfsufficiency
selfsustainingly
selfward
selfwards
selictar
seligmannite
selinhoth
seling
selion
seljuk
sell
sella
sellable
sellably
sellaithe
sellar
sellary
sellate
selle
sellenders
seller
sellers
selles
sellie
selliform
selling
sellout
sellouts
sells
sellly
sels
selsoviet
selsyn
selsyns
selt
seltzer
seltzers
seltzogene
selva
selvage
selvaged
selvagee
selvages
selvedge
selvedged
selvedges
selves
selzogene
sem
semainier
semainiers
semaise
semang
semanterme
semantic
semantical
semantically
semanterician
semanterician
semanterician's
semantericians
semanterics
semanterics
semanterological
semanterology
semantron
semaphore
semaphore's
semaphored
semaphores
semaphoric
semaphoreical
semaphorically
semaphoring
semaphorist
semarum
semasiological
semasiologically
semasiologist
semasiology
semateme
sematic
sematographic
sematography
sematology
sematrope
semball
semiabstraction
semiacademic
semiacademic
semiacademically
semiaccomplishment
semiacetic
semiacid
semiacidic
semiacidified
semiacidulated
semiacquaintance
semiacrobatic
semiactive
semiactively
semiactiveness
semiadherent
semiadhesive
semiadhesively
semiadhesiveness
semiadjunctively
semiadjunct
semiaerial
semiaffectionate
semiagricultural
semialbinism
semialcoholic
semialien
semiallegiance
semiallegoric
semiallegorical
semiallegorically
semialpine
semialuminous
semiamplexicaul
semiamplitude
semian
semianesthetic
semianalytic
semianalytical
semianalytically
semianarchism
semianarchist
semianarchistic
semianatomic
semianatomical
semianatomically
semianatropal
semianatropous
semiandrogenous
semianesthetic
semiangle
semiangular
semianimal
semianimate
semianimated
semianna
semiannealed
semiannual
semianually
semianular
semianthracite
semianthropologic
semianthropological
semianthropologically
semiantiministerial
semiantique
semiape
semiaperiodic
semiaperture
semiappressed
semiaquatic
semiarboREAL
semiarborescent
semiarc
semiarch
semiarchitectural
semiarchitecturally
semiarid
semiaridity
semiarticulate
semiarticulately
semiasphaltic
semitheist
semiaattached
semiautomated
semiautomatic
semiautomatically
semautomatics
semiautonomous
semiaxis
semibacchanalian
semibachelor
semibald
semibaldly
semibaldness
semibalked
semiball
semiballoon
semiband
semibarbarian
semibarbarianism
semibarbaric
semibarbarism
semibarbarous
semibaronial
semibarren
semibase
semibasement
semibastion
semibay
semibeam
semibejan
semibelted
semibifid
semibiographic
semibiographical
semibiographically
semibiologic
semibiological
semibiologically
semibituminous
semiblasphemous
semiblasphemously
semiblasphemousness
semibleached
semiblind
semiblunt
semibody
semiboiled
semibold
semibolshevist
semibolshevized
semibouffant
semibourgeois
semibreve
semibull
semibureaucratic
semibureaucratically
semiburrowing
semic
semicabalistic
semicabalistical
semicabalistically
semicadence
semicalcareous
semicalcined
semicallipygian
semicanal
semicanalis
semicannibalic
semicantilever
semicapitalistic
semicapitalistically
semicarbazide
semicarbazone
semicarbonate
semicarbonize
semicardinal
semicaricatural
semicartilaginous
semicarved
semicastrate
semicastration
semicatalyst
semicatalytic
semicathartic
semicatholicism
semicaudate
semicelestial
semicell
semicellulose
semicellulous
semicentenarian
semicentenaries
semicentenary
semicentennial
semicentury
semicha
semichannel
semichaotic
semichaotically
semichemical
semichemically
semicheviot
semichevron
semichiffon
semichivalrous
semichoric
semichorus
semichrome
semicircle
semicircled
semicircles
semicircular
semicircularity
semicircularly
semicircularness
semicircumference
semicircumferentor
semicircumvolution
semicirque
semicitizen
semicivilization
semicivilized
semiclassic
semiclassical
semiclassically
semiclause
semicleric
semiclerical
semiclerically
semiclimber
semiclimbing
semiclinical
semiclinically
semiclose
semiclosed
semiclosure
semicoagulated
semicoke
semicollapsible
semicollar
semicollegiate
semicolloid
semicolloidal
semicolloquial
semicolloquially
semicolon
semicolon's
semicolonial
semicolonialism
semicolonially
semicolons
semicolony
semicolumn
semicolumnar
semicolumnar
semicoma
semicomas
semicomatose
semicombined
semicombust
semicomic
semicomical
semicomically
semicommercial
semicommercially
semicomunicative
semicompact
semicompacted
semicomplete
semicomplicated
semiconceal
semiconcealed
semiconcrete
semiconditioned
semiconducting
semiconductor
semiconductor's
semiconductors
semicone
semiconfident
semiconfinement
semiconfluent
semiconformist
semiconformity
semiconic
semiconical
semiconically
semiconnate
semiconnection
semiconoidal
semiconscious
semiconsciously
semiconsciousness
semiconservative
semiconservatively
semiconsonant
semiconsonantal
semiconspicuous
semicontinent
semicontinuous
semicontinuously
semicontinuum
semicontraction
semiconductor
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semiconductor's
semeia
semiconventionally
semiconvergence
semiconvergent
semiconversion
semiconvert
semicope
semicordate
semicordated
semicoriaceous
semicorneous
semicoronate
semicoronated
semicoronet
semicostal
semicostiferous
semicotton
semicotyle
semicounterarch
semicountry
semicrepe
semicrescentic
semicretin
semicretinism
semicriminal
semicroma
semicrome
semicrustaceous
semicrystalline
semicrystalline
semicubical
semicubit
semicultivated
semicultured
semicup
semicupe
semicupium
semicupola
semicured
semicurl
semicursive
semicurvilinear
semicyclic
semicycloid
semicylinder
semicylindric
semicylindrical
semicynical
semicynically
semidaily
semidangerous
semidangerously
semidangerousness
semidark
semidarkness
semidead
sem deaf
sem deafness
semidecadent
semidecadently
semidecay
semidecayed
semidecussation
semidefensive
semidefensively
semidefensiveness
semidefined
semidefinite
semidefinitely
semidefiniteness
semideific
semideification
semideify
semideistical
semideity
semidelight
semidelirious
semidelirium
semideltaic
semidemented
semidenatured
semidependence
semidependent
semidependently
semideponent
semidesert
semideserts
semidestruction
semidestructive
semidetached
semidetachment
semideterministic
semideveloped
semidiagrammatic
semidiameter
semidiapason
semidiapente
semidiaphaneity
semidiaphanous
semidiaphanously
semidiaphanousness
semidiatessaron
semidictatorial
semidictatorially
semidictatorialness
semidifference
semidigested
semidigitigrade
semidigression
semidilapidation
semidine
semidiness
semidirect
semidirectness
semidisabled
semidisk
semiditone
semidiurnal
semidivided
semidivine
semidivision
semidivisive
semidivisively
semidivisiveness
semidocumentary
semidodecagon
semidole
semidome
semidomed
semidomes
semidomestic
semidomestically
semidomesticated
semidomestication
semidomical
semidominant
semidormant
semidouble
semidrachm
semidramatic
semidramatical
semidramatically
semidress
semidressy
semidried
semidry
semidrying
semiductile
semidull
semiduplex
semidurables
semiduration
semiearly
semieducated
semieffigy
semiegg
semiegret
semielastic
semielastically
semielevated
semielision
semieclipse
semielipsis
semielipsoidal
semieliptic
semieliptical
semiemotional
semiemotionally
semiempirical
semiempirically
semienclosed
semienclosure
semienengaged
semiepic
semiepical
semiepically
semiequitant
semierect
semierectly
semierectness
semieremitical
semiequation
semievergreen
semieexclusive
semieclusively
semieclusiveness
semieexecutive
semiehibitionist
semieexpanded
semieexpansible
semieexperimental
semieexperimentally
semieplanation
semiexposed
semiexpositive
semiexpository
semiexposure
semiexpressionistic
semiexternal
semiexternalized
semiexternally
semiextinct
semiextinction
semifable
semifabulous
semifailure
semifamine
semifascia
semifasciated
semifashion
semifast
semifatalistic
semiferal
semiferous
semifeudal
semifeudalism
semifib
semifiction
semifictional
semifictionalized
semifictionally
semifigurative
semifiguratively
semifigurativeness
semifigure
semifinal
semifinalist
semifinals
semifine
semifinish
semifinished
semifiscal
semifistular
semifit
semifitted
semifitting
semifixed
semiflashproof
semiflex
semiflexed
semiflexible
semiflexion
semiflexure
semiflent
semiflashing
semiflutter
semifluctuant
semifluctuating
semifluid
semifluidic
semifluidity
semifoaming
semiforbing
semiforeign
semiform
semiformal
semiformed
semifossil
semifossilized
semifrantic
semifrater
semifrangible
semifrontier
semifuddle
semifunctional
semifunctionalism
semifunctionally
semifurnished
semifused
semifusion
semifuturistic
semify
semigala
semigelatinous
semigentleman
semigenuflection
semigeometric
semigeometrical
semigeometrically
semigirder
semiglaze
semiglazed
semiglobe
semiglobose
semiglobular
semiglobularly
semiglorious
semigloss
semiglutin
semigod
semigovernmental
semigovernmentally
semigrainy
semigranitic
semigranulate
semigraphic
semographics
semigravel
semigroove
semigroup
semih
semihand
semihaness
semihard
semiharden
semihardened
semihardness
semihardy
semihastate
semihepatization
semiherbaceous
semiheretic
semiheretical
semiherocercal
semihexagon
semihexagonal
semihiant
semihiatus
semihibernation
semihigh
semihistoric
semihistorical
semihistorically
semihobo
semihoboes
semihobos
semiholiday
semihonor
semihoral
semihorny
semihostile
semihostilely
semihostility
semihot
semihuman
semihumanism
semihumanistic
semihumanitarian
semihumanized
semihumbug
semihumorous
semihumorously
semihyaline
semihydrate
semihydrobenzoinic
semihyperbola
semihyperbolic
semihyperbolical
semihysterical
semihysterically
semiintoxicated
semijealousy
semijocular
semijocularly
semijubilee
semijudicial
semijudicially
semijuridic
semijuridical
semijuridically
semikah
semilanceolate
semilate
semilatent
semilatus
semileafless
semilegal
semilegendarian
semilegislative
semilegislatively
semilens
semilenticular
semilethal
semilateral
semilateralism
semiliberally
semilichen
semiligneous
semilimber
semilined
semiliquid
semiliquidity
semiliterate
semilocular
semilog
semilogarithmic
semilogical
semilog
semilooper
semiloose
semilor
semiloyalty
semilucent
semiluminous
semiluminously
semiluminousness
semilunar
semilunare
semilunary
semilunate
semilunated
semilunation
semilune
semilustrous
semiluxation
semiluxury
semilyric
semilyrical
semilyrically
semimachine
semimade
semimadman
semimagical
semimagically
semimagnetic
semimagnetical
semimagnetically
semimajor
semimalicious
semimaliciously
semimaliciousness
semimalignant
semimalignantly
semimanagerial
semimanagerially
semimanieristic
semimanufacture
semimanufactured
semimanufactures
semimarine
semimarking
semimat
semimaterialistic
semimathematical
semimathematically
semimatt
semimatte
semimature
semimaturely
semimatureness
semimaturity
semimechanical
semimechanistic
semimedical
semimember
semimembranosus
semimembranous
semimenstrual
semimercurial
semimessianic
semimetal
semimetallic
semimetamorphosis
semimetaphoric
semimetaphorical
semimetaphorically
semimicro
semimicroanalysis
semimicrochemical
semimild
semimildness
semimilitary
semimill
semimineral
semimineralized
semiminess
semiminim
semiministerial
semiminor
semimobile
semimoderate
semimoderately
semimoid
semimolecule
semimonarchic
semimonarchical
semimonarchically
semimonastic
semimonitor
semimonopolistic
semimonopoly
semimonster
semimonthlies
semimonthly
semimoralistic
semimoron
semimountainous
semimountainously
semimucous
semimute
semimystic
semimystical
semimystically
semimysticalness
semimythic
semimythical
semimythically
semimythicalness
semina
seminaked
seminal
seminality
seminally
seminaphthalidine
seminaphthylamine
seminar
seminar's
seminarcosis
seminarcotic
seminarial
seminarian
seminarianism
seminarians
seminaries
seminarist
seminaristic
seminarize
seminarrative
seminars
seminary
seminary's
semanasal
semanasality
semanasally
seminase
seminatant
seminate
seminated
seminating
semination
seminationalism
seminationalistic
seminationalization
seminationalized
seminative
seminebulous
seminecessary
seminegro
seminervous
seminervously
seminervousness
seminess
semineurotic
semineurotically
semineutral
semineutrality
seminiferal
seminiferous
seminific
seminifical
seminification
seminist
semium
seminivoros
seminocturnal
seminole
seminoles
seminoma
seminomad
seminomadic
seminomadically
seminomadism
seminomas
seminomata
seminonconformist
seminonflammable
seminonsensical
seminormal
seminormality
seminormally
seminormalness
seminose
seminovel
seminovelty
seminude
seminudity
seminule
seminuliferous
seminuria
seminvariant
seminvariantive
semiobjective
semiobjectively
semiobjectiveness
semioblivion
semioblivious
semiobliviously
semiobliviousness
semiobscurity
semioccasional
semioccasionally
semiocclusive
semiocagonal
semiofficial
semiofficially
semiography
semiological
semiologist
semiology
semiopacity
semiopacous
semiopacal
semiopalescent
semiopaque
semiopen
semiopened
semiopenly
semiopenness
semioptimistic
semioptimistically
semiowlerical
semiowlerically
semirowb
semiorbicular
semiorbicularis
semiorbiculate
semiordinate
semiorganic
semiorganically
semiorganized
semioriental
semiorientally
semiorthodox
semiorthodoxly
semioscillation
semioses
semiosis
semiosseous
semiostracism
semiotic
semiotical
semiotician
semiotics
semioval
semiovally
semiovalness
semiovaloid
semiovate
semioviparous
semiovoid
semiovoidal
semioxidated
semioxidized
semioxygenated
semioxygenized
semipacifist
semipacifistic
semipagan
semipaganish
semipalmate
semipalmated
semipalmation
semipanic
semipapal
semipapist
semiparabola
semiparallel
semiparalysis
semiparalytic
semiparalyzed
semiparameter
semiparasite
semiparasitic
semiparasitism
semiparochial
semipassive
semipassively
semipassiveness
semipaste
semipastoral
semipastorally
semipasty
semipathologic
semipathological
semipathologically
semipatriot
semipatriotic
semipatriotically
semipatterned
semopause
semipeace
semipeaceful
semipeacefully
semipectinate
semipinctinated
semipectoral
semiped
semipedal
semipedantic
semipedantical
semipedantically
semipellucid
semipellucidity
semipendent
semipendulous
semipendulously
semipendulousness
semipenniform
semiperceptive
semiperfect
semiperimeter
semiperimetry
semiperiphery
semipermanent
semipermanently
semipermeability
semipermeable
semiperoid
semiperspicuous
semipertinent
semiperviness
semipervious
semiperviousness
semipetaloid
semipetrified
semiphase
semiphenomenal
semiphenomenally
semiphilologist
semiphilosophic
semiphilosophical
semiphilosophically
semiphlogisticated
semiphonotypy
semiphosphorescence
semiphosphorescent
semiphrenetic
semipictorial
semipictorially
semipinacolic
semipinacolin
semipinnate
semipious
semipiously
semipiousness
semipiscine
semiplantigrade
semiplastic
semiplumaceous
semiplume
semipneumatic
semipneumatical
semipneumatically
semipoisonous
semipoisonously
semipolar
semipolitical
semipolitician
semipoor
semipopish
semipopular
semipopularity
semipopularized
semipopularly
semiporcelain
semiporous
semiporphyrritic
semiportable
semiportal
semipractical
semiprecious
semipreservation
semipreserved
semiprimigenious
semiprimitive
semiprivate
semiprivacy
semiprivate
semipro
semiproductive
semiproductively
semiproductiveness
semiproductivity
semiprofane
semiprofanely
semiprofaneness
semiprofanity
semiprofessional
semiprofessionalized
semiprofessionally
semiprofessionals
semiprogressive
semiprogressively
semiprogressiveness
semipronation
semiprone
semipronely
semiproneness
semipronominal
semiproof
semipropagandist
semipros
semiproside
semiprosthetic
semiprostrate
semiprotected
semiprotective
semiprotectively
semiprotectorate
semiproven
semiprovincial
semiprovincially
semipsychologic
semipsychological
semipsychologically
semipsychotic
semipublic
semipunitive
semipunitory
semipupa
semipurpose
semipurposelessly
semipurposefulness
semipurulent
semiputrid
semipyramidal
semipyramidical
semipyritic
semiquadrangle
semiquadrantly
semiquadrate
semiquantitative
semiquantitatively
semiquartile
semiquaver
semiquietism
semiquietist
semiquinquefid
semiquintile
semiquot
semiradial
semiradiate
semiradical
semiradically
semiradicalness
semirapacious
semirare
semirarely
semirarenness
semirationalized
semirattlesnake
semiraw
semirawly
semirawness
semireactionary
semirealistic
semirealistically
semirebel
semirebellion
semirebellious
semirebelliously
semirebelliousness
semirecondite
semirecumbent
semirefined
semireflex
semireflexive
semireflexively
semireflexiveness
semiregular
semirelief
semireligious
semireniform
semirepublic
semirepublican
semiresinous
semiresiny
semiresolute
semiresolutely
semiresoluteness
semirespectability
semirespectable
semireticulate
semiretired
semiretirement
semiretractile
semireverberatory
semirevolute
semirevolution
semirevolutionary
semirevolutionist
semirhythm
semirhythmic
semirhythmical
semirhythmically
semiriddle
semirigid
semirigorous
semirigorously
semirigorousness
semiring
semiroll
semiromantic
semiromantically
semirotary
semirotating
semirotative
semirotatory
semirotund
semirotunda
semiround
semiroyal
semiruin
semirural
semiruralism
semirurally
semirustic
semis
semisacerdotal
semisacred
semisagittate
semisaint
semisaline
semisaltire
semisaprophyte
semisaprophytic
semisarcodic
semisatiric
semisatirical
semisatirically
semisaturation
semisavage
semisavagedom
semisavagery
semiscenic
semischolastic
semischolastically
semiscientific
semiseafaring
semisecondary
semisecrecy
semisecrecy
semisecret
semisecretly
semisection
semisedentary
semisegment
semisensuous
semisentient
semisentimental
semisentimentalized
semisentimentally
semiseparatist
semiseptate
semiserf
semiserious
semiseriously
semisensuousness
semiservile
semises
semisevere
semiserverely
semiserverity
semisextile
semishade
semishady
semishaft
semisheer
semishirker
semishrub
semishrubby
semisightseeing
semisilica
semisimious
semisimple
semisingle
semisirque
semisixth
semiskilled
semislave
semismelting
semismile
semisocial
semisocialism
semisocialist
semisocialistic
semisocialistically
semisociative
semisocinian
semisoft
semisolemn
semisolemnity
semisolemnly
semisolemnness
semisolid
semisolute
semisomnambulistic
semisomnolence
semisomnolent
semisomnolently
semisomnous
semisopor
semisoun
semisovereignty
semispan
semispeculation
semispeculative
semispeculatively
semispeculativeness
semisphere
semispheric
semispherical
semispheroidal
semispinalis
semispiral
semispiritious
semispontaneity
semispontaneous
semispontaneously
semispontaneousness
semisport
semisporting
semisquare
semistagnation
semistaminate
semistarvation
semistarved
semistate
semisteel
semistiff
semistiffly
semistiffness
semistill
semistimulating
semistock
semistory
semistratified
semistriate
semistriated
semistuporous
semisubterranean
semisuburban
semisuccess
semisuccessful
semisuccessfully
semisucculent
semisupernatural
semisupernaturally
semisupernaturalness
semisupinated
semisupination
semisupine
semisuspension
semisweet
semisymmetric
semisynthetic
semita
semitact
semitae
semitailored
semital
semitandem
semitangent
semitaur
semite
semitechnical
semiteetotal
semiteelc
semítendinosus
semítendinous
semíterete
semíterrestrial
semítertian
semítes
semíteseral
semítessular
semítextural
semítexturally
semítheatric
semítheatrical
semítheatricalism
semítheatrically
semítheological
semítheologically
semíthoroughfare
semític
semítics
semítime
semítism
semítitist
semítitists
semítonal
semítonally
semítone
semítones
semítonic
semítonically
semítonitine
semítorpid
semítour
semítraditional
semítraditionally
semítraditonal
semítrailer
semítrailers
semítrained
semítransept
semítranslucent
semítranslucency
semítransparent
semítransparently
semítransparenthoodness
semítransverse
semíreasonable
semitrimmed
semitropic
semitropical
semitropically
semitropics
semitruth
semitruthful
semitruthfully
semitruthfulness
semituberous
semitubular
semiuncial
semiundressed
semiuniversalist
semiupright
semiurban
semiturn
semivalvate
semivault
semivector
semivegetable
semivertebral
semiverticillate
semivibration
semivirtue
semiviscid
semivisibility
semivisible
semivital
semivitreous
semivitrification
semivitrified
semivocal
semivocalic
semivolatile
semivolcanic
semivolcanically
semivoluntary
semivowel
semivowels
semivulcanized
semiwaking
semiwarfare
semiweeklies
semiweekly
semiwild
semiwildly
semiwildness
semiwoody
semiworks
semiyearlies
semiyearly
semmel
semmet
semmit
semnopithecine
semois
semola
semoilella
semolina
semolinas
semological
semology
semostomeous
semostomous
semoted
semoule
semper
semperannual
sempergreen
semperidem
semperidentical
semperjuvenescent
sempervirent
sempervirid
sempervivum
sempitern
sempiternal
sempiternally
sempiternity
sempiternize
sempiternous
semple
semples
semplice
semplices
sempre
sempres
sempster
sempstress
sempstresswork
semsem
semsen
semuncia
semuncial
sensationist
sensationistic
sensationless
sensations
sensatorial
sensatory
sense
sensed
senseful
senseless
senselessly
senselessness
senses
sensibilities
sensibilitiy
sensibilitious
sensibility
sensibilium
sensibilization
sensibilize
sensible
sensibleness
sensibler
sensibles
sensiblest
sensibly
sensical
sensifacient
sensiferous
sensific
sensificatory
sensifics
sensify
sensigenous
sensile
sensilia
sensilla
sensillae
sensillum
sensillumla
sensimotor
sensing
sension
sensism
sensist
sensistic
sensitisation
sensitiser
sensitive
sensitively
sensitiveness
sensitives
sensitivist
sensitivities
sensitivity
sensitization
sensitize
sensitized
sensitizer
sensitizes
sensitizing
sensitometer
sensitometers
sensitometric
sensitometrically
sensitometry
sensitory
sensive
sensize
senso
sensomobile
sensomobility
sensomotor
sensoparalysis
sensor
sensor's
sensoria
sensorial
sensorially
sensors
sensoriglandular
sensorimotor
sensorimuscular
sensorineural
sensorium
sensoriums
sensorivascular
sensorivasomotor
sensorivolitional
sensors
sensory
sensu
sensual
sentimental
sentimentalisation
sentimentaliser
sentimentalism
sentimentalist
sentimentalists
sentimentalities
sentimentality
sentimentalization
sentimentalize
sentimentalized
sentimentalizer
sentimentalizes
sentimentalizing
sentimentally
sentimenter
sentimentless
sentimento
sentiments
sentine
sentinel
sentinel's
sentineled
sentineling
sentinelled
sentinellike
sentinelling
sentinels
sentinelship
sentinelwise
sentisection
sentition
sentried
sentries
sentry
sentry's
sentrying
sents
senufo
senvy
senza
seor
seora
seorita
seoul
sep
sepad
sepal
sepaled
sepaline
sepalled
sepalody
sepaloid
sepalous
sepals
separability
separable
separableness
separably
separata
separate
separated
separatedly
separately
separateness
separates
separatical
separating
separation
separationism
separationist
separations
separatism
separatist
separatistic
separatists
separate
separatively
separativeness
separator
separator's
separators
separatory
separatress
separatrices
separatrix
separtum
separte
sepawn
sepd
sepg
sephardi
sephen
sephira
sephirah
sephiric
sephiroth
sephirothic
sepia
sepiacean
sepiaceous
sepiæ
sepialike
sepian
sepiarian
sepiary
sepias
sepic
sepicolous
sepiment
sepioid
sepiola
sepiolite
sepion
sepiost
sepiostaire
sepium
sepn
sepone
sepose
sepy
sepoys
seppa
seppuku
seppukus
seps
sepses
sepsid
sepsin
sepsine
sepsis
sept
septa
septaemia
septal
septan
septane
septangle
septangled
septangular
septangularness
septaria
septarian
septariate
septarium
septate
septated
septation
septatoarticulate
septaugintal
septavalent
septave
septacentenary
septectomies
septectomy
september
septembrist
septembrize
septembrizer
septemdecenary
septemdecillion
septemfid
septemfulous
septemfoliate
septemfoliolate
septemia
septempartite
septemplicate
septemvious
septemvir
septemviral
septemvirate
septemviri
septemvirs
septenar
septenarian
septenaries
septenarii
septenarius
septenary
septenate
septendecennial
septendecillion
septendecillions
septendecillionth
septendecimal
septennary
septennate
septenniad
septennial
septennialist
septimanae
septimanal
septimanarian
septime
septimes
septimetritis
septimole
septinsular
septipartite
septisyllabic
septisyllable
septivalent
septleva
septocosta
septocylindrical
septodiarrhea
septogerm
septoic
septole
septolet
septomarginal
septomaxillary
septonasal
septotomy
septs
septship
septuagenarian
septuagenarianism
septuagenarians
septuagenaries
septuagenary
septuagesima
septuagesimal
septuagint
septula
septulate
septulum
septum
septums
septuncial
septuor
septuple
septupled
septuples
septuplet
septuplets
septuplicate
septuplication
serai
serail
serails
seraing
serais
seral
seralbumen
seralbumin
seralbuminous
serang
serape
serapes
seraph
seraphic
seraphical
seraphically
seraphicalness
seraphicism
seraphicness
seraphim
seraphims
seraphin
seraphina
seraphine
seraphism
seraphlike
seraphs
seraphtide
serapis
serasker
seraskerate
seraskier
seraskierat
serau
seraw
seraya
serb
serbia
serbian
serbians
serbonian
sercial
sercom
serdab
serdabs
sere
seread
sereh
serfism
serflike
serfs
serfship
serg
serge
sergeancies
sergeancy
sergeant
sergeant's
sergeantcies
sergeantcy
sergeantess
sergeantfish
sergeantfishes
sergeantry
sergeants
sergeantship
sergeantships
sergeanty
sergedesoy
sergedusoy
sergelim
serger
serges
sergette
serging
sergings
sergipe
serglobulin
sergt
serial
serialisation
serialise
serialised
serialising
serialism
serialist
serialists
seriality
serializability
serializable
serialization
serialization's
serializations
serialize
serialized
serializes
serializing
serially
serials
seriary
seriate
seriated
seriately
seriates
seriatim
seriating
seriation
seriaunt
seric
sericate
sericated
sericea
sericeotomentose
sericeous
sericultural
sericulture
sericulturist
sericin
sericins
sericipary
sericite
sericitic
sericitization
sericon
sericteria
sericteries
sericterium
serictery
sericteria
sericultural
sericulture
sericulturist
seriema
seriemas
series
serieswound
serif
serific
seriform
serifs
serigraph
serigrapher
serigraphers
serigraphic
seroimmunity
serolactescent
serolemma
serolin
serolipase
serologic
serological
serologically
serologies
serologist
serology
seromaniac
seromembranous
seromucous
seromuscular
seron
seronegative
seronegativity
seroon
seroot
seroperitoneum
serophthysis
serophysiology
seroplasic
seropneumothorax
seropositive
seroprevention
seroprognosis
seroprophylaxis
seroprotease
seropuriform
seropurulent
seropus
seroreaction
seroresistant
serosa
serosae
serosal
serosanguineous
serosanguinolent
serosas
seroscopy
serose
serosities
serositis
serosity
serosynovial
serosynovitis
serotherapeutic
serotherapeutics
serotherapist
serotherapy
serotina
serotinal
serotine
serotines
serotinous
serotonergic
serotonin
serotoxin
serotype
serotypes
serous
serousness
serovaccine
serow
serows
sérozém
sérozyme
seredinous
serpent
serpent's
serpentaria
serpentarium
serpentarius
serpentine
serpentary
serpenteau
serpentess
serpenticidal
serpenticide
serpenteriferous
serpentiform
serpentine
serpentinel
derer
serpentina
serpentine
serpentinely
serpentinic
serpentiningly
serpentinization
serpentinize
serpentinized
serpentinizing
serpentinoid
serpentinous
serpentivorous
serpentize
serpentlike
serpently
serpentoid
serpentry
serpents
serpentwood
serpette
serphid
serphoid
serpierite
serpiges
serpigines
serpiginous
serpiginously
serpigo
serpigoes
serpivolant
serpolet
serpula
serpulae
serpulan
serpulid
serpulidan
serpuline
serpulite
serpulitic
serpuloid
serra
serradella
serrae
serrage
serrai
serran
serrana
serranid
serranids
serrano
serranoid
serranos
serrate
serrated
serrates
serratia
serratic
serratiform
serratile
serrating
serration
serratiostral
serratocrenate
serratodentate
serratodenticulate
serratoglandulous
serratospinose
serrature
serratus
serrefile
serrefine
serricorn
serried
serriedly
serriedness
serries
serriferous
serriform
serring
seripped
serrirostrate
serrula
serrulate
serrulated
serrulateed
serrulation
serrurerie
serr
serrying
sers
sert
serta
serting
sertion
sertive
sertularia
sertularian
sertularioid
sertularoid
sertule
sertulum
sertum
serule
serum
serum's
serumal
serumdiagnosis
serums
servidor
servient
serviential
serviette
serviettes
servile
servilely
servileness
servilism
servilities
servility
servilize
serving
servingman
servings
servist
servite
serviteur
servitial
servitium
servitor
servitorial
servitors
servitorship
servitress
servitrix
servitude
serviture
servo
servocontrol
servoed
servoing
servolab
servomechanical
servomechanically
servomechanics
servomechanism
servomechanisms
servomotor
servomotors
servos
servotab
servulate
servus
serwamby
sesame
sesames
sesamin
sesamine
sesamoid
sesamoidal
sesamoiditis
sesamoids
sesamol
sesamum
sesban
sescuncia
sescuple
seskin
sesma
sesperal
sesqui
sesquialter
sesquialtera
sesquialteral
sesquialteran
sesquialterous
sesquibasic
sesquicarbonate
sesquicentenary
sesquicentennial
sesquicentennially
sesquicentennials
sesquichloride
sesquiduple
sesquiduplicate
sesquih
sesquihydrate
sesquihydrated
sesquinona
sesquimonial
sesquioctava
sesquioctaval
sesquioxide
sesquipedal
sesquipedalian
sesquipedalianism
sesquipedalism
sesquipedality
sesquiplane
sesquiplicate
sesquiquadrate
sesquiquarta
sesquiquartal
sesquiquartile
sesquiquinta
setecento
setee
setees
setter
setter's
settergrass
setters
setterwort
settima
settimo
setting
settings
settle
settleability
settleable
settled
settledly
settledness
settlement
settlement's
settlements
settler
settlerdom
settlers
settles
settling
settlings
settlor
settlers
settos
settsman
setuid
setula
setulae
setule
setuliform
setulose
setulous
setup
setups
setwall
setwise
setwork
setworks
seudad
seugh
seve
seven
severer
severers
severest
severest
severies
severing
severingly
severish
severities
severity
severity’s
severityization
severize
severs
severy
sevier
sevillanas
seville
sevres
sevum
sew
sewable
sewage
sewages
sewan
sewans
sewar
sewars
sewed
sewellel
sewen
sewer
sewerage
sewerages
sewered
sewerless
sewerlike
sewerman
sewers
severy
sewin
sewing
sewings
sewless
sewn
sewround
sews
sewster
sex
sexipolar
sexism
sexisms
sexist
sexists
sexisyllabic
sexisyllable
sexitubercular
sexivalence
sexivalency
sexivalent
sexless
sexlessly
sexlessness
sexlike
sexlocular
sexly
sexologic
sexological
sexologies
sexologist
sexology
sexpartite
sexplotation
sexpot
sexpots
sexradiate
sex
sextactic
sextain
sextains
sextan
sextans
sextant
sextantal
sextants
sextar
sextarii
sextarius
sextary
sextennial
sextern
sextet
sextets
sextette
sextettes
sextic
sextile
sextiles
sextillion
sextillions
sextillionth
sextipara
sextipartite
sextipartition
sextiply
sextipolar
sextos
sextodecimo
sextodecimos
sextole
sextolemos
sextos
sextry
sexts
sextubercular
sextuberculate
sextula
sextulary
sextumvirate
sextuor
sextuple
sextupled
sextuples
sextuplet
sextuplets
sextuplex
sextuplicate
sextuplicating
sextupling
sextuply
sextur
sextus
sexual
sexuall
sexualisation
sexualism
sexualist
sexualities
sexualities
sexualization
sexualize
sexualized
sexualizing
sexually
sexuous
sexupara
sexuparous
sexy
sey
seybertite
sezession
sf
sferics
sfm
sfogato
sfoot
sforzando
sforzandos
sforzato
sforzatos
sfree
sfumato
sfumatos
sfz
sg
sgabelli
sgabello
sgabellos
sgd
sgraffiato
sgraffiti
sgraffito
sh
sha
sha'ban
shaatnez
shab
shabandar
shabash
shabbat
shabbed
shabbier
shabbiest
shabbify
shabbily
shabbiness
shabble
shabbos
shabby
shabbyish
shabeque
shabrack
shabracque
shabroon
shabunder
shabuoth
shachle
shachly
shack
shackanite
shackatory
shackbolt
shacked
shacker
shacking
shackings
shackland
shackle
shacklebone
shackled
shackledom
shackler
shacklers
shackles
shackewise
shackling
shackly
shacko
shackoes
shackos
shacks
shacky
shad
shadbelly
shadberries
shadberry
shadbird
shadblow
shadblows
shadbush
shadbushes
shadchan
shadchanim
shadchans
shadchen
shaddock
shaddocks
shade
shaded
shadeful
shadeless
shadelessness
shader
shaders
shades
shadetail
shadflies
shadflower
shadfly
shadier
shadiest
shadily
shadine
shadiness
shading
shadings
shadkan
shado
shadoof
shadoofs
shadow
shadowable
shadowbox
shadowboxed
shadowboxes
shadowboxing
shadowed
shadower
shadowers
shadowfoot
shadowgram
shadowgraph
shadowgraphic
shadowgraphist
shadowgraphy
shadowier
shadowiest
shadowily
shadowiness
shadowing
shadowishly
shadowist
shadowland
shadowless
shagrag
shagreen
shagreened
shagreens
shagroon
shags
shagtail
shah
shahaptian
shaharit
shaharith
shahdom
shahdoms
shahee
shaheen
shahi
shahidi
shahin
shahs
shahzada
shahzadah
shahzadi
shaikh
shaikhi
shaird
shairds
shairn
shairns
shaitan
shaitans
shakable
shakably
shake
shakeable
shakebly
shakedown
shakedowns
shakefork
shaken
shakenly
shakeout
shakeouts
shakeproof
shaker
shakerag
shakers
shakes
shakescene
shakespeare
shakespearean
shakespeareana
shakespeareans
shakespearian
shakeup
shakeups
shakha
shakier
shakiest
shakily
shakiness
shaking
shakingly
shakings
shako
shakoes
shakos
shaksheer
shaksperean
shaksperian
shakta
shakti
shaktis
shaktism
shaku
shakudo
shakuhachi
shaky
shaldier
shale
shaled
shalee
shalelike
shaleman
shales
shalier
shaliest
shall
shallal
shallon
shalloon
shalloons
shallop
shallops
shallopy
shallot
shallots
shamoy
shamoyed
shamoying
shamoys
shampoo
shampooed
shampooer
shamooers
shamooing
shamooos
shamrock
shamrocks
shamroot
shams
shamsheer
shamshir
shamus
shamuses
shan
shan't
shanachas
shanachie
shanachus
shandeans
shandies
shandite
shandry
shandydan
shandy
shandygaff
shangan
shanghai
shanghaied
shanghaier
shanghaiing
shanghaiing
shanghais
shangy
shank
shanked
shanker
shanking
shankings
shankpiece
shanks
shanksman
shanna
shannies
shanny
shansa
shant
shantey
shanteys
shanti
shantied
shanties
shantih
shantihhs
shantis
shantung
shantungs
shanty
shanty's
shantying
shantylke
shantyman
shantymen
shantytown
shap
shapable
shape
shapeable
shaped
shapeful
shapeless
shapelessly
shapelessness
shapelier
shapeliest
shapeliness
shapely
shapen
shaper
shapers
shapes
shapeshifter
shapsmith
shapeup
shapeups
shapier
shapiest
shaping
shapingly
shapka
shapometer
shapoo
shaps
shark's
sharked
sharker
sharkers
sharkful
sharki
sharking
sharkish
sharkishly
sharkishness
sharklet
sharklike
sharks
sharkship
sharkskin
sharkskins
sharksucker
sharky
sharn
sharnbud
sharnbug
sharns
sharny
sharon
sharp
sharpbill
sharped
sharpen
sharpened
sharpenener
sharpeners
sharpening
sharps
sharper
sharpers
sharpest
sharpie
sharpies
sharping
sharpish
sharpite
sharpling
sharply
sharpness
sharps
sharpsaw
sharpsin
sharpsoshed
sharpshoot
sharpshooter
sharpshooters
sharpshooting
sharpster
sharptail
sharpware
sharpy
sharrag
sharry
shashlick
shashlik
shashliks
shaslick
shaslik
shasliks
shastaite
shaster
shastra
shastracara
shastraik
shastras
shastris
shastrik
shat
shatan
shathmont
shatter
shatterable
shatterbrain
shatterbrained
shattered
shatterer
shatterheaded
shattering
shatteringly
shatterment
shatterpated
shatterproof
shatters
shatterwit
shattery
shattuckite
shauchle
shaugh
shaugh
shaughs
shaul
shauled
shauling
shauls
shaup
shauri
shauve
shavable
shave
shaveable
shaved
shavee
shavegrass
shaveling
shaven
shaver
shavers
shavery
shaves
shavester
shavetail
shaveweeds
shavian
shavians
shavie
shavies
shaving
shavings
shaw
shawabti
shawed
shawfowl
shawing
shawl
shawl's
shawled
shawling
shawlless
shawllike
shawls
shawlwise
shawm
shawms
shawn
shawan
shawnee
shawnees
shawneewood
shawny
shaws
shawwal
shawy
shay
shayed
shaykh
shays
shazam
she
she'd
she'll
she's
shea
shedding
sheaf
sheafage
sheafed
sheafing
sheaflike
sheafripe
sheafs
sheafy
sheal
shealing
shealings
sheals
shear
shearbill
sheard
sheared
shearer
shearers
sheargrass
shearhog
shearing
shearlegs
shearless
shearling
shearman
shearmouse
shears
shearsman
sheartail
shearwater
shearwaters
sheas
sheet
sheetfish
sheetfishes
sheath
sheefish
sheefishes
sheel
sheeling
sheely
sheen
sheened
sheene
sheeneys
sheenful
sheenie
sheenier
sheenies
sheeniest
sheenng
sheenless
sheenly
sheens
sheen
sheep
sheepback
sheepbacks
sheepbell
sheepberries
sheepberry
sheepbine
sheepbiter
sheepbiting
sheepcot
sheepcote
sheepcrook
sheepdip
sheepdog
sheepdogs
sheepfaced
sheepfacedly
sheepfacedness
sheepfold
sheepfolds
sheepfoot
sheepfoots
sheepgate
sheephead
sheepheaded
sheepheads
sheephearted
sheepherder
sheepherding
sheerness
sheers
sheet
sheetage
sheeted
sheeter
sheeters
sheetfed
sheetflood
sheetful
sheeting
sheetless
sheetlet
sheetlike
sheetling
sheetrock
sheets
sheetwash
sheetways
sheetwise
sheetwork
sheetwriting
sheety
sheeve
sheeves
sheffield
shegets
shegetz
shehita
shehitah
sheik
sheikdom
sheikdoms
sheikh
sheikdom
sheikhlike
sheikhly
sheikhs
sheiklike
sheikly
sheiks
sheila
sheiling
sheitan
sheitans
sheitel
sheitlen
shekel
shekels
shekinah
shela
shelah
sheld
sheldapple
shelder
sheldfowl
sheldrake
sheldrakes
shelduck
shelducks
shelf
shelfback
shelffellow
shelfful
shelffuls
shelflike
shelflist
shelfmate
shelfpiece
shelfroom
shelfworn
shelfy
shell
shellac
shellack
shellacked
shellacker
shellackers
shellacking
shellackings
shellacks
shellacs
shellak
shellapple
shellback
shellbark
shellblow
shellblowing
shellbound
shellburst
shellcracker
shelleater
shelled
sheller
shellers
shelley
shelleyan
shelleyesque
shelffire
shelffish
shelffisheries
shelffishery
shelffishes
shelfflower
shelfull
shelhead
sheller
shelliest
shelliness
shelling
shellman
shellmen
shellmonger
shellpad
shellpot
shellproof
shells
shellshake
shellshocked
shellum
shellwork
shellworker
shelly
shellycoat
shelta
shelter
shelterage
shelterbelt
sheltered
shelterer
sheltering
shelteringly
shelterless
shelterlessness
shelters
shelterwood
sheltery
sheltie
shelties
sheltron
shelty
shelve
shelved
shepperding
sheppey
shepperded
sheppick
shepstare
shepster
sher
sherardize
sherardized
sherardizer
sherardizing
sheraton
sherbacha
sherbert
sherberts
sherbet
sherbetlee
sherbets
sherbetzide
sherd
shers
shereef
shereefs
sheria
sheriat
sherif
sherifa
sherifate
sheriff
sheriff's
sheriffalty
sheriffcies
sheriffcy
sheriffdom
sheriffess
sheriffhood
sheriffry
sheriffs
sheriffship
sheriffwick
sherifi
sherifian
sherifs
sherify
sheristadar
sherlock
sherlocks
sheroot
shill
shilla
shillaber
shillala
shillalah
shillalas
shilled
shillelagh
shillelaghs
shillelah
shiller
shillet
shilley
day
shillhouse
shillibeer
shilling
shillingless
shillings
shillingsworth
shilloo
shills
shilluk
shilly
shillyshally
shillyshallyer
shilpit
shilpits
shily
shim
shimal
shimmed
shimmer
shimmered
shimmering
shimmeringly
shimmers
shimmeriness
shimmery
shimmed
shimmied
shimmies
shimming
shimmy
shimmying
shimose
shimper
shims
shin
shinaniging
shipmate
shipmates
shipmatish
shipmen
shipment
shipment's
shipments
shipowner
shipowning
shippable
shippage
shipped
shippen
shippens
shipper
shipper's
shippers
shipping
shippings
shipplane
shippo
shippon
shippons
shippound
shippy
shiprade
ships
shipshape
shipshapely
shipside
shipsites
shipsmith
shipt
shipward
shipwards
shipway
shipways
shipwork
shipworm
shipworms
shipwreck
shipwrecked
shipwrecking
shipwrecks
shipwrecky
shipwright
shipwrightery
shipwrighty
shipwrights
shipyard
shipyards
shirakashi
shiralee
shirallee
shiraz
shire
shirehouse
shireman
shiremen
shires
shirewick
shirk
shirked
shirker
shirkers
shirking
shirks
shirky
shirl
shirlcock
shirley
shirpit
shirr
shirra
shirred
shirrel
shirring
shirrings
shirrs
shirt
shirtband
shirtdress
shirtfront
shirtier
shirtiest
shirtiness
shirting
shirtings
shirtless
shirtlessness
shirtlike
shirtmake
shirtmaker
shirtmaking
shirtman
shirtmen
shoebinding
shoebird
shoeblack
shoeboy
shoebrush
shoecraft
shoed
shoeflower
shoehorn
shoehorned
shoehorning
shoehorns
shoeing
shoeingsmith
shoelace
shoelaces
shoeless
shoemake
shoemaker
shoemakers
shoemaking
shoeman
shoemold
shoepac
shoepack
shoepacks
shoepacs
shoer
shoers
shoes
shoescraper
shoeshine
shoeshop
shoesmith
shoestring
shoestrings
shoetree
shoetrees
shoewoman
shofar
shofars
shoffroth
shofroth
shoful
shog
shogaol
shogged
shoggie
shooter
shooters
shooter
shooting
shootings
shootist
shootman
shootout
shootouts
shoot
shop
shop's
shopboard
shopbook
shopboy
shopboys
shopbreaker
shopbreaking
shope
shopfolk
shopful
shopfuls
shopgirl
shopgirlish
shopgirls
shophar
shophars
shophroth
shopkeep
shopkeeper
shopkeeper's
shopkeeperess
shopkeeperish
shopkeeperism
shopkeepers
shopkeepery
shopkeeping
shopland
shoplet
shoplift
shoplifted
shoplifter
shoplifters
shoplifting
shoplifts
shoplike
shopmaid
shopman
shoreland
shoreless
shoreline
shorelines
shoreman
shorer
shores
shoreside
shoresman
shoreward
shorewards
shoreweed
shoreyer
shoring
shorings
shorl
shorling
shorls
shorn
short
shortage
shortage's
shortages
shortbread
shortcake
shortcakes
shortchange
shortchanged
shortchanger
shortchanges
shortchanging
shortclothes
shortcoat
shortcomer
shortcoming
shortcoming's
shortcomings
shortcut
shortcut's
shortcuts
shorted
shorten
shortened
shortener
shorteners
shortening
shortenings
shortens
shotgunned
shotgunning
shotguns
shotless
shotlike
shotmaker
shotman
shotproof
shots
shotshell
shotsman
shotstar
shott
shotted
shotten
shotter
shotting
shotts
shotty
shou
shough
should
shoulder
shouldered
shoulderer
shoulderette
shouldering
shoulders
shouldest
shouldn
shouldn't
shouldna
shouldnt
shouldst
shoulerd
shoupeltin
shouse
shout
shouted
shouter
shouters
shouther
shouting
shoutingly
shouts
shoval
shove
shoved
shriveling
shrivelled
shrivelling
shrivels
shriven
shriver
shrivers
shrives
shriving
shroff
shroffed
shroffing
shroffs
shrog
shrogs
shropshire
shroud
shrouded
shrouding
shroudless
shroudlike
shrouds
shroudy
shrove
shroved
shrover
shrovetide
shroving
shrovy
shrrinking
shrub
shrub's
shrubbed
shrubberies
shrubbery
shrubbier
shubbiest
shubbiness
shubbish
shubby
shubland
shubless
shublet
shublike
shrubs
shrubwood
shruff
shrug
shutes
shuteye
shuteyes
shuting
shutness
shutoff
shutoffs
shutout
shutouts
shuts
shuttance
shutten
shutter
shutterbug
shutterbugs
shuttered
shuttering
shutterless
shutters
shutterwise
shutting
shuttle
shuttlecock
shuttlecocked
shuttlecocking
shuttlecocks
shuttled
shuttleheaded
shuttlelike
shuttler
shuttles
shuttlewise
shutting
shwa
shwanpan
shwanpans
shwebo
shy
shydepoke
shyer
shyers
shyest
shying
shyish
shylock
shylocked
shylocking
shylocks
shyly
shyness
shynesses
shypoo
shyster
shysters
si
siacalle
siafu
siak
sial
sialaden
sialadenitis
sialadenoncus
sialagologic
sialagogue
sialagoguic
sialemesis
sialic
sialid
sialidan
sialoangitis
sialogenous
sialoglogic
sialogogue
sialoid
sialolith
sialolithiasis
sialology
sialorrhea
sialoschisis
sialosemeiology
sialosis
sialostenosis
sialosyrinx
sialozemia
sials
siam
siamang
siamangs
siamese
siameses
siamoise
siauliai
sib
sibb
sibbed
sibbendy
siderosilicosis
siderosis
siderostat
siderostatic
siderotechny
siderotic
siderous
sidership
siderurgical
siderurgy
sides
sidesaddle
sidesaddles
sideshake
sideshow
sideshows
sideslip
sideslipped
sideslapping
sideslips
sidesman
sidesmen
sidespin
sidespins
sidesplitter
sidesplitting
sidesplittingly
sidest
sidestep
sidestepped
sidestepper
sidesteppers
sidestepping
sidesteps
sidestick
sidestroke
sidestrokes
sidesway
sideswipe
sideswiped
sideswiper
sideswipers
sideswipes
sideswiping
sidetrack
sidetracked
sidetracking
sidetracks
sightscreen
sightsee
sightseeing
sightseen
sightseer
sightseers
sightsees
sightsman
sightworthiness
sightworthy
sighty
sigil
sigilative
sigilistic
sigill
sigillaria
sigillariaceous
sigillarian
sigillarid
sigillarioid
sigillarist
sigillaroid
sigillary
sigillate
sigillated
sigillation
sigillative
sigillistic
sigillographer
sigillographical
sigillography
sigillum
sigils
sigla
siglarian
sigloi
siglos
siglum
sigma
sigmas
sigmaspire
sigmate
sigmatic
sigmation
sigmatism
sigmodont
sigmoid
sigmoidal
sigmoidally
sigmoidectomy
sigmoiditis
sigmoidopexy
sigmoidoproctostomy
sigmoidorectostomy
sigmoidoscope
sigmoidoscopy
sigmoidostomy
sigmoidoids
sign
signa
signable
signacle
signal
signaled
signalee
signaler
signalers
signalese
signaletic
signaletics
signaling
signalise
signalised
signalising
signalism
signalist
signalities
signality
signalization
signalize
signalized
signalizes
signalizing
signalled
signaller
signalling
signally
signalman
signalmen
signalment
signals
signance
signary
signatary
signate
signation
signator
signatories
signatory
signatural
signature
signature's
signatured
signatureless
signatures
signaturing
signaturist
signboard
signboards
signed
signee
signer
signers
signet
signeted
signeting
signets
signetur
signetwise
signeur
signeury
signifer
signifiable
significant
signific
significal
significance
significancies
significancy
significand
significant
significantly
significantness
significants
significate
signification
significations
significatist
significative
significatively
significativeness
significator
significatory
significatrix
significatum
significature
significavit
significian
significs
signifie
signified
signifier
signifies
signify
signifying
signing
signior
signiori
signiories
signiors
signiorship
signiory
signist
signitor
signless
signlike
signman
signoff
signoi
signon
signons
signor
signora
signoras
signore
signori
signoria
signorial
signories
signorina
signorinas
signorine
signorini
signorino
signorinos
signorize
signors
signorship
signory
signpost
signposted
signposting
signposts
signs
signum
signwriter
sigrim
sigurd
sijill
sika
sikar
sikara
sikatch
sike
siker
sikerly
sikerness
sikes
siket
sikh
sikhara
sikhism
sikhra
sikhs
sikimi
sikkim
sikra
siksika
sil
silage
silages
silaginoid
silane
silanes
silanga
silbergroschen
silcrete
sild
silds
sile
silen
silenceaceous
silence
silenced
silencer
silencers
silences
silencing
silency
silene
silicified
silicifies
silicifluoric
silicifluoride
silicify
silicifying
siliciophite
silicious
silicium
siliciums
siliciuret
siliciuretted
silicize
silece
sileces
silico
silicoacetic
silicoalkaline
silicoaluminate
silicoarsenide
silicocalcareous
silicochloroform
silicocyranide
silicoethane
silicoferrous
silicoflagellate
silicofluoric
silicofluoride
silicohydrocarbon
silicomagnesian
silicomanganese
silicomethane
silicon
silicone
silicones
siliconize
silicononane
silicons
silicopropene
silicoses
silicoses
silicotalcoses
silicothermic
silicotonic
silicotitanate
silicotungstate
silicotungstic
silicula
silicicular
silicule
siliculose
siliculous
silicyl
siliqua
siliquaceous
siliquae
silique
siliques
siliquiferous
siliquiform
siliquose
siliquous
silk
silkalene
silkaline
silked
silken
silker
silkflower
silkgrower
silkie
silkier
silkiest
silkily
silkine
silkiness
silking
silkling
silklike
silklike
silkman
silkmen
silkness
silkolene
silkoline
silkline
silks
silkscreen
silkscreened
silkscreening
silkscreens
silksman
silkstone
silktail
silkweed
silkweeds
silkwoman
silkwood
silkwork

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 8430
siloxanes
silphid
silphium
silt
siltage
siltation
silted
siltier
siltiest
siltling
siltlike
silted
siltier
siltiest
siltstone
silty
silundum
silure
s lucrures
silurian
silurid
silurids
siluroid
siluroids
silurus
silia
silvae
silvan
silvanity
silvanry
silvans
silvas
silvendy
silver
silverback
silverbeater
silverbelly
silverberries
silverberry
silverbiddy
silverbill
silverboom
silverbush
silvered
silverer
silverers
silereye
silverfin
silverfish
silverfishes
silverhead
silverier
silveriest
silverily
silveriness
silvering
silverise
silverised
silverish
silverising
silverite
silverize
silverized
silverizer
silverizing
silverleaf
silverleaves
silverless
silverlike
silverling
silverly
silvern
silverness
silverpoint
silverrod
silvers
silverside
silversides
silverskin
silversmith
silversmithing
silversmiths
silverspot
silvertail
silvertip
silvertop
silvervine
silverware
silverweed
silverwing
silverwood
silverwork
silverworker
silvery
silvester
silvex
silvical
silvicolous
silvics
silvicultural
silviculturally
silviculture
silviculturist
silyl
sim
sima
simagre
simal
simar
simara
simarouba
simaroubaceous
simarre
simars
simaruba
simarubaceous
simarubas
simas
simazine
simazines
simba
simball
simbil
simblin
simbling
simblot
simcon
sime
simeon
simeonite
simia
simiad
simial
simian
simianity
simians
simiesque
simiid
similar
similarly
similarities
similarity
similarize
similarly
similarly
similary
similate
simplicidentate
simplicist
simplicitarian
simpliciter
simplicities
simplicity
simplicity's
simplicize
simplification
simplifications
simplificative
simplificator
simplified
simplifiedly
simplifier
simplifiers
simplifies
simplify
simplifying
simpling
simplism
simplisms
simplist
simplistic
simplistically
simpulum
simply
simps
simpson
simpitico
simpula
simpulum
simpulumla
sims
simsim
simson
simul
simula
simulacra
simulacral
simulacrcra
simulacre
simulacrize
simulacrum
simulacrums
simulance
simulant
simulants
simular
simulars
simulate
simulated
simulates
simulating
simulation
simulations
simulative
simulatively
simulator
simulator's
simulators
simulatory
simulcast
simulcasting
simulcasts
simule
simuler
simuliid
simulioid
simulize
simultaneity
simultaneous
simultaneously
simultaneousness
simulty
simurg
simurgh
sin
sin's
sina
sinaean
sinaic
sinaite
sinatic
sinal
sinalbin
sinamay
sinamin
sinamine
sinanthropus
sinapate
sinapic
sinapin
sinapine
sinapinic
sinapis
sinewiness
sinewing
sinewless
sinewous
sinews
sinewy
sinfonia
sinfonie
sinfonietta
sinful
sinfully
sinfulness
sing
singability
singable
singableness
singally
singapore
singarip
singe
singed
singeing
singeingly
singer
singeress
singerie
singers
singes
singe
singe
singfest
singh
singhalese
singillatim
singing
singingfish
singingfishes
singly
singkamas
single
singlebar
singled
singlehanded
singlehandedly
singlehandedness
singlehearted
singleheartedly
singleheartedness
singlehood
singlemindedly
singleness
singleprecision
singler
singles
singlestep
singlestick
singlesticker
singlet
singleton
singleton's
singletons
singletree
singletrees
singlets
singling
singlings
singly
sings
singsong
singsongs
singsongy
singspiel
singstress
singular
singularism
singularist
singularities
singularity
singularity's
singularization
singularize
singularized
singularizing
singularly
singularness
singles
singult
singultation
singultous
singultus
singultuses
sinh
sinhalese
sinhalite
sinhasan
sindh
sinical
sinicism
sinicize
sinicized
sinicizes
sinicizing
sinify
sinigrin
sinigrinase
sinigrosid
sinigroside
sinister
sinisterly
sinisterness
sinisterwise
sinistra
sinistrad
sinistral
sinistrality
sinistrally
sinistration
sinistrin
sinistrocerebral
sinistrocicular
sinistrocularity
sinistrodextral
sinistrogyrate
sinistrogyration
sinistrogyric
sinistromanual
sinistrosal
sinistrousally
sinistrosse
sinistrowsely
sinistically
sinistrously
sinistrously
sinistrously
sinistic
sinjer
sink
sinkable
sinkage
sinkages
sinkboat
sinkbox
sinked
sinker
sinkerless
sinkers
sinorespiratory
sinproof
sins
sinsion
sinstring
sinsyne
sinter
sinterability
sintered
sintering
sinters
sintoc
sinuate
sinuated
sinuatedentate
sinuately
sinuates
sinuating
sinuation
sinuatocontorted
sinuatodentate
sinuatodentated
sinuatopinnatifid
sinuatoserrated
sinuatoundulate
sinuatrial
sinuauricular
sinuitis
sinuose
sinuosely
sinuosities
sinuosity
sinuous
sinuously
sinuousness
sinuval
sinupallial
sinupalliate
sinus
sinusal
sinuses
sinusitis
sinuslike
sinusoid
sinusoidal
sinusoidally
sinusoids
sinuventricular
sinward
siphonophorous
siphonoplax
siphonopore
siphonopore
siphonorhinal
siphonorhine
siphonosome
siphonostele
siphonostelic
siphonostely
siphonostomatous
siphonostome
siphonostomous
siphonozoooid
siphons
siphonula
siphorhinal
siphorhinian
siphosome
siphuncle
siphuncled
siphuncular
siphunculate
siphunculated
siphunculus
sipid
sipidity
siping
sipling
sipped
sipper
sippers
sippet
sippets
sipping
sippingly
sippio
sipple
sippy
sips
sipunculacean
sipunculid
sipunculoid
sipunculus
sipylite
sir
sircar
sirdar
sirdars
sissiness
sissing
sissone
sissonne
sissonnes
sissoo
sissu
sissy
sissyish
sissyism
sist
sisten
sistence
sistency
sistent
sister
sistered
sisterhood
sisterhoods
sistering
sisterize
sisterless
sisterlike
sisterliness
sisterly
sistern
sisters
sistership
sistine
sisting
sistle
sistomensin
sistra
sistren
sistroid
sistrum
sistrums
sisyphean
sisyphus
sisyrinchium
sit
sitao
sitar
sitarist
sitarists
sitars
sitatunga
sitatungas
situating
situation
situational
situationally
situations
situla
situlae
situp
situps
situs
situses
situtunga
sitz
sitzbath
sitzkrieg
sitzmark
sitzmarks
siums
siva
sivaism
sivaite
sivan
sivathere
sivatherioid
sivatherium
siver
sivers
sivvens
siwash
siwashed
siwashing
siwens
six
sixain
sixer
sixes
sixfoil
sixfold
sixfolds
sixgun
sixhaend
sixhynde
sixing
sixish
sixmo
sixmos
sixpence
sixpences
sizinesses
sizing
sizings
sizy
sizygia
sizygium
sizz
sizzard
sizzling
sizzle
sizzled
sizzler
sizzlers
sizzles
sizzling
sizzlingly
sjambok
sjomil
sjomila
sk
skaalpund
skaanmoog
skaddle
skaff
skaffie
skag
skags
skail
skailie
skainsmate
skair
skaitbird
skaithy
skal
skalawag
skald
skaldic
skalds
skaldship
skalpund
skance
skandhas
skart
skasely
skat
skate
skateable
skateboard
skateboarded
skateboarder
skateboarders
skateboarding
skateboards
skated
skatemobile
skatepark
skater
skaters
skates
skatikas
skatiku
skating
skatings
skatist
skatol
skatole
skatoles
skatology
skatols
skatoma
skatocopy
skatosine
skatoxyl
skats
skaw
skayles
skean
skene
skenes
skeanockle
skeanes
sked
skedaddle
skedaddled
skedaddler
skedaddling
skedge
skedgewith
skedlock
skee
skeeball
skeech
skeed
skeeg
skeeing
skeuomorphic
skevish
skew
skewback
skewbacked
skewbacks
skewbald
skewbalds
skewed
skewer
skewered
skewerer
skewering
skewers
skewerwood
skewing
skewings
skewl
skewly
skewness
skewninesses
skews
skewwhiff
skewwise
skewy
skey
skeyting
skhian
ski
skiable
skiagram
skiagrams
skiagraph
skiagraphed
skiagrapher
skiagraphic
skiagraphical
skiagraphically
skiagraphing
skiagraphy
skiamachy
skiometer
skiometry
skiapod
skiapodous
skiascope
skiascopy
skiatron
skully
skulp
skun
skunk
skunk's
skunkbill
skunkbush
skunkdom
skunked
skunkery
skunkhead
skunking
skunkish
skunklet
skunks
skunktop
skunkweed
skunky
skupshtina
skurry
skuse
skutterudite
sky
sky's
skybal
skybald
skyborne
skycap
skycaps
skycoach
skycraft
skydive
skydived
skydiver
skydivers
skydives
skydiving
skydove
skye
skye'd
skye'y
skye'te
skye'ful
skyhook
skyhooks
skyhoot
skying
skyish
skyscraping
skyshine
skystone
skysweeper
skye
skyugle
skyward
skywards
skywave
skyway
skyways
skywrite
skywriter
skywriters
skywrites
skywriting
skywritten
skywrote
sl
sla
slab
slabbed
slabber
slabbered
slabberer
slabbering
slabbers
slabbery
slabbiness
slabbing
slabby
slabline
slabman
slabness
slabs
slabstone
slabwood
slack
slackage
slacked
slacken
slackened
slackener
slackening
slackens
slacker
slackerism
slackers
slackest
slackie
slacking
slackingly
slackly
slackminded
slackmindedness
slackness
slacks
slackwitted
slackwittedness
slad
sladang
slade
slae
slag
slaggability
slaggable
slagged
slagger
slaggier
slaggiest
slagging
slaggy
slagless
slaglessness
slagman
slags
slain
slainte
slaister
slaistry
slait
slakable
slake
slakeable
slaked
slakeless
slaker
slakers
slakes
slakier
slakiest
slakin
slaking
slaky
slalom
slalomed
slaloming
slaloms
slam
slambang
slammakin
slammed
slammer
slammerkin
slamming
slammock
slammocking
slammocky
slamp
slampamp
slampant
slams
slander
slandered
slanderer
slanderers
slanderful
slanderfully
slandering
slanderingly
slanderous
slanderously
slanderousness
slanderproof
slanders
slane
slang
slanged
slangier
slangiest
slangily
slanginess
slanging
slangish
slangishly
slangism
slangkop
slangous
slangrell
slangs
slangster
slanguage
slangular
slangwhang
slangy
slank
slant
slanted
slanter
slantindicular
slantindicularly
slanting
slantingly
slantingways
slantly
slants
slantways
slantwise
slap
slapdab
slapdash
slapdasherries
slapdashery
slapdashes
slape
slaphappier
slaphappiest
slaphappy
slapjack
slapjacks
slapped
slapper
slappers
slapping
slappy
slaps
slapshot
slapstick
slapsticks
slapstickey
slare
slart
slarth
slash
slashed
slasher
slashers
slashes
slashing
slashingly
slashings
slasy
sleights
sleighty
slendang
slender
slenderer
slenderest
slenderish
slenderization
slenderize
slenderized
slenderizes
slenderizing
slenderly
slenderness
slen
t
slepez
slept
slete
sleuth
sleuthdog
sleuthed
sleuthful
sleuthhound
sleuthing
sleuthlike
sleuths
slew
slewed
slewer
slewing
slewingslews
slews
sleuth
sley
sleyed
sleyer
sleying
sleys
slibbersauce
slice
sliceable
sliced
slicer
slicers
slices
slich
slicht
slicing
slicingly
slick
slicked
slicken
slickens
slickenside
slickensided
slicker
slickered
slickers
slickery
slickest
slicking
slickly
slickness
slickpaper
sicks
slickstone
slid
slidable
slidableness
slidably
slidage
slidden
slidder
slidderness
slidery
sliddry
slide
slideable
slideableness
slideably
slided
slidefilm
slidegroat
slidehead
slideknot
slideman
slideproof
slider
sliders
slides
slideway
sideways
sliding
slidingly
slidingness
slidometer
slier
sliest
slifter
sliggeen
slight
slighted
slighten
slighter
slightest
slightier
slightest
slightly
slightness
slighting
slightlyly
slightish
slightly
slightness
slights
slightly
slik
slily
slim
slime
slimed
slimeman
slimemen
slimepit
slimer
slimes
slimier
slimiest
slimily
sliminess
sliming
slimish
slimishness
slimline
slimly
slimmed
slimmer
slimmest
slimming
slimmish
slimness
slimnesses
slimpsier
slimpsiest
slipsheet
slipshod
slipshoddiness
slipshoddy
slipshodness
slipshoe
slipskin
slipslap
slipslop
slipsloppish
slipsloppism
slipslops
slipsole
slipsoles
slipstep
slipstick
slipstone
slipstream
slipstring
slipt
sliptopped
slipup
slipups
slipware
slipwares
slipway
slipways
slirt
slish
slit
slit's
slitch
slite
slither
slithered
slithering
slitheroo
slithers
slithery
slithy
sliting
slitless
slitlike
slits
slitshell
slitted
slitter
slitters
slitting
slitty
slitwing
slitwise
slitwork
slive
sliver
slivered
sliverer
sliverers
slivering
sliverlike
sliverproof
slivers
slivery
sliving
slivovic
slivovics
slivovitz
sliver
sloan
sloat
slob
slobber
slobberchops
slobbered
slobberer
slobbering
slobbers
slobery
slobbing
slobbiness
slobbish
slobby
slobs
slock
slocken
slocker
slockingstone
slockster
slod
slodder
slodge
slodger
sloe
sloeberries
sloeberry
sloebush
sloes
sloetree
slog
slogan
slogan's
sloganeer
sloganize
slogans
slogged
slogger
sloggers
slogging
sloggingly
slogs
slogwood
sloid
sloids
slojd
slojds
sloka
sloe
sloked
sloken
sloking
slommack
slommacky
slommock
slon
slone
slonk
sloo
sloom
sloomy
sloop
sloopman
sloopmen
sloops
sloosh
sloot
slop
slopdash
slope
sloped
slopeley
slopeness
sloper
slopers
slopes
slopeways
slopwise
sloping
slopingly
slopingness
slopemaker
slopmaking
sloppage
slopped
sloperies
sloppery
sloppier
sloppiest
sloppily
sloppiness
slopping
sloppy
slops
slopseller
slopselling
sloshop
sloystone
slopowork
sloplayer
slopoworks
slopy
sloppy
slosh
sloshed
slosher
sloshes
sloshier
sloshiest
sloshily
sloshiness
sloshing
sloshy
slot
slot's
slotback
slotbacks
slote
sloted
sloth
slothful
slothfully
slothfulness
slothfuls
slothhound
sloths
slotman
slots
slotted
slotten
slotter
lottery
slotting
slotwise
sloubbie
slouch
slouched
sloucher
slouchers
slouches
slouchier
slouche
test
slouchily
slouchiness
slouching
slouchingly
slouchy
slough
sloughed
sloughier
sloughiest
sloughiness
sloughing
sloughs
sloughy
slounge
slounger
slour
slush
slovak
slovaks
sloven
slovene
slovenian
slovenlier
slovenliest
slovenlike
slovenliness
slovenly
slovenry
slovens
slovenwood
slow
smastry
smaze
smazes
smear
smearcase
smeared
smearer
smearers
smearier
smeariest
smeariness
smearing
smearless
smears
smeary
smeat
smectic
smectis
smectite
smectymnuan
smeddum
smeddums
sme
smeech
smeek
smeeked
smeeking
smeeks
smeeky
smeer
smeeth
smegma
smegmas
smegmatic
smell
smellable
smellage
smelled
smeller
smellers
smellful
smellfungi
smellfungus
smellie
smeller
smelliest
smelliness
smelling
smellproof
smells
smellsome
smelly
smelt
smelted
smelter
smelteries
smelterman
smelters
smeltery
smelting
smeltman
smelts
smerk
smerked
smerking
smerks
smervy
smeth
smethe
smeuse
smeuth
snew
smews
smich
smicker
smicket
smickly
smiddie
smiddum
smiddy
smidge
smidgen
smidgens
smidgeon
smidgeons
smidgin
smidgins
smiercase
smifligate
smifligation
smift
smiggins
smilacaceous
smilaceous
smilacin
smilax
smilaxes
smile
smileable
smileage
smiled
smileful
smilefulness
smileless
smilelessly
smilelessness
smilemaker
smilemaking
smileproof
smiler
smilers
smiles
smilet
smiley
smiling
smilingly
smilingness
smilodon
smily
sminthurid
smirch
smirched
smircher
smirches
smirching
smirchless
smirchly
smirks
smirky
smirtle
smit
smitable
smolder
smoldered
smoldering
smolderingness
smolders
smolt
smolts
smooch
smooched
smooches
smooching
smoochs
smoochy
smoodge
smoodged
smoodger
smoodging
smooge
smook
smoorich
smoot
smooth
smoothable
smoothback
smoothboots
smoothbore
smoothbored
smoothcoat
smoothed
smoothen
smoothened
smoothening
smoothened
smoothes
smoothes
smoothest
smoothhound
smoothie
smoothies
smoothification
smoothify
smoothing
smoothingly
smoothish
smoothly
smoothmouthed
smoothness
smudging
smudgy
smug
smugger
smuggery
smuggest
smuggish
smuggishly
smuggishness
smuggle
smuggleable
smuggled
smuggler
smugglers
smugglery
smuggles
smuggling
smugism
smugly
smugness
smugnesses
smuisty
smur
smurks
smurr
smurry
smurtle
smuse
smush
smut
smutch
smutched
smutches
smutchier
smutchiest
smutching
smutchless
smucky
smutless
smutproof
smuts
smutted
smutter
smuttier
smuttiest
smuttily
smuttiness
smutting
snailed
snailery
snailfish
snailfishessnailflower
snailflower
snailing
snailish
snailishly
snaillike
snails
snaily
snaiith
snake
snakebark
snakeberry
snakebird
snakebite
snakebennies
snakeblenny
snaked
snakefish
snakefishes
snakeflies
snakeflower
snakefly
snakehead
snakeholing
snakeleaf
snakeless
snakelet
snakelike
snakeling
skakemouth
skakemouths
skakeneck
snakeology
snakephobia
snakepiece
snakepipe
snakeproof
snaker
snakerooot
snakery
snakes
snakeship
snakeskin
snakestone
snakeweek
sneezing
sneezy
snell
sneller
snellest
snells
snelly
snerp
snew
snib
snibbed
snibbing
snibble
snibbled
snibbler
snibel
snibs
snicher
snick
snickdraw
snickdrawing
snicked
snicker
snickered
snickerer
snickering
snickeringly
snickers
snickersnee
snickery
snicket
snickey
snicking
snickle
snicks
sniddle
snide
snidely
snideness
snider
snidery
snidest
snies
sniff
sniffable
sniffed
sniffer
sniffers
sniffier
sniffiest
sniffily
sniffiness
sniffing
sniffingly
sniffish
sniffishly
sniffishness
sniffle
sniffled
sniffer
sniffers
sniffles
sniffling
sniffly
sniffs
snifty
snift
snifted
snifter
snifters
snifting
snifty
snig
snigged
snigger
sniggered
sniggerer
sniggering
sniggeringly
sniggers
snigging
sniggle
sniggled
snigglar
snigglers
sniggles
sniggling
sniggoringly
snight
snigs
snip
snipe
snipe'sbill
snipebill
sniped
snipefish
snipefishes
snipelike
sniper
snipers
sniperscope
snipes
snipesbill
sniping
snipish
snipjack
snipnose
snipocracy
snipped
snipper
snipperado
snippers
snippersnapper
snipperty
snippet
snippetier
snippetiest
snippetiness
snippets
snippety
sniprier
snippiest
nippily
snippiness
snipping
snippish
snippy
snips
snipsnapsnorum
sniptious
snippy
snirl
snirt
snurtle
snit
snitch
snitched
snitcher
snitchers
snitches
snitchier
snitchiest
snitching
snitchy
snooting
snoots
snooty
snoove
snooze
snoozed
snoozer
snoozers
snoozes
snoozier
snooziest
snooziness
snoozing
snoozle
snoozled
snoozles
snoozling
snoozy
slop
snore
snored
snoreless
snorer
snorers
snores
snoring
snoringly
snork
snorkel
snorkeled
snorkeler
snorkeling
snorkels
snorker
snort
snorted
snorter
snorters
snorting
snortingly
snortle
snorts
snorty
snot
snots
snotter
snottery
snottie
snottier
snottiest
snottily
snottiness
snotty
snouch
snout
snout's
snouted
snouter
snoutfair
snoutier
snoutiest
snouting
snoutish
snoutless
snoutlike
snouts
snouty
snow
snowball
snowballed
snowballing
snowballs
snowbank
snowbanks
snowbell
snowbells
snowbelt
snowberg
snowberries
snowberry
snowbird
snowbirds
snowblink
snowblower
snowbound
snowbreak
snowbridge
snowbroth
snowbrush
snowbush
snowbushes
snowcap
snowcapped
snowcaps
snowcraft
snowcreep
snugness
snugnesses
snugs
snum
snup
snupper
snur
snurl
snurly
snurp
snurt
snuzzle
sny
snyaptic
snye
snyed
snyes
snying
so
soak
soakage
soakages
soakaway
soaked
soaken
soaker
soakers
soaking
soakingly
soakman
soaks
soaky
soallies
soally
soam
soap
soapbark
soapbarks
soapberries
soapberry
soapbox
soapboxer
soapboxes
soapbubbly
soapbush
soaped
soaper
soaperies
societe
societeit
societies
societified
societism
societist
societologist
societology
society
society's
societyese
societyish
societyless
socii
socinian
sociobiological
sociobiology
sociocentric
sociocentricity
sociocentrism
sociocracy
sociocrat
sociocratic
sociocultural
socioculturally
sociodrama
sociodramatic
socioeconomic
socioeconomically
socioeducational
sociogenesis
sociogenetic
sociogenic
sociogeny
sociogram
sociography
sociol
sociolatry
sociolegal
sociolinguistic
sociolinguistics
sociologese
sociologist
sociologic
sociological
sociologically
sociologies
sociologism
sociologist
sociologistic
sociologically
sociologists
sociologize
sociologized
sociologizer
sociologizing
sociology
sociomedical
sociometric
sociometry
socionomic
socionomics
socionomy
sociopath
sociopathic
sociopathies
sociopathes
sociopathy
sociopathic
sociopolitical
sociopsychological
socioreligious
socioromantic
sociosexual
sociosexualities
sociosexuality
sociostatic
sociotechnical
socius
sock
sockdolager
sockdologer
socked
socker
sockeroo
sockeroos
socket
socket's
socketed
socketful
socketing
socketless
sockets
sockeye
sockeyes
sockhead
sodding
soddite
soddy
sodic
sodio
sodioaluminic
sodioaurous
sodiocitrate
sodiohydric
sodioplatinic
sodiosalicylate
sodiotartrate
sodium
sodiums
sodless
sodoku
sodom
sodomic
sodomies
sodomist
sodomite
sodomites
sodomitess
sodomitic
sodomitical
sodomitically
sodomize
sodomy
sods
sodwork
sody
soe
soekoe
soever
sofa
sofa's
sofane
sofar
sofars
sofas
sofer
soffarid
soffione
soffioni
soffit
soffits
soffritto
sofia
soldatesque
solder
solderability
soldered
solderer
solderers
soldering
solderless
solders
soldi
soldier
soldierbird
soldierbush
soldierdom
soldiered
soldieress
soldierfare
soldierfish
soldierishes
soldierhearted
soldierhood
soldieries
soldiering
soldierize
soldierlike
soldierliness
soldierly
soldierproof
soldiers
soldiership
soldierwise
soldierwood
soldiery
soldo
sole
solea
soleas
solecise
solecised
solecises
solecising
solecism
solecisms
solecist
solecistic
solecistical
solecistically
solecists
solecize
solecized
solecizer
solecizes
solecizing
soled
soleiform
soleil
solein
soleless
solely
solemn
solemncholy
solemner
solemnness
solemnest
solemnified
solemnify
solemnifying
solemnise
solemnities
solemnitude
solemnity
solemnization
solemnize
solemnized
solemnizer
solemnizes
solemnizing
solemnly
solemnness
solene
solenaceous
solenese
solenesses
solenette
solenial
solenite
solenitis
solenium
solenne
solenemente
solenoconch
solenocyte
solenodon
solenodont
solenogaster
solicitor
solicitors
solicitorship
solicitous
solicitously
solicitousness
solicitress
solicitrix
solicits
solicitude
solicitudes
solicitudinous
solid
solidago
solidagos
solidare
solidaric
solidarily
solidarism
solidarist
solidaristic
solidarities
solidarity
solidarize
solidarized
solidarizing
solidary
solidate
solidated
solidating
solideo
solider
soldest
solid
solidifiability
solidifiable
solidifiableness
solidification
solidified
solidifier
solidifies
solidiform
solidify
solidifying
solidillu
solidish
solidism
solidist
somatotropin
somatotropism
somatotype
somatotyper
somatotypic
somatotypically
somatotypology
somatotypy
somatous
somatrophin
somber
somberish
somberly
somberness
sombre
sombreish
sombrely
sombreness
sombreite
sombrely
sombrously
sombrousness
sombrelite
sombrelly
sombrelness
sombrelrere
sombrelzted
some
somebodies
somebody
somebody'll
somebodyll
someday
somedays
somedeal
somegate
somehow
someone
someone'll
someone's
someone'll
someones
somepart
someplace
somers
somersault
somersaulted
somersaulting
somersaults
somerset
somerseted
somerseting
somersets
somersetted
somersetting
somervillite
somesthesia
somesthesia
somesthesises
somesthetic
somet
something
somethingness
sometime
sometimes
somever
someway
someways
somewhat
somewhatly
somewhatness
somewhats
somewhen
somewhence
somewhere
somewheres
somewhere
somewhiles
somewhither
somewhy
somewise
somital
somite
somites
somitic
somler
somma
sommaite
sommelier
sommeliers
sommite
somnambulance
somnambulancy
somnambulant
somnambular
somnambulary
somnambulate
somnambulated
somnambulating
somnambulation
somnambulator
somnambule
somnambulency
somnambulic
somnambulically
somnambulism
somnambulist
somnambulistic
somnambulistically
somnambulists
somnambulize
somnambulous
somne
somner
somnial
somniate
somniative
somniculous
somnifacient
somniferous
somniferously
somnific
somnifuge
somnifugous
somnify
somniloquacious
somniloquence
somniloquent
somniloquies
somniloquism
somniloquist
somniloquize
somniloquous
somniloquy
somnipathist
somnipathy
somnivoency
somnivolent
somnolence
somnolences
somnolencies
somnolency
somnolent
song
song's
songbag
songbird
songbirds
songbook
songbooks
songcraft
songer
songfest
songfests
songful
songfully
songfulness
songish
songkok
songland
songle
songless
songlessly
songlessness
songlet
songlike
songman
songs
songsmith
songster
songsters
songstress
songstresses
songworthy
songwright
songwriter
songwriters
songwriting
songy
sonthood
sonic
sonica
sonically
sonicate
sonicated
sonicates
sonicating
sonication
sonicator
sonics
soniferous
sonoriferously
sonorific
sonorities
sonority
sonorize
sonorophone
sonorosity
sonorous
sonorously
sonorousness
sonovox
sonovoxes
sons
sonship
sonships
sosie
sosier
sosiest
sosy
sontag
sontenna
soochong
soochongs
soodle
soodled
soodling
soodly
sooey
soogan
sooge
soogeed
soogeeing
soogeing
soojee
sook
sookie
sooky
sool
sooloos
soom
soon
sooner
sooners
soonest
soonish
soonly
soony
sooper
soorawn
soord
sooreyn
soorkee
soorki
soorky
soorma
soosoo
soot
sooted
sooter
sooterkin
sooth
soothe
soothed
soother
sootherer
soothers
soothes
soothest
soothfast
soothfastly
soothfastness
soothful
soothing
soothingly
soothingness
soothless
soothly
sooths
soothsaid
soothsaw
soothsay
soothsayer
soothsayers
soothsayership
soothsaying
soothsays
sootied
sootier
sootiest
sootily
sootiness
sooting
sootish
sootless
sootlike
sootproof
sophora
sophoria
sophronize
sophronized
sophronizing
sophrosyne
sophs
sophta
sophy
sopite
sopited
sopites
sopiting
sipation
sopor
soporate
soporiferous
soporiferously
soporiferousness
soporific
soporifical
soporificantly
soporifics
soporifousness
soporose
soporous
sopors
sopped
sopper
soppier
soppiest
soppiness
sopping
soppy
soprani
sopranino
sopranist
soprano
sopranos
sops
sora
sorabian
sorage
soral
soralium
sorance
soras
sorb
sorbability
sorbable
sorbate
sorbates
sorbed
sorbefacient
sorbent
sorbents
sorbet
sorbets
sorbic
sorbile
sorbin
sorbing
sorbinose
sorbitan
sorbite
sorbitic
sorbitize
sorbitol
sorbitols
sorbol
sorbonist
sorbose
sorboses
sorbosid
sorboside
sorbs
sorbus
sorcer
sorcerer
sorcerer's
sorcerers
sorceress
sorceresses
sorceries
sorcering
sorcererize
sorcerous
sorcerously
sorcery
sorchin
sord
sorda
sordamente
sordavalite
sordawalite
sordellina
sordes
sordid
sordidity
sordidly
sordidness
sordine
sordines
sordini
sordino
sordo
sordor
sords
sore
soreddia
soredia
soredial
sorediate
sorediferous
sorediform
soredioid
soredium
soree
sorefalcon
sorefoot
sorehawk
sorehead
soreheaded
soreheadedly
soreheadedness
soreheads
sorehearted
sorehon
sorel
sorels
sorely
sorema
soreness
sorenesses
sorer
sores
sorest
sorghe
sorgho
sorghos
sorghum
sorghums
sorgo
sorgos
sori
soricid
soricident
soricine
soricoid
soriferous
sorite
sorites
soritic
soritical
sorn
sornare
sornari
sorned
sornner
sorners
sorning
sorns
soroban
soroche
soroches
soroptimist
sororal
sororate
sororates
sororial
sororially
sororicidal
sororicide
sororities
sorority
sororize
sorose
soroses
sorosil
sorosilicate
sorosis
sorosises
sorosphere
sorption
sorptions
sorptive
sorra
sorrance
sorrel
sorrels
sorren
sorrento
sortita
sortition
sortlige
sortly
sortment
sorts
sortwith
sorty
sorus
sorva
sory
sos
sosh
soshed
sosie
soso
sosoish
sospiro
sosquil
soss
sossie
sossiegos
sossle
sostenendo
sostenente
sostenuti
sostenuto
sostenutos
sostinento
sostinento
sot
sotadean
sotadic
soterial
soteriologic
soteriological
soteriology
soth
sothic
sothi
soths
sotie
sotnia
sotnik
sotol
sotols
sots
sottage
sotted
sottedness
sotter
sottery
sottie
sotting
sottise
sottish
sottishly
sottishness
sotweed
sou
sou'easter
sou'wester
souagga
souamosa
souamula
souari
souaris
soubise
soubises
soubresaut
soubresauts
soubrette
soubrettes
soubrettish
soubriquet
soucar
soucars
souchet
souchie
souchong
souchongs
souchy
soud
soudagur
soudan
soudans
soudge
soudgy
soueak
soueef
souege
soufli
souffle
souffleed
souffleing
souffles
soupless
souplike
soupling
soupmeat
soup
soups
soupspoon
soupy
sour
sourball
sourballs
sourbellies
sourbelly
sourberries
sourberry
sourbread
sourbush
sourcake
source
source's
sourceful
sourcefulness
sourceless
sources
sourcrouth
sourd
sourdeline
sourdine
sourdines
sourdock
sourdook
sourdough
sourdoughs
sourdre
soured
souredness
souren
sourer
sourest
sourhearted
souring
sourish
sourishly
sourishness
sourjack
souring
sourly
sourness
sournesses
sourock
sourpuss
sourpussed
sourpusses
sours
soursop
soursops
sourtop
sourveld
sourweed
sourwood
sourwoods
soury
sous
sousaphone
sousaphonist
souse
soused
souser
souses
sousewife
soushy
sousing
souslik
soutache
soutaches
soutage
soutane
soutanes
soutar
souteneur
soutenu
souter
souterly
souterrain
souters
south
southˈard
southard
southbound
southcoastian
southdown
southeast
southeaster
southeasterly
southeastern
southeasterner
sovranly
sovrans
sovranties
sovranty
sow
sowable
sowan
sowans
sowar
sowarree
sowarry
sowars
sowback
sowbacked
sowbane
sowbellies
sowbelly
sowbread
sowbreads
sowcar
sowcars
sowder
sowdones
sowed
sowel
sowens
sower
sowers
sowf
sowfoot
sowing
sowins
sowish
sowl
sowlle
sowlke
sowlth
sown
sows
sowse
sowt
sowte
sox
soy
soya
soyas
soyate
soybean
spanule
spanworm
spanworms
spar
sparable
sparables
sparada
sparadrap
sparage
sparagrass
sparagus
sparassodont
sparaxis
sparch
spare
spareable
spared
spareful
spareless
sparely
spareness
sparer
sparerib
spareribs
sparers
spares
sparesome
sparest
sparganium
sparganosis
sparganum
sparge
sparged
spargefication
sparger
spargers
sparges
sparging
spargosis
sparhawk
sparid
sparids
sparily
sparing
sparingly
sparingness
spark
sparkback
sparringly
sparrow
sparrow's
sparrowbill
sparrowcide
sparrowdom
sparrowgrass
sparrowhawk
sparrowish
sparrowless
sparrowlike
sparrows
sparrowtail
sparrowtongue
sparrowwort
sparrowy
sparry
sparrygrass
spars
sparse
sparsedly
sparsely
sparseness
sparser
sparest
sparsile
sparsim
sparsioplast
sparsities
sparsity
spart
sparta
spartacist
spartan
spartans
spartein
sparteine
sparterie
sparth
spartiate
spartle
spartled
spartling
sparus
sparver
spary
spas
spasm
spasmatic
spasmatical
spasmatoman
spasmed
spasmic
spasmotic
spasmolysant
spasmolysis
spasmolytic
spasmolytically
spasmophile
spasmophilia
spasmophilic
spasmotin
spasmodin
spasmotoxin
spasmotoxine
spasmous
spasms
spasmus
spastic
spastically
spasticities
spasticity
spastics
spat
spatalamancy
spatangoid
spatangoidean
spatchcock
spate
spate's
spated
spates
spath
spatha
spathaceous
spathae
spathal
spathic
spathed
spatheful
spathes
spathic
spatulamancy
spatular
spatulas
spatulate
spatulation
spatule
spatuliform
spatulose
spatulous
spatzle
spaught
spauld
spaulder
spauldrochy
spave
spaver
spavie
spavied
spavies
spaviet
spavin
spavindy
spavine
spavined
spavins
spavit
spawl
spawler
spawling
spawn
spawneater
spawned
spawner
spawners
spawning
spawns
spawny
spay
spayad
spayard
spayed
spaying
spays
speak
speakable
speakableness
speakablies
speakably
speeder
speeders
speedful
speedfully
speedfulness
speedgun
speedier
speediest
speedily
speediness
speeding
speedingly
speedingness
speedings
speedless
speedlight
speedly
speedo
speedometer
speedometers
speeds
speedster
speedup
speedup's
speedups
speedwalk
speedway
speedways
speedwell
speedwells
speedy
speel
speeled
speeling
speelken
speelless
speels
speen
speer
speered
speering
speerings
speerity
speers
speight
speil
speiled
speiling
spellken
spellmonger
spellproof
spells
spellword
spellwork
spelman
spelt
spelter
spelterman
spelterman
speltermen
spelters
speltoid
spelts
speltz
speltzes
speluncar
spelunean
spelunk
spelunked
spelunker
spelunkers
spelunking
spelunks
spence
spencer
spencerian
spencerianism
spencerite
spencers
spences
spencie
spency
spend
spendable
spender
spenders
spendful
spendible
spending
spendings
spendless
spends
spendthrift
spendthriftiness
spendthriftiness
spendthrifts
spendthrifty
spenglerian
spense
spenserian
spent
speos
sperable
sperage
speramtozoan
sperate
spere
spergillum
sperity
sperket
sperling
sperm
sperma
spermaceti
spermacetilike
spermaduct
spermagonia
spermagonium
spermalist
spermania
spermaphyte
spermaphytic
spermaries
spermarium
spermary
spermashion
spermata
spermatangium
spermatheca
spermathecae
spermathecal
spermatal
spermatal
spermatic
spermatically
spermatid
spermatiferous
spermatin
spermatiogenous
spermaton
spermatiophore
spermatism
spermatist
spermatitis
spermatium
spermatize
spermatoblast
spermatoblastic
spermatocoele
spermatocidal
spermatocide
spermatocyst
spermatocystic
spermatocystitis
spermatocytal
spermatocyte
spermatogemma
spermatogene
spermatogenesis
spermatogenetic
spermatogenic
spermatogenous
spermatogeny
spermatogonia
spermatogonial
spermatogonium
spermatoid
spermatolysis
spermatolytic
spermatophobia
spermatophoral
spermatophore
spermatophorous
spermatophyte
spermatophytic
spermatoplasm
spermatoplasmic
spermatoplast
spermatorrhea
spermatorrhoea
spermatospore
spermatotheca
spermatova
spermatovum
spermatoxin
spermatozoa
spermatozoal
spermatozoan
spermatozoic
spermatozoid
spermatozoio
spermatozoon
spermatozza
spermaturia
spermic
spermicidal
spermicide
spermidin
spermidine
spermiducal
spermiduct
spermigerous
spermin
spermine
spermines
spermiogenesis
spermism
spermist
spermoblast
spermoblastic
spermocarp
spermocenter
spermomderm
spermduct
spermoogenesis
spermogenous
spermogone
spermogonia
spermogoniferous
spermogonium
spermogonnia
spermogonous
spermologer
spermological
spermologist
spermoanalysis
spermoanalysis
spermochemistry
spermology
spermolysis
spermolytic
spermophile
spermphile
spermophilene
spermophobia
spermophore
spermporphorum
spermophyte
spermophytic
spermosphere
spermotheca
spermotoxin
spermous
spermoviduct
sperms
spermule
spermy
speron
speronara
speronaras
speronares
speronaro
speronaroes
speronaros
sperone
sperple
sperrylite
sperse
spessartine
spessartite
spet
spetch
spetches
spete
spetrophoby
spettle
speuchan
spew
spewed
spewer
spewers
spewier
spewiest
spewiness
spewing
spews
spewy
spex
speyeria
sphacel
sphacelariaceous
sphaclelate
sphacelated
sphacelating
sphacelation
sphacelia
sphacelial
sphacelism
sphaceloderma
sphacelotoxin
sphacelous
sphacelus
sphaeraphides
spharenchyma
sphaeriaceous
sphaeridia
sphaeridial
sphaeridium
sphaeripium
sphaeristeria
sphaeristerium
sphaerite
sphaeroblast
sphaerocobaltite
sphaerococcoaceous
sphaerolite
sphaerolitic
sphaerosiderite
sphaerosome
sphaerospore
sphagia
sphagion
sphagnaceous
sphagnicolous
sphagnologist
sphagnology
sphagnous
sphagnum
sphagnums
sphalerite
sphalm
sphalma
sphecid
sphecid
sphecoid
spheges
sphegid
sphegedone
spheone
spheunes
sphephemoid
sphephemoidal
sphejenic
sphejenion
sphejisican
sphejisicine
sphejiscomorph
sphejiscomorphic
sphejisbasilar
sphejisbasilic
sphejiscephalian
sphenoecephalic
sphenoecephalous
sphenoecephaly
sphenodon
sphenodont
sphenoethmoid
sphenoethmoidal
sphenofrontal
sphenogram
sphenographer
sphenographic
sphenographist
sphenography
sphenoid
sphenoidal
sphenoiditis
sphenoids
sphenolith
sphenomalar
sphenomandibular
sphenomaxillary
sphenopalatine
sphenoparietal
sphenopetrosal
sphenophyllaceous
sphenopsid
sphenosquamosal
sphenotemporal
sphenotic
sphenotribe
sphenotripsy
sphenoturbinal
sphenovomerine
sphenozygomatic
spherable
spheradian
spheral
spherality
spheraster
spheration
sphere
sphere's
sphered
sphereless
spherelike
spheres
spheric
spherical
sphericality
spherically
sphericalness
sphericist
sphericities
sphericity
sphericle
sphericocylindrical
sphericotetrahedral
sphericotriangular
spheres
spherier
sphericest
spheriform
spherify
sphering
spheroconic
sphercrystal
spherograph
spheroid
spheroidal
spheroidally
sphericid
spheroidical
spheroidically
spheroidicity
spheroidism
spheroidity
spheroidize
spheroids
spherocone
spheromere
spherometer
spheroplast
spheroquartic
spheresome
spherula
spherular
spherulate
spherule
spheres
spherulite
spherulitic
spherulitize
sphery
spheretize
sphex
sphexide
sphincter
sphincteral
sphincteralgia
sphincterate
sphincterectomy
sphincterial
sphincteric
sphincterismus
sphincteroscope
sphincteroscopy
sphincterotomy
sphincters
sphindid
sphingal
sphinges
sphingid
sphingids
sphingiform
sphingine
sphingoid
sphingometer
sphingomyelin
sphingosin
sphingosine
sphinx
sphinxes
sphinxian
sphinxianness
sphinxine
sphinxlike
sphragide
sphragistic
sphragistics
sphygmia
sphygmic
sphygmochronograph
sphygmodic
sphygmogram
sphygmograph
sphygmographic
sphygmographies
sphygmography
sphygmoid
sphygmology
sphygmomanometer
sphygmomanometers
sphygmomanometric
sphygmomanometrically
sphygmomanometry
sphygrometer
sphygmometric
sphygmophone
sphygmophonic
sphygroscope
sphygmus
sphygmuses
sphyraena
sphyraenid
sphyraenoid
spial
spic
spica
spicae
spical
spicant
spicas
spicate
spicated
spicato
spicatos
spice
spiceable
spiceberries
spiceberry
spicebush
spicecake
spiced
spiceful
spicehouse
spiceland
spicelike
spicer
spiceries
spicers
spicery
spices
spicewood
spicey
spiciar
spiciest
spiciferous
spiciform
spicigerous
spicilege
spicily
spiciness
spicing
spick
spicket
spickle
spicknel
spicks
spicose
spicosity
spicous
spicousness
spics
spicula
spiculae
spicular
spiculate
spiculated
spiculation
spicule
spicules
spiculiferous
spiculiform
spiculigenous
spiculigerous
spiculofiber
spiculose
spiculous
spiculum
spiculumamoris
spicy
spider
spider's
spidered
spiderflower
spiderhunter
spiderier
spideriest
spiderish
spiderless
spiderlet
spiderlike
spiderling
spiderly
spiderman
spidermonkey
spiders
spiderweb
spiderwebbed
spillpipe
spillproof
spills
spillway
spillways
spilly
spiloma
spilomas
spilosite
spilt
spilth
spilths
spilus
spin
spina
spinacene
spinaceous
spinach
spinaches
spinachlike
spinae
spinage
spinages
spinal
spinales
spinalis
spinally
spinals
spinate
spincaster
spinder
spindlage
spindle
spindleage
spindled
spindletful
spindlehead
spindleges
spindletlike
spindler
spindlers
spindles
spindleshank
spindleshanks
spindletail
spindlewaise
spindlewood
spindleworm
spindlier
spindliest
spindliness
spindling
spindly
spindrift
spine
spinebill
spinebone
spined
spinefinned
spinel
spineless
spinelessly
spinelessness
spinelet
spinelike
spinelle
spinelles
spinels
spines
spinescence
spinescent
spinet
spinetail
spinets
spingel
spinibulbar
spinicarpous
spinicerebellar
spinidentate
spinier
spiniest
spiniferous
spinifex
spinifexes
spiniform
spinifugal
spinigerous
spinigrade
spininess
spinipetal
spinitis
spinituberculcate
spink
spinless
spinnability
spinnable
spinnaker
spinnakers
spinnel
spinner
spinner's
spinneret
spinnerette
spinneries
spinners
spinnerular
spinnerule
spinnery
spinney
spinneys
spinnies
spinning
spinningly
spinnings
spinny
spinobulbar
spinocarpous
spinocerebellar
spinodal
spinode
spinoff
spinoffs
spinogalvanization
spinoglenoid
spinoid
spinomuscular
spinoneural
spinoperipheral
spinor
spinors
spinose
spinosely
spinoseness
spinosity
spinosodentate
spinosodenticulate
spinosotubercular
spinosotuberculate
spinosympathetic
spinotectal
spinothalamic
spinotuberculous
spinous
spinousness
spinout
spinouts
spinozism
spinozet
spinproof
spins
spinter
spinster
dom
spinsterhood
spinsterial
spinsterish
spinsterishly
spinsterism
spinsterlike
spinsterly
spinsterous
spinsters
spinstership
spinstress
spinstry
spintext
spinthariscop
spinthariscopic
spintharism
spintry
spinturnix
spinula
spinulae
spinulate
spinulated
spinulation
spinule
spinules
spinulescent
spinuliferous
spinuliform
spinulose
spinulously
spinulosciliate
spinulosodentate
spinulosodenticulate
spinulosogranulate
spinulososerrate
spinulous
spiny
spionid
spira
spirable
spiracle
spiracles
spiraculiform
spiracular
spiraculiferous
spiracular
spiraculum
spirae
spiraea
spiraeas
spiral
spire
spire's
spirea
spireas
spiral
spire
spirea
spireas
spiral
spiraled
spiraliform
spiraling
spiralism
spirality
spiralization
spiralize
spiralled
spiralling
spirally
spiraloid
spirals
spiraltail
spiralwise
spiran
spirane
spirant
spirantal
spiranthic
spiranthy
spirantic
spirantism
spirantization
spirantize
spirantized
spirantizing
spirants
spiraster
spirate
spirated
spiration
spire
spire's
spirea
spireas
spired
spiregrass
spireless
spirelet
spirem
spireme
spiremes
spirems
spirepole
spires
spireward
spirewise
spiricle
spirifer
spiriferid
spiriferoid
spiriferous
spiriform
spirignath
spirignathous
spirilla
spirillaceous
spirillar
spirillolysis
spirillosis
spirillotropic
spirillotropism
spirillum
spiring
spirit
spiritual
spiritually
spiritdom
spirited
spiritedly
spiritedness
spiriter
spiritful
spiritfully
spiritfulness
spirithood
spiriting
spiritism
spiritist
spiritistic
spiritize
spiritlamp
spiritland
spiritleaf
spiritless
spiritlessly
spiritlessness
spiritlevel
spiritlike
spiritmonger
spiritoso
spiritous
spiritrompe
spirits
spiritsome
spiritual
spiritualisation
spiritualise
spiritualiser
spiritualism
spiritualist
spiritualistic
spiritualistically
spiritualists
spiritualities
spirituality
spiritualization
spiritualize
spiritualized
spiritualizer
spiritualizes
spiritualizing
spiritually
spiritualness
spirituals
spiritualship
spiritualties
spirituality
spirituel
spirituelle
spirituosity
spirituous
spirituously
spirituousness
spiritus
spiritweed
spirity
spirivalve
spiriket
spiriketing
spiriketting
spirulate
spiry
spise
spiss
spissated
spissatus
spissitude
spissus
spissy
spit
spital
spitals
spitball
spitballer
spitballs
spitbox
spitchcock
spitchcocked
spitchcocking
spite
spited
spiteful
spitefuller
spitefullest
spitefully
spitefulness
spiteless
spiteproof
spites
spitfire
spitfires
spitfrog
spitful
spithamai
spithame
spiting
spitish
spitkid
spitkit
spitous
spitpoison
spits
spitscocked
spitstick
spitsticker
spitted
spitten
spitter
splanchnography
splanchnolith
splanchnologic
splanchnological
splanchnologist
splanchnology
splanchnomegalia
splanchnomegaly
splanchnopathy
splanchnopleural
splanchnopleure
splanchnopleuric
splanchnoptosia
splanchnoptosis
splanchnosclerosis
splanchnoscopy
splanchnoskeletal
splanchnoskeleton
splanchnosomatic
splanchnotomical
splanchnotomy
splanchnotribe
splash
splashback
splashboard
splashdown
splashdowns
splashed
splasher
splasers
splashes
splashier
splashiest
splashily
splashiness
splashing
splashingly
splashproof
splashs
splashwing
splashy
splat
splatch
splatcher
splatchy
splather
splathering
splats
splendaciously
splendaciousness
splendatious
splendent
splendently
splender
splendescent
splendid
splendidier
splendidest
splendidious
splendidly
splendidness
splendiferous
splendiferously
splendiferousness
splendor
splendorous
splendorously
splendorousness
splendorproof
splendors
splendour
splendourproof
splendidous
splendrous
splendrously
splendrousness
splenectama
splenectasis
splenectomies
splenectomist
splenectomy
splenectomy
splenectomy
splenectomy
splenectomy
splenelcosis
splenemia
splenemphraxis
spleneolus
splenepatitis
splenetic
splenetical
splenetically
splenetive
splenia
splenial
splenic
splenical
splenicterus
splenification
spleniform
splenii
spleninii
spleniti
splenitis
splenitises
splenitive
splenium
splenius
splenization
splenoblast
splenocele
splenoceratosis
splenoleisis
splenocolic
splenocyte
splenodiagnosis
splenodynia
splenography
splenohemia
splenoid
splenolaparotomy
splenology
splenolymph
splenolymphatic
splenolysin
splenolysis
splenoma
splenomalacia
splenomedullary
splenomegalia
splenomegalic
splenomegaly
splenomyelogenous
splenoncus
splenonephric
splenopancreatic
splenoparectama
splenoparectasis
splenopathy
splenopexia
splenopexis
splenopexy
splenophrenic
spleuchan
splenopneumonia
splenoptosia
splenoptosis
splenorrhagia
splenorrhaphy
splenotomy
splenotoxin
splenotypoid
splent
splents
splenum
spleunculus
spleuchan
spleughan
splice
spiceable
spliced
splicer
splicers
splices
splicing
splicings
splinder
spline
spline's
splined
splines
splineway
splining
splint
splintage
splintbone
splinted
splinter
splinterd
splintered
splintering
splinterize
splinterless
splinternew
splinterproof
splinters
splintery
splinting
splints
splintwood
splinty
split
split's
splitbeak
splitite
splitfinger
splitfruit
splitmouth
splitnew
splitnut
splits
splittaw
splittable
splittail
splitted
splitten
splitter
splitter's
splitterman
splitters
splitting
splittings
splitworm
splodge
splodgy
sploit
splore
splores
splosh
sploshed
sploses
sploshing
sploshy
sploch
sploched
sploches
splochier
splochiest
splochily
splochiness
sploctching
splochy
splother
splunge
splunt
splurge
splurged
splurges
splurgier
spondyl
spondylalgia
spondylarthritis
spondylarthrose
spondyle
spondylearthrosis
spondylic
spondylid
spondyioid
spondylitic
spondylitis
spondylum
spondylizema
spondylocace
spondylodiagnosis
spondylodidymia
spondylodymus
spondyloid
spondyloisthesis
spondylolisthetic
spondylopathy
spondyloptosis
spondyloschisis
spondylisis
spondylosyndesis
spondylotherapeutics
spondylotherapist
spondylotomy
spondylous
spondylus
spong
sponge
spongecake
sponged
spongeflies
spongefly
spongeful
spongeless
spongelet
spongeliue
spongeois
spongeproof
sponger
spongiers
sponges
spongeware
spongewood
spooler
spoolers
spoolful
spooling
spoollike
spools
spoolwood
spoon
spoonback
spoonbait
spoonbill
spoonbills
spoonbread
spoondrift
spooned
spooner
spoonerism
spoonerisms
spooney
spooneyism
spoonely
spooneyness
spooneys
spoonflower
spoonful
spoonfuls
spoonholder
spoonhutch
spoonier
spoonies
spooniest
spoonily
spooniness
spooning
spoonism
spoonless
spoonlike
spoonmaker
spoonmaking
spoons
spoonsful
spoonways
spoonwise
spoonwood
spoonwort
spoony
spoonyism
sporidesm
sporidia
sporidial
sporidiferous
sporidiiferous
sporidiole
sporidiolum
sporidium
sporiferous
sporification
sporing
sporiparity
sporiparous
sporoblast
sporocarp
sporocarpia
sporocarpium
sporocyst
sporocystic
sporocystid
sporocyte
sporoderm
sporodochia
sporodochium
sporoduct
sporogen
sporogenesis
sporogenic
sporogenous
sporogeny
sporogone
sporogonia
sporogonial
sporogonic
sporogonium
sporogonous
sporogony
sporoid
sporologist
sporomycosis
sporonia
sporont
sporophore
sporophoric
sporophorous
sporophydium
sporophyl
sporophyll
sporophyllary
sporophyllum
sporophyte
sporophytic
sporoplasm
sporopollenin
sporosac
sporostegium
sporostrote
sporotrichosis
sporotrichotic
sporous
sporozoa
sporozoal
sporozoan
sporozoic
sporozoid
sporozoite
sporozoid
csporozoon
sporran
sporrans
sport
sportability
sportable
sportance
sported
sporter
sporters
sportfisherman
sportfishing
sportful
sportfully
sportfulness
sportier
sportiest
sportily
sportiness
sporting
sportingly
sportive
sportively
sportiveness
sportless
sportling
sportly
sports
sportscast
sprouts
sprowsy
spruce
spruced
sprucely
spruceness
sprucer
sprucery
spruces
sprucest
sprucier
spruciest
sprucification
sprucify
sprucifying
sprucy
sprue
spruer
sprues
sprug
sprugs
spruike
spruiker
spruit
sprung
sprunk
sprun
sprunt
spruntly
sprusado
sprush
spry
spryer
spryest
spryly
spryness
sprynesses
sps
spt
spud
spudded
spudder
spudders
spudding
spuddle
spuddy
spuds
spue
spunks
spunky
spunnies
spunny
spunware
spunyarn
spur
spur's
spurdie
spurdog
spurfower
spurgall
spurgalled
spurgalling
spurgalls
spurge
spurges
spurgewort
spuria
spuriae
spuries
spuriosity
spurious
spuriously
spuriousness
spurl
spurless
spurlet
spurlike
spurling
spurluous
spurmaker
spurmoney
spurn
spurned
spurner
spurners
spurning
spurnpoint
spurns
spurnwater
spurproof
spurred
spurreies
spurrer
spurrers
spurrey
spurreys
spurrial
spurrier
spurriers
spurries
spurring
spurrings
spurrite
spurry
spurs
spurt
spurted
spurted
spurting
spurtive
spurtively
spurtle
spurtleblade
spurtles
spurts
spurway
spurwing
spurwinged
spurwort
sput
sputa
sputative
spute
sputnik
sputniks
sputta
sputter
sputtered
sputterer
sputterers
sputtering
sputteringly
sputters
sputtery
sputum
sputumary
sputumose
sputumous
spy
spyboat
spydom
spyer
spyfault
spyglass
spyglasses
spyhole
spying
spyism
spyproof
spyship
spytower
sq
sqd
sqq
sqrt
squab
squabash
squabasher
squabbed
squabber
squabbier
squabbiest
squabbing
squabbish
squabble
squabbled
squabbler
squabblers
squabbles
squabbling
squabblingly
squabbly
squabby
squabs
squacco
squaccos
squad
squad's
squadded
squadder
squadding
squaddy
squader
squadrate
squadrism
squadrol
squadron
squadron's
squadrone
squadroned
squadroning
squadrons
squamous
squamiferous
squamiform
squamify
squamigerous
squamipennate
squamipinnate
squamish
squamocellular
squamoeipithelial
squamoid
squamomastoid
squamoparietal
squamopetrosal
squamosa
squamosal
squamose
squamously
squamoseness
squamosity
squamosodentated
squamosoimbricated
squamosomaxillary
squamosoparietal
squamosoradial
squamostemporal
squamosozygomatic
squamosphenoideal
squamosphenoideal
squamotemporal
squamous
squamously
squamousness
squamozygomatic
squamula
squamulae
squamulate
squamulation
squamule
squamuliform
squamulose
squamy
squander
squandered
squanderer
squanderers
squandering
squanderingly
squandermania
squandermaniac
squanders
squampton
squarable
square
squareage
squarecap
squared
squaredly
squareface
squareflipper
squarehead
squarelike
squarely
squareman
squaremen
squaremouth
squareness
squarer
squarers
squares
squarest
squaretail
squaretoed
squarewise
squarier
squaring
squarish
squarishly
squarishness
squark
squarrose
squarrosely
squarrous
squarrulose
squarson
squarsonry
squary
squash
squashberry
squashed
squasher
squashers
squashes
squashier
squashiest
squashily
squashiness
squashing
squashs
squashy
squassation
squat
squatarole
squaterole
squatina
squat nid
squat inoid
squatly
squatment
squatmore
squatness
squats
squattage
squatted
squatter
squatterarchy
squatterdom
squattered
squatter ing
squatterism
squatterproof
squatterers
squattest
squattier
squattiest
squattily
squattiness
squatting
squattingly
squattish
squattle
squattocracy
squattocratic
squatty
squatwise
squaw
squaw berries
squaw berry
squawbush
squawdom
squawfish
squaw fishes
squaw flower
stableboy
stabled
stableful
stablekeeper
stablelike
stableman
stablens
stables
stablest
stablestand
stableward
stably
stabling
stablings
stablest
stableward
stablewards
stably
stabling
stables
stables
stableward
stablewards
stably
stabling
stables
stablest
stablestand
stableward
stablewards
stably
stabling
stables
stables
stackencloud
stacker
stackering
stackers
stacket
stackfreed
stackful
stackgarth
stackhouisiaceous
stacking
stackless
stackman
stackmen
stacks
stackstand
stackup
stackyard
stacte
stactes
stactometer
stad
stadda
staddle
staddles
staddleston
staddling
stade
stader
stades
stadholder
stadholderate
stadholdership
stadhouse
stadia
stadal
stadias
stadic
stadie
stadimeter
stadiometer
stadion
stadium
stadiums
stadle
stadhaus
stadholder
stadholderate
stadholdership
stagnate
stagnated
stagnates
stagnating
stagnation
stagnatory
stagnature
stagne
stagnicolous
stagnize
stagnum
stags
stagskin
stagworm
stagy
stagyrite
stahlihelm
stahlhian
staia
staid
staider
staidest
staidly
staidness
staig
staigs
stail
stain
stainabilities
stainability
stainable
stainableness
stainably
stained
stainer
stainers
stainful
stainierite
staining
stainless
stainlessly
stainlessness
stainproof
stains
staio
stair
stair's
stairbeak
stalactitiform
stalactitious
stalag
stalagma
stalagmite
stalagmites
stalagmitic
stalagmitical
stalagmitically
stalagmometer
stalagmetric
stalagmetry
stalags
stalder
stale
staled
staley
stalemate
stalemated
stalemates
stalemating
staleness
staler
stales
stalest
stalin
staling
stalingrad
stalinism
stalinist
stalinists
stalk
stalkable
stalked
stalker
stalkers
stalkier
stalkiest
stalkily
stalkiness
stalking
stalkingly
stalkless
stalklet
stalklike
stalko
stalkoes
stalks
stamineal
stamineous
staminiferous
staminigerous
staminode
staminodia
staminodium
staminody
stammel
stammelcolor
stammels
stammer
stammered
stammerer
stammerers
stammering
stammeringly
stammeringness
stammers
stammerwort
stammrel
stamnoi
stamnos
stamp
stampable
stampage
stamped
stampedable
stampede
stampeded
stampeder
stampedes
stamping
ing
stampedingly
stampedo
stampee
stamper
stamplers
stampery
stamphhead
stamping
stample
stampless
stamplman
stamps
stampsman
stampsme
stampweed
stance
stances
stanch
stanchable
stanched
stanchel
stancheled
stancher
stanchers
stanches
stanchest
stanching
stanchion
stanchioned
stanchioning
stanchions
stanchless
stanchlessly
stanchly
stanchness
stand
standage
standard
standardbearer
standardbearers
standardbred
standardise
standardised
standardizable
standardization
standardize
standardized
standardizer
standardizes
standardizing
standardly
standardness
standards
standardwise
standaway
standback
standby
standbybys
standbys
standee
standees
standel
stanitsa
stanitza
stanjen
stank
stankie
stanks
stanley
stannane
stannaries
stannary
stannate
stannator
stannel
stanner
stanners
stannery
stannic
stannid
stannide
stanniferous
stannite
stannites
stanno
stannotype
stannous
stannoxy1
stannum
stannums
stannyl
stantibus
stanza
stanza’s
stanzaed
stanzaic
stanzaical
stanzaica1y
stanzas
stanze
stanzo
stap
stapedectomized
stapedectomy
stapedes
stapedez
stapedial
stapediform
stapediovestibular
stapedius
stapelia
stapelias
stapes
staph
staphisagria
staphs
staphyle
staphyleaceous
staphylectomy
staphyledema
staphylematoma
staphylic
staphyline
staphylinic
staphylinid
staphylinideous
staphylion
staphylitis
staphyloangina
staphylococcal
staphylococcemia
staphylococcemical
staphylococci
staphylococci
staphylococcus
staphylodermatitis
staphyloedema
staphyloemia
staphylolysin
staphyloma
staphylomatic
staphylomatous
staphylomyces
staphylococcus
staphylodermatitis
staphyloplasty
staphyloplasty
staphyloptosis
staphyloptosis
staphyloraphic
staphylorrhaphic
staphylorrhapies
staphylorrhaphy
staphylolischisis
staphylolischisis
staphylolysis
staphylotomy
staphylotomies
stardusts
stare
stared
staree
starer
starers
stares
starets
starfish
starfishes
starflower
starfruit
starful
stargaze
stargazed
stargazer
stargazers
stargazes
stargazing
starik
staring
staringly
stark
starken
starker
starkest
starkle
starkly
starkness
starky
starless
starlessly
starlessness
starlet
starlets
starlight
starlighted
starlights
starlike
starling
starlings
starlit
starlite
starlitten
starmonger
starn
starnel
starnie
stateswomen
stateway
statewide
statfarad
stathenries
stathenry
stathenrys
stathmoi
stathmos
static
stational
statically
statices
staticproof
statics
stating
station
stational
stationaries
stationarily
stationariness
stationarity
stationary
stationed
stationer
stationeries
stationers
stationery
stationing
stationman
stationmaster
stations
statiscope
statism
statisms
statist
statistic
statistical
statistically
statistician
statistician's
statisticians
statisticize
statistics
statistology
stats
stative
steepdown
steeped
steepen
steepened
steepening
steepens
steeper
steepers
steepest
steepgrass
steepiness
steeping
steepish
steeple
steeple's
steeplebush
steeplechase
steeplechaser
steeplechases
steeplechasing
steepled
steeplejack
steeplejacks
steepless
steeplike
steeples
steepletop
steeply
steepness
steeps
steepweed
steepwort
steepy
steer
steerability
steerable
steerage
steerages
steerageway
steered
steerer
steerers
steering
steeringly
steerless
steerling
steerman
steermanship
steers
steersman
steersmate
steersmen
steerswoman
steery
steeve
steeved
steevely
steever
steeves
steeving
steevings
steg
steganogram
steganographical
steganographist
steganography
steganophthalmate
steganophthalmatous
steganopod
steganopodan
steganopodous
stegh
stegnosis
stegnosisstegnotic
stegnotic
stegocarpous
stegocephalian
stegocephalous
stegodon
stegodons
stegodont
stegodontine
stegomyia
stegosaur
stegosauri
stegosaurian
stegosauroid
stegosaurs
stegosaurus
steid
steigh
stein
steinbock
steinbok
steinboks
steinbuck
steinful
steinkirk
steins
stekan
stela
stelae
stelai
stelar
stele
stelene
steles
stelic
stell
stella
stellar
stellarator
stellary
stellas
stellate
stellated
stellately
stellation
stellature
stelled
stellenbosch
stellerid
stelleridean
stellerine
stelliferous
stellification
stellified
stellifies
stelliform
stellify
stellifying
stelling
stellio
stellion
stellionate
stelliscript
stellite
stellular
stellularly
stellulate
stelography
stem
stem's
stema
stembok
stemform
stemhead
stemless
stemlet
stemlike
stemma
stemmas
stemmata
stemmatiform
stemmatous
stemmed
stemmer
stemmeries
stemmers
stemmery
stemmier
stemmiest
stemming
stemmy
stemmonaceous
stempel
stemple
stempost
stems
stemson
stemsons
stemwards
stemware
stemwares
sten
stener
stench
stench's
stenchel
stences
stenchful
stenchier
stenchiest
stenching
stenchion
stechy
stencil
stencil's
stenciled
stenciler
stenciling
stencilize
stencilled
stenciller
stencilling
stencilmaker
stencilmaking
stencils
stend
steng
stengah
stengahs
stenia
stenion
steno
stenobathic
stenobenthic
stenobragramatic
stenobregma
stenocardia
stenocardiac
stenocephalia
stenocephalic
stenocephalous
stenocephaly
stenochoria
stenochoric
stenochrome
stenochromy
stenocorisis
stenocranial
stenocrotaphia
stenog
stenogastric
stenogastry
stenograph
stenographed
stenographer
stenographer's
stenographers
stenographic
stenographical
stenographically
stenographing
stenographerist
stenography
stenohaline
stenometer
stenopaec
stenopaec
stenopeic
stenopetalous
stenophagous
stenophile
stenophyllous
stenorhyncous
stenos
stenosed
stenosepalous
stenoses
stenosis
stenosphere
stenostomatous
stenostomia
stenotelegraphy
stenotherm
stenothermal
stenothermophilic
stenothermy
stenotherm
stenotec
stenotypic
stenotypist
stenotypy
stent
stenter
stenterer
stenting
stentmaster
stenton
stentor
stentoraphonic
stentorian
stentorianly
stentorine
stentorious
stentoriously
stentoriousness
stentoronic
stentorophonic
stentorphone
stentors
stentrel
step
step's
stercorean  
stercoremia  
stercoreous  
stercoriculous  
stercorin  
stercorite  
stercorol  
stercorous  
stercovorous  
sterculia  
sterculiaceous  
sterculiad  
stere  
stereagnosis  
stereid  
steralminthic  
steralminthous  
steralminthus  
stereo  
stereo's  
stereobate  
stereobatic  
stereoblastula  
stereocamera  
stereocampimeter  
stereochemic  
stereochemical  
stereochemically  
stereochemistry  
stereochromatic  
stereochromatically  
stereochrome  
stereochromic  
stereochromically  
stereochromy  
stereocomparator  
stereoed  
stereoelectric  
stereofluoroscopic  
stereofluoroscopy  
stereogastrula  
stereognosis  
stereognostic  
stereogoniometer  
stereogram  
stereograph  
stereographer
stereographic
stereographical
stereographically
stereography
stereing
stereoisomer
stereoisomeric
stereoisomerical
stereoisomeride
stereoisomerism
stereological
stereologically
stereology
stereom
stereomatrix
stereome
stereomer
stereomeric
stereomerical
stereomerism
stereometer
stereometric
stereometrical
stereometrically
stereometry
stereomicrometer
stereomicroscope
stereomicroscopic
stereomicroscopically
stereomicroscopy
stereomonomoscope
stereoneural
stereopair
stereophasoscope
stereophone
stereophonic
stereophonically
stereophony
stereophotogrammetry
stereophotograph
stereophotographic
stereophotography
stereophotomicrograph
stereophotomicrography
stereophysics
stereopicture
stereoplanigraph
stereoplanula
stereoplasm
stereoplasma
stereoplasmic
stereopsis
stereopter
stereoptican
stereoptician
stereopticon
stereoradiograph
stereoradiography
stereoregular
stereoregularity
stereornithic
stereoroentgenogram
stereoroentgenography
stereos
stereoscope
stereoscopes
stereoscopic
stereoscopical
stereoscopically
stereoscopies
stereoscopism
stereoscopist
stereoscopy
stereospecific
stereospecifically
stereospecificity
stereospondylosis
stereostatic
stereostatics
stereotactic
stereotactically
stereotape
stereotapes
stereotaxic
stereotaxically
stereotaxis
stereotaxy
stereotelemeter
stereotelescope
stereotomic
stereotomical
stereotomist
stereotomy
stereotropic
stereotropism
stereotypable
stereotype
stereotyped
stereotyper
stereotypers
stereotypery
stereotypes
stereotypic
stereotypical
stereotypically
stereotypies
stereotyping
stereotypist
stereotypographer
stereotypography
stereotypy
stereo
stereovision
stereos
steres
sterhydraulic
steri
steric
sterical
sterically
sterics
sterid
steride
sterigma
sterigmas
sterigmata
sterigmatic
sterilant
sterile
sterilely
sterileness
sterilisability
sterilisable
sterilise
sterilised
steriliser
sterilising
sterilities
sterility
sterilizability
sterilizable
sterilization
sterilization's
sterilizations
sterilize
sterilized
sterilizer
sterilizers
sterilizes
sterilizing
sterin
sterk
sterlet
sterlets
sterling
sterlingly
sterlingness
sterlings
stern
sterna
sternad
sternage
sternal
sternalis
sternbergia
sternbergite
sterncastle
sterneber
sternebra
sternebrae
sternebral
sterned
sterner
sternest
sternforemost
sternful
sternfully
sternite
sternites
sternitic
sternknee
sternly
sternman
sternmen
sternmost
sternna
sternness
sternoclavicular
sternocleidomastoid
sternocleidomastoideus
sternoclidomastoid
sternocoracoid
sternocostal
sternofacial
 sterterious
 sterteriously
 sterteriousness
 sterterous
 sterterously
 sterterousness
 sterterous
 sterter
 ster
 stetch
 stethal
 stetharteritis
 stethogoniometer
 stethograph
 stethographic
 stethokyrtoptograph
 stethometer
 stethometric
 stethometry
 stethoparalysis
 stethophone
 stethophonometer
 stethoscope
 stethoscoped
 stethoscopes
 stethoscopic
 stethoscopyal
 stethoscopically
 stethoscopies
 stethoscopicist
 stethoscopey
 stethospasm
 stethy
 stets
 stetson
 stetsons
 stetted
 stetting
 steuben
 steve
 stevedorage
 stevedore
 stevedored
 stevedores
 stevedoring
 stevel
 steven
 stevia
stibine
stibines
stibious
stibium
stibiums
stibnite
stibnites
stibonium
stibophen
sticcado
stich
stichado
sticharia
sticharion
stichcharia
stichel
sticheron
stichic
stichically
stichid
stichidia
stichidium
stichocrome
stichoi
stichomancy
stichometric
stichometrical
stichometrically
stichometry
stichomythia
stichomythic
stichomythy
stichos
stichs
stichwort
stick
stickability
stickable
stickadore
stickadove
stickage
stickball
stickboat
sticked
stickel
sticken
sticker
stickers
stied
sties
stife
stiff
stiffed
stiffen
stiffened
stiffer
stiffeners
stiffening
stiffens
stiff
stiffest
stiffhearted
stiffing
stiffish
stiffleg
stifler
stifflike
stiffly
stiffneck
stiffneckedly
stiffneckedness
stiffness
stiffrump
stiffs
stifftail
stile
stifled
stifledly
stifler
stiflers
stifles
stifling
stiflingly
stigma
stigmai
stigmal
stigmari
stigmaria
stigmarioid
stigmas
stigmasterol
stigmat
stigmata
stigmatal
stigmatic
stigmatical
stigmatically
stigmaticalness
stigmatiferous
stigmatiform
stigmatise
stigmatiser
stigmatism
stigmatist
stigmatization
stigmatize
stigmatized
stigmatizer
stigmatizes
stigmatizing
stigmatoid
stigmatose
stigmatypic
stigme
stigmeology
stignes
stigmonose
stigonomancy
stilb
stilbene
stilbenes
stilbestrol
stilbene
stilbites
stilboestrol
stile
stile's
stileman
stilemen
stiles
stilet
stilette
stiletted
stiletto
stilettoed
stilettoes
stilettoing
stilettoilike
stilettoes
still
stillage
stillatitious
stillatory
stillbirth
stillbirths
stillborn
stilled
stiller
stillery
stillest
stillhouse
stillicide
stillicidium
stillier
stilliest
stilliform
stilling
stillion
stillish
stillman
stillmen
stillness
stillroom
stills
stillstand
stillwater
stilly
stilpnomelane
stilpnosiderite
stilt
stiltbird
stilted
stiltedly
stiltedness
stilter
stiltier
stiltiest
stiltified
stiltify
stiltifying
stiltiness
stilting
stiltish
stiltlike
stilton
stilts
stilty
stilyaga
stilyagi
stim
stime
stingingness
stingless
stingo
stingos
stingproof
stingray
stingrays
stings
stingtail
stingy
stink
stinkard
stinkardly
stinkards
stinkaroo
stinkball
stinkberries
stinkberry
stinkbird
stinkbug
stinkbugs
stinkbush
stinkdamp
stinker
stinkeroo
stinkeroos
stinkers
stinkhorn
stinkibus
stinkier
stinkiest
stinking
stinkingly
stinkiness
stinko
stinkpot
stinkpots
stinks
stinkstone
stinkweed
stinkwood
stinkwort
stinky
stinkyfoot
stint
stinted
stintedly
stintedness

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 8691
stinter
stinters
stinting
stintingly
stintless
stints
stinty
stion
stionic
stioning
stipate
stipe
stiped
stipl
stipellate
stipels
stipend
stipend's
stipendary
stipendia
stipendial
stipendiarian
stipendiaries
stipendiary
stipendiate
stipendium
stipendiums
stipendless
stipends
stipes
stipiform
stipitate
stipites
stipitiform
stipiture
stipo
stipos
stippen
stipple
stippled
stippledness
stippler
stipplers
stipples
stippling
stipply
stipula
stiputable
stipulaceous
stipulae
stipulant
stipular
stipulary
stipulate
stipulated
stipulates
stipulating
stipulatio
stipulation
stipulations
stipulator
stipulators
stipulatory
stipule
stipuled
stipules
stipuliferous
stipuliform
stir
stirabout
stire
stiria
stirk
stirks
stirless
stirlessly
stirlessness
stirling
stirp
stirpes
stirpicultural
stirpiculture
stirpiculturist
stirps
stirra
stirrable
stirrage
stirred
stirrer
stirrer's
stirrers
stirring
stirringly
stirrings
stirrup
stirrupless
stirruplike
stirups
stirrupwise
stirs
stitch
stitchbird
stitchdown
stitched
stitcher
stitchers
stichery
stitches
stitching
stitchlike
stitchwhile
stitchwork
stichwort
stite
stith
stithe
stithied
stithies
stithly
stithy
stithying
stituted
stive
stiver
stivers
stivy
stk
stlg
stm
stoa
stoach
stoae
stoai
stoaas
stoat
stoater
stoating
stoats
stob
stobball
stobbed
stobbing
stobs
stocah
stodgery
stodges
stodgier
stodgiest
stodgily
stodginess
stodging
stodgy
stodtone
stoechas
stoechiology
stoechiometrically
stoechiometry
stoop
stof
stoff
stog
stoga
stogeies
stogey
stogeys
stogie
stogies
stogy
stoic
stoical
stoically
stoicalness
stoicharion
stoicheiology
stoicheiometrically
stoicheiometry
stoichiological
stoichiology
stoichiometric
stoichimetric
stoichimetical
stoichimetrically
stoichiometry
stoicism
stoicisms
stoics
stoit
stoiter
stoke
stoked
stokehold
stokehole
stoker
stokerless
stokers
stokes
stokesia
stokesias
stokesite
stoking
stokroos
stokvis
stola
stolae
stolas
stold
stole
stole's
stoled
stolelike
stolen
stolenly
stolenness
stolenwise
stoles
stolewise
stolid
stolider
stolidest
stolidity
stolidly
stolidness
stolist
stolkjaerre
stollen
stollens
stolon
stolonate
stolonic
stoloniferous
stoloniferously
stolonization
stolonlike
stolons
stolzite
stoma
stomacace
stomach
stomachable
stomachache
stomachaches
stomachachy
stomachal
stomached
stomacher
stomachers
stomaches
stomachful
stomachfully
stomachfulness
stomachic
stomachical
stomachically
stomachicness
stomaching
stomachless
stomachlessness
stomachous
stomachs
stomachy
stomack
stomal
stomapod
stomapodiform
stomapodous
stomas
stomata
stomatal
stomatalgia
stomate
stomates
stomatic
stomatiferous
stomatitic
stomatitis
stomatitus
stomatocace
stomatodaeal
stomatodaenum
stomatode
stomatodeum
stomatodynia
stomatogastric
stomatograph
stomatography
stomatolalia
stomatologic
stomatological
stomatologist
stomatology
stomatomalacia
stomatomenia
stomatomy
stomatomecrosis
stomatopy
stomatoporous
stomatoplastic
stomatoplasty
stomatopod
stomatopodous
stomatorrhagia
stomatoscope
stomatoscopy
stomatose
stomatosepsis
stomatotomies
stomatotomy
stomatotyphus
stomatous
stomenorrhagia
stomion
stonium
stomodaea
stomodaeal
stomodaeudaea
stomodaeum
stomodaeums
stomode
stomodea
stomodeal
stomodeum
stomodeumdea
stomodeums
stomoxys
stomp
stomped
stomper
stompers
stomping
stompingly
stomps
stonable
stonage
stond
stone
stonable
stonebass
stonebird
stonebiter
stoneblindness
stoneboat
stonebow
stonebrash
stonebreak
stonebrood
stonecast
stonecat
stonechat
stonecraft
stonecrop
stonecutter
stonecutting
stoned
stonedamp
stonefish
stonefishes
stoneflies
stonefly
stonegale
stonegall
stoneground
stonehand
stonehatch
stonehead
stonehearted
stonehenge
stoneite
stonelayer
stonelaying
stoneless
stonelessness
stonelike
stoneman
stonemason
stonemasonry
stonemasons
stonemen
stonemint
sten
stonepecker
stoneput
stoner
stoneroller
stoneroot
stork
stork's
storken
storkish
storklike
storkling
storks
storksbill
storkwise
storm
stormable
stormbelt
stormbird
stormbound
stormcock
stormed
stormer
stormful
stormfully
stormfulness
stormier
stormiest
stormily
storminess
storming
stormingly
stormish
stormless
stormlessly
stormlessness
stormlike
stormproof
storms
stormtide
stormtight
stormward
stormwind
stormwise
stormy
stormelli
stormello
storthing
story
storyboard
storybook
storybooks
storying
storyless
stoutest
stouth
stouthearted
stoutheartedly
stoutheartedness
stouthrief
stoutish
stoutly
stoutness
stouts
stoutwood
stouty
stovaine
stove
stove's
stovebrush
stoved
stoveful
stovehouse
stoveless
stovemaker
stovemaking
stoveman
stovemen
stoven
stovepipe
stovepipes
stover
stovers
stoves
stovewood
stovies
stoving
stow
stowable
stowage
stowages
stowaway
stowaways
stowball
stowboard
stowbord
stowbordman
stowbordmen
stowce
stowdown
stowed
stower
straightish
straightjacket
straightlaced
straightly
straightness
straghts
straighttail
straightup
straightwards
straightway
straightways
straightwise
straik
straik
straik
strail
strain
strainable
strainableness
strainably
strained
strainedly
strainedness
strainer
strainerman
strainermen
strainers
straining
strainingly
strainless
strainlessly
strainometer
strainproof
strains
strainslip
straint
strait
straiten
straitened
straitening
straitens
straiter
straitest
straitjacket
straitlaced
straitlacedly
straitlacedness
straitlacing
straitly
straitness
straits
straitisman
straitismen
straitwork
strake
straked
strakes
straky
stralet
stram
stramash
stramashes
stramazon
stramineous
stramineously
strammel
strammer
stramories
stramonies
stramonium
stramony
stramp
strand
strandage
stranded
strandedness
strander
stranders
stranding
straddleless
strandleline
strandlooper
strands
strandward
strang
strange
strangeling
strangely
strangeness
stranger
strangerdom
strangered
strangerhood
strangering
strangerlike
strangers
strangership
strangerwise
strapwork
strapwort
strasburg
strass
strasses
strata
stratagem
stratagem's
stratagematic
stratagematical
stratagematically
stratagematist
stratagemical
stratagemically
stratagems
stratal
stratameter
stratas
strate
stratege
strategetic
strategetical
strategetical
strategetics
strategi
strategian
strategic
strategical
strategically
strategies
strategist
strategists
strategize
strategoi
strategos
strategus
strategy
strategy's
strath
straths
strathspey
strathspeys
strati
stratic
straticulate
straticulation
stratification
stratifications
stratified
stratifies
stratiform
stratiformis
stratify
stratifying
stratig
stratigrapher
stratigraphic
stratigraphical
stratigraphically
stratigraphist
stratigraphy
stratiote
stratlin
stratochamber
stratocracies
stratocracy
stratocrat
stratocratic
stratocumuli
stratocumulus
stratofreighter
stratographic
stratographical
stratigraphically
stratography
stratojet
stratonic
stratopause
stratopedarch
stratoplane
stratose
stratosphere
stratospheric
stratospherical
stratotrainer
stratous
stratovision
stratum
stratums
stratus
straucht
strauchten
straught
strauss
stravagant
stravage
strayers
straying
strayling
strays
stre
streahte
streak
streaked
streakedly
streakedness
streaker
streakers
streakier
streakiest
streakily
streakiness
streaking
streaklike
streaks
streakwise
streaky
stream
streambed
streamed
streamer
streamers
streamful
streamhead
streamier
streamiest
streaminess
streaming
streamingly
streamless
streamlet
streamlets
streamlike
streamline
streamlined
streamliner
streamliners
streamlines
streamling
streamlining
streams
streamside
streamward
streamway
streamwort
streamy
streck
streckly
stree
streek
streeked
streeker
streekers
streeking
streeks
streeleer
streen
streep
street
streetage
streetcar
streetcar's
streetcars
streeters
streetfighter
streetful
streetless
streetlet
streetlight
streetlike
streets
streetscape
streetside
streetwalker
streetwalkers
streetwalking
streetward
streetway
streetwise
streit
streite
streke
strelitz
strelitzi
strelitzia
streltzi
stremma
stremmas
stremmatograph
streng
strengite
streptobacillus
streptococcal
streptococci
streptococcic
streptococcocci
streptococcus
streptodornase
streptokinase
streptolysin
streptomyces
streptomyccete
streptomycetes
streptomycin
streptoneural
streptoneurous
streptosepticemia
streptothricial
streptothricin
streptothricosis
streptotrichal
streptotrichosis
stress
stressed
stresser
stresses
stressful
stressfully
stressfulness
stressing
stressless
stresslessness
stressor
stressors
stret
stretch
stretchability
stretchable
stretchberry
stretched
stretcher
stretcherman
stretchers
stretches
stretchier
stretchiest
stretchiness
stretching
stretchneck
strickles
strickless
strickling
sticks
strict
stricter
strictest
striction
strictish
strictly
strictness
strictum
structure
structured
structures
strid
stridden
striddle
stride
strideleg
stridelegs
stridence
stridency
strident
stridently
strider
striders
strides
strideways
stridhan
stridhana
stridhanum
striding
stridingly
stridling
stridlins
stridor
stridors
stridulant
stridulate
stridulated
stridulating
stridulation
stridulator
stridulatory
stridulent
stridulous
stridulously
stridulousness
strife
strifeful
strifelss
strifemaker
strifemaking
strifemonger
strifeproof
strifes
striffen
strif
strig
striga
strigae
strigal
strigate
striges
striggle
stright
strigiform
strigil
strigilate
strigilation
strigilator
strigiles
strigilis
strigillosc
strigilous
strigis
strigine
strigose
strigous
strigovite
strigulose
strigulose
strigulent
strike
strikeboard
strikeboat
strikebound
strikebreak
strikebreaker
strikebreakers
strikebreaking
striked
strikeless
striken
strikeout
strikeouts
strikeover
striker
strikers
strikes
striking
strikingly
strikingness
strind
string
string's
stringboard
stringcourse
stringed
stringencies
stringency
stringendo
stringendos
stringene
stringent
stringently
stringentness
stringer
stringers
stringful
stringhalt
stringhalted
stringhaltedness
stringhaltly
stringholder
stringier
stringiest
stringily
stringiness
stringing
stringless
stringlike
stringmaker
stringmaking
stringman
stringmen
stringpiece
strings
stringsman
stringsmen
stringways
stringwood
stringy
stringybark
strinkle
strongfully
stronghand
stronghanded
stronghead
strongheaded
strongheadedly
strongheadedness
stronghearted
stronghold
strongholds
strongish
stronglike
strongly
strongman
strongmen
strongness
strongpoint
strongroom
strongrooms
strongyl
strongylate
strongyle
strongyliasis
strongyloid
strongyloidosis
strongyloidosis
strongylon
strongylosis
strongyls
strongtia
strongtian
strongtianiferous
strongtianite
strongtias
strongtic
strongtion
strongtitic
strongtium
strook
strooken
stroot
strop
strophaic
strophanhin
strophanthin
strophanthus
strophe
strophes
strophic
strophical
strophically
strophiolate
strophiolated
strophiole
strophoid
strophomenid
strophomenoid
strophosis
strophotaxis
strophulus
stropped
stropper
stropping
stroppings
stroppy
strops
strosser
stroth
strother
stroud
strouding
strouds
strouge
stroup
strout
strouthisocamel
strouthisocamelian
strouthocamelian
strove
strow
strowd
strowed
strowing
strown
strows
stroy
stroyed
stroyer
stroyers
stroygood
stroying
stroys
strub
strubbly
strumiprivous
strumitis
strummed
strummer
strummers
strumming
strumose
strumous
strumousness
strumpet
strumpetlike
strumpetry
strumpets
strums
strumstrum
strumulose
strung
strunt
strunted
strunting
strunts
struse
strut
struth
struthian
struthiform
struthiform
struthiin
struthin
struthioid
struthiomimus
struthioniform
struthionine
struthious
struthonine
struts
strutted
strutter
strutters
strutting
struttingly
struv
struvite
strych
strychnia
strychnic
strychnin
strychnina
stultifies
stultify
stultifying
stultiloquence
stultiloquently
stultiloquious
stultiloquy
stultioquy
stultioquent
stulty
stum
stumble
stumblebum
stumblebunny
stumbled
stumbler
stumblers
stumbles
stumbling
stumblingly
stumbly
stumer
stammed
stummel
stummer
stumming
stummy
stumor
stumour
stump
stumpage
stumpages
stumped
stumper
stumpers
stumpier
stumpiest
stumpily
stumpiness
stumping
stumpish
stumpknocker
stumpless
stumplike
stumping
stumpnose
stumps
stumpsucker
stupendly
stupendous
stupendously
stupendousness
stupent
stupeous
stupes
stupex
stuphe
stupid
stupider
stupidest
stupidhead
stupidheaded
stupidish
stupidities
stupidity
stupidly
stupidness
stupids
stuping
stupor
stuporific
stuporose
stuporous
stupors
stupose
stupp
stuprate
stuprated
stuprating
stupration
stuprum
stupulose
sturble
sturdiest
sturdier
sturdiersturdies
sturdiest
sturdily
sturdiness
sturdy
sturdyhearted
sturgeon
sturgeons
sturin
sturine
sturionian
sturionine
sturk
sturniform
sturnine
sturnoid
sturoch
sturshum
sturt
sturtan
sturte
sturtin
sturtion
sturtite
sturts
sturty
stuss
stut
stutter
stuttered
stutterer
stutterers
stuttering
stutteringly
stutters
sty
styan
styany
styca
styceric
stycerin
stycerinol
stychomythia
stye
styd
styes
styful
styziekte
stygian
stygiothobia
stying
stylar
stylaster
stylate
stydia
style
stylebook
stylebooks
styled
styloauricularis
stylobata
stylobate
styloglossal
styloglossus
stylogonidium
stylograph
stylographic
stylographical
stylographically
stylography
stylohyal
stylohyoid
stylohyoidean
stylohyoideus
styloid
stylolite
stylolitic
stylomandibular
stylomastoid
stylomaxillary
stylometer
stylommatophorous
stylomyloid
stylopharyngeal
stylopharyngeus
stylopid
stylopization
stylopize
stylopized
stylopod
stylopodia
stylopodium
styllops
stylspore
stylsporous
stylostegium
stylostemon
stylostixis
stylotypite
stylus
styluses
stymie
stymied
stymied
styming
stymies
stymphalian
styny
suave
suavely
suaveness
suaveolent
suaver
suavest
suavify
suaviloquence
suaviloquent
suavities
suavity
sub
suba
subabbots
subabdominal
subabilities
subability
subabsolute
subabsolutely
subabsoluteness
subacademic
subacademical
subacademically
subaccount
subacetabular
subacetate
subacid
subacidity
subacidly
subacidness
subacidulous
subacrid
subacridity
subacridly
subacridness
subacrodrome
subacrodromous
subacromial
subact
subaction
subacuminate
subacumination
subacute
subacutely
subadar
subadars
subadditive
subadditively
subadjacent
subadjacently
subadjutor
subadministrate
subadministered
subadministering
subadministrative
subadministratively
subadministrator
subadult
subadultness
subadults
subaduncate
subadvocate
subaerate
subaerated
subaerating
subaeration
subaerial
subaerially
subaetheric
subaffluence
subaffluent
subaffluently
subage
subagencies
subagency
subagent
subagents
subaggregate
subaggregately
subaggregation
subaggregative
subah
subahdar
subahdars
subahdary
subahs
subahship
subaid
subalar
subalary
subalate
subalated
subalbid
subalgebra
subalgebraic
subalgebraical
subalgebraically
subalgebraist
subalimentation
subalkaline
suballiance
suballiances
suballocate
suballocated
suballocating
subalmoner
subalpine
subaltern
subalternant
subalternate
subalternately
subalternating
subalternation
subalternity
subalterns
subamare
subanal
subanconeal
subandean
subanged
subangular
subangularities
subangularity
subangularly
subangularness
subangulate
subangulated
subangulately
subangulation
subanniversary
subantarctic
subantichrist
subantique
subantiquely
subantiqueness
subantiquities
subantiquity
subapical
subapically
subaponeurotic
subapostolic
subapparent
subapparently
subapparentness
subappearance
subappressed
subapprobatiness
subapprobation
subapprobative
subapprobative
subapprobative
subapprobator
subapterous
subaqua
subaqual
subaquent
subaqueous
subarachnoid
subarachnoidal
subarachnoidean
subarboraceous
subabororeal
subabororeous
subarborescence
subabororesent
subarch
subarchesporial
subarchitect
subarctic
subarcuate
subarcuated
subarcuation
subarea
subareal
subareas
subareolar
subareolet
subarid
subarmale
subarmor
subarousal
subarouse
subarration
subarrhation
subartesian
subarticle
subarticulate
subarticulately
subarticulateness
subarticulation
subarticulative
subarytenoid
subarytenoidal
subas
subascending
subashi
subassemblage
subassembler
subassemblies
subassembly
subassociation
subassociational
subassociations
subassociative
subassociatively
subastragalar
subastragaloid
subastral
subastrangent
subatmospheric
subatom
subatomic
subatoms
subattenuate
subattenuated
subattenuation
subattorney
subattorneys
subattorneyship
subaud
subaudibility
subaudible
subaudibleness
subaudibly
subaudition
subauditioner
subauditor
subauditur
subaural
subaurally
subauricular
subauriculate
subautomatic
subautomatically
subaverage
subaveragely
subaxial
subaxially
subaxile
subaxillar
subaxillary
subbailie
subbailiff
subbailiwick
subballast
subband
subbank
subbasal
subbasaltic
subbase
subbasement
subbasements
subbases
subbass
subbassa
subbasses
subbeadle
subbeau
subbed
subbias
subbifid
subbing
subbings
subbituminous
subbookkeeper
subboreal
subbourdon
subbrachial
subbrachian
subbrachiate
subbrachycephalic
subbrachycephaly
subbrachyskelic
subbranch
subbranched
subbranches
subbranchnal
subbreed
subbreeds
subbrigade
subbrigadier
subbroker
subbromid
subbromide
subbronchial
subbronchially
subbureau
subbureaus
subbureaux
subcabinet
subcaecal
subcalcareous
subcalcarine
subcalibre
subcalibre
subcallosal
subcampanulate
subcancellate
subcancellous
subcandid
subcandidly
subcandidness
subcantor
subcapsular
subcaptain
subcaptaincy
subcaptainship
subcaption
subcarbide
subcarbonaceous
subcarbonate
subcarbureted
subcarburetted
subcardinal
subcardinally
subcarinate
subcarinated
subcartilaginous
subcase
subcash
subcashier
subcasing
subcasino
subcasinos
subcast
subcaste
subcategories
subcategory
subcaudal
subcaudate
subcaulescent
subcause
subcauses
subcavate
subcavities
subcavity
subcelestial
subcell
subcellar
subcellars
subcells
subcellular
subcenter
subcentral
subcentrally
subcentre
subception
subcerebellar
subcerebral
subch
subchairman
subchairmen
subchamberer
subchancel
subchannel
subchannels
subchanter
subchapter
subchapters
subchaser
subchela
subchelae
subchelate
subcheliform
subchief
subchiefs
subchloride
subchondral
subchordal
subchorioid
subchorioidal
subchorionic
subchoroid
subchoroidal
subchronic
subchronical
subchronically
subcinctoria
subcinctorium
subcincinnia
subcineritious
subcingulum
subcoastal
subcoat
subcollateral
subcollector
subcollectorship
subcollege
subcollegial
subcollegiate
subcolumnar
subcommander
subcommanders
subcommandership
subcommendation
subcommendatory
subcommended
subcommissarial
subcommissaries
subcommissary
subcommissaryship
subcommission
subcommissioner
subcommissioners
subcommissionership
subcommissions
subcommit
subcommittee
subcommittees
subcommunity
subcompact
subcompacts
subcompany
subcompensate
subcompensated
subcompensating
subcompensation
subcompensational
subcompensative
subcompensatory
subcomplete
subcompletely
subcompleteness
subcompletion
subcomponent
subcomponent's
subcomponents
subcompressed
subcomputation
subcomputation's
subcomputations
subconcave
subconcavely
subconcaveness
subconcavities
subconcavity
subconcealed
subconcession
subconcessionaire
subconcessionaries
subconcessionary
subconcessioner
subconchoidal
subconference
subconfidential
subconformability
subconformable
subconformableness
subconformably
subconic
subconical
subconically
subconjunctival
subconjunctive
subconjunctively
subconnate
subconnation
subconnect
subconnectedly
subconnivent
subconscience
subconscious
subconsciously
subconsciousness
subconservator
subconsideration
subconstable
subconstellation
subconsul
subconsular
subconsulship
subcontained
subcontest
subcontiguous
subcontinent
subcontinental
subcontinents
subcontinual
subcreativeness
subcreek
subcrenate
subcrenated
subcrenately
subcrepitant
subcrepitation
subcrencentic
subcrest
subcriminal
subcriminally
subcript
subcritical
subcrossing
subcruciform
subcrureal
subcrureus
subcrust
subcrustaceous
subcrustal
subcrystalline
subcubic
subcubical
subcuboid
subcuboidal
subcultrate
subcultrated
subcultural
subculturally
subculture
subculture's
subcultured
subcultures
subculturing
subcuneus
subcurate
subcurator
subcuratorial
subcurators
subcuratorship
subcurrent
subcutaneous
subcutaneously
subcutaneousness
subcutes
subcuticular
subcutis
subcutises
subdendroidal
subdenomination
subdentate
subdentated
subdentation
subdented
subdENTICULATE
subdENTICULATED
subdepartment
subdepartmental
subdepartments
subdeposit
subdepositories
subdepository
subdepot
subdepots
subdepressed
subdeputies
subdeputy
subderivative
subdermal
subdermic
subdeterminant
subdevil
subdiaconal
subdiaconate
subdiaconus
subdial
subdialect
subdialectal
subdialectally
subdialects
subdiapason
subdiapasonic
subdiapente
subdiaphragmatic
subdiaphragmatically
subdichotomies
subdichotomize
subdichotomous
subdichotomously
subdichotomy
subdie
subdilated
subdirector
subdirectories
subdirectories
subdirectors
subdirectorship
subdirectory
subdiscipline
subdisciplines
subdiscoid
subdiscoidal
subdisjunctive
subdistich
subdistichous
subdistichously
subdistinction
subdistinctions
subdistinctive
subdistinctively
subdistinctiveness
subdistinguish
subdistinguished
subdistrict
subdistricts
subdit
subdititious
subdititiously
subdivaceous
subdiversify
subdividable
subdivide
subdivided
subdivider
subdivides
subdividing
subdividingly
subdivine
subdivinely
subdivineness
subdivisible
subdivision
subdivision's
subdivisional
subdivisions
subdivisive
subdoctor
subdolent
subdolichocephalic
subdolichocephalism
subdolichocephalous
subdolichocephaly
subdolous
subdolously
subdolousness
subdomains
subdominance
subdominant
subdorsal
subdorsally
subdouble
subdrain
subdrainage
subdrill
subdruid
subduable
subduableness
subduably
subdual
subduals
subduce
subduced
subduces
subducing
subduct
subducted
subducting
subduction
subducts
subdue
subdued
subduedly
subduedness
subduement
subduer
subduers
subdues
subduing
subduingly
subduple
subduplicate
subdural
subdurally
subdure
subdwarf
subecho
subechoes
subectodermal
subectodermic
subedit
subedited
subediting
subeditor
subeditorial
subeditors
subeditorship
subedits
subeffective
subeffectively
subeffectiveness
subelaphine
subelection
subelectron
subelement
subelemental
subelementally
subelementary
subelliptic
subelliptical
subelongate
subelongated
subemarginate
subemarginated
subemployed
subemployment
subencephalon
subencephalitic
subendocardial
subendorse
subendorsed
subendorsement
subendorsing
subendothelial
subendymal
subenfeoff
subengineer
subentire
subentitle
subentitled
subentitling
subentries
subentry
subepidermal
subepiglottal
subepiglottic
subepithelial
subepoch
subepochs
subequal
subequalities
subequality
subequally
subequatorial
subequilateral
subequivale
suber
suberane
suberate
suberect
suberectly
suberectness
subereous
suberic
suberiferous
suberification
suberiform
suberin
suberine
suberinization
suberimize
suberins
suberise
suberised
suberises
suberising
suberite
suberization
suberize
suberized
suberizes
suberizing
suberone
suberos
suberous
subers
subescheator
subesophageal
subessential
subessentially
subessentialness
subestuarine
subet
subeth
subetheric
subevergreen
subexaminer
subexcitation
subexcite
subexecutor
subexpression
subexpression's
subexpressions
subextensibility
subextensible
subextensibleness
subextensibleness
subexternal
subexternally
subface
subfacies
subfactor
subfactorial
subfactories
subfactory
subfalcate
subfalcial
subfalciform
subfamilies
subfamily
subfascial
subfastigiate
subfastigiated
subfebrile
subferryman
subferrymen
subfestive
subfestively
subfestiveness
subfeu
subfeudation
subfeudatory
subfibrous
subfief
subfield
subfield's
subfields
subfigure
subfigures
subfile
subfile's
subfiles
subfissure
subfix
subfixes
subflavor
subflavour
subflexuose
subglottally
subglottic
subglumaceous
subgoal
subgoal's
subgoals
subgod
subgoverness
subgovernor
subgovernorship
subgrade
subgrades
subgranular
subgranularity
subgranularly
subgraph
subgraphs
subgrin
subgroup
subgroup's
subgroups
subgular
subgum
subgwely
subgyre
subgyri
subgyrus
subhalid
subhalide
subhall
subharmonic
subhastation
subhatcheries
subhatchery
subhead
subheading
subheadings
subheadquarters
subheads
subheadwaiter
subhealth
subhedral
subhemispheric
subhemispherical
subhemispherically
subhepatic
subherd
subhero
subheroes
subhexagonal
subhirsuness
subhirsute
subhirsuteness
subhooked
subhorizontal
subhorizontally
subhorizontalness
subhornblendic
subhouse
subhuman
subhumanly
subhumans
subhumeral
subhumid
subhyalin
subhyaline
subhyaloid
subhymenial
subhymenium
subhyoid
subhyoidean
subhypotheses
subhypothesis
subhystera
subicle
subicteric
subicterical
subicular
subiculum
subidar
subidea
subideal
subideas
subilia
subililia
subilium
subimaginal
subimago
subimbricate
subimbricated
subimbricately
subimbricative
subimposed
subimpressed
subincandescent
subincident
subincise
subincision
subincomplete
subindex
subindexes
subindicate
subindicated
subindicating
subindication
subindicative
subindices
subindividual
subinduce
subinfection
subinfer
subinferior
subinferred
subinferring
subinfeud
subinfeudate
subinfeudated
subinfeudating
subinfeudation
subinfeudatories
subinfeudatory
subinflammation
subinflammatory
subinfluent
subinform
subingression
subinguinal
subinitial
subinoculate
subinoculation
subinsert
subinsertion
subinspector
subinspectorship
subintegumental
subintegumentary
subintellection
subintelligential
subintelligitur
subintent
subintention
subintentional
subintentionally
subintercessor
subinternal
subinternally
subinterval
subinterval's
subintervals
subintestinal
subintimal
subintrant
subintroduce
subintroduced
subintroducing
subintroduction
subintroductive
subintroductory
subinvolute
subinvoluter
subinvolution
subiodide
subirrigate
subirrigated
subirrigating
subirrigation
subitane
subitaneous
subitany
subitem
subitems
subito
subitous
subj
subjacency
subjacent
subjacently
subjack
subject
subjectability
subjectable
subjectdom
subjected
subjectedly
subjectedness
subjecthood
subjectibility
subjectible
subjectification
subjectified
subjectify
subjectifying
subjectile
subjecting
subjection
subjectional
subjectist
subjective
subjectively
subjectiveness
subjectivism
subjectivist
subjectivistic
subjectivistically
subjectivity
subjectivization
subjectivize
subjectivoidealistic
subjectless
subjectlike
subjectness
subjects
subjectship
subjee
subjicible
subjoin
subjoinder
subjoined
subjoining
subjoins
subjoint
subjudge
subjudgeship
subjudicial
subjudicially
subjudiciaries
subjudiciary
subjugable
subjugal
subjugate
subjugated
subjugates
subjugating
subjugation
subjugator
subjugators
subjugular
subjunct
subjunctive
subjunctively
subjunctives
subjunior
subking
subkingdom
subkingdoms
sublabial
sublabially
sublaciniate
sublacunose
sublacustrine
sublanate
sublanceolate
sublanguage
sublanguages
sublapsar
sublapsarian
sublapsarianism
sublapsary
sublaryngal
sublaryngeal
sublaryngeally
sublate
sublated
sublateral
sublates
sublating
sublation
sublative
sublattices
sublavius
sublayer
sublayers
subleader
sublease
subleased
subleases
subleasing
sublecturer
sublegislation
sublegislature
sublenticular
sublenticulate
sublessee
sublessor
sublet
sublethal
sublethally
sublets
sublettable
subletter
subletting
sublevaminous
sublevate
sublevation
sublevel
sublevels
sublibrarian
sublibrarianship
sublicense
sublicensed
sublicensee
sublicenses
sublicensing
sublid
sublieutenancy
sublieutenant
subligation
sublighted
sublimable
sublimableness
sublimant
subclimate
sublimated
sublimates
sublimating
sublimation
sublimational
sublimationist
sublimations
sublimator
sublimatory
sublime
sublimed
sublimely
sublimeness
sublimer
sublimers
sublimes
sublimest
sublimification
subliminal
subliminally
subliming
sublimish
sublimitation
sublimities
sublimity
sublimize
subline
sublinear
sublineation
sublingua
sublinguae
sublingual
sublinguate
sublist
sublist's
sublists
subliterary
subliterate
subliterature
sublittoral
sublobular
sublong
subloral
subloreal
sublot
sublumbar
sublunar
sublunare
sublunate
sublunated
sublustrous
sublustrously
sublustrousness
subluxate
subluxation
submachine
submaid
submain
submakroskelic
submammmary
subman
submanager
submanagership
submandibular
submania
submaniacal
submaniacally
submanic
submanor
submarginal
submarginally
submarginate
submargined
submarine
submarined
submariner
submariners
submarines
submarining
submarinism
submarinist
submarshal
submaster
submatrices
submatrix
submatrixes
submaxilla
submaxillae
submaxillary
submaxillas
submaximal
submeaning
submedial
submedially
submedian
submediant
submediation
submediocre
submeeting
submember
submembers
submembranaceous
submembranous
submen
submeningeal
submenta
submental
submentum
submerge
submerged
submergement
submergence
submergences
submerges
submergibility
submergible
submerging
submerse
submersed
submerges
submersibility
submersible
submersibles
submersing
submersion
submersion
submetallic
submetaphoric
submetaphorical
submetaphorically
submeter
submetering
submicrogram
submicron
submicroscopic
submicroscopical
submicroscopically
submiliary
submind
subminiature
subminiaturization
subminiaturize
subminiaturized
subminiaturizes
subminiaturizing
subminimal
subminister
subministrant
submiss
submissible
submission
submission's
submissionist
submissions
submit
submitochondrial
submits
submittal
submitance
submitted
submitter
subnex
subnitrate
subnitrated
subniveal
subnivean
subnodal
subnode
subnodes
subnodulose
subnodulous
subnormal
subnormality
subnormally
subnotation
subnotational
subnote
subnotochordal
subnubilar
subnuclei
subnucleus
subnucleuses
subnude
subnumber
subnutritious
subnutritiously
subnutritiousness
subnudal
suboblique
subobliquely
subobliqueness
subobscure
subobscurely
subobscureness
subobsolete
subobsoletely
subobsoleteness
subobtuse
subobtusely
subobtuseness
suboccipital
subocean
suboceanic
suboctave
suboctile
suboctuple
subocular
subocularly
suboesophageal
subpartitionment
subpartnership
subparts
subparty
subpass
subpassage
subpastor
subpastorship
subpatellar
subpatron
subpatronal
subpatroness
subpattern
subpavement
subpectinate
subpectinated
subpectination
subpectoral
subpeduncle
subpeduncled
subpeduncular
subpedunculate
subpedunculated
subpellucid
subpellucidity
subpellucidly
subpellucidness
subpeltate
subpeltated
subpeltately
subpenna
subpennaed
subpenaing
subpenas
subpentagonal
subpentangular
subpericardiac
subpericardial
subpericranial
subperiod
subperiosteal
subperiosteally
subperitoneal
subperitoneally
subpermanent
subpermanently
subperpendicular
subpetiolar
subpetiolate
subpetiolated
subpetrosal
subpharyngal
subpharyngeal
subpharyngeally
subphases
subphosphate
subphratries
subphratry
subphrenic
subphyla
subphylar
subphylla
subphylum
subpial
subpilose
subpilosity
subpimp
subpiston
subplacenta
subplacentae
subplacental
subplacentas
subplant
subplantigrade
subplat
subplate
subpleural
subplexal
subplinth
subplot
subplots
subplow
subpodophyllous
subpoena
subpoenaed
subpoenaing
subpoenal
subpoenas
subpolar
subpolygonal
subpolygonally
subpool
subpools
subpopular
subpopulation
subpopulations
subporphyritic
subport
subpost
subpostmaster
subpostmastership
subpostscript
subpotencies
subpotency
subpotent
subpreceptor
subpreceptoral
subpreceptorate
subpreceptorial
subpredicate
subpredication
subpredicative
subprefect
subprefectorial
subprefecture
subprehensile
subprehensility
subpreputial
subpress
subprimary
subprincipal
subprincipals
subprior
subprioress
subpriorship
subproblem
subproblem's
subproblems
subprocess
subprocesses
subproctor
subproctorial
subproctorship
subproduct
subprofessional
subprofessionally
subprofessor
subprofessorate
subprofessoriate
subprofessorship
subprofitable
subprofitableness
subprofitably
subprogram
subprogram's
subprograms
subproject
subproof
subproof's
subproofs
subproportional
subproportionally
subprostatic
subprotector
subprotectorship
subprovince
subprovinces
subprovincial
subpubescent
subpubic
subpulmonary
subpulverizer
subpunch
subpunctuation
subpurchaser
subpurlin
subputation
subpyramidal
subpyramidal
subpyramidal
subpyramidical
subpyriform
subquadrangular
subquadrate
subqualities
subquality
subquarter
subquarterly
subquestion
subqueues
subquinquefid
subquintuple
subrace
subraces
subradial
subradiance
subradiancy
subradiate
subradiative
subradical
subradicalness
subradicness
subradius
subrhomboid
subrhomboidal
subrictal
subrident
subridently
subrigid
subrigidity
subrigidly
subrigidness
subring
subrings
subrision
subrisive
subrisory
subrogate
subrogated
subrogating
subrogation
subrogee
subrogor
subroot
subrostral
subrotund
subrotundity
subrotundly
subrotundness
subround
subroutine
subroutine's
subroutines
subroutining
subrule
subruler
subrules
subs
subsaical
subsale
subsales
subsaline
subsalinity
subsalt
subsample
subsampled
subsampling
subsartorial
subsatellite
subsatiric
subsatirical
subsatirically
subsatiricalness
subsaturated
subsaturation
subsacle
subscapular
subscapularis
subscapulary
subschedule
subschedules
subschema
subschemas's
subschemes
subscheme
subschool
subscience
subscleral
subsclerotic
subscribeable
subscribe
subscribed
subscriber
subscribers
subscribership
subscribes
subscribing
subscript
subscripted
subscripting
subscription
subscription's
subscriptionist
subscriptions
subscriptive
subscriptively
subscripts
subscripture
subwrite
subscrive
subscriver
subsea
subsecive
subsecretarial
subsecretaries
subsecretary
subsecretaryship
subsect
subsection
subsection's
subsections
sects
subsecurities
security
subsecute
subsecutive
subsegment
segment's
subsegments
sell
sellia
sellium
semitusa
semitone
tion
sense
sensible
sensual
sensually
sensuous
sensuously
sensuousness
sept
septate
septuple
sequence
sequence's
sequences
sequence
cent
sequent
sequential
sequentially
sequent
sequentness
sere
series
serosa
serous
serrate
serrated
serve
served
serves
serviate
servience
serviency
servient
subsidizer
subsidizes
subsidizing
subsidy
subsidy's
subsign
subsilicate
subsilicic
subsill
subsimian
subsimilation
subsimious
subsimple
subsinuous
subsist
subsisted
subsistence
subsistency
subsistent
subsistential
subsister
subsisting
subsistingly
subsists
subsizar
subsizarship
subslot
subslots
subsmile
subsneer
subsocial
subsocially
subsoil
subsoiled
subsoiler
subsoiling
subsoils
subsolid
subsonic
subsonically
subsonics
subsort
subsorter
subsovereign
subspace
subspace's
subspaces
subspatulate
subspecialist
subspecialization
subspecialize
subspecialized
subspecializing
subspecialties
subspecialty
subspecies
subspecific
subspecifically
subspecific
subspecific
subspecies
subspecific
subspecificly
subspinose
subspinous
subspirial
subspirally
subsplenial
subspontaneous
subspontaneously
subspontaneousness
subsqaudron
subssellia
subst
substage
substages
substalagmite
substalagmitic
substance
substance's
substanced
substanceless
substances
substanch
substandard
substandardization
substandardize
substandardized
substandardizing
substanially
substant
substantia
substantiability
substantiable
substantiae
substantial
substantialia
substantialism
substantialist
substantiality
substantialization
substantialize
substantialized
substantializing
substantially
substantiallylying
substantialness
substantiatable
substantiate
substantiated
substantiates
substantiating
substantiation
substantiations
substantiative
substantiator
substantify
substantious
substantival
substantivally
substantive
substantively
substantiveness
substantives
substantivity
substantivize
substantivized
substantivizing
substantize
substation
substations
subternal
substile
substituent
substitutabilities
substitutability
substitutable
substitute
substituted
substituter
substitutes
substituting
subtaxer
subtectacle
subtectal
subteen
subteener
subteens
subtegminal
subtegulaneous
subtegumental
subtegmentary
subtemperate
subtemporal
subtenancies
subtenancy
subtenant
subtenants
subtend
subtended
subtending
subtends
subtense
subtentacular
subtenure
subtepid
subtepidity
subtepidly
subtepidness
subteraqueous
subterbrutish
subtercelestial
subterconscious
subtercutaneous
subterete
subterethereal
subterfluent
subterfluous
subterfuge
subterfuges
subterhuman
subterjacent
subtermarine
subterminal
subterminally
subternatural
subterpose
subterposition
subterrain
subterrane
subterranean
subterraneanize
subterraneanized
subterraneanizing
subterraneanly
subterraneity
subterranean
subterraneously
subterraneousness
subterraneous
subterraneity
subterranean
subterraneousness
subteparqueous
subterrene
subterrestrial
subterritorial
subterritories
subterritory
subtersensual
subtersensuous
subtersuperlative
subtersurface
subterian
subtetanic
subtetanical
subtext
subtexts
subthalamic
subthalamus
subthoracal
subthoracic
subthreshold
subthril
subtile
subtilely
subtileness
subtler
subtilest
subtiliate
subtiliation
subtilin
subtilis
subtilisation
subtilise
subtilised
subtiliser
subtilising
subtilism
subtilist
subtilities
subtility
subtilization
subtilize
subtilized
subtilizer
subtilizing
subtill
subtilage
subtilly
subtilties
subtilty
subtitle
subtitle
subtitled
subtitles
subtitling
subtitular
subtle
subtely
subtleness
subtler
subdest
subleties
subdley
subdly
subtone
subtones
subtonic
subtonics
subtopia
subtopic
subtopics
subtorrid
subtotal
subtotaled
subtotaling
subtotalled
subtotalling
subtotally
subtotal
subtotals
subtotem
subtotemic
subtower
subtract
subtracted
subtractor
subtracting
subtraction
subtractions
subtractive
subtractor
subtractor's
subtractors
subtracts
subtrahend
subtrahend's
subtrahends
subtranslucence
subtranslucency
subtranslucent
subtransparent
subtransparently
subtransparentness
subtransversal
subtransversally
subtransverse
subtransversely
subtrapezoid
subtrapezoidal
subtray
subtread
subtreasurer
subtreasurership
subtreasuries
subtreasury
subtree
subtree's
subtrees
subtrench
subtriangular
subtriangularity
subtriangulate
subtribal
subtribe
subtribes
subtribual
subtrifid
subtrigonal
subtrihedral
subtriplicate
subtriplicated
subtriplication
subtriquetrous
subtrist
subtrochanteric
subtrochlear
subtrochleariform
subtropic
subtropical
subtropics
subtrousers
subtrude
subtruncate
subtruncated
subtruncation
subtrunk
subtuberant
subtubiform
subtunic
subtunics
subtunnel
subturbary
subturriculate
subturriculated
subtutor
subtutorship
subtwined
subtympanitic
subtype
subtypes
subtypical
subucula
subulate
subulated
subulicorn
subuliform
subultimate
subumbellar
subumbellate
subumbellated
subumbelliferous
subumbilical
subumbonal
subumbonate
subumbral
subumbrellar
subuncinal
subuncinate
subuncinated
subunequal
subunequally
subvendee
subvene
subvened
subvenes
subvening
subvenize
subvention
subventionary
subventioned
subventionize
subventions
subventitious
subventive
subventral
subventrally
subventricose
subventricous
subventricular
subvermiform
subversal
subverse
subversed
subversion
subversionary
subversions
subversive
subversively
subversiveness
subversives
subversivism
subvert
subvertebral
subvertebrate
subverted
subverter
subverters
subvertible
subvertical
subvertically
subverticalness
subverticilate
subverticilated
subverticillate
subverting
subverts
subvesicular
subvestment
subvicar
subvicars
subvicarship
subvii
subvillain
subviral
subvirate
subvirile
subvisible
subvitalisation
subvitalised
subvitalization
subvitalized
subvitreous
subvitreously
subvitreousness
subvocal
subvocally
subvolae
subwar
subwarden
subwardenship
subwater
subway
subway's
subways
subwealthy
subweight
subwink
subworker
subworkman
subworkmen
subzero
subzonal
subzonary
subzone
subzones
subzygomatic
succade
succah
succahs
succedanea
succedaneous
succedaneum
succedaneums
succeedent
succeed
succeedable
succeeded
succours
succous
succub
succuba
succubae
succube
succubi
succubine
succuous
succubus
succubuses
succudry
succula
succulence
succulencies
succulency
succulent
succulently
succulentness
succulents
succulous
succumb
succumbed
succumbence
succumbency
succumbersome
succumbent
succumbers
succumbing
succumbs
succursal
succursale
succus
succuss
succussation
succussatory
succussed
succusses
succussing
succussion
succussive
such
suchlike
suchness
suchnesses
suchwise
suci
sucivilized
suck
suckable
suckabob
suckage
suckauhock
sucked
sucken
suckener
suckeny
sucker
suckered
suckereel
suckerfish
suckerfishes
suckering
suckerlike
suckers
sucket
suckfish
suckfishes
suckhole
sucking
suckle
sucklebush
suckled
suckler
sucklers
suckles
suckless
suckling
sucklings
sucks
suckstone
suclat
sucramin
sucramine
sucrase
sucrases
sucrate
sucre
sucres
sucrier
sucriers
sucroacid
sucrose
sucroses
suction
suctional
suctions
suctorial
suctorian
suctorius
sucupira
sucuri
sucuriu
sucuruju
sucury
sud
sudadero
sudamen
sudamina
sudaminal
sudan
sudanese
sudanic
sudaria
sudaries
sudarium
sudary
sudate
sudation
sudations
sudatoria
sudatories
sudatorium
sudatory
subburite
sudd
sudden
suddenly
suddenness
suddens
suddenty
sudder
saddle
sudds
suddy
sude
sudes
sudiform
sudor
sudoral
sudoresis
sudoric
sudoriferous
sudoriferousness
sudorific
sudoriparous
sudorous
sudors
sudra
suds
sudsed
sudser
sudsers
sudses
sudsier
sudsiest
sudsing
sudsless
sudsman
sudsmen
sudsy
sue
sued
suede
sueded
suedes
suedine
sueding
suegee
suent
suer
suers
suerte
sues
suet
suets
suety
sueve
suevian
suey
suez
suf
suff
suffari
suffaris
suffect
suffection
suffer
sufferable
sufferableness
sufferably
sufferance
sufferant
suffered
sufferer
sufferers
suffering
sufferingly
sufferings
suffers
suffete
suffetes
suffice
sufficeable
sufficed
sufferer
sufficers
suffices
sufficiency
sufficiencies
sufficiency
sufficient
sufficiently
sufficientness
sufficing
sufficingly
sufficingness
suffiction
suffisance
suffisant
suffix
suffixal
suffixation
suffixed
suffixer
suffixes
suffixing
suffixion
suffixment
sufflaminate
sufflamination
sufflate
sufflated
sufflates
sufflating
sufflation
sufflue
suffocate
suffocated
suffocates
suffocating
suffocatingly
suffocation
suffocative
suffolk
suffragan
suffraganal
suffraganate
suffragancy
suffraganeous
suffragans
suffragant
suffragate
suffragatory
suffrage
suffrages
suffragette
suffragettes
suffragettism
suffragial
suffragism
suffragist
suffragistic
suffragistically
suffragists
suffragitis
suffrago
suffrain
suffront
suffrutescent
suffrutex
suffrutices
suffruticose
suffruditous
suffrutiulaire
suffumigate
suffumigated
suffumigating
suffumigation
suffusable
suffuse
suffused
suffusedly
suffuses
suffusing
suffusion
suffusions
suffusive
suji
sukiyaki
sukiyakis
sukkah
sukkahs
sukkenye
sukkoth
sula
sulbasutra
sulcal
sulcalization
sulcalize
sulcar
sulcate
sulcated
sulcation
sulcatoreolate
sulcatocostate
sulcatorimose
sulci
sulciform
sulcomarginal
sulcular
sulculate
sulculus
sulcus
suld
suldan
suldans
sulea
sulfa
sulfacid
sulfadiazine
sulfadimethoxine
sulfaguanidine
sulfamate
sulfamerazin
sulfamerazine
sulfamethazine
sulfamethylthiazole
sulfamic
sulfamidate
sulfamide
sulfamidic
sulfamine
sulfaminic
sulfamyl
sulfanilamide
sulfanilic
sulfanilylguanidine
sulfantimonide
sulfapyrazine
sulfapyridine
sulfquinocxaline
sulfarsenide
sulfarsenite
sulfarseniuret
sulfarsphenamine
sulfas
sulfatase
sulfate
sulfated
sulfates
sulfathiazole
sulfatic
sulfating
sulfation
sulfatization
sulfatize
sulfatized
sulfatizing
sulfato
sulfazide
sulphydrate
sulphydric
sulphydryl
sulfid
sulfide
sulfides
sulfids
sulfinate
sulfindigotate
sulfindigotic
sulfindylic
sulfine
sulfinic
sulfinide
sulfinyl
sulfinyls
sulfion
sulfionide
sulfisoxazole
sulfite
sulfites
sulfitic
sulfito
sulfo
sulfoacid
sulfoamide
sulfobenzide
sulfobenzoate
sulfobenzoic
sulfobismuthite
sulfoborite
sulfo carbamide
sulfo carbimide
sulfo carbolate
sulfo carboxilic
sulfo chloride
sulfo cyan
sulfo cyanide
sulfo fication
sulfo germanate
sulfo halite
sulfo hydrate
sulfo indigotate
sulfo ileic
sulfo lysis
sulfo methylc
sulfo nal
sulfo nals
sulfo namic
sulfo namide
sulfo nate
sulfo nated
sulfo nating
sulfo nation
sulfo nator
sulfo ne
sulfo nephthalexin
sulfones
sulfo nethyl methane
sulfo nic
sulfo nium
sulfo non methane
sulfo nyl
sulfo nyls
sulfo nylurea
sulfo phthalexin
sulfo purpurate
sulfo purpuric
sulfo ricinate
sulfo ricinic
sulfo ricinoleate
sulforicinoleic
sulfoselenide
sulfosilicide
sulfostannide
sulfotelluride
sulfourea
sulfovinate
sulfovinic
sulfovollumetric
sulfoxide
sulfoxism
sulfoxylate
sulfoxylic
sulfur
sulfuration
sulfuran
sulfurate
sulfurization
sulfurator
sulfurea
sulfured
sulfureous
sulfureously
sulfureousness
sulfuret
sulfuretated
sulfureting
sulfurets
sulfuretted
sulfuretting
sulfurous
sulfuring
sulfurization
sulfurize
sulfurized
sulfurizing
sulfuroxyl
sulfurous
sulfuroxically
sulfuroxiness
sulfurs
sulfury
sulfuryl
sulfuryls
suling
sulk
sulka
sulked
sulphanilamide
sulphanilate
sulphanilic
sulphantimonate
sulphantimonial
sulphantimonic
sulphantimonide
sulphantimonious
sulphantimonite
sulphapyrazine
sulphapyridine
sulpharsenate
sulpharseniate
sulpharsenic
sulpharsenid
sulpharsenide
sulpharsenious
sulpharsenite
sulpharsiuret
sulpharsphenamine
sulphas
sulphatase
sulphate
sulphated
sulphates
sulphathiazole
sulphatic
sulphating
sulphation
sulphatization
sulphatize
sulphatized
sulphatizing
sulphato
sulphatoacetic
sulphatocarbonic
sulphazid
sulphazide
sulphazotize
sulphbismuthite
sulphethylate
sulphethylic
sulphhemoglobin
sulphichthyolate
sulphid
sulphidation
sulphide
sulphides
sulphidic
sulphidize
sulphids
sulphimide
sulphin
sulphinate
sulphindigotate
sulphindigotic
sulphine
sulphinic
sulphinide
sulphinyl
sulphion
sulphisoxazole
sulphitation
sulphite
sulphites
sulphitic
sulphito
sulphmethemoglobin
sulpho
sulphoacetic
sulphoamid
sulphoamide
sulphoantimonate
sulphoantimonic
sulphoantimonious
sulphoantimonite
sulphoarsenic
sulphoarsenious
sulphoarsenite
sulphoazotize
sulphobenzid
sulphobenzide
sulphobenzoate
sulphobenzoic
sulphobismuthite
sulphoborite
sulphobutyric
sulphocarbamic
sulphocarbamide
sulphocarbonilide
sulphocarbimide
sulphocarbolate
sulphocarbolic
sulphocarbonate
sulphocarbonic
sulphochloride
sulphochromic
sulphocinnamic
sulphocyan
sulphocyanate
sulphocyanic
sulphocyanide
sulphocyanogen
sulphodichloramine
sulphofication
sulphofy
sulphogallic
sulphogel
sulphogermanate
sulphogermanic
sulphohalite
sulphohaloid
sulphohydrate
sulphoicthyoilate
sulphoicthyoletic
sulphoindigotate
sulphoindigotic
sulpholate
sulpholeic
sulpholipin
sulpholysis
sulphonal
sulphonalism
sulphonamic
sulphonamid
sulphonamide
sulphonamido
sulphonamine
sulphonaphthoic
sulphonate
sulphonated
sulphonating
sulphonation
sulphonator
sulphoncyanine
sulphone
sulphonephthalein
sulphones
sulphonethylmethane
sulphonic
sulphonium
sulphonmethane
sulphonphthalein
sulphonyl
sulphoparaldehyde
sulphophenyl
sulphophosphate
sulphophosphite
sulphophosphoric
sulphophosphorous
sulphophthalein
sulphophthalic
sulphopropionic
sulphoproteid
sulphopupuric
sulphopurpurate
sulphopurpuric
sulphoricinate
sulphoricinic
sulphoricinoleate
sulphoricinoleic
sulphosalicylic
sulphoselenide
sulphoselenium
sulphosilicide
sulphosol
sulphostannate
sulphostannic
sulphostannide
sulphostannite
sulphostannous
sulphosuccinic
sulphosulphurous
sulphotannic
sulphotelluride
sulphoterephthalic
sulphothiyonyl
sulphotoluic
sulphotungstate
sulphotungstic
sulphouinic
sulphourea
sulphovanadate
sulphovinate
sulphovinic
sulphowolframic
sulphoxid
sulphoxide
sulphoxism
sulphoxylate
sulphoxylic
sulphoxyphosphate
sulphozincate
sulphur
sulphurage
sulphuran
sulphurate
sulphurated
sulphurating
sulphuration
sulphurator
sulphurea
sulphurean
sulphured
sulphureity
sulphureonitrous
sulphureosaline
sulphureosuffused
sulphureous
sulphureously
sulphureousness
sulphureovirescent
sulphuret
sulphured
sulphureted
sulphureting
sulphuretted
sulphuretting
sulphuric
sulphuriferous
sulphuring
sulphurous
sulphurity
sulphurization
sulphurize
sulphurized
sulphurizing
sulphurless
sulphurlike
sulphurosylic
sulphuro
sulphurous
sulphuroously
sulphurousness
sulphurproof
sulphurs
sulphurweed
sulphurwort
sulphury
sulphuryl
sulphydrate
sulphydric
sulphydryl
sulpician
sultam
sultan
sultan's
sultana
sultanas
sultanaship
sultanate
sultanates
sultane
sultanesque
sultaness
sultanian
sultanic
sultanin
sultanism
sultanist
sultanize
sultanlike
sultanry
sultans
sultanship
sultany
sultone
sultrier
sultriest
sultrily
sultriness
sultry
sulung
sulvanite
sulvasutra
sum
sum's
sumac
sumach
sumachs
sumacs
sumage
sumatra
sumatran
sumatrans
sumbal
sumbul
sumbulic
sumen
summer's
summerbird
summercastle
summered
summerer
summergame
summerhead
summerhouse
summerhouses
summerier
summeriest
summeriness
summering
summerings
summerish
summerite
summerize
summerland
summerlay
summerless
summerlike
summerliness
summerling
summerly
summerproof
summerroom
summers
summersault
summerset
summittide
summertime
summertree
summerward
summerweight
summerwood
summery
summing
summings
summist
summit
summital
summitless
summitries
summitry
summits
summerly
summon
summonable
suntan
suntanned
suntanning
suntans
suntrap
sunup
sunups
sunward
sunwards
sunway
sunways
sunweed
sunwise
sunyata
sunyie
suovetaurilia
sup
supa
supari
supawn
supe
supellectile
supellex
super
superabduction
superabhor
superability
superable
superableness
superably
superabnormal
superabnormally
superabominable
superabominableness
superabominably
superabomination
superabound
superabstract
superabstractly
superabstractness
superabsurd
superabsurdity
superabsurdly
superabsurdness
superabundance
superabundancy
superabundant
superabundantly
superaccession
superaccessory
superaccommodating
superaccomplished
superaccrue
superaccrued
superacruing
superaccumulate
superaccumulated
superaccumulating
superaccumulation
superaccurate
superaccurately
superaccurateness
superacetate
superachievement
superacid
superacidity
superacidulated
superacknowledgment
superacquisition
superacromial
superactivate
superactivated
superactivating
superactive
superactively
superactiveness
superactivities
superactivity
superacute
superacutely
superacuteness
superadaptable
superadaptableness
superadaptably
superadd
superadded
superadding
superaddition
superadditional
superadds
superadequate
superadequately
superadequateness
superadjacent
superadjacently
superadministration
superadmirable
superadmirableness
superadmirably
superadmiration
superadorn
superadornment
superaerial
superaerially
superaerodynamics
superaesthetical
superaesthetically
superaffiliation
superaffluence
superaffluence
superaffluent
superaffluently
superaffusion
superagencies
superagency
superaggravation
superagitation
superagrarian
superalbal
superalbuminosis
superalimentation
superalkaline
superalkalinity
superallowance
superalloy
superaltar
superaltern
superambition
superambitious
superambitiously
superambitiousness
superambulacral
superanal
superangelic
superangelical
superangelically
superanimal
superanimality
superannate
superannate
superannuate
superannuated
superannuating
superannuation
superannuitant
superannuities
superannuity
superapologies
superapology
superappreciation
superaqual
superaqueous
superarbiter
superarbitrary
superarctic
superarduous
superarduously
superarduousness
superarrogance
superarrogant
superarrogantly
superarseniate
superartificial
superartificiality
superartificially
superaspiration
superassertion
superassociate
superassume
superassumed
superassuming
superassumption
superastonish
superastonishment
superate
superattachment
superattainable
superattainableness
superattainably
superattendant
superattraction
superattractive
superattractively
superattractiveness
superauditor
superaural
superaverage
superaverageness
superaveraness
superavit
superaward
superaxillary
superazotation
superb
superbazaar
superbazooka
superbelief
superbelievable
superbelievableness
superbelievably
superbeloved
superbenefit
superbenevolence
superbenevolent
superbenevolently
superbenign
superbenignly
superber
superbest
superbia
superbias
superbious
superbity
superblessed
superblessedness
superblock
superblunder
superbly
superbness
superbold
superboldly
superboldness
superbomb
superborrow
superbrain
superbrave
superbravely
superbraveness
superbrute
superbuild
superbungalow
superbusily
superbusy
supercabinet
supercalender
supercallosal
supercandid
supercandidly
supercandidness
supercanine
<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>supercanonical</td>
</tr>
<tr>
<td>supercanonization</td>
</tr>
<tr>
<td>supercanopies</td>
</tr>
<tr>
<td>supercanopy</td>
</tr>
<tr>
<td>supercapabilities</td>
</tr>
<tr>
<td>supercapability</td>
</tr>
<tr>
<td>supercapable</td>
</tr>
<tr>
<td>supercapableness</td>
</tr>
<tr>
<td>supercapably</td>
</tr>
<tr>
<td>supercapital</td>
</tr>
<tr>
<td>supercaption</td>
</tr>
<tr>
<td>supercarbonate</td>
</tr>
<tr>
<td>supercarbonization</td>
</tr>
<tr>
<td>supercarbonize</td>
</tr>
<tr>
<td>supercarbureted</td>
</tr>
<tr>
<td>supercargo</td>
</tr>
<tr>
<td>supercargoes</td>
</tr>
<tr>
<td>supercargos</td>
</tr>
<tr>
<td>supercargoship</td>
</tr>
<tr>
<td>supercarpal</td>
</tr>
<tr>
<td>supercarrier</td>
</tr>
<tr>
<td>supercatastrophe</td>
</tr>
<tr>
<td>supercatastrophic</td>
</tr>
<tr>
<td>supercatholic</td>
</tr>
<tr>
<td>supercatholicely</td>
</tr>
<tr>
<td>supercausal</td>
</tr>
<tr>
<td>supercaution</td>
</tr>
<tr>
<td>supercavitation</td>
</tr>
<tr>
<td>supercede</td>
</tr>
<tr>
<td>superceded</td>
</tr>
<tr>
<td>supercedes</td>
</tr>
<tr>
<td>superceding</td>
</tr>
<tr>
<td>supercelestial</td>
</tr>
<tr>
<td>supercelestially</td>
</tr>
<tr>
<td>supercensure</td>
</tr>
<tr>
<td>supercentral</td>
</tr>
<tr>
<td>supercentrifuge</td>
</tr>
<tr>
<td>supercerebellar</td>
</tr>
<tr>
<td>supercerebral</td>
</tr>
<tr>
<td>supercerebrally</td>
</tr>
<tr>
<td>superceremonious</td>
</tr>
<tr>
<td>superceremoniously</td>
</tr>
<tr>
<td>superceremoniousness</td>
</tr>
<tr>
<td>supercharge</td>
</tr>
<tr>
<td>supercharged</td>
</tr>
<tr>
<td>supercharger</td>
</tr>
<tr>
<td>superchargers</td>
</tr>
<tr>
<td>supercharges</td>
</tr>
</tbody>
</table>
supercharging
superchemical
superchemically
supercherie
superchery
superchivalrous
superchivalrously
superchivalrousness
supercicilia
supercilia
superciliary
superciliosity
supercilious
superciliously
superciliousness
supercilium
supercity
supercivil
supercivilization
supercivilized
supercivilly
superclaim
superclass
superclassified
supercloth
supercluster
supercoincidence
supercoincident
supercoincidently
supercolossal
supercolossally
supercolumnar
supercolumniation
supercombination
supercombing
supercommendation
supercommentaries
supercommentary
supercommentator
supercommercial
supercommercially
supercommercialness
supercompetition
supercomplete
supercomplex
supercomplexities
supercomplexity
supercomprehension
supercompression
supercomputer
supercomputer's
supercomputers
superconception
superconduct
superconducting
superconduction
superconductive
superconductivity
superconductor
superconductors
superconfidence
superconfident
superconfidently
superconfirmation
superconformable
superconformableness
superconformably
superconformist
superconformity
superconfused
superconfusion
supercongested
supercongestion
superconscious
superconsciousness
superconsecrated
superconsequence
superconsequency
superconservative
superconservatively
superconservativeness
superconstitutional
superconstitutionally
supercontest
supercontribution
supercontrol
supercool
supercooled
supercordial
supercordially
supercordialness
supercorporation
supercow
supercredit
supercrescence
supercrescent
supercretaceous
supercrime
supercriminal
supercriminally
supercritic
supercritical
supercritically
supercriticalness
supercrowned
supercrust
supercube
supercultivated
superculture
supercurious
supercuriously
supercuriousness
supercycle
supercynical
supercynically
supercynicalness
superdainty
superdanger
superdebt
superdeclamatory
superdecorated
superdecoration
superdeficit
superdeities
superdeity
superdejection
superdelegate
superdelicate
superdelicately
superdelicateness
superdemand
superdemocratic
superdemocratically
superdemonic
superdemonstration
superdensity
superdeposit
superdesirous
superdesirously
superdevelopment
superdevilish
superdevilishly
superdevilishness
superdevotion
superdiabolical
superdiabolically
superdiabolicalness
superdicrotic
superdifficult
superdifficultly
superdiplomacy
superdirection
superdiscount
superdistention
superdistribution
superdividend
superdivine
superdivision
superdoctor
superdominant
superdomineering
superdonation
superdose
superdramatist
superdreadnought
superdubious
superdubiously
superdubiousness
superduper
superduplication
superdural
superdying
superearthly
supereconomies
supereconomy
supered
superedification
superedify
supereducated
supereducation
supereffective
supereffectively
supereffectiveness
supereffluence
supereffluent
supereffluently
superego
superego's
superegos
superelaborate
superelaborately
superelaborateness
superelastic
superelastically
superrelated
superelegance
superelegancies
superelegancy
superelegantly
superelementary
superelevate
superelevated
superelevation
superelegibility
superelegible
superelegibleness
superelegibly
supereloquence
supereloquent
supereloquently
supereminence
supereminency
supereminent
supereminently
superephemasis
superephemize
superephemized
superephemizing
superephirical
superecipher
superecipherment
supereendorse
supereendorsed
supereendorsement
supereendorsing
supereendow
supereenergetic
supereenergetically
supereforcement
superegrave
superegraved
superegraving
supereenrollment
superepic
superepoch
superequivalent
superequivalent
supelerogant
supelerogantly
supelerogate
supererogated
supererogating
supererogation
supererogative
supererogator
supererogatorily
supererogatory
superespecial
superessential
superessentially
superessive
superestablish
superestablishment
supereternity
superether
superethical
superethically
superethicalness
superethmoidal
superette
superevangelical
superevangelically
superevidence
superevident
superevidently
superexacting
superexalt
superexaltation
superexaminer
superexceed
superexceeding
superexcellence
superecellency
superecellent
superecellently
supereexceptional
supereexceptionally
superexcitation
superexcited
superexcitement
superexcrescence
superexcrescent
superexcrescently
superexert
superexertion
superexiguity
superexist
superexistent
superexpand
superexpansion
superexpectation
superexpedite
superexplicit
superexplicitly
superexport
superexpression
superexpressive
superexpressively
superexpressiveness
superexquisite
superexquisitely
superexquisiteness
superextend
superextension
superextol
superextoll
superextreme
superextremely
superextremeness
superextremities
superextremity
superfamilies
superfamily
superfancy
superfantastic
superfantastically
superfarm
superfat
superfecta
superfecundation
superfecundity
superfee
superfemale
superfeminine
superfemininity
superfervent
superfervently
superfetate
superfetated
superfetation
superfete
superfeudation
superfibrination
superfice
superficial
superficialism
superformidable
superformidableness
superformidably
superfortunate
superfortunately
superfriendly
superfrontal
superfructified
superfulfill
superfulfillment
superfunction
superfunctional
superfuse
superfused
superfusibility
superfusible
superfusing
superfusion
supergaiety
supergalactic
supergalaxies
supergalaxy
supergallant
supergallantly
supergallantness
supergene
supergeneric
supergenerically
supergenerosity
supergenerous
supergenerously
supergenual
supergiant
superglacial
superglorious
supergloriously
supergloriousness
superglottal
superglottally
superglottic
supergoddess
supergoodness
supergovern
supergovernment
supergraduate
supergrant
supergratification
supergratified
superincumbent
superincumbently
superindependence
superindependent
superindependently
superindiction
superindictionment
superindifference
superindifferent
superindifferently
superindignant
superindignantly
superindividual
superindividualism
superindividualist
superindividually
superinduce
superinduced
superinducement
superinducing
superinduct
superinduction
superindue
superindulgence
superindulgent
superindulgently
superindustries
superindustrious
superindustriously
superindustriousness
superindustry
superinenarrable
superinfection
superinfer
superinference
superinferred
superinferring
superinfeudation
superinfinite
superinfinitely
superinfiniteness
superinfirmities
superinfirmity
superinfluence
superinfluenced
superinfluencing
superinformal
superinformalities
superinformality
superinformally
superinfuse
superinfused
superinfusing
superinfusion
upering
uperingenious
uperingeniously
uperingeniousness
uperingenuities
uperingenuity
uperinitiative
uperinjection
uperinjustice
uperinnocence
uperinnocent
uperinnocently
uperinquisitive
uperinquisitively
uperinquisitiveness
uperinsaniated
uperinscribe
uperinscribed
uperinscribing
uperinscription
uperinsist
uperinsistence
uperinsistent
uperinsistently
uperinscribed
uperinscribing
uperinstitute
uperinstitution
uperintellectual
uperintellectually
uperintend
uperintendant
uperintended
uperintendence
uperintentencies
uperintendency
uperintendent
uperintendent's
uperintendential
uperintendents
uperintendentship
uperintendent
uperintender
superintending
superintends
superintense
superintensely
superintenseness
superintensity
superintolerable
superintolerableness
superintolerably
superinundation
superinvolution
superior
superior's
superioress
superiorities
superiority
superiorly
superiorness
superiors
superiorship
superirritability
superius
superjacent
superjet
superjets
superjoined
superjudicial
superjudicially
superjunction
superjurisdiction
superjustification
superknowledge
superl
superlabial
superlaborious
superlaboriously
superlaboriousness
superlactation
superlain
superlapsarian
superlaryngeal
superlaryngeally
superlation
superlative
superlatively
superlativeness
superlatives
superlay
superlenient
superleniently
superlief
superlied
superlies
superlikelihood
superline
superliner
superload
superlocal
superlocally
superlogical
superlogicalities
superlogicality
superlogically
superloyal
superloyally
superlucky
superlunar
superlunary
superlunatical
superluxurious
superluxuriously
superluxuriousness
superlying
supermagnificent
supermagnificently
supermalate
supermale
superman
supermanhood
supermanifest
supermanism
supermanliness
supermanly
supermannish
supermarginal
supermarginally
supermarine
supermarket
supermarket's
supermarkets
supermarvelous
supermarvelously
supermarvelousness
supermasculine
supermasculinity
supermaterial
supermathematical
supermathematically
supermaxilla
supermaxillary
supermechanical
supermechanically
supermedial
supermedially
supermedicine
supermediocre
supermen
supermental
supermentality
supermentally
supermetropolitan
supermilitary
supermini
superminis
supermishap
supermixture
supermodest
supermodestly
supermoisten
supermolecular
supermolecule
supermolten
supermoral
supermorally
supermorose
supermorosely
supermoroseness
supermotility
supermundane
supermunicipal
supermuscan
supermysteries
supermystery
supernacular
supernaculum
supernal
supernalize
supernally
supernatant
supernatation
supernation
supernational
supernationalism
supernationalisms
supernationalist
supernationally
supernatural
supernaturalism
dom
supernaturality
supernaturalize
supernaturalised
dom
supernaturality
supernaturalise
supernaturalise
dom
supernaturality
supernaturalise
supernaturalise
dom
supernaturality
supernaturalise
supernaturalise
supernaturalised
supernaturalising
supernaturalising
supernatural
supernatural
supernaturality
supernaturalize
supernaturalized
supernaturalizing
supernaturally
supernaturalness
supernature
supernecessities
supernecessity
supernegligence
supernegligent
supernegligently
supernormal
supernormality
supernormally
supernormalness
supernotable
supernotable
ness
ds
supernotably
supernova
supernovae
supernovas
supernuity
supernumeral
supernumeraries
supernumerariness
supernumerary
supernumerary
ship
supernumerary
ship
supernumerous
supernumerously
supernumerousness
supernutrition
superoanterior
superobedience
superobedient
superobediently
superobede
superobject
superobjection
superobjectionable
superobjectionably
superobligation
superobstinate
superobstinately
superobstinateness
superoccipital
superoctave
superocular
superocularly
superodorsal
superexternal
superoffensive
superoffensively
superoffensiveness
superofficious
superofficiously
superofficiousness
superofrontal
superointernal
superolateral
superomedial
superoposterior
superopposition
superoptimal
superoptimist
superoratorical
superoratorically
superorbital
superordain
superorder
superordinal
superordinary
superordinate
superordinated
superordinating
superordination
superorganic
superorganism
superorganization
superorganize
superornament
superornamental
superornamentally
superosculate
superoutput
superovulation
<table>
<thead>
<tr>
<th>superoxalate</th>
</tr>
</thead>
<tbody>
<tr>
<td>superoxide</td>
</tr>
<tr>
<td>superoxygenate</td>
</tr>
<tr>
<td>superoxygenated</td>
</tr>
<tr>
<td>superoxygenating</td>
</tr>
<tr>
<td>superoxygenation</td>
</tr>
<tr>
<td>superparamount</td>
</tr>
<tr>
<td>superparasite</td>
</tr>
<tr>
<td>superparasitic</td>
</tr>
<tr>
<td>superparasitism</td>
</tr>
<tr>
<td>superparliamentary</td>
</tr>
<tr>
<td>superparticular</td>
</tr>
<tr>
<td>superpartient</td>
</tr>
<tr>
<td>superpassage</td>
</tr>
<tr>
<td>superpatience</td>
</tr>
<tr>
<td>superpatient</td>
</tr>
<tr>
<td>superpatiently</td>
</tr>
<tr>
<td>superpatriot</td>
</tr>
<tr>
<td>superpatriotic</td>
</tr>
<tr>
<td>superpatriotically</td>
</tr>
<tr>
<td>superpatriotism</td>
</tr>
<tr>
<td>superperfect</td>
</tr>
<tr>
<td>superperfection</td>
</tr>
<tr>
<td>superperfectly</td>
</tr>
<tr>
<td>superperson</td>
</tr>
<tr>
<td>superpersonal</td>
</tr>
<tr>
<td>superpersonalism</td>
</tr>
<tr>
<td>superpersonally</td>
</tr>
<tr>
<td>superpetrosal</td>
</tr>
<tr>
<td>superpetrous</td>
</tr>
<tr>
<td>superphlogisticate</td>
</tr>
<tr>
<td>superphlogistication</td>
</tr>
<tr>
<td>superphosphate</td>
</tr>
<tr>
<td>superphysical</td>
</tr>
<tr>
<td>superphysicalness</td>
</tr>
<tr>
<td>superphysicposed</td>
</tr>
<tr>
<td>superphysicposing</td>
</tr>
<tr>
<td>superpiety</td>
</tr>
<tr>
<td>superpigmentation</td>
</tr>
<tr>
<td>superpious</td>
</tr>
<tr>
<td>superpiously</td>
</tr>
<tr>
<td>superpiousness</td>
</tr>
<tr>
<td>superplant</td>
</tr>
<tr>
<td>superplausible</td>
</tr>
<tr>
<td>superplausibleness</td>
</tr>
<tr>
<td>superplausibly</td>
</tr>
<tr>
<td>superplease</td>
</tr>
<tr>
<td>superplus</td>
</tr>
</tbody>
</table>
superpolite
superpolitely
superpoliteness
superpolitic
superpolymer
superponderance
superponderancy
superponderant
superpopulated
superpopulatedly
superpopulatedness
superpopulation
superposable
superpose
superposed
superposes
superposing
superposition
superpositions
superpositive
superpositively
superpositiveness
superposition
superpower
superpowered
superpowers
superpraise
superpraised
superpraising
superprecarious
superprecariously
superprecariousness
superprecise
superprecisely
superpreciseness
superprelatical
superpreparation
superprepared
superpressure
superprinting
superprobability
superproduce
superproduced
superproducing
superproduction
superproportion
superprosperous
superpublicity
superscientifically
superscribe
superscribed
superscribes
superscribing
superscript
superscripted
superscripting
superscription
superscriptions
superscripts
superscribe
supereaman
supereamen
superecret
superecretion
superecretive
superecretively
superecretiveness
supersecular
supersecularly
supersecure
supersecurely
supersecureness
supersedable
superset
supersedes
superseded
supersedence
supersedor
supersedere
supersedes
superseding
supersedure
superoxelct
superoxelction
superoxeminate
superoxemination
superoxeminator
superoxiority
supersensible
supersensibleness
supersensibly
supersensitisation
supersensitise
supersensitised
supersensitiser
supersensitising
supersensitive
supersensitiveness
supersensitivity
supersensitization
supersensitize
supersensitized
supersensitizing
supersensory
supersensual
supersensualism
supersensualist
supersensualistic
supersensuality
supersensually
supersensuous
supersensuously
supersensuousness
supersentimental
supersentimentally
supereptal
supereptual
superseraphic
superseraphical
superseraphically
superserious
superseriously
superseriousness
superservice
superserviceable
superserviceableness
superserviceably
supersesquiterial
supersession
supersessive
superset
superset's
supersets
supersevere
superseverely
supersevereness
superseverity
supersex
supersexes
supersexual
supershipment
supersignificant
supersignificantly
supersilent
superstimulate
superstimulated
superstimulating
superstimulation
superstition
superstition's
superstitionist
superstitionless
superstitions
superstitious
superstitiously
superstitiousness
superstoical
superstoically
superstrain
superstrata
superstratum
superstratums
superstrenuous
superstrenuously
superstrenuousness
superstrict
superstrictly
superstrictness
superstrong
superstruct
superstructed
superstructuring
superstruction
superstructive
superstructor
superstructory
superstructural
superstructure
superstructures
superstuff
superstylish
superstylishly
superstylishness
 supersublimated
supersubstantial
supersubstantially
supersubstantiate
supersubtilized
superterraneous
superterrene
superterrestrial
superterrestrial
superthankful
superthankfully
superthankfulness
superthorough
superthoroughly
superthoroughness
superthyroidism
supertoleration
supertonic
supertotal
supertower
supertragedies
supertragedy
supertragic
supertragical
supertragically
supertrain
supertramp
supertranscendent
supertranscendently
supertranscendentness
supertreason
supertrivial
superhuchun
supertunic
supertutelary
superugly
superultrafrostified
superunfit
superunit
superunity
superuniversal
superuniversally
superuniversalness
superuniverse
superurgency
superurgent
superurgently
superuser
supervalue
supervalued
supervaluing
supervast
supervastly
supervastness
supervene
supervened
supervenes
supervenienc
supervenient
supervening
supervenosity
supervention
supervestment
supervexion
supervictories
supervictorious
supervictoriously
supervictoriousness
supervictory
supervigilance
supervigilant
supervigilantly
supervigorous
supervigorously
supervigorousness
supervirulent
supervirulently
supervisal
supervisance
supervise
supervised
supervisee
supervises
supervising
supervision
supervisionary
superviseive
supervisor
supervisor's
supervisorial
supervisors
supervisorship
supervisory
supervisual
supervisually
supervisure
supervital
supervitality
supervitally
supervitalness
supervive
supervolition
supervoluminous
supervoluminously
supervolute
superwager
superwealthy
superweening
supernise
supernwoman
supernwomen
supernworldliness
supernworldly
supernwrought
superyacht
supernzealous
supernzealously
supernzealousness
supes
supinate
supinated
supinates
supinating
supination
supinator
supine
supinely
supineness
supines
supinity
suplex
suporvisory
supp
suppable
suppage
supped
suppedanea
suppedaneous
suppedaneum
suppedit
suppeditate
suppeditation
supper
supper's
suppering
supperless
suppers
suppertime
supperward
supplicant
supplicanty
supplicants
supplicat
supplicate
supplicated
supplicates
supplicating
supplicatingly
supplication
supplicationer
supplications
supplicative
supplicator
supplicatory
supplicavit
suppline
supplied
supplier
suppliers
supplies
suppling
supply
supplying
suppnea
suppone
support
supportability
supportable
supportableness
supportably
supportance
supportasse
supportation
supported
supporter
supporters
supportful
supporting
supportingly
supportive
supportively
supportless
supportlessly
supportress
supports
suppos
supposable
supposableness
suposably
supposal
supposals
suppose
supposed
supposedly
supposer
supposers
supposes
supposing
suppositional
supposition
supposition's
suppositionally
suppositionary
suppositionless
suppositions
suppositious
supposititious
suposititiously
supposititiousness
suppositive
suppositively
suppositor
suppositories
suppository
suppositum
suppost
suppression
suppressive
suppress
suppressal
suppressant
suppressants
suppressed
suppressedly
suppressen
suppresser
suppresses
suppressibility
suppressible
suppressing
suppression
suppressionist
suppressions
suppressive
suppressively
suppressiveness
suppressor
suppressors
supprime
supprise
suppurant
suppurate
suppurated
suppurates
suppurating
suppuration
suppurations
suppurative
suppuratory
supputation
suppute
supr
supra
suprabasidorsal
suprabranchial
suprabuccal
supracaecal
supracargo
supracaudal
supracensorious
supracentenarian
suprachorioid
suprachorioidal
suprachorioida
suprachoroid
suprachoroidal
suprachoroidea
supraciliary
supraclavicle
supraclavicular
suprastructure
supraconduction
supraconductor
supracondylar
supracondyloid
supraconscious
supracoconsciousness
supracoralline
supracostal
supracoxal
supracranial
supracretaceous
supradecompound
supradental
supradorsal
supradural
suprafeminine
suprafine
suprafoliaceous
suprafoliar
supraglacial
supraglenoid
supraglottal
supraglottic
supragovernmental
suprahepatic
suprahistorical
suprahuman
suprahumanity
suprahypoid
supraiatic
suprailium
supraintellectual
suprainerdorsal
suprajural
supralabial
supralapsarian
supralapsarianism
supralateral
supralegal
supraliminal
supraliminally
supralinear
supralittoral
supralocal
supralocally
supraloral
supralunar
supralunary
supramammary
supramarginal
supramarine
supramastoid
supramaxilla
supramaxillary
supramaximal
suprameatal
supramechanical
supramedial
supramental
supramolecular
supramoral
supramortal
supramundane
supranasal
supranational
supranationalism
supranationalist
supranationality
supranatural
supranaturalism
supranaturalist
supranaturalistic
supranature
supranervian
supranerv
supranormal
supranuclear
supraoccipital
supraocclusion
supraocular
supraoesophagal
supraoesophageal
supraoptimal
supraoptional
supraoral
supraorbital
supraorbitar
supraordinary
supraordinate
supraordination
supraorganism
suprapapillary
suprapedal
suprapharyngeal
supraposition
supraprotest
suprapubian
suprapubic
suprapygal
supraquantivalence
supraquantivalent
suprarational
suprarationalism
suprarationality
suprarenal
suprarenalectomize
suprarenalectomy
suprarenalin
suprarenin
suprarenine
suprarimal
suprasaturate
suprascapula
suprascapular
suprascapulary
suprascript
suprasegmental
suprasensible
suprasensitive
suprasensual
suprasensuous
supraseptal
suprasolar
suprasoriferous
suprasphanoideal
supraspinal
supraspinate
supraspinatus
supraspinous
suprasquamosal
suprastandard
suprastapedial
suprastate
suprasternal
suprastigmal
suprasubtle
supratemporal
supraterraneous
supraterrestrial
suprathoracic
supratonsillar
supratrochlear
supratropical
supratympanic
supravaginal
supraventricular
supraversion
supravise
supravital
supravitally
supraworld
supremacies
supremacist
surquidy
surra
surrab
surras
surreal
surrealism
surrealist
surrealistic
surrealistically
surrealists
surrebound
surrebut
surrebutal
surrebutter
surrebutting
surrection
surrein
surrejoin
surrejinder
surrejoinder
surrejoinders
surrenalen
surrender
surrendered
surrenderee
surrenderer
surrendering
surrenderor
surrenders
surrendry
surrept
surreption
surreptitious
surreptitiously
surreptitiousness
surreverence
surreverently
surrey
surreys
surrogacies
surrogacy
surrogate
surrogate's
surrogated
surrogates
surrogateship
surrogating
surrogation
surrosion
survivable  
survival  
survivalism  
survivalist  
survivals  
survivance  
survivancy  
survivant  
surve  
survived  
surviver  
survivers  
survives  
surviving  
survivor  
survivor's  
survivore  
survivors  
survivorship  
surwan  
susan  
susane  
susannite  
susans  
suscept  
susceptance  
susceptibilities  
susceptibility  
susceptible  
susceptibleness  
susceptibly  
susception  
susceptive  
susceptiveness  
susceptivity  
susceptor  
suscipient  
suscitate  
suscitation  
suscite  
sushi  
susi  
suslik  
susliks  
susotoxin  
suspect  
spectable  
spected
suspicionful
suspicioning
suspicionless
suspicions
suspicious
suspiciously
suspiciousness
suspiral
suspiration
suspiratious
suspirative
suspire
suspired
suspires
suspiring
suspirious
suss
sussex
sussexite
susso
sussultatory
sussultorial
ussy
sustain
sustainable
sustained
sustainedly
sustainer
sustaining
sustainingly
sustainment
sustains
sustainedly
sustenance
sustenanceless
sustenant
sustentacula
sustentacular
sustentaculum
sustentate
sustentation
sustentational
sustentative
sustentator
sustention
sustentive
sustentor
sustinent
sus
susurr
susurrant
susurrate
susurrated
susurrating
susurration
susurrations
susurringly
susurrous
susurrus
susurruses
suterberries
suterberry
suterbery
suther
sutile
sutler
sutlerage
suteress
sutlers
sutlership
sutlery
sutor
sutoria
sutorial
sutorian
sutorious
sutra
sutras
sutta
suttas
suttee
sutteeism
sutees
sutten
sutter
suttin
suttle
sutural
suturally
suturation
suture
sutured
sutures
suturing
suum
suwarro
swaimous
swain
swain's
swainish
swainishness
swainmote
swains
swainship
swainsona
swaird
swale
swaler
swales
swaling
swalingly
swallet
swallo
swallow
swallowable
swallowed
swaller
swallowing
swallowlike
swallowling
swallowpipe
swallows
swallowtail
swallowtailed
swallowtails
swallowwort
swam
swami
swamies
swamis
swamp
swampable
swampberries
swampberry
swamped
swamper
swampers
swamphen
swampier
swampiest
swampine
swampiness
swamping
swampish
swampishness
swampland
swampless
swamps
swampside
swampweed
swampwood
swampy
swamy
swan
swan's
swandown
swanflower
swang
swangy
swanherd
swanherds
swanhood
swanimote
swank
swanked
swanker
swankest
swankey
swankie
swankier
swankiest
swankily
swankiness
swanking
swankiness
swankpot
swanks
swanky
swanlike
swanmark
swanmarker
swanmarking
swanmote
swanneck
swannecked
swanned
swanner
swanneries
swannery
swannet
swanning
swannish
swanny
swanpan
swanpans
swans
swansdown
swanskin
swanskins
swanweed
swanwort
swap
swape
swapped
swapper
swappers
swapping
swaps
swaraj
swarajes
swarajism
swarajist
swarbie
ward
warded
warding
wards
wardy
ware
warf
warfer
warfs
swarga
warm
warmed
warmer
warmers
swarming
swarmingness
warms
warmy
warry
wart
wartback
warth
warthier
wartiest
warthily
warthiness
warthness
swarths
swarthy
swartish
swartly
swartness
swartrutter
swartrutting
swarty
swartzite
swarve
swash
swashbuckle
swashbuckler
swashbucklerdom
swashbucklering
swashbucklers
swashbucklery
swashbuckling
swashed
swasher
swashers
swashes
swashing
swashingly
swashway
swashwork
swashy
swastic
swasticas
swastika
swastikaed
swastikas
swat
swatch
swatcher
swatches
swatchway
swath
swathable
swathband
swathe
swatheable
swathed
swather
swathers
swathes
swathing
swaths
sweatless
sweatproof
sweats
sweatshirt
sweatshop
sweatshops
sweatweed
sweaty
swede
sweden
swedenborgian
swedes
swedge
swedger
swedish
swedru
sweenies
sweens
sweeny
sweep
sweepable
sweepage
sweepback
sweepboard
sweepdom
sweeper
sweeperess
sweepers
sweepforward
sweeper
sweepiest
sweeping
sweepingly
sweepingness
sweepings
sweeps
sweepstake
sweepstakes
sweepup
sweepwasher
sweepwashings
sweepy
sweer
sweered
sweert
sweese
sweeswee
sweet
sweetbells
sweetberry
sweetbread
sweetbreads
sweetbriar
sweetbrier
sweetbriers
sweetbriery
sweetclover
sweeten
sweetened
sweetener
sweeteners
sweetening
sweetenings
sweetens
sweetener
sweetest
sweetfish
sweetful
sweetheart
sweetheart's
sweetheartdom
sweethearted
sweetheartedness
sweethearting
sweethearts
sweetheartship
sweetie
sweeties
sweetiewife
sweeting
sweetings
sweetish
sweetishly
sweetishness
sweetkins
sweetleaf
sweetless
sweetlike
sweetling
sweetly
sweetmaker
sweetman
sweetmeal
sweetmeat
sweetmeats
sweetmouthed
sweetness
sweetroot
sweets
sweetshop
sweetsome
sweetsop
sweetops
sweetwater
sweetweed
sweetwood
sweetwort
sweety
swego
swelchie
swell
swellage
swelldom
swelldoodle
swelled
sweller
swellest
swellfish
swellfishes
swellhead
swellheaded
swellheadedness
swellheads
swelling
swellings
swellish
swellishness
swellmobsman
swellness
swells
swelload
swelly
swelp
swelt
swelt
swelter
sweltered
swelterer
sweltering
swelteringly
swelters
swelth
swelth
sweltier
sweltiest
sweltry
swelty
swept
sweptback
sweptwing
swerd
swervable
swerve
swerved
swerveless
swerver
swervers
swerves
swervily
swerving
sweven
swevens
swick
swidden
swidge
swift
swiften
swifter
swifters
swiftest
swiftfoot
swiftian
swiftie
swiftlet
swiftlier
swiftliest
swiftlike
swiftly
swiftness
swifts
swifty
swig
swigged
swigger
swiggers
swigging
swiggle
swigs
swile
swilkie
swill
swillbelly
swillbowl
swivets
swivetty
swiving
swiwet
swiz
swizz
swizzle
swizzled
swizzler
swizzlers
swizzes
swizzling
swleaves
swob
swobbled
swobber
swobbers
swobbing
swobs
swollen
swollenly
swolleness
swoln
swom
swonk
swonken
swoon
swooned
swooner
swooners
swooning
swooningly
swoons
swoony
swoop
swooped
swooper
swoopers
swooping
swoops
swoopstake
swoose
swooses
swoosh
swooshed
swooshes
swooshing
swop
sycomore
sycomores
sycon
syconarian
syconate
sycones
syconia
syconid
syconium
syconoid
syconus
sycophans
sycophansy
sycophant
sycophantic
sycophantical
sycophantically
sycophantish
sycophantishly
sycophantism
sycophantize
sycophantly
sycophantry
sycophants
sycoes
sycosiform
sycosis
syddir
sydney
sye
syed
syenite
syenites
syenitic
syenodiorite
syenogabbro
syftn
syke
sykerly
sykes
syl
sylene
sylid
sylng
sylistically
syl
sylab
sylabaria
syllabaries
syllabarium
syllabary
syllabatim
syllabation
syllabe
syllabi
syllabic
syllabical
syllabically
syllabicate
syllabicated
syllabicking
syllabication
syllabication
syllabic
syllabic
syllabicity
syllabicness
syllabics
syllabifications
syllabifications
syllabified
syllabifies
syllabify
syllabifying
syllabise
syllabised
syllabising
syllabism
syllabize
syllabized
syllabizing
syllable
syllable's
syllabled
syllables
syllabling
syllabogram
syllabography
syllabub
syllabubs
syllabus
syllabuses
syllepses
syllepsis
syleptic
syleptical
syleptically
sylhid
sylhidian
sylvian
sylvic
sylvicoline
sylviculture
sylvid
sylviine
sylvin
sylvine
sylvines
sylvinite
sylvins
sylvite
sylvites
sylvius
sym
symbasic
symbasical
symbasically
symbasis
symbiogenesis
symbiogenetic
symbiogenetically
symbion
symbionic
symbions
symbiont
symbiotic
symbioticism
symbionts
symbioses
symbiosis
symbiot
symbiote
symbiotes
symbiotic
symbiatical
symbiotically
symbiotics
symbiotism
symbiotrophic
symbiots
symblepharon
symbol
symbol's
symbolaeography
symbolater
symbolatrous
symbolatry
symboled
symbolic
symbolical
symbolically
symbolicalness
symbolicly
symbolics
symboling
symbolisation
symbolise
symbolised
symbolising
symbolism
symbolisms
symbolist
symbolistic
symbolistical
symbolistically
symbolization
symbolisations
symbolize
symbolized
symbolizer
symbolizes
symbolizing
symbolled
symbolling
symbolofideism
symbological
symbolologist
symbolography
symbolology
symbololatry
symbolology
symbolry
symbols
symbolum
symbouleutic
symbranch
symbranchiate
symbranchoid
symbranchous
symmachy
symmedian
symmelia
symmelian
symmelus
symmetalism
symmetallism
symmetral
symmetrian
symmetric
symmetrical
symmetricality
symmetrically
symmetricalness
symmetries
symmetrisation
symmetrise
symmetrised
symmetrising
symmetrist
symmetrization
symmetrize
symmetrized
symmetrizing
symmetroid
symmetrophobia
symmetry
symmetry's
symmist
symmorphic
symmorphism
symmory
sympalmograph
sympathectomize
sympathectomy
sympathetectomies
sympathetectomy
sympathetic
sympathetical
sympathetically
sympatheticism
sympatheticity
sympatheticness
sympatheticotonia
sympatheticotonic
sympathetoblast
sympathic
sympathicoblast
sympathicotonia
sympathicotonic
sympathicotripsy
sympathies
sympathin
sympathique
sympathise
sympathised
sympathiser
sympathising
sympathisingly
sympathism
sympathist
sympathize
sympathized
sympathizer
sympathizers
sympathizes
sympathizing
sympathizingly
sympathoblast
sympatholysis
sympatholytic
sympathomimetic
sympathy
sympathy's
sympatric
sympatrically
sympatries
sympatry
sympetalous
sympetaly
symphenomena
symphenomenal
symphile
symphilic
symphilism
symphilous
symphily
symphogenous
symphonetic
symphonette
symphonia
symphonic
symphonically
symphonies
symphonion
symphonious
symphoniously
symphonisation
symphonise
symphonised
symphonising
symphonist
symphonization
symphonize
symphonized
symphonizing
symphonous
symphony
symphony's
symphoricarpous
symphrase
symphonistic
symphyantherous
symphycarpous
symphylan
symphyllous
symphyllous
symphynote
symphyogonality
symphyogenetic
symphyostemonous
symphyoseal
symphyseotomy
symphyses
symphysial
symphysian
symphysic
symphysion
symphysioto
symphysis
symphysodactylyia
symphysotomy
symphystic
symphytic
symphytically
symphytism
symphytize
sympiesometer
symplasm
symplast
symplectic
symplesite
symplacaceous
symbole
sympoleum
sympolium
sympolcos
sympole
sympodia
sympodial
synaesthetic
synagog
synagogal
synagogian
synagogical
synagogism
synagogist
synagogs
synagogue
synagogues
synalepha
synalephe
synalgia
synalgic
synallactic
synallagmatic
synallaxine
synaloepha
synaloephe
synanastomosis
synange
synangia
synangial
synangic
synangium
synanthema
synantherological
synantherologist
synantherology
synantherous
synanthesis
synanthetic
synanthic
synanthous
synanthrose
synanthy
synaphe
synaphea
synapheia
synaposematic
synapse
synapse's
synapsed
synapses
synapsid
synapsidan
synapsing
synapss
syncarpous
syncarps
syncarpy
syncaryon
syncategorem
syncategorematic
syncategorematical
syncategorematically
syncategoreme
synced
syncellus
syncephalic
syncephalus
syncerebral
syncerebrum
synch
synched
synching
synchitic
synchondoses
synchondrosial
synchondrosially
synchondrosis
synchondrotomy
synchoresis
synchro
synchrocyclotron
synchroflash
synchromesh
synchromism
synchromist
synchro
synchro
synchro
synchro
synchronal
synchrone
synchroneity
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
synchro
syncerebral
syncerebrum
synchronization
synchronize
synchronized
synchronizer
synchronizers
synchronizes
synchronizing
synchronograph
synchronological
synchronology
synchronoscope
synchronous
synchronously
synchronousness
synchrony
synchros
synchroscope
synchrotron
synchs
synchysis
syncing
syncladous
synclastic
synclinal
synclinally
syncline
synclines
synclinal
synclinore
synclinorial
synclinorian
synclinorium
synclitic
syncliticism
synclitism
syncoelom
syncom
syncoms
syncopal
syncopare
syncopate
syncopated
syncopates
syncopating
syncopation
syncopations
syncopative
syncopator
syncope
syncopes
syncopic
syncopism
syncopist
syncopize
syncotyledonous
syncracy
syncraniate
syncranterian
syncranteric
syncrasy
syncretic
syncretical
syncreticism
syncretion
syncretism
syncretist
syncretistic
syncretistical
syncretize
syncretized
syncretizing
syncrasis
syncryptic
syncs
syncytia
syncytial
syncytoma
syncytomias
syncytomata
syncytium
synd
syndactyl
syndactyle
syndactyli
syndactyla
syndactylic
syndactylism
syndactylous
syndactylus
syndactyly
syndectomy
synderesis
syndeses
syndesis
syndesises
syndesmectopia
syndesmies
syndesmitis
syndesmography
syndesmology
syndesmoma
syndesmoplasty
syndesmorrhaphy
syndesmoses
syndesmosis
syndemotic
syndemotony
syndet
syndetric
syndetica
syndetically
syndeton
syndets
syndic
syndical
syndicalism
syndicalist
syndicalistic
syndicalize
syndicat
syndicate
syndicated
syndicateer
syndicates
syndicating
syndication
syndications
syndicator
syndics
syndieship
syndiotactic
syndoc
syndrome
syndrome's
syndromes
syndromic
syndyasmian
syne
synecdochrome
synecdochic
synecdochical
synecdychically
synecdychism
synechdochism
synechia
synechiae
synechiological
synechiology
synechist
synechistic
synechological
synechology
synechotomy
synechthran
synechthry
synecious
synecologic
synecological
synecologically
synecology
synecphonesis
synectic
synectically
synecticity
synectics
synedral
synedria
synedral
synedriam
synedrian
synedriion
synedrium
synedrous
syneidesis
synema
synemata
synemmenon
synenergistic
synenergistical
synenergistically
synentognath
synentognathous
synephrine
syneresis
synergastic
synergetic
synergia
synergias
synergic
synergical
synergically
synergid
synergidae
synergidal
synergids
synergies
synergism
synergisms
synergist
synergistic
synergistical
synergistically
synergists
synergize
synergy
synerize
synesis
synesises
synesthesia
synesthetic
synethic
synetic
synezisis
synfuel
synfuels
syngamic
syngamies
syngamous
syngamy
syngeneic
syngenesia
syngenesian
syngenesious
syngenesisis
syngenesis
syngenetic
syngenics
syngenism
syngenite
syngnathid
sygnathoid
syngnathous
syngraph
synizesis
synkaryon
synkaryonic
synkatathesis
synkinesia
synkinesis
synkinetic
synnema
synnemata
synonymicon
synonymics
synonymies
synonymise
synonymised
synonymising
synonymist
synonymity
synonymize
synonymized
synonymizing
synonymous
synonymously
synonymousness
synonyms
synonymy
synop
synophthalmia
synophthalmus
synopeses
synoptic
synopsis
synopsise
synopsised
synopsising
synopsize
synopsized
synopsizing
synopsy
synoptic
synoptical
synoptically
synoptist
synoptistic
synorchidism
synorchism
synorthographic
synostology
synosteses
synostosis
synostose
synostoses
synostosis
synostotic
synostotical
synostotically
synousiacs
synovectomy
synovia
synovial
synovially
synovias
synoviparous
synovitic
synovitis
synpelmous
synrhadosome
synsacral
synsacrum
synsepalous
synspermous
synspernum
synsporous
syntactially
syntactic
syntactical
syntactically
syntactician
syntactics
syntagm
syntagma
syntalities
syntality
syntan
syntasis
syntax
syntaxes
syntaxis
syntaxist
syntechnic
syntecic
syntectical
syntelome
syntenosis
synteresis
syntesis
syntheme
synthermal
syntheses
synthesis
synthesise
synthesism
synthesist
synthesization
synthesize
synthesized
synthesizer
syntrophic
syntrophoblast
syntrophoblastic
syntropic
syntropical
syntropy
syntype
syntypic
syntypicism
synura
synurae
synusia
synusiast
syodicon
syph
sypher
syphered
syphering
syphers
syphilid
syphilide
syphilidography
syphilidologist
syphiliphobia
syphilis
syphilisation
syphilise
syphilises
syphilitic
syphilitically
syphilitics
syphilization
syphilize
syphilized
syphilizing
syphiloderm
syphilodermatous
syphilogenesis
syphilogeny
syphilographer
syphilography
syphiloid
syphilologist
syphilology
syphiloma
syphilomatous
syphilophobe
syphilophobia
syphilophobic
syphilopsychosis
syphilosis
syphilous
syphon
syphoned
syphoning
syphons
syr
syracusian
syracuse
syre
syren
syrens
syrrette
syria
syriac
syrian
syrians
syriarch
syriasm
syringa
syringadenous
syringas
syringe
syringeal
syringed
syringeful
syringes
syringing
syringitis
syringium
syringocele
syringocoele
syringomyelia
syringomyelic
syringotome
syringotomy
syrinx
syrinxes
syrma
syrmaea
syrophoenician
syrophian
syrophians
syrophid
syrophids
syrophus
tachinarian
tachinid
tachinids
tachiol
tachism
tachisme
tachisms
tachist
tachiste
tachistes
tachistoscope
tachistoscopic
tachistoscopically
tachists
tachogram
tachograph
tachometer
tachometer's
tachometers
tachometric
tachometry
tachophobia
tachoscope
tachs
tachyauxesis
tachyauxetic
tachycardia
tachycardiac
tachygen
tachygenesis
tachygenetic
tachygenic
tachyglossal
tachyglossate
tachygraph
tachygrapher
tachygraphic
tachygraphical
tachygraphically
tachygraphist
tachygraphometer
tachygraphometry
tachygraphy
tachyhydrite
tachyiatriy
tachylalia
tachylite
tachylyte
tachylytic
tachymeter
tachymetric
tachymetry
tachyon
tachyphagia
tachyphasia
tachyphemia
tachyphrasia
tachyphrenia
tachyphylactic
tachyphylaxia
tachyphylaxis
tachypnea
tachypneic
tachypnoea
tachypnoeic
tachyscope
tachyseism
tachysterol
tachysystole
tachytelic
tachytely
tachythanatous
tachytomy
tachytype
tacit	acitean	acitly	 tacitness	 taciturn	 taciturnist	 taciturnities	 taciturnity	 taciturnly	 tack	 tackboard	 tacked	 tacker	 tackers	 tacket	 tacketed	 tackets	 tackety	 tackey	 tackier	 tackies	 tackiest
tactilely
tactilist
tactilities
tactility
tactilogical
tactinvariant
taction
tactions
tactite	
tactive
tactless
tactlessly
tactlessness
tactoid
tactometer	
tactor
tactosol
tacts
tactual
tactualist
tactuality
tactually
tactus	
tacuacine
tad
tadhava
tade
tadpole
tadpoledom
tadpolehood
tadpolelike
tadpoles
tadpolism
tads
tae
tael
tails
taen
taenia
taeniacidal
taeniacide
taeniae
taeniafuge
taenial
taenian
taenias
taeniasis
taeniate
taenicide
taenidia
taenidial
taenidium
taeniform
taenifuge
taeniiform
taeninidia
taeniobranchiate
taenioglossate
taeniod
taeniola
taeniosome
taeniosomous
taenite
taennin
taffarel
taffarels
tafferel
tafferels
taffeta
taffetas
taffetized
taffety
taffia
taffias
taffies
taffle
taffrail
taffrails
taffy
tafflylike
taffymaker
taffymaking
taffywise
tafia
tafias
tafinagh
taft
tafwiz
tag
tag's
tagalog
tagalogs
tagalong
tagalongs	agasaste
tagatose
tagboard
tagboards
tagel
tagetol
tagetone
tagged
tagger
taggers
tagging
taggle
taggy
taghairm
tagilite
taglet
taglia
tagliarini
tagliatelle
taglike
taglioni
taglock
tagmeme
tagmemes
tagmemic
tagmemics
tagnicati
tagrag
tagraggery
tagrags
tags
tagsoare
tagster
tagtail
tagua
taguan
tagus
tagwerk	aha	ahali	ahanun	ahar	aharah
taheen	ahgoook	ahil	ahin	ahina	ahiti	ahitian
tailge  
tailgunner  
tailhead  
tailing  
tailings  
taille  
tailles  
tailless  
taillessly  
taillessness  
tailleur  
tailie  
taillight  
taillights  
taillike  
tailloir  
tailor  
tailorage  
tailorbird  
tailorcrafter  
tailordom  
tailed  
tailoress  
tailorhood  
tailoring  
tailorism  
tailorization  
tailorize  
tailorless  
tailorlike  
tailorly  
tailorman  
tailors  
tailorship  
tailorwise  
tailory  
tailpiece  
tailpin  
tailpipe  
tailpipes  
tailplane  
tailrace  
tailraces  
tails  
tailshaft  
tailsheet  
tailskid  
tailskids
talismanically
talismanist
talismanni
talismans
talite
talitol
talk
talkability
talkable
talkathon
talkative
talkatively
talkativeness
talked
talkee
talker
talkers
talkfest
talkful
talkie
talkier
talkies
talkiest
talkiness
talking
talkings
talks
talkworthy
talky
tal
tallage
tallageability
tallageable
tallaged
tallages
tallaging
tallahassee
tallaisim
tallaism
tallapoi
tallate
tallboy
tallboys
tallegalane	aller	allero	alles	allest
tallet
talli
talliable
talliage
talliar
talliate
talliated
talliating
talliatum
tallied
tallier
talliers
tallies
tallis
tallish
tallit
tallith
tallithes
tallithim
tallitoth
tallness
tallnesses
talloel
talol
tallois
tallote
tallow
tallowberries
tallowberry
tallowed
tallower
tallowiness
tallowing
tallowish
tallowlike
tallowmaker
tallowmaking
tallowman
tallowroot
tallows
tallowweed
tallowwood
tallowy
tallwood
tally
tallyho
tallyho'd
tallyhoed
tamasha
tamashas
tamasic
tambac
tambacs
tambala
tambalas																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
tamelessness
tamely
tameness
tamenesses
tamer
tamers
tames
tamest
tamidine
tamil
tamine	aming	aminy	amis	amise	amises	amlung	ammany	ammar	ammie	ammies	tammock	tammuz	ammy
tamp	tampa	tampala	tampalas	tampan	tampang	tampans	tamped	tamper	tampered	tamperer	tamperers	tampering	tamperproof	 tampers	 tampin	 tamping	 tampion	 tampioned	 tampions	 tampoe
tampon	tamponade
tamponage
tamponed
tamponing
tamponment
tampons
tampoon
tampoy
tamps
tampur	
tams
tamure
tan
tana
tanacetin
tanacetone
tanacetyl
tanach
tanadar
tanager
tanagers
tanagra
tanagrine
tanagroid
tanaist
tanak
tanan
tanbark
tanbarks
tanbur	
tancel		
tanchoir
tandan
	
tandava	
tandem
tandemer
tandemist	
tandemize
tandems
tandemwise
tandle
tandoor
tandoori
tandour
tandsticka
tandstickor	
tane
tanega
tanekea
tang
tanga
tangalung
tangantangan
tanged
tangeite
tangelo
tangelos
tangence
tagences
tagencies	
tagency	
tagent
tagent's
tagental
tagentially
tagential
	
tagentiality
	
tagentially
	
tagently
	
tagents

tagier
tanger
tangerine
tangerines
tangfish
tangishes
tangham
tanghan
tanghine
tanghinein
tangi
tangibile
tagibility
tagible

tagibleness
tagibles
tagibly
tagie

tagier
tagiest
tagile

tagilin
taginess
taging
tagka
taglad
tagle
tangle

tagleberries
tangleberry
tangled
tanglefish
tanglefishes
tanglefoot
tanglehead
tanglement
tangleproof
tangler
tangleroot
tanglers
tangles
tanglesome
tangless
tanglewrack
tanglier
tangliest
tangling	
tanglingly	
tangly	
tango	
tangoed	
tangoing	
tangoreceptor	
tangos	
tangram	
tangrams	
tangs	
tangue	
tanguile	
tanguin	
tangum	
tangun	
tangy	
tanh	
tanha	
tanhouse	
tania	
tanica	
tanier	
taniko	
taniness	
tanist	
tanistic	
tanistries	
tanistry	
tanists	
tanistship
tanjib
tanjong
tank
tanka
tankage
tankages
tankah
tankard
tankards	
tankas	
tanked	
tanker
tankerabogus
tankers
tankert
tankette
tankful
tankfuls
tankie
tanking
tankka
tankle
tankless
tanklike
tankmaker
tankmaking
tankman
tankodrome
tankroom
tanks
tankship
tankships
tankwise
tanling
tanna
tannable
tannadar
tannage
tannages
tannaic
tannaim
tannaitic
tannalbin
tannase
tannate
tannates
tanned
tanner
tantalised
tantaliser
tantalising
tantalisingly
tantalite
tantalization
tantalize
tantalized
tantalizer
tantalizers
tantalizes
tantalizing
tantalizingly
tantalizingness
tantalofluoride
tantalous
tantalum
tantalums
tantalus
tantaluses
tantamount
tantara
tantarabobus
tantarara
tantaras
tantawy
tanti
tantieme
tantivies
tantivy
tantle
tanto
tantony
tantra
tantras
tantric
tantrik
tantrism
tantrist
tantrum
tantrum's
tantrums
tantum
tanwood
tanworks			
tanyard
tanyards
tanystomatous
tanystome
tanzania
tanzanian
tanzanians
tanzanite
tanzeb
tanzib	
tanzy	
tao
taoism
taoist
taoists
taoiya
taos
taotai
taoyin
tap
tap's
tapa
tapacolo
tapaculo
tapaculos
tapadera
tapaderas
tapadero
tapaderos
tapalo
tapalos
tapamaker
tapamaking
tapas
tapasvi
tapayaxin
tape
tapecopy
taped
tapedrives
tapeinocephalic
tapeinocephalism
tapeinocephaly
tapeless
tapelike
tapeline
tapelines
tapemaker
tapemaking
tapeman
tapemarks
taping
tapings
tapinocephalic
tapinocephaly
tapinophobia
tapinophoby
tapinosis
tapioca
tapiocas
tapiolite
tapir
tapiridian
tapirine
tapiroid
tapirs	
tapis	
tapiser
tapises
tapism
tapisser
tapisserie
tapissery
tapissier
tapist
tapit
taplash
taplet
tapling
tapmost
tapnet
tapoa
tapotement
tapoun
tappa
tappable
tappableness
tappall
tappaul
tapped
tappen
tapper
tapper's
tapperer
tappers
tappet
tappets
tappietoorie
tapping
tarantulary
tarantulas
tarantulated
tarantulid
tarantulism
tarantulite
tarantulous
tarapatch
tarap

tarapatch
taraph
tarapin
tarassis
tarata
taratah
taratantara
taratantarize
tarau
taraxacerin
taraxacin
taraxacum
tarbadillo
tarbagan
tarbet
tarble
tarboard
tarbogan
tarboggin
tarboosh
tarbooshed
tarbooshes
tarbox
tarboy
tarbrush
tarbrush

tarbushes
tarbuttite
tarcel
tarchon
tardamente
tardando
tardant
tarde
tardier
tardies
tardiest
tardigrade
tardigrados
tardiloquent
tardiloquous
tardiloquy
tardily
tardiness
tarditude
tardity
tardive
tardle	
tardo
tardy
tare	
tarea	
tared
tarefa
tarefa
tarefitch
tarentala
tarente
tarentism
tarentola
tarepatch
tares
tarfa
tarflower
targe	
targed	
targeman	
targer
targes
target
targeted
targeteer	
targetier	
targeting	
targetless	
targetlike	
targetman
targets
targetshooter	
targing	
targum	
tarheel	
tarhood	
tari	
tarie	
tariff	
tariff’s	
tariffable	
tariffed	
tariffication
tariffing
.tariffism
.tariffist
.tariffite
.tariffize
.tariffless
.tariffs
.tarin
.taring
.tarika
.tariqat
.tariric
.taririnic
.tarish
.tarikashi
.tarkeean
.taruhan
.tarlatan
.tarlataned
.tarlatans
.tarleather
.tarletan
.tarletans
.tarlies
.tarlike
.tariltonize
.tarmac
.tarmacadam
.tarmacs
.tarman
.tarmined
.tarmosined
.tar
.tarnal
.tarally
.tarnation
.tarnish
.tarnishable
.tarnishered
.tarnisher
.tarnings
.tarning
.tarningsment
.tarnishproof
.tarنكappe
.tarlike
.tarns
.tarntside
tarries
tarriest	
tarrify
tarrily
tarring	
tarrish	
tarrock	
tarrow	
tarry

tarryiest	
tarrying	
tarryingly	
tarryingness	
tars	
tarsadenitis	
tarsal	
tarsale	
tarsalgia	
tarsalia	
tarsals	
tarse	
tarsectomy	
tarsectopia	
tarsi	
tarsia	
tarsias	
tarsi	
tarsioid	
tarsitis	
tarsochiloplasty	
tarsoclasis	
tarsomalacia	
tarsome	
tarsometatarsal	
tarsometatarsi	
tarsometatarsus	
tarsonemid	
tarsophalangeal	
tarsophyma	
tarsoplasia	
tarsoplasty	
tarsoptosis	
tarsorrhaphy	
tarsotarsal	
tarsotibial	
tarsotony
tattily
tattiness
tatting
tattings
tattle
tattled
tattlement
tattler
tattlers
tattlery
tattles

tattletale
tattletales
tattling
tattlingly
tattoo
tattooage
tattooed
tattooer
tattooers
tattooing
tattooist
tattooists
tattooment
tattoos
tattva
tatty
tatu
tatuasu	
tatukira
tau
taube
taught
taula
taulch
taulia
taum
taun
taunt
taunted
taunter
taunters
taunting
tauntingly
tauntingness
tauntress
taunts
taupe
taupes
taupo
taupou
taur
tauranga
taurean
taurian
tauric
tauricide
tauricornous
taurid
tauriferous
tauriform
taurin
taurine
taurines
taurite
taurobolia
taurobolium
tauroboly
taurocephalous
taurocholate
taurocholic
taurocol
taurocolla
taurodont
tauroesque
taurokathapsia
taurolatry
tauromachia
tauromachian
tauromachic
tauromachy
tauromaquia
tauromorphic
tauromorphous
taurophile
taurophobe
taurophobia
taurus
tauruses
tauryl
taurylc
taus
taut
tautaug
tautaugs
tauted
tautegorical
tautegory
tauten
tautened
tautening
tautens
tauter
tautest
tauting
tautirite
tautit
tautly
tautness
tautnesses
tautochrone
tautochronism
tautochronous
tautog
tautogs
autoisomerism
tautologic
tautological
tautologically
tautologicalness
tautologies
tautologise
tautologised
tautologising
tautologism
tautologist
tautologize
tautologized
tautologizer
tautologizing
tautologous
tautologously
tautology
tautology's
tautomer
tautomeral
tautomeric
tautomerism
tautomerizable
tautomerization
tautomerize
tautomerized
tautomerizing
tautomers
tavolatite
tavoy
tavs
taw
tawa
tawdered
tawdrier
tawdries
taw driest
tawdrily
tawdriness
tawdry
tawed
tawer
tawers
tawery
tawah
tawhid
tawie
tawing
tawite
tawkee
tawkin
tawn
tawneier
taw neiest
tawney
tawneys
tawnie
tawnier
tawnies
tawni est
tawniely
tawniness
tawnle
tawny
tawpi
tawpie
tawpies
tawpy
taws
tawse
taw sed
taw ses
taw sing
tawtie
tawyer
tax
taxa
taxability
taxable
taxableness
taxables
taxably
taxaceous
taxameter
taxaspidean
taxation
taxational
taxations
taxative
taxatively
taxator
taxeater
taxeating
taxed
taxeme
taxemes
taxemic
taxeopod
taxeopodous
taxeopody
taxer
taxers
taxes
taxgatherer
taxgathering
taxi
taxiable
taxiarch
taxiauto
taxibus
taxicab
taxicab's
taxicabs
taxicorn
taxidermal
taxidermic
taxidermist
taxidermists
taxidermize
taxidermy
taxidriver
taxied
taxies
taxiing
taxying
tay
tayassu
tayassuid
tayer
tayir
taylorite
tayra
taysaam
taysmm
tazeea
tazia
tazza
tazzas
tazze
tb
tbs
tbsp
tbsaraglot
tc
tch
tchai
tchaikovsky
tchapan
tcharik
tchast
tche
tcheckup
tcheirek
tcheka
tchervonets
tchervonetz
tchervontzi
tchetvert
tchick
tchincou
tchr
tchu
tck
tdr
te
tea
teberry
teaberry
teaboard
teaboads
teabowl
teabowls
teaseableness
teaseably
teased
teasehole
teasel
teaseled
teeseler
teeselers
teeseling
teeselled
teeseller
teesellike
teeselling
teesels
teeselwort
teasement
teaser
teesers
teases
teashop
teehops
teasiness
teasing
teasingly
teasle
teesler
teeaspoon
teeaspoon's
teeaspoonful
teeaspoonful's
teeaspoonfuls
teeeaspoons
teeaspoonsful
teeasy
teeat
teeataster
teated
teeatfish
teeathe
teeather
teeatime
teeatimes
teeatlike
teeatling
teeatman
teeats
teeaty
teeave
tecnology
tecomin
tecol
fecta
tectal
tectibranch
tectibranchian
tectibranchiate
tectiform
tectocephalic
tectocephaly
tectological
tectology
tectonic
tectonically
tectonics
tectonism	
tectorial
tectorium
tectosphere
tectospinal
tectospondylic
tectospondylosous
tectrices
tectricial
tectrix
tectum
tecture
tecum	
tecuma
ted
tedded
tedder
tedders
teddies
tedding
teddy
tedesca
tedescan
tedesche
tedeschi
tedesco
tedge
tediosity
tedious
tediously	
tediousness
tediousome
teepees
teer
teerer
tees
test
teat
teataller
teatan
tee
tee
tee
teeboard
teeered
teeerer
teeering
teeeringly
teeers
teeertail
teeery
tee
teeache
teebrush
teehe
teehed
teeher
teethers
teethes
teeful
teehier
teehiest
teehily
teehing
teehings
teehless
teehlike
teehridge
teehy
teeing
teeotal
teeotald
teeotaler
teeotalers
teeotaling
teeotalism
teeotalist
teeotalled
teeotaller
teeotalling
teeotally
teetotals
teetotum
teetotumism
teetotumize
teetotums
teetotumwise
teetsook
teety
teevee
teewhaap
tef
teff
teffs
tefillin
teflon
teg
tega
tegg
tegmen
tegment
tegmenta
tegmental
tegmentum
tegmina
tegmental
tegmenta
tegs
tegua
teguas
tegues
teguexin
teguguria
tegula
tegulae
tegular
tegularly
tegulated
tegumen
tegument
tegumenta
tegumental
tegumentary
teguments
tegumentum
tegumina
teguria
tegurium
tehhe
tehheran
tehseel
tehseeldar
tehsil
tehsildar
teicher
teichopsia
teiglach
teiglech
teihte
teiid
teids
teil
teind
teindable
teinder
teinds
teinland
teinoscope
teioid
teise
tejano
tejon
teju
tekedye
tekiah
tekke
tekken
teknonymous
teknonymously
teknonomy
tektite
tektites
tektitic
tektos
tektosi
tektosil
tektosilicate
tekya
tel
tela
telacoustic
telae
telaesthesia
telaesthetic
telakucha
telamon
telamones
telang
telangiectases
teleianthous
teleiosis
telekinematography
telekineses
telekinesis
telekinetic
telekinetically
telelectric
teleelectrograph
telelectroscope
telelens
telemachus
teleman
telemanometer
telemark
telemarks
telemechanic
telemechanics
telemechanism
telemen
telemetacarpal
telemeteorograph
telemeteorographic
telemeteorography
telemeter
telemetered
telemetering
telemeters
telemetric
telemetrical
telemetrically
telemetries
telemetrist
telemetrograph
telemetrographic
telemetrography
telemetry
telemotor
telencephal
telencephala
telencephalic
telencephalla
telencephalon
telencephalons
telenegetic
telenergy
teleneurite
teleneuron
telescope
telescoped
telescopes
telescopic
telecopical
telecopically
telecopiform
telescoping
telecopist
telecopy
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecroscope
telecscope

telethermoscope
telethon
telethons
teletopometer
teletranscription
teletube
teletype
teletype's
teletyped
teletyper
teletypes
teletypesetter
teletypesetting
teletypewrite
teletypewriter
teletypewriters
teletypewriting
teletyping
teletypist
teletypists
teleuto
teleutoform
teleutosori
teleutosorus
teleutosorusori
teleutospore
teleutosporic
teleutosporiferous
teleview
televiewed
televiewer
televiewing
televiews
televise
televised
televises
televising
television
televisional
televisionally
televisionary
televisions
televisor
televisor's
televisors
televisual
televocal
televox
tellingly
tellinoid
tells
tellsome
tellt
telltale
telttalely
telttales
telltruth
tellural
tellurate
telluret
tellureted
tellurethyl
telluretted
tellurhydric
tellurian
telluric
telluride
telluriferous
tellurion
tellurism
tellurist
tellurite
tellurium
tellurize
tellurized
tellurizing
tellurometer
telluronium
tellurous
tellus
telly
telmatological
telmatology
teloblast
teloblastic
telocentric
telodendria
telodendrion
telodendron
telodynamic
telo
telokinesis
telelecithal
telolemma
telolemma
telolemata
telome
telomerization
telomes
telomic
telomitic
telonism
telophase
telophasic
telophragma
telopsis
teloptic
telos
telosynapsis
telosynaptic
telosynaptist
telotaxis
teloteropathic
teloteropathically
teloteropathy
telotrematous
telotroch
telotrocha
telotrochal
telotrochous
telotrophic
telotype
telpath
telpher
telpherage
telphered
telpheric
telphering
telpherman
telphermen
telphers
telpherway
telson
telsonic
telsons
telt
telugu
telurgy
telyn
tem
temacha
temadau
temalacatl
teman
tembe
templum
tempo
tempora
temporal
temporale
temporalis
temporalism
temporalist
temporalities
temporality
temporalize
temporally
temporalness
temporals
temporalities
temporalty
temporaneous
temporaneously
temporaneousness
temporaries
temporarily
temporariness
temporary
temporator
tempore
temporisation
temporise
temporised
temporiser
temporising
temporisingly
temporist
tempORIZATION
temporize
temporized
temporizer
temporizers
temporizes
temporizing
temporizingly
tempoaralar
tempoarauricular
tempoarocentral
tempoarocerebellar
tempoarofacial
tempoarofrontal
tempoarohyoid
tempoaromalar
temporomandibular
temporomastoid
temporomaxillary
temporoooccipital
temporoparietal
temporopontine
temporosphenoid
temporosphenoidal
temporozygomatic
tempos
tempre
temprely
temps
tempt
temptability
temptable
temptableness
temptation
temptation's
temptational
temptationless
temptations
temptatious
temptary
tempted
tempter
tempters
tempting
temptingly
temptingness
temptress
temptresses
tempts
temptsome
tempura
tempuras
tempus
temse
temsebread
temseloaf
temser
temulence
temulency
temulent
temulentive
temulently
ten
tenability
tendejon
tendence
tendences
tendencies
tendencious
tendenciously
tendenciousness
tendency
tdent
tendential
tendentially
tendentious
tendently
tendentiously
tendentiousness
tender
tenderability
tenderable
tenderably
tendered
tenderee
tenderer
tenderers
tenderest
tenderfeet
tenderfoot
tenderfootish
tenderfoots
tenderful
tenderfully
tenderheart
tenderhearted
tenderheartedly
tenderheartedness
tendering	
tenderisation
tenderise
tenderised
tenderiser
tenderish
tenderising
tenderization
tenderize
tenderized
tenderizer
tenderizers
tenderizes
tenderizing
tenderling
tenderloin
tenderloins
tenderly
tenderness
tenderometer
tenders
tendersome	
tendicle
tendido
tendinal
tendineal
tending
tendingly
tendinitis
tedinous
tedinousness
tendment
tendo
tendomucin
tendomucoid
tendon
tendonitis
tendonous
tendons
tendoor
tendoplasty
tendosynovitis
tendotome
tendotomy
tendour
tendovaginal
tendovaginitis
tendrac
tendre
tendrel
tendresse
tendril
tendriled
tendriliferous
tendrillar
tendrilled
tendrilly
tendrilous
tendrils
tendron
tendry
tends
tenebra
tengerite
tengu	tenia
teniacidal
teniacide
teniae
teniafuge
tenias
teniasis
teniasises
tenible
teniente
tenio
tenla
tenline
tenmantale
tennantite
tenne
tenner
tenners
tennessean
tennesseans
tennessee
tennesseans
tennis
tennisdom
tenisses
tennist
tennists
tenissy
tenno
tennu
tennyson
tennysonian
tenodesis
tenodynalia
tenography
tenology
tenomyoplasty
tenomyotomy
tenon
tenonecctomy
tenoned
tenoner
tenoners
tenonian
tenoning
tenonitis
tenonostosis
tenons
tenoftagra
tenontitis
tenontodynia
tenontography
tenontolemmatitis
tenontology
tenontomyoplasty
tenontomyotomy
tenontophyema
tenontoplasty
tenontotheitis
tenontotomy
tenophony
tenophyte
tenoplastic
tenoplasty
tenor
tenor's

tenore
tenorino
tenorist
tenorister
tenorite
tenorites
tenorless
tenoroon
tenorrhaphies
tenorrhaphy
tenors
tenositis
tenostosis
tenosuture
tenosynovitis
tenotome
tenotomies
tenotomist
tenotomize
tenotomy
tenour
tenours
tenovaginitis
tenpence
tenpences
tenpenny
tenpin
tenpins
tenpounder
tenrec
tenrecs
tens	tensas
tensaw
tense	tensed
tensegrity
tenseless
tenselessly
tenselessness
tensely
tenseness
tenser
tenses
tensest
tensibility
tensible
tensibleness
tensibly
tensify
tensile
tensilely
tensileness
tensility
tensimeter
tensing
tensiometer
tensiometric
tensiometry
tension	tensional
tensioned
tensioner
tensioning
tensionless
tensions
tensities
tensity
tensive
tenso
tensome
tensometer
tenson
tensor
tensorial
tensors
tensorship
tenspot
tensure
tent
tentability
tetable
tentacle
tentaclled
tentaclelike
tentacles
tentaclula
tentacular
tentaculate
tentaculated
tentaculite
tentaculocyst
tentaculoid
tentaculum
tentage
tentages
tentamen
tentation
tentative
tentatively
tentativeness
tented
tenter
tenterbelly
tentered
tenterer
tenterhook
tenterhooks
tentering
tenters
tentful
tenth
tenthly
tenthmeter
tenthmetre
tenthredinid
tenthredinoid
tenthredo
tenths
tenticle
tentie
tentier
tentiest
tentiform
tentígo
tentilla
tentillum
tentily
tenting
tention
tentless
tentlet
tentlike
tentmaker
tentmaking
tentmate
tentor
tentoria
tentorial
tentorium
tentortiona
tentory
tents
tenture
tentwards
tentwise
tentwork
tentwort
tenty
tenuate
tenue
tenues
tenucostate
tenufasciate
ntenulforous
ntenulfolious
tenuous
tenuister
tenuirostral
tenuirostrate
tenuis
tenuistriate
tenuit
tenuites
tenuity
ntenuous
tenuously
tenuousness
tenure
tenured
tenures
tenural
tenurially
tenury
tenuti
tenuto
tenutos
tenzon
tenzone
tecalli
tecallis
tesonacatl
tepan
tepans
teosinte
teosintes
tepa
tepache
tepal
tepals
teparies
tepary
tepas
tepete
teppee
teppees
tepefaction
tepefied
tepefies
tepefy
tepefying
tepetate
tephillim
tephillin
tephra
tephramancy
tephras
tephrite
tephrites
tephritic
tephrito
tephromalacia
tephromancy
tephromyelitic
tephrosis
tepid
tepidaria
tepidarium
tepidities
tepidity
trepidly
trepidness
tepomporize
teponaztli
tepor
tequila
tequilas
tequilla
ter
tera
teraglin
terahertz
terahertzes
terai
terais
terakihi
teramorphous
teraohm
teraohms
terap
teraph
teraphim
teras
terass
terata
teratic
teratical
teratism
teratisms
teratoblastoma
teratogen
teratogenesis
teratogenetic
teratogenic
teratogenicity
teratogenous
teratogeny
teratoid
teratologic
teratological
teratologies
teratologist
teratology
teratoma
teratomas
teratomata
teratomatous
teratophobia
teratoscopy
teratosis
terbia
terbias
terbic
terbium
terbiums
terce
tercel
tercelet
tercelets
tercels
tercentenarian
tercentenaries
tercentenarize
tercentenary
tercentennial
tercentennials
tercer
terceron
terceroon
terces
tercet
tercets
terchloride
tercia
tercine
tercio
terdiurnal
terebate
terebella
terebellid
terebelloid
terebellum
terebene
terebenes
terebenic
terebenthene
terebic
terebilic
terebilic
terebinic
terebinth
terebinthial
terebinthian
terebinthic
terebinthina
terebinthinate
terebinthine
terebinthinous
terebra
terebrae
terebral
terebrant
terebras
terebrate
terebration
terebratula
terebratular
terebratulid
terebratuliform
terebratuline
terebratulite
terebratuloid
teredines
teredo
teredos
terfah
terek
terentian
terephah
terephthalate
terephthalic
terephthallic
teres
terete
teretial
tereticaudate
teretifolious
teretipronator
teretiscapular
teretiscapularis
teretish
teretism
tereu
tereus
terfez
terga
tergal
tergant
tergeminal
tergeminate
tergeminous
tergiferous
tergite
tergites
tergitic
termination
terminational
terminations
terminative
terminatively
terminator
terminator's
terminators
terminatory
termine
terminer
terming
termini
termine
terminine
terminism
terminist
terministic
terminize
termino
terminological
terminologically
terminologies
terminologist
terminologists
terminology
terminus
terminuses
termital
termitaria
termitarium
termitary
termite
termites
termitic
termitid
termitophagous
termitophile
termitophilous
termless
termlessly
termlessness
termly
termolecular
termon
termor
termors
terms
termtime
termtimes
termwise
tern
terna
ternal
ternar
ternariant
ternaries
ternarious
ternary
ternate
ternately
ternatipinnate
ternatisect
ternatopinnate
terne
terned
terneplate
terner
ternery
ternes
terning
ternion
ternions
ternize
ternlet
terns
terotechnology
teroxide
terp
teradiene
terpane
terpen
terpene
terpeneless
terpenes
terpenic
terpenoid
terphenyl
terpilene
terpin
terpine
terpinene
terpineol
terpinol
terpinolene
terpinols
terpodion
terpolymer
terpsichore
terpsichoreal
terpsichoreally
terpsichorean
terr
terra
terrace
terraced
terraceless
terraceous
terracer
terraces
terracette
terracewards
terracese
terracese
terracetrack
terracing
terraculture
terrae
teraefilial
teraefilian
terrage
terrain
terrain's
terrains
terral
terramara
terramare
terramycin
terran
terrane
terranean
terraneous
terranes
terrapin
terrapins
terraquean
terraquadus
terraqueous
terraqueousness
terrar
terraria
terrariia
terrariiums
terrarium
terrariums
terrific
terrifically
terrification
terrificly
terrificness
terrified
terrifiedly
terrifier
terrifiers
terrifies
terrify
terrifying
terrifyingly
terrigene
terrigenous
terrigenous
terrines
terrines
territ
territelarian
territorality
territorial
territorialisation
territorialise
territorialised
territorialising
territorialism
territorialist
territoriality
territorialization
territorialize
territorialized
territorializing
territorially
territorian
territoried
territories
territory
territory's
territs
terron
terror
terror's
terrorful
terrorific
terrorisation
terrorise
terrorised
terroriser
terrorising
terrorism
terrorist
terrorist's
terroristic
terroristical
terrorists
terrorization
terrorize
terrorized
terrorizer
terrorizes
terrorizing
terrorless
terrorproof
terrors
terrorsome
terry
terse
tersely
terseness
terser
tersest
tension
tersulfid
tersulfide
tersulphate
tersulphid
tersulphide
tersulphuret
tertenant
tertia
tertial
tertials
tertian
tertiama
tertiaria
tertiaria
tertiaries
tertiary
tertiate
tertii
tertio
tertiium
tertius
tessellate
tessera
tesseract
tesseradecade
tesserae
tesseraic
tissueral
tesserarian
tesserate
tesserated
tesseratomic
tesseratomy
tessitura
tessituras	
tessiture	
tessular
test
testa
testability
testable
testacea
testacean
testaceography
testaceology

testaceous

testaceousness
testacies
testacy
testae
testament
testament's
testamenta
testamental
testamentally

testamentalness

testamentarily
testamentary

testamentate

testamentation

testaments

testamentum

testamur

testandi

testao

testar

testata

testate

testation
testator
testators
testatorship
testatory
testatrices
testatrix
testatrixes
testatum
testbed
testcross
teste
tested
testee
testees	
tester
testers
testes
testibrachial
testibrachium
testicardinate
testicardine
testicardines
testicle
testicle's
testicles
testicond
testicular
testiculate
testiculated
testier
testicere
testicest
testificate
testicification
testificator
testicificatory
testified
testifier
testifiers
testifies
testify
testifying
testily
testimonia
testimonial
testimonialising
testimonialist
testimonialsization
testimonialize
testimonialized
testimonializer
testimonializing
testimonials
testimonies
testimonium
testimony
testimony's
testiness
testing
testingly
testings
testis
testitis
testmatch
teston
testone
testons
testoon
testoons
tester
testosterone
testril
tests
testudinal
testudinarian
testudinarious
testudinate
testudinated
testudineal
testudineous
testudines
testudinous
testudo
testudos
testule
testy
tesvino
tetanal
tetania
tetanic
tetanical
tetanically
tetanics
tetanies
tetaniform
tetanigenous
tethering
tethers
tethery
teths
tethydan
tethys
tetotum
tetotums
tetra
tetraamylose
tetrabasic
tetrabasicity
tetrabelodont
tetrabiblos
tetraborate
tetraboric
tetrabrach
tetrabranche
tetrabranche
tetrabranch
tetrabranchiate
tetrabromid
tetrabromide
tetrabromo
tetrabromoethane
tetrabromofluorescein
tetracadactylity
tetracaine
tetracarboxylate
tetracarboxylic
tetracarpellary
tetracene
tetraceratous
tetracerous
tetrachical
tetrachlorid
tetrachloride
tetrachlorides
tetrachloro
tetrachloroethane
tetrachloroethylene
tetrachloromethane
tetrachord
tetrachordal
tetrachordon
tetrachoric
tetrachotomous
tetrachromatic
tetrachromic
tetrachronous
tetracid
tetracids
tetracocci
tetracoccous
tetracoccus
tetracolic
tetracolon
tetracoral
tetracoralline
tetracosane
tetract

tetractinal
tetractine
tetractinellid
tetractinellidan
tetractinelline
tetractinose
tetractys
tetracyclic
tetracycline
tetrad
tetractyl
tetractyle
tetractylyous
tetractyly
tetradarchy
tetradecane
tetradecanoic
tetradecapod
tetradecapodan
tetradecapodous
tetradecyl
tetradiapason
tetradic
tetradite
tetradrachm
tetradrachma
tetradrachmal
tetradrachmon
tetrad

tetradymite
tetradynamia
tetradynamian
tetradynamious
tetradynamous
tetraedron
tetraedrum
tetraethyl
tetraethyllead
tetraethylsilane
tetrafluoride
tetrafluoroethylene
tetrafluoride
tetrafolious
tetragamy
tetrageneric
tetraglot
tetraglottic
tetragon
tetragonal
tetragonally
tetragonalness
tetragonidium
tetragonalous
tetragonous
tetragon
tetragonous
tetragram
tetragrammatic
tetagrammaton
tetagrammatonic
tetagrid
tetagyn
tetagynia
tetagynian
tetagynous
tetrahedra
tetrahedral
tetrahedrally
tetrahedric
tetrahedrite
tetrahedroid
tetrahedron
tetrahedrons
tetrahexahedral
tetrahexahedron
tetrahydrate
tetrahydrated
tetrahydric
tetrahydrid
tetrahydride
tetrahydro
tetrahydrocannabinol
tetrahydrofuran
tetrahydropyrrole
tetrahydroxy
tetrahymena
tetraiodid
tetraiodide
tetraiodo
tetraiodophenolphthalein
tetraiodopyrrole
tetrakaidecahedron
tetraketone
tetrakis
tetrakisazo
tetrakis(hexahedron
tetralemma
tetralite
tetralogic
tetralogies
tetralogue
tetralogy
tetralophodont
tetramastia
tetramastigote
tetramer
tetrameral
tetrameralian
tetramer
tetramerism
tetramerous
tetramers
tetrameter
tetrameters
tetramethyl
tetramethylammonium
tetramethyldiarsine
tetramethylene
tetramethylthium
tetramethyllead
tetramethylsilane
tetramin
tetramine
tetrammine
tetramorph
tetramorphic
tetamorphism
tetamorphous
tetrand

tetrandria
tetrandrian
tetrandrous
tetran

tetranitrate
tetranitro
tetranitroaniline
tetranitromethane
tetranuclear
tetraodont
tetraonid
tetraonine
tetrapartite
tetrapetalous
tetraphalangeate
tetrapharmaceutical
tetrapharmacon
tetraphenol
tetraphony
tetraphosphate
tetraphyllous
tetrapla
tetraplegia
tetrapleuron
tetraploid
tetraploidic
tetraploidy
tetraplous
tetrapneumonian
tetrapneumonous
tetrapod
tetrapodic
tetrapodies
tetrapodous
tetrapods
tetrapody
tetrapolar
tetrapolis
tetropolitan
tetrapous
tetraprostyle
tetrapteran
tetrapteron
tetrapterous
tetrapote
tetraptych
tetrapyla
tetrapyлон
tetrapyramid
tetrapyrenous
tetrapyrrrole
tetraqetrous
tetrarch
tetrarchate
tetrarchic
tetrarchical
tetrarchies
tetrarchs
tetrarchy
tetras
tetrasaccharide
tetrasalicylde
tetraselenodont
tetraseme
tetrasemic
tetrapalous
tetraskele
tetraskelion
tetrasome
tetrasomic
tetrasomy
tetraspermal
tetraspermatous
tetraspermous
tetraspgia
tetraspheric
tetrasporange
tetrasporangia
tetrasporangiate
tetrasporangium
tetraspore
tetrasporic
tetrasporiferous
tetrasporous
tetraster
tetrastrich
tetrastrichal
tetrastrichic
tetrastrichous
tetrastroon
tetrastrate
tetrastrystic
tetrastrylos
tetrastrylos

tetrasubstituted
tetrasubstitution
tetrasulfid
tetrasulfide
tetrasulfphide
tetrasulfphide
tetrasyllabic
tetrasyllabical
tetrasyllable
tetrasymmetry
tetraphelial
tetraphetic
tetraphetian
tetraphetianism
tetraphiet
tetraphiotes
tetraphionic
tetraphomatic
tetraphone
tetraphalence
tetraphalency
tetraphalent
tetraphial
tetraphile
tetraphox
tetraphorionian
tetraphorionid
tetraphzane
tetrazene
tetrazin
tetrazine
tetrazo
tetrazole
tetrazolium
tetrazolyl
tetrazone
tetrazotization
tetrazotize
tetrazyol
tetrazzini
tetradra
tetremimal
tetrevangelium
tetric
tetrical
tetricalness
tetricity
tetricious
tetrefol
tetrigid
tetriodide
tetrobol
tetrobolon
tetrode
tetrones
tetrodon
tetrodont
tetrodotoxin
tetrol
tetrole
tetrolic
tetronic
tetronymal
tetrose
tetrous
tetroxalate
tetroxid
tetroxide
tetroxids
tetrsyllabical
tetyl
tetrylene
tetryls
tetter
tettered
tettering
tetterish
tetterous
tetters
tetterworm
tetterwort
tettery
tettigoniid
tettish
tettx
tetty	
t euch
t euchit
t ecrin
t efit
t eugh
t eughly
t eughness
t euk
t euton
t eutonic
t eutonism
t eutonist
t eutonize
t eutons
t eviss
t ew
t ewart
thalamocellular
thalamolenticular
thalamomammillary
thalamopeduncular
thalamotegmental
thalamotomies
thalamotomy
thalamus
thalassa
thalassal
thalassemia
thalassian
thalassiarch
thallastic
thallastical
thallassinian
thallasinid
thallasinidian
thallassinoid
thallasiophyte
thallasiophytyous
thallasio
thallassocracy
thallassocrat
thallographer
thallographic
thallographical
thallography
thalassometer
thallassophilous
thallassophobia
thallasotherapy
thalatta
thalattology
thalenite
thaler
thalerophagous
thalers
thalia
thaliaceous
thalian
thallidimide
thalli
thallic
thalliferous
thalliform
thallin
thalline
thallious
thallium
thalliums
thallochlore
thalloidal
thalloidic
thallogen
thallogenic
thallogenous
thallogens
thalloid
thalloidal
thalloeme
thallophyte
thallophytes
thallophytic
thallose
thalious
thallus
thalluses
thalpotic
thalthan
thalweg
thamakau
thameng
thames
thamin
thammuz
thamnium
thamnophile
thamnophiline
thamuria
than
thana
thanadar
thanage
thanages
thanah
thanan
thanatism
thanatist
thanatobiologic
thanatognomonic
thanatographer
thanatography
thanatoid
thanatological
thanatologies
thanatologist
thanatology
thanatomantic
thanatometer
thanatophidia
thanatophidian
thanatophobe
thanatophobia
thanatophobic
thanatophobia
thanatoposis
thanatos
thanatoses
thanatosis
thanatotic
thanatousia
thane
thanedom
thanopecs
thaneland
thanes
thaneship
thaness
thank
thanked
thankee
thanker
thankers
thankful
thankfuller
thankfullest
thankfully
thankfulness
thanking
thankless
thanklessly
thanklessness
thanks
thanksgiver
thanksgiving
thanksgivings
thankworthily
thankworthiness
thankworthy
thankyou
thannadar
thapes
thaw
thawable
thawed
thawer
thawers
thawier
thawiest
thawing
thawless
thawn
thaws
thawy
the
theaceous
theah
theandric
theanthropic
theanthropical
theanthropism
theanthropist
theanthropology
theanthropophagy
theanthropos
theanthroposphy
theanthropy
thearchic
thearchies
thearchy
theasum
theat
theater
theater's
theatercraft
theatrgoer
theatregoers
theatregoing
theaterless
theaterlike
theaters
theaterward
theaterwards
theaterewise
theatine
theatral
theatre
theatregoer
theatregoing
theatres
theatric
theatricable
theatrical
theatricalisation
theatricalise
theatricalised
theatricalising
theatricalism
theatricality
theatricalization
theatricalize
theatricalized
theatricalizing
theatrically
theatricalness
theatricals
theatrician
theatricism
theatricize
theatrics
theatrize
theatrocacy
theatrograph
theatromania
theatromaniac
theatron
theatrophile
theatrophobia
theatrophone
theatrophonic
theatropolis
theatroscope
theatry
theatticalism
theave
theb
thebaic
thebaid
thebain
thebaine
thebaines
thebaism
theban
theberge
theca
theca
thecal
thecaphore
thecasporal
thecaspore
gthecaspered
gthecasporous
gthecate
gthecia
gthecial
gthecitis
gthecium
gthecia
gthecian
gthecodont
gthecoglossate
gthecoid
gthecosomatous
thed
thee
theedom
theek
theeked
theeker
theeking
theelin
theelins
theelol
theelols
theer
theet
theetsee
theezan
theft
theft's
theftbote
theftdom
theftless
theftproof
thefts
theftuous
theftuously
thegether
thegidder
thegither
thegn
thegndom
thegnhood
thegnland
thegnlike
thegnly
theocrasical
theocrasies
theocrasy
theocrat
theocratic
theocratical
theocratically
theocratist
theocrats
theodemocracy
theodicaea
theodicean
theodicies
theodicy
theodidact
theodolite
theodolitic
theodore
theodosian
theodosianus
theodrama
theody
theogamy
theogeological
theognostic
theogonal
theogonic
theogonical
theogonies
theogonism
theogonist
theogony
theohuman
theokrasia
theoktonic
theoktony
theol
theolatrous
theolatry
theolepsy
theoleptic
theolog
theologal
theologaster
theologastic
theologate
theologeion
theologer
theologi
theologian
theologians
theologic
theological
theologically
theologist
theologicoastronomical
theologicoethical
theologicohistorical
theologicometaphysical
theologicomilitary
theologicomoral
theologiconatural
theologicopolitical
theologics
theologies
theologisation
theologise
theologised
theologiser
theologising
theologism
theologist
theologium
theologization
theologize
theologized
theologizer
theologizing
theologoumena
theologoumenon
theologs
theologue
theologus
theology
theomachia
theomachies
theomachist
theomachy
theomagia
theomagic
theomagical
theomagics
theomagy
theomammomist
theomania
theomanic
theomantic
theomastix
theomicrist
theomisanthropist
theomorphic
theomorphism
theomorphize
theomythologer
theomythology
theonomies
theonomous
theonomously
theonomy
theopantism
theopaschite
theopathetic
theopathic
theopathies
theopathy
theophagic
theophagite
theophagous
theophagy
theophania
theophanic
theophanies
theophanism
theophanous
theophany
theophilanthrope
theophilanthropic
theophilanthropism
theophilanthropist
theophilanthropy
theophile
theophilist
theophilosophic
theophilus
theophobia
theophoric
theophorous
theophrastaceous
theophyllin
theophylline
theophysical
theophysical
theopneust
theopneusted
theopneustia
therapeutically
therapeutics
therapeutism
therapeutist
theraphose
theraphosid
theraphosoid
therapia
therapies
therapist
therapist's
therapists
therapsid
therapeutant
therapy
therapy's
theravada
therblig
there
there'd
there'll
there's
thereabout
thereabouts
thereabove
thereacross
thereafter
thereafterward
thereagainst
thereamong
thereamongst
thereanent
thereanents
therearound
thereas
thereat
thereaway
thereaways
therebefore
thereben
therebeside
therebesides
therebetween
therebiform
thereby
thereckly
therered
therefor
therianthropic
therianthropism
theriatrics
thericlean
theridiid
theriodic
theriodont
theriolater
theriolatry
theriomancy
theriomaniac
theriomimicry
theriomorph
theriomorphic
theriomorphism
theriomorphosis
theriomorphous
theriotheism
theriotheist
theriotrophical
theriozoic
therm
thermacogenesis
thermae
thermaesthesia
thermaic
thermal
thermalgesia
thermality
thermalization
thermalize
thermalized
thermalizes
thermalizing
thermally
thermals
thermanalgesia
thermanesthesia
thermantic
thermantidote
thermatologic
thermatologist
thermatology
therme
thermel
thermels
thermes
thermesthesia
thermesthesiometer
thermetograph
thermograff
thermic
thermical
thermically
thermidor
thermidorian
thermion
thermionic
thermionically
thermionics
thermions
thermistor
thermistors
thermit
thermite
thermites
thermists
thermo
thermoammeter
thermoanalgesia
thermoanesthesia
thermobaro graphic
thermobarometer
thermobattery
thermocauteries
thermocautery
thermochemic
thermochemical
thermochemically
thermochemist
thermochemistry
thermochoic
thermochromism
thermochorosy
thermoclinal
thermocline
thermocoagulation
thermocouple
thermocurrent
thermodiffusion
thermoduric
thermodynam
thermodynamic
thermodynamical
thermodynamically
thermodynamician
thermodynamicist
thermodynamics
thermodynamist
thermoelastic
thermoelectric
thermoelectrical
thermoelectrically
thermoelectricity
thermoelectrometer
thermoelectromotive
thermoelectron
thermoelectronic
thermoelement
thermoesthesia
thermoexcitory
thermoform
thermoformable
thermogalvanometer
thermogen
thermogenerator
thermogenesis
thermogenetic
thermogenic
thermogenous
thermogeny
thermogeographical
thermogeography
thermogram
thermograph
thermographer
thermographic
thermographically
thermography
thermohaline
thermohyperesthesia
thermojunction
thermokinematics
thermolabile
thermolability
thermological
thermology
thermoluminescence
thermoluminescent
thermolysis
thermolytic
thermolyze
thermolyzed
thermolyzing
thermomagnetic	hermomagnetically	hermomagnetism
thermometamorphic
thermometamorphism
thermometer
thermometer's
thermometerize
thermometers
thermometric
thermometrical
thermometrically
thermometry
thermometerize
thermometer's
thermometers
thermometric
thermometrical
thermometrically
thermometry
thermomigrate
thermomotive
thermomotor
thermomultiplier
termonastic
termonasty
termonatrite
termonaurosis
termoneutrality
termonous
termonuclear
termpair
termpalpation
termpenetration
termperiod
termperiodic
termperiodicity
termperiodism
termpphil
termpophile
termpophilic
termpophilous
termpophobia
termpohobous
termpohone
termpohore
termposphor
termposphorescence
termposphorescent
termpile
termplastic
termplasticity
termplastics
termplegia
thermopleion
thermopolymerization
thermopoplynea
thermopolyneic
thermopower
thermoradiotherapy
thermoreceptor
thermoreduction
thermoregulation
thermoregulator
thermoregulatory
thermoremanence
thermoremanent
thermoresistance
thermoresistant
thermos
thermoscope
thermoscopic
thermoscopical
thermoscopically
thermosensitive
thermoses
thermoset
thermosetting
thermosiphon
thermosphere
thermospheres
thermospheric
thermostability
thermostable
thermostat
thermostat's
thermostated
thermostatic
thermostatically
thermostatistics
thermostating
thermostats
thermostatted
thermostatting
thermostimulation
thermoswitch
thermosynthesis
thermosystaltic
thermosystaltism
thermotactic
thermotank
thermotaxic
thermotaxis
thermotelephone
thermotelephonic
thermotensile
thermotension
thermotherapeutics
thermotherapy
thermotic
thermotical
thermotically
thermotics
thermotropic
thermotropism
thermotropy
thermotype
thermotypic
thermotypy
thermovoltaic
therms
therodont
theroid
therolater
therolatry
therologic
therological
therologist
therology
theromorph
theromorphia
theromorphic
theromorphological
theromorphology
theromorphous
therophyte
theropod
theropodan
theropodous
theropods
thersitean
thersites
thersitical
thesaur
thesaural
thesauri
thesauris
thesaurismosis
thesaurus
thesaurusauri
thesauruses
thesaury
these
theses
theseus
thesial
thesicle
thesis
thesmothetae
thesmothete
thesmothetes
thesocyte
thespian
thespians
thesalonians
theater
thestreen
theta
thetas
thetch
thete
thetic
thetical
thetically
thetics
thetin
thetine
thetis
theurgic
theurgical
theurgically
theurgies
theurgist
theurgy
thevetin
thew
thewed
thewier
thewiest
thewiness
thewless
thewlike
thewness
thews
thewy
they
they'd
thieveless
thiever
thieveries
thievery
thieves
thieving
thievishly
thievish
thievishly
thievishness
thig
thigged
thigger
thigging
thigh
thighbone
thighbones
thighed
thighs
thight
thightness
thigmonegative
thigmopositive
thigmotactic
thigmotactically
thigmotaxis
thigmotropic
thigmotropically
thigmotropism
thilk
thill
thiller
thills
thilly
thimber
thimble
thimble's
thimbleberries
thimbleberry
thimbled
thimbleflower
thimbleful
thimblefuls
thimblelike
thimblemaker
thimblemaking
thimbleman
thimblerig
thiocarbonate
thiocarbonic
thiocarbonyl
thiochloride
thiochrome
thiocresol
thiocyanate
thiocyanation
thiocyanic
thiocyanide
thiocyno
thiocyanogen
thiodiazole
thiodiphenylamine
thioester
thiofuran
thiofurane
thiofurfurane
thiofurfurane
thioguanine
thioglycolic
thiohydrate
thiohydrolysis
thiohydrolyze
thioindigo
thioketone
thiokol
thiol
thiolacetic
thiolactic
thiolic
thiolic
thiols
thionamic
thionaphthene
thionate
thionates
thionation
thioneine
thionic
thionin
thionine
thionines
thionins
thionitrite
thionium
thionobenzoic
thionthiolic
thionurate
thionyl
thionylamine
thionyls
thiopental
thiopentone
thiophen
thiophene
thiophenic
thiophenol
thiophens
thiophosgene
thiophosphate
thiophosphite
thiophosphoric
thiophosphoryl
thiophthene
thiopyran
thioresorcinol
thioridazine
thiosinamine
thiostannate
thiostannic
thiostannite
thiostannous
thiosulfate
thiosulfates
thiosulfuric
thiosulphate
thiosulphonic
thiosulphuric
thiotepa
thiotepas
thiotolene
thiotungstate
thiotungstic
thiouracil
thiourea
thioureas
thiourethan
thiourethane
thioxene
thiozone
thiozonid
thiozonide
thir
thiram
thirams
thoracic
thoracial
thoracically
thoracicoabdominal
thoracicoacromial
thoracicohumeral
thoracicolumbar
thoraciform
thoracispinal
thoracoabdominal
thoracoacromial
thoracobronchotomy
thoracoceloschisis
thoracocentesis
thoracocyllosis
thoracocytosis
thoracodelphus
thoracodidymus
thoracodorsal
thoracodynia
thoracogastroschisis
thoracograph
thoracohumeral
thoracolumbar
thoracolysis
thoracomelus
thoracometer
thoracometry
thoracomyodynia
thoracopagus
thoracoplasties
thoracoplasty
thoracoschisis
thoracoscope
thoracoscopy
thoracostenosis
thoracostomies
thoracostomy
thoracostracan
thoracostracous
thoracotomies
thoracotomy
thoral
thorascope
thorax
thoraxes
thore
thoria
thorianite
thorias
thoriate
thoric
thoriferous
thorina
thorite
thorites
thorium
thoriums
thorn
thorn's
thornback
thornbill
thornbush
thorned
thornen
thornhead
thornier
thorniest
thornily
thorniness
thorning
thornless
thornlessness
thornlet
thornlike
thorproof
thorns
thornstone
thorntail
thorny
thoro
thorocopagous
thorogummite
thoron
thorons
thorough
thoroughbass
thoroughbrace
thoroughbred
thoroughbredness
thoroughbreds
thorougher
thoroughest
thoroughfare
thoroughfare's
thoroughfarer
thremmatology
threne
threnetic
threnetical
threnode
threnodes
threnodial
threnodian
threnodic
threnodical
threnodies
threnodist
threnody
threnos
threnin
threnine
threose
threpe
threpsology
threptic
thresh
threshal
threshed
threshel
thresher
thresherman
thresher`s
thresher`s
threshes
threshing
threshingtime
threshold
threshold`s
threshold`s
thresholds
throttle
threw
thribble
thrice
thricecock
thridace
thridacium
thrift
thriftbox
thriftier
thriftiest
thriftily
thriftiness
thriftless
thriftlessly
thriftlessness
thriftlike
thrifts
thriftshop
thifty
thrill
thrilant
thrilled
thriller
thrillers
thrillful
thrillfully
thrillier
thrilliest
thrilling
thrillingly
thrillingness
thrillproof
thrills
thrillsome
thrilly
thrimble
thrimp
thimsa
thing
thringing
thrinter
thrioboly
thrip
thripel
thripid
thrippence
thripple
thrips
thrist
thrive
thived
thriveless
thriven
thriver
thivers
thives
thriver
thiving
thivingly
thivingness
thro
thro’
throat
thrombocytopenia
thrombocytopenic
thromboembolic
thromboembolism
thrombogen
thrombogenic
thromboid
thrombokinase
thrombolymphangitis
thrombolysis
thrombolytic
thrombopenia
thrombophlebitis
thromboplastic
thromboplastically
thromboplastin
thrombose
thrombosed
thromboses
thrombosing
thrombosis
thrombostasis
thrombotic
thrombus
thronal
throne
throne's
throned
thronedom
throneless
thronelet
thronelike
thrones
throneward
throng
throng's
thronged
thronger
throngful
thronging
throngingly
throngs
throning
thronize
thronoi
thronos
throe
thropple
thug
thug's
thugdom
thugged
thuggee
thuggeeism
thuggees
thuggeries
thuggery
thuggess
thuggling
thuggish
thuggism
thugs
thuja
thujas
thujene
thujin
thujone
thujyl
thule
thulia
thulias
thulir
thulite
thulium
thuliums
thulr
thuluth
thumb
thumbbird
thumbbed
thumbler
thumbhole
thumbkin
thumbkines
thumbing
thumbkin
thumbkins
thumble
thumbless
thumblike
thumbling
thumbmark
thumbnail
thumbnails
thumbnut
thumbnuts
thunderhead
thunderheaded
thunderheads
thundering
thunderingly
thunderless
thunderlight
thunderlike
thunderous
thunderously
thunderousness
thunderpeal
thunderplump
thunderproof
thunderpump
thunders
thundershower
thundershowers
thundersmite
thundersmiting
thundersmote
thundersquall
thunderstick
thunderstone
thunderstorm
thunderstorm's
thunderstorms
thunderstricken
thunderstrike
thunderstroke
thunderstruck
thunderwood
thunderworm
thunderwort
thundery
thundrous
thundrously
thung
thunge
thuoc
thurgi
thurible
thuribles
thuribuler
thuribulum
thurifer
thuriferous
thurifers
thymol
thymolate
thymolize
thymolphthalein
thymols
thymolsulphonephthalein
thymoma
thymomata
thymonucleic
thymopathy
thymopivic
thymoprivous
thymopsyche
thymoquinone
thymotactic
thymotic
thymotinic
thysms
thymus
thymuses
thymy
thymyl
thymylic
thynnid
thyratron
thyreoadenitis
thyreoantitoxin
thyreoarytenoid
thyreoarytenoideus
thyreocervical
thyreocolloid
thyreepiglottic
thyreogenetic
thyreogenous
thyreoglobulin
thyreoglossal
thyreohyal
thyreohyoid
thyreoid
thyreoidal
thyreoideal
thyreoidean
thyreoidectomy
thyreoiditis
thyreitis
thyreolingual
thyreoprotein
thyreosis
thyreotomy
thyreotoxicosis
thyreotropic
thyridia
thyridial
thyridium
thyrisiferous
thyristor
thyroadenitis
thyroantitoxin
thyroarytenoid
thyroarytenoideus
thyrocalcitonin
thyrocardiac
thyrocarditis
thyrocele
thyrocervical
thyrocolloid
thyrocricoid
thyroepiglottic
thyroepiglottidean
thyrogenic
thyrogenous
thyroglobulin
thyroglossal
thyrohyal
thyrohyoid
thyrohyoidean
thyroid
thyroidal
thyroidea
thyroideal
thyroidean
thyroidectomies
thyroidectomy
thyroidism
thyroiditis
thyroidization
thyroidless
thyroidotomies
thyroidotomy
thyroids
thyroiodin
thyrold
thyrolingual
thyronin
thyronine
thyroparathyroidectomize
thyroparathyroidectomy
thyroprival
thyroprivia
thyroprivic
thyroprivous
thyroprotein
thyricia
thyrorion
thyrororia
thyrosis
thyrostracan
thyrotherapy
thyrotome
thyrotomy
thyrotropic
thyrotrophic
thyrotropin
thyroxin
thyroxine
thyroxinic
thyroxins
thyrose
thyreses
thyrsi
thyrsiflorous
thyrsiform
thyrsoid
thyrsoidal
thyrsus
thyrsusi
thysanopter
thysanopteran
thysanopteron
thysanopterous
thysanouran
thysanourous
thysanurian
thysanurian
thysanuriform
thysanurous
thysel
thyself
thysen
ti
tiang
tiangue
tiao
tiar
tiara
tiaraed
tiaralike
tiaras
tiarella
tib
tibbit
tibby
tiber
tibert	ibet	ibetan	ibetans	ibey	ibia	ibiad	ibiae	ibial	ibiale	ibialia	ibialis	ibias	ibicen	ibicinist	ibicocalcanean	ibiofemoral	ibiofibula	ibiofibular	ibiometatarsal	ibionaviculartibiopopliteal	ibioscaphoi
tibiotarsal	tibiotsari	tibiotsarsi	tibiotsarsus	tibiotsarsusi	tibourbou	uburon	uburtine
tic	ical	icals
tidings
tidiose
tidley
tidling
tidological
tidology
tidy
tidying
tidyism
tidytips
tie
tieback
tiebacks
tieboy
tiebreaker
tieclasp
tieclasps	
tied
tiedog	
tieing	
tieless
tiemaker	
tiemaking	
tiemannite	
tien
tienda
tiens	
tienta	
tiento	
tiepin
tiepins	
tier	
tierce	
tierced	
tiercel	
tiercels	
tierceron	
tierces	
tiered	
tierer	
tiering	
tierlike	
terras			
tiers	
tiersman	
ties	
tietick	
tievine
tigers
tigerwood
tigery
tigger
tight
tighten
tightened
tightener
tighteners
tightening
tightenings
tightens
tighter
tightest
tightfisted
tightfistedly
tightfistedness
tightfitting
tightish
tightknit
tightlier
tightliest
tightlipped
tightly
tightness
tightrope
tightroped
tightropes
tightroping
tights
tightwad
tightwads
tightware
tigaldehyde
tiglic
tiginic
tiglon
tiglons
tignon
tignum
tigon
tigons
tigress
tigresses
tigresslike	igrine	igrinya	igris
timbermonger
timbern
timers
timbersome
timbertuned
timberwood
timberwork
timberwright
timbery
timberyard
timbestere	imbo
timbre
timbrel
timbreled
timbreler
timbrelled
timbreller
timbrels
timbres
timbrologist
timbrology
timbromania
timbromaniac
timbromanist
timbrophilic
timbrophilism
timbrophilist
timbrophily
time
timeable
timebinding
timecard
timecards	imed	timeful
timefully	timefulness
timekeep
timekeeper
timekeepers
timekeepership
timekeeping
timeless
timelessly
timelessness
timelia
timelier
tinselled
tinsellike
tinselling
tinselly
tinselman
tinselwork
tinseling
tinsel
tinseling
tinselweaver
tinselwork
tinsman
tinsmen
tinsmith
tinsmithing
tinsmiths
tinsmithy
tinstone
tinstones
tinstuff
tinsy
tint
tinta
tintack
tintage
tintamar
tintamarre
tintarron
tinted
tinter
tinternell
tinters
tintie
tintiness
tinting
tintingly
tintings
tintinnabula
tintinnabulant
tintinnabular
tintinnabulary
tintinnabulate
tintinnabulation
tintinnabulations
tintinnabulatory
tintinnabulism
tintinnabulist
tintinnabulous
tintinnabulum
tintist
tintless
tintlessness
tintometer
tintometric
tintometry
tints
tinty
tintype
tintyper
tintypes
tinwald
tinware
tinwares
tinwoman
tinwork
tinworker
tinworking
tinworks
tiny
tinzenite
tip
tip's
tipburn
tipcart
tipcarts
tipcat
tipcats
tipe
tipful
tiphead
tipi
tipis
tipit
tipiti
tiple
tipless
tiplet
tipman
tipmen
tipmost
tipoff
tipoffs
tiponi	ippable	ipped	ippee	ipper
open source used in kenna virtual tunnel and agent 2021.08 9109
tiptoppishness
tiptops
tiptopsome	
tipula
tipulid
tipuloid
tipup
tiqueur
tirade	
tirades
tirage
tirailleur	
tiralee
tirasse	
tiraz	
tire	
tired	
tireder	
tiredest	
tiredly	
tiredness	
tiredom	
tirehouse	
tireless	
tirelessly	
tirelessness	
tireling	
tiremaid	
tiremaker	
tiremaking	
tireman	
tiremen	
tirement	
tirer	
tireroom	
tires	
tiresias	
tiresmith	
tiresol	
tiresome	
tiresomely	
tiresomeness	
tiresomeweed	
tirewoman	
tirewomen	
tiriba	
tiring	
tiringly
titleholder
titleless
titlene
titleproof
titler
titles
titleship	
titlike
titling
titlist
titlists	
titmal	
titmall	
titman
titmen
titmice
titmmice
titmouse
titoism	
titoki	
titrable	
titrant	
titrants	
titratable	
titrated	
titrates
titrating
titration	
titrator	
titrators	
titre
titres
titrimetric	
titrimetrically	
titrimetry	
tits	
titter	
titteration	
tittered	
titterel	
titterer	
titterers	
tittering	
titteringly	
titters	
tittery	
tittie
toadling
toadpipe
toadpipes
toadroot
toads
toadship
toadstone
toadstool

toadstoollike
toadstools
toadwise
toady
toadying
toadyish
toadyism
toadyisms
toadyship
toarcan
toast
toastable
toasted
toastee
toaster
toasters
toastier
toastiest
toastiness
toasting
toastmaster
toastmasters
toastmastery
toastmistress
toastmistresses
toasts
toasty
toat
toataoa
tob
tobacco
tobaccoes
tobaccofied
tobaccoism	
tobaccoite
tobaccoless
tobaccolike
tobaccoman
tobacconen
tobacconalian
tocology
tocome
tocometer
tocopherol
tocophobia
tocororo
tocsin
tocsins
tocsusso
tod
today
today'll
todayish
today'll
todays
toddertoddick
toddlies
toddite
toddle
toddled
toddlekins
toddler
toddlers
toddlies
toddling
toddy
toddyize
toddyman
toddymen
tode
todelike
todies	odlowrie	ods
tody
toe
toe's
toea
toeboard
toe
cap
toe
capped
toe
caps
toed
toe
ehold
toe
eholds
toeing
toeless
toelike
toellite
toenail
toenailed
toenailing
toenails
toepiece
toepieces
toeplate
toeplates
toernebohmite
toes
toeshoe
toeshoes
toetoe
toey
toff
toffee
toffeeman
toffees
toffies
toffing
toffish
toffs
toffy
toffyman
toffymen
tofile
tofore
toforn
toft
tofter
toftman
toftmen
tofts
toftstead
tofu
tofus
tog
toga
togae
togaed
togalike
togas
togata
togate
togated
togewise
toged
togeman
together
togetherhood
togetheriness
togetherness
togethers
tagged
toggel
tag
taggeries
taggy
tagging
taggle
tagler
taggers
taggle
tagging
tagger
tog
tog
togtut
togue
togues
toher
toheroa
toho
tohubohu
tohunga
toi
toil
toile
toiled
toiler
toilers
toiles

toilet
toilet's
toileted
toileting
toilettries
toilettry
toilets
toilette
toiletted
toilettes
toiletware
tolerism
toles
toleware
tolfaedic
tolguacha
tolidin
tolidine
tolidines
tolidins
toling
tolipane	
tolite
toll
tollable
tollage
tollages
tollbar
tollbars
tollbook
tollbooth
tollbooths
tolled
tolent
toller
tollers
tollery
tollgate
tollgates
tollgatherer
tollhall
tollhouse
tollhouses
tollies
tolliker
tolling
tollkeeper
tollman
tollmaster
tollmen
tolion
tollpenny
tolis
tolltaker
tollway
tollways
tolly
tolmen
tolpatch
tolpatchery
tolsel
tolsester
tolsey
tolstoy
tolstoyan
tolt
toltec
tolter
tolu
tolualdehyde
toluate
toluates
toluene
toluenes
tolui
toluid
toluid
toluides
toluidide
toluidin
toluidine
toluidino
toluidins
toluido
toluids
tolunitrile
toluol
toluole
toluoles
toluols
toluquinaldine
tolus
tolusafranine
tolutation
toluyl
toluylene
toluylenediamine
toluylic
toluyls
tolyl
tolylene
tolylenediamine
tolyls
tolypeutine
tolzey
tom
tomahawk
tomahawk's
tomahawked
tomahawker
tomahawking
tomahawks
tomalley
tomalleys
toman
tomand
tomans
tomatillo
tomatilloses
tomatillos	
tomato
tomatoes
tomb
tomb's
tombac
tombak
tombaks
tombacs
tombak
tombaks
tombal
tombe
tombed
tombic
tombing
tombless
tomblet
tomblike
tombola
tombolo
tombolos
tomboy
tomboyful
tomboyish
tomboyishly
tomboyishness
tomboyism
tomboys
tombs
tombstone
tombstones
tomcat
tomcats
tomcatted
tomcattting
tomcod
tomcords
tome
tomeful
tomelet
toment
tomenta
tomentose
tomentous
tomentulose
tomentum
tomes
tomfool
tomfooleries
tomfoolery
tomfoolish
tomfoolishness
tomfools
tomia
tomial
tomin
tomines
tomish
tomium
tomiumia
tomjohn
tomjon
tomkin
tommed
tommes
tomming
tommy
tommybag
tommycod
tommyrot
tommyrots
tomnoddy
tomnorry
tomnoup
tomogram
tomograms
tomograph
tomographic
tomographies
tomography
tomolo
tomomania
tomorn
tonguiness
tonguing
tonguings
tonguy
tonic
tonic's
tonical
tonically
tonicities
tonicity
tonicize
tonicked
tonicking
tonicobalsamic
tonicoclonic
tonicostimulant
tonics
tonier
tonies
toniest
tonify
tonight
tonights
toning
tonish
tonishly
tonishness
tonite
tonitocirrus
tonitrophobia
tonitrual
tonitruant
tonitruone
tonitruous
tonjon
tonk
tonka
tonkin
tonlet
tonlets
tonn
tonnage
tonnages
tonne
tonneau
tonneaued
tonneaus
tonneaux
toothed
toothlet
toothlike
toothpaste
toothpastes
toothpick
toothpick's
toothpicks
toothplate
toothpowder
toothproof
tooths
toothshell
toothsome
toothsomely
toothsomeness
toothstick
toothwash
toothwork
toothwort
toothy
tooting
tootinghole
tootle
tootled
tootler
tootlers
tootles
tooting
tootish
tootmoot
toots
tootses
tootsie
tootsies
tootsy
toozle
toozoo
top
topaesthesia
topalgia
toparch
toparchia
toparchiae
toparchical
toparchies
toparchy
topas
topass
topato
topau
topaz
topazes
topazfels
topazine
topazite
topazolite
topazy
topcap
topcast
topcastle
topchrome
topcoat
topcoating
topcoats
topcross
topcrosses
topdress
topdressing
tope
topechee
topectomies
topectomy
toped
topee
topees
topeewallah
topeka
topeng
topepo
toper
toperdom
topers
topes
topesthesia
topfilled
topflight
topflighter
topful
topfull
topgallant
toph
tophaceous
tophaike
tophamper
tophe
tophes
tophet
tophetic
tophetical
tophetize
tophi
tophous
tophphi
tophs
tophus
tophyperidrosis
topi
topia
topiaria
topiarian
topiaries
topiariist
topiarius
topiary
topic
topic's
topical
topicalities
topicality
topically
topics
topinambou
toping
topis
topiwala
topkick
topkicks
topknot
topknots
topknotted
topless
toplessness
toplighted
topleike
topline
topliner
toploftical
toploftiest
toponeural
toponeurosis
toponym
toponymal
toponymic
toponymical
toponymics
toponymies
toponymist
toponymous
toponyms
toponymy
topophobia
topophone
topolitian
topos
topotactic
topotaxis
topotype
topotypes
topotypic
topotypical
topped
topper
toppers
toppiece
topping
toppingly
toppingness
toppings
topple
toppled
toppler
topplies
toppling
topply
toppy
toprail
toprope
tops
topsail
topsailite
topsails
topside
topsider
topsiders
topsides
topsl
torchere
torcheres
torches
torchet
torchier
torchiers
torchiest
torching
torchless
torchlight
torchlighted
torchlike
torchlit
torchman
torchon
torchons
torchweed
torchwood
torchwort
torchy
torcs
torcular
torculus
tordion
tordrillite
tore
toreador
toreadors	ored
torero
toreros
tores
toret
toreumatography
toreumatology
toreutic
toreutics
torfaceous
torfel
torfe
torgoch	ori
toric	ories	oriitorma
tormae
tormen
torsade
torsades
torsalo
torse
torsel
torses
torsi
torsibility
torsigraph
torsile
torsimeter
torsiogram
torsiograph
torsiomter
torsion
torsional
torsionally
torsioning
torsionless
torsions
torsive
torsk
torsks
toro
torsoclusion
torsoes
torsometer
torsoocclusion
torsos
tort
torta
tortays
torte
tortea
torteaus
tortaux
tortellini
torten
tortes
tortfeasor
tortfeasors
torticollar
torticollis
torticone
tortie
tortil
tortile
tortility
tortilla
tortillas
tortille
tortillions
tortillon
tortious
tortiously
tortis
tortive
tortoise
tortoise's
tortoiselike
tortoises
tortoiseshell
tortoni
tortonis
tortor
tortrices
torricid
torricine
torricoid
tortrix
tortrixes
torts
tortue
tortula
tortulaceous
tortulous
tortuose
tortuosities
tortuosity
tortuous
tortuously
tortuousness
torturable
torturableness
torture
tortured
torturedly
tortureproof
torturer
torturers
tortures
torturesome
torturesomeness
torturing
torturingly
torturous
towerwork
towerwort
towery
towght
towhead
towheaded
towheads
towhee
towhees
towie
towies	owing	ownt
towkay	owlke	owline
towlines
townast
townond
townonds
townmont
townonts
town
town's
towned
townee
townees
towner
townet
townfaring
townfolk
townfolks
townful	owntgate
townhood
townhouse
townhouses
townie
townies
townified
townify
townifying
towniness
townish
townishly
townishness
townist
townland
townless
toxanemia
toxaphene
toxcatl
toxemia
toxemias
toxemic
toxic
toxicaemia
toxical
toxically
toxicant
toxicants
toxicarol
toxicate
toxication
toxicemia
toxicities
toxicity
toxicodendrol
toxicoderma
toxicodematitis
toxicodermatosis
toxicoderma
toxicodermitis
toxicogenic
toxicognath
toxicohaemia
toxicohemia
toxicoid
toxicol
toxicologic
toxicological
toxicologically
toxicologist
toxicologists
toxicology
toxicomania
toxicon
toxicopathic
toxicopathy
toxicophagous
toxicophagy
toxicophidia
toxicophobia
toxicoses
toxicosis
toxicotraumatic
toxicum
toxidermic
toxidermitis
toxifer
toxiferous
toxified
toxify
toxifying
toxigenic
toxigenicities
toxigenicity
toxihaemia
toxihemia
toxiinfection
toxinfectious
toxin
toxinaemia
toxine
toxinemia
toxines
toxinfection
toxinfectious
toxinosis
toxins
toxiphagi
toxiphagus
toxiphobia
toxiphobic
toxiphoric
toxitabellae
toxity
toxodon
toxodont
toxogenesis
toxoglossate
toxoid
toxoids
toxology
toxolysis
toxon
toxone
toxonosis
toxophil
toxophile
toxophilism
toxophilite
toxophilic
toxophilism
toxophilous
toxophily
toxophobia
toxophobic
toxophoric
toxophorous
toxoplasma
toxoplasmic
toxoplasmosis
toxosis
toxosozin
toxotae
toy
toydom
toyed
toyer
toyer
toyful
toyfulness
toyhouse
toying
toyingly
toyish
toyishly
toyishness
toyland
toyless
toylike
toymaker
toymaking
toyman
toymen
toyo
toyon
toyons
toyos
toyota
toyotas
toys
toyshop
toysome
toytown
toywoman
toywort
toze
tozee
tozer
tp
tpd	mph
tpi
tpk
tpke
tpm
tps
tr
tra
trabacoli
trabacolo
trabacolos
trabal
trabant
trabascolo
trabea
trabeae
trabeatae
trabeate
trabeated
trabeation
trabecula
trabeculae
trabecular
trabecularism
trabeculas
trabeculate
trabeculated
trabeculation
trabecule
trabes
trabu
trabuch
trabuco
trabucos
trac
tracasserie
tracasseries
trace
traceability
traceable
traceableness
traceably
traceback
traced
traceless
tracelessly
tracer
traceried
traceries
tracers
tracery
traces
trachea
tracheae
tracheaectasy
tracheal
trachealgia
trachealis
trachean
trachearian
tracheary
tracheas
traceate
tracheated
tracheation
trachecheae
trachecheas
tracheid
tracheidal
tracheide
tracheids
tracheitis
trachelagra
trachelate
trachelectomopexia
trachelectomy
trachelia
trachelismus
trachelitis
trachelium
tracheloacromialis
trachelobregmatic
trachelocavicular
trachelocyllosis
trachelodynia
trachelology
trachelomastoid
trachelopexia
tracheloplasty
trachelorrhaphy
tracheloscapular
trachelotomy
trachenchyma
tracheobronchial
tracheobronchitis
tracheocele
tracheochromatic
tracheoesophageal
tracheofissure
tracheolar
tracheolaryngeal
tracheolaryngotomy
tracheole
tracheolingual
tracheopathia
tracheopathy
tracheopharyngeal
tracheophone
tracheophonesis
tracheophonine
tracheophony
tracheophyte
tracheoplasty
tracheopyosis
tracheorrhagia
tracheoschisis
tracheoscopic
tracheoscopist
tracheoscopy
tracheostenosis
tracheostomies
tracheostomy
tracheotome
tracheotomies
tracheotomist
tracheotomize
tracheotomized
tracheotomizing
tracheotomy
trachile
trachinoid
trachitis
trachile
trachiled
trachiles
trachling
trachodon
trachodont
trachodontid
trachoma
trachomas
trachomatous
trachomedusan
trachyandesite
traditionitis
traditionize
traditionless
traditionmonger
traditions
traditious
traditive
traditor
traditores
traditorship
traduce
traduced
traducement
traducements
traducent
traducer
traducers
traduces
traducian
traducianism
traducianist
traducianistic
traducible
traducing
traducingly
traduct
traduction
traductionist
traductive
trady
traffic
traffic's
trafficability
trafficable
trafficableness
trafficator
traffick
trafficked
trafficker
trafficker's
traffickers
trafficking
trafficks
trafficless
trafficcs
trafficway
trafflicker
trafflike
trag
tragacanth
tragacantha
tragacanthin
tragal
tragedial
tragedian
tragedianess
tragedians
tragedical
tragedienne
tragediennes
tragedies
tragedietta
tragedious
tragedist
tragedization
tragedize
tragedy
tragedy's
tragelaph
tragelaphine
tragi
tragia
tragic
tragical
tragicality
tragically
tragicalness
tragicaster
tragicize
tragicly
tragicness
tragicoheroical
tragicoheroical
tragicoheroicomic
tragicolored
tragicomedian
tragicomediess
tragicomedy
tragicomic
tragicomical
tragicomicality
tragicomically
tragicomipastoral
tragicoromantic
tragicose
tragion
tragions
trampler
tramplers
tramples
tramplike
trampling
trampolin
trampoline
trampoliner
trampoliners
trampolines
trampolining
trampolinist
trampolinists
trampoose
tramposo
trampot
tramps
tramroad
tramroads
trams
tramsmith
tramway
tramwayman
tramwaymen
tramways
tramyard
trance
trance's
tranced
trancedly
tranceful
trancelike
trances
tranchant
tranchante
tranche
tranchefer
tranchet
tranchoir
trancing
trancoidal
traneau
traneen
tranfd
trangam
trangams
trank
tranka
transaminase
tрансаминация
tрансанимать
tрансанимация
tрансаниляр
трансапикальный
tрансаппаличный
tрансаутичный
tрансарктик
трансатлантик
tрансатлантическо
трансатлантикан
трансатлантикоз
трансдокумент
трансдаксель
трансбаikal
трансбаикалиан
трансбай
трансборд
трансбордин
транскалени
транскалец
транскалециция
транскалецент
трансрецепция
трансрецептор
трансрецепторов
трансценд
трансцендант
трансцендент
трансцендентал
трансцендентализация
трансцендентализм
трансценденталист
трансценденталистский
трансценденталисты
трансцендентальность
трансцендентализация
трансцендентализировать
трансцендентализирован
трансцендентализирующий
трансцендентализм
трансцендентально
трансцендентал
трансцендентально
transcriptural
transcrystalline
transcultural
transculturally
transculturation
transcur
transcurrent
transcurrently
transcursion
transcursive
transcursively
transcurvation
transcutaneous
transdermic
transdesert
transdialect
transdiaphragmatic
transdiurnal
transduce
transduced
transducer
transducers
transducing
transduction
transductional
transe
transect
transected
transecting
transection
transects
transelement
transelemental
transelementary
transelementate
transelementated
transelementating
transelementation
transempirical
transenna
transennae
transept
transeptal
transeptally
transepts
transequatorial
transequatorially
transessentiate
transfigurement
transfigures
transfiguring
transfiltration
transfinite
transfission
transfix
transfixation
transfixed
transfixes
transfixing
transfixion
transfixt
transfixure
transfluent
transfluvial
transflux
transformation
transform
transformability
transformable
transformation
transformation's
transformational
transformationalist
transformationist
transformations
transformative
transformator
transformed
transformer
transformers
transforming
transformingly
transformism
transformist
transformistic
transforms
transfretation
transfrontal
transfrontier
transfuge
transfugitive
transfusable
transfuse
transfused
transfuser
transiliac
transilience
transiliency
transilient
transilluminate
transilluminated
transilluminating
transilluminator
transimpression
transincorporation
transindividual
transinsular
transire
transischiac
transisthmian
transistor
transistor's
transistorization
transistorize
transistorized
transistorizes
transistorizing
transistors
transit
transitable
transited
transiter
transiting
transition
transitional
transitionally
transitionalness
transitionary
transitioned
transitionist
transitions
transitival
transitive
transitively
transitiveness
transitivism
transitivities
transitivity
transitman
transitmen
transitorily
transitoriness
transluce
translucence
translucencies
translucency
translucent
translucently
translucid
translucidity
translucidus
translunar
translunary
transmade
transmake
transmaking
transmarginal
transmarginally
transmarine
transmaterial
transmateriation
transmedial
transmedian
transmembrane
transmen
transmental
transmentally
transmentation
transmeridional
transmeridionally
transmethylation
transmew
transmigrant
transmigrate
transmigrated
transmigrates
transmigrating
transmigration
transmigrationism
transmigrationist
transmigrations
transmigrative
transmigratively
transmigrator
transmigrators
transmigratory
transmissibility
transmissible
transmission
transmission's
transmutationist
transmutations
transmutative
transmutatory
transmute
transmuted
transmuter
transmutes
transmuting
transmutive
transmutal
transmutually
transnatation
transnational
transnationally
transnatural
transnaturation
transnature
transnihilation
transnormal
transnormally
transocean
transoceanic
transocular
transom
transomed
transoms
transonic
transorbital
transovarian
transp
transpacific
transpadane
transpalatine
transpalmar
transpanamic
transparence
transparencies
transparency
transparency's
transparent
transparentize
transparently
transparentness
transparietal
transparish
transpass
transpassional
transpositional
transpositions
transpositive
transpositively
transpositor
transpository
transpour
transprint
transprocess
transprose
transproser
transpulmonary
transput
transpyloric
transradiable
transrational
transrationally
transreal
transrectification
transrhodian
transrhodanian
transriverina
transriverine
transscriber
transsegmental
transsegmentally
transsensual
transsensibly
transseptal
transseful
transsexual
transsexualism
transsexuality
transsexuals
transshape
transshaped
transshaping
transshift
transship
transshipment
transshipped
transshipping
transships
transsocietal
transsolid
transsonic
transstellar
transsubjective
transtemporal
transthalamic
transthoracic
transthoracically
transtracheal
transsubstantial
transsubstantially
transstantiate
transubstantiated
transubstantiating
transubstantiation
transubstantiationist
transubstantiationite
transubstantiative
transubstantiatively
transubstantiatory
transudate
transudation
transudative
transudatory
transude
transuded
transudes
transuding
transume
transumed
transuming
transumpt
transumption
transumptive
transuranian
transuranic
transuranium
transurethral
transuterine
transvaal
transvaluate
transvaluation
transvalue
transvalued
transvaluing
transvasate
transvasation
transvase
transvectant
transvection
transvenom
transverbate
trapper
trapper's
trapperlike
trappers
trappier
trappiest
trappiness
trapping
trappingly
trappings
trappist
trappoid
trappose
trappous
trappy
trappock
trappocks
traps
trapshoot
trapshooter
trapshooting
trapstick
trapt
trapunto
trapuntos
trasformism
trash
trashism
trashier
trashiest
trashify
trashily
trashiness
trashing
traship
trashless
trashman
trashmen
trashrack
trashtrie
trashy
trass
trasses
trasy
tratler
trattle
treadler
treadlers
treadles
treadless
treadling
treadmill
treadmills
treadplate
treads
treadwheel
treague
treas
treason
treasonable
treasonableness
treasonably
treasonful
treasonish
treasonist
treasonless
treasonmonger
treasonous
treasonously
treasonproof
treasons
treasr
treasurable
treasure
treasured
treasurer
treasurers
treasurership
treasures
treasuress
treasuries
treasuring
treasurous
treasury
treasury's
treasuryship
treat
treatabilities
treatability
treatable
treatableness
treatably
treated
treatee
treater
treaters
treaties
treating
treatise
treatise's
treatiser
treatises
treatment
treatment's
treatments	
treator
treats	
treaty
treaty's	
treatyist
treatyite	
treatyless	
treble	
trebled	
trebleness	
trebles	
treblelet	
trebletree	
trebling	
treblely	
trebuchet	
trebucket	
trecentist	
trecento	
trecentos	
trechmannite	
treckpot	
treckschuyl	
treddle	
treddled	
treddles	
treddling	
tredephantia	
tredcile	
tredcillion	
tredcillions	
tredcillionth	
tredewel	
tredille	
tredrille	
tree
tree's
treebeard
treebine
treed
treefish
treefishes
treeful
treehair
treehood
treehopper
treece
treeciness
treeing
treeless
treelessness
treet
treelike
treelikeness
treelined
treeling
treemaker
treemaking
treeman
treen
tenail
treenails
treenware
trees
treescape
treeship
treespeeler
treetise
treetop
treetop's
treetops
treeward
treewards
treey	
tref
trefa	
trefah
trefgordd
trefle
treflee
trefoil
trefoil

trefoil

trefoil

trefoil
trenchcoats
trenched
trencher
trenchering
trencherless
trencherlike
trenchercraker
trenchermaking
trencherman
trenchermen
trenchers
trencherside
trencherwise
trencherwoman
trenches
trenchful
trenching
trenchlet
trenchlike
trenchmaster
trenchmore
trenchward
trenchwise
trenchwork
trend
trended
trendel
trendier
trendiest
trendily
trendiness
trending
trende
trendle
trends
trendy
trental
trentepohliaceous
trentine
trenton
trepack
trepan
trepanation
trepan
trepaths
trepanize
trepanned
trepanner
trepanning
trepanningly
trepans
trephination
trephine
trephined
trephiner
trephines
trephining
trephocyte
trephone
trepid
trepidancy
trepidant
trepidate
trepidation
trepidations
trepidatory
trepidity
trepidly
trepidness
treponema
treponemal
treponemas
treponemata
treponematosis
treponematous
treponeme
treponemiasis
treponemiatic
treponemicidal
treponemicide
trepostomatous
treppet
tres
tresaiel
tresance	
tresche
tresillo
tresis	
trespass
trespassage								
trespassed
								
trespasser
trespassers
trespasses
trespassing
trespassory
tress
triacetamide
triacetate
triacetonamine
triacetyloleandomycin
triachenium
triacid
triacids
triacontad
triacontaeterid
triacontane
triaconter
triat
triacontal
triactione
tria
triad
triaephous
triadic
triadical
triadically
triadics
triadism
triadisms
triadist
triad
triaene
triaenoise
triage
triages
triagonal
triakid
triakicosahedral
triakicosahedron
triakisoctahedral
triakisoctahedrid
triakisoctahedron
triakistetrahedral
triakistetrahedron
trial
trial's
trialate
trialism
trialist
triality
trialogue
trials
triamcinolone
triamid
triamide
triamin
triamine
triamino
triammonium
triamorph
triamorphous
triamylose
triander
triandria
triandrian
triandrous
triangle
triangle's
triangled
triangler
triangles
triangleways
trianglewise
trianglework
triangular
triangularis
triangularity
triangularly
triangulate
triangulated
triangulately
triangulates
triangulating
triangulation
triangulations
triangulator
trianguloid
triangulopiramidal
triangulotriangular
triannual
triannulate
trianon
triantelope
trianthous
triapsal
triapsidal
triarch
triarchate
triarchies
triarchy
triarc
triarcuated
triareal
triarian
triarii
triarticulate
striary
striaryl
trias
triassic
triaster
triatic
triatomic
triatomically
triatomicity
triaxal
triaxial
triaxiality
triaxon
triaxonian
triazone
triazin
triazine
triazines
triazins
triazó
triazoic
triazole
triazoles
triazolic
trib
tribade
tribades
tribadic
tribadism
tribadistic
tribady
tribal
tribalism
tribalist
tribally
tribarred
tribase
tribasic
tribasicity
tribasilar
tribble
tribe
tribe's
tribeless
tribelet
tribelike
tribes
tribesfolk
tribeship
tribesman
tribesmanship
tribesmen
tribespeople
tribeswoman
tribeswomen
triblastic
triblet
triboelectric
triboelectricity
tribofluorescence
tribofluorescent
tribological
tribologist
tribology
triboluminescence
triboluminescent
tribometer
tribophosphorescence
tribophosphorescent
tribophosphoroscope
tribophysics
triborough
tribrac
tribrach
tribrachial
tribrachic
tribrachs
tribracteate
tribracteolate
tribromacetic
tribromid
tribromide
tribromoacetaldehyde
tribromoethanol
tribromophenol
tribromophenol
tribual
tribually
tribular
tribulate
tribulation
tribulations
trice
triced
tricellular
tricenaries
tricenarious
tricenarium
tricenary
tricennial
tricentenarian
tricentenary
tricentennial
tricentennials
tricentral
tricephal
tricephalic
tricephalous
tricephalus
triceps
tricepses
triceratops
triceratopses
triceria
tricerion
tricerium
trices
trichatrophia
trichauxis
trichechine
trichechodont
trichevron
trichi
trichia
trichiasis
trichina
trichinae
trichinal
trichinas
trichinella
trichiniasis
trichiniferous
trichinisation
trichinise
trichinised
trichinising
trichinization
trichinize
trichinized
trichinizing
trichinoid
trichinophobia
trichinopoli
trichinopoly
trichinoscope
trichinoscopy
trichinosed
trichinoses
trichinosis
trichinotic
trichinous
trichion
trichions
trichite
trichites
trichitic
trichitis
trichiurid
trichiuroid
trichloethylene
trichloethylenes
trichlorfon
trichlorid
trichloride
trichlormethane
trichloro
trichloroacetaldehyde
trichloroacetic
trichloroethane
trichloroethylene
trichloromethane
trichloromethanes
trichloromethyl
trichloronitromethane
trichobacteria
trichobezoar
trichoblast
trichobranchia
trichobranchiate
trichocarpous
trichocephaliasis
trichoclasia
trichoclasis
trichocyst
trichocystic
trichode
trichoepithelioma
trichogen
trichogenous
trichoglossia
trichoglossine
trichogyne
trichogynial
trichogynic
trichoid
trichological
trichologist
trichology
trichoma
trichomaphyte
trichomatose
trichomatosis
trichomatous
trichome
trichomes
trichomic
trichomonacidal
trichomonacide
trichomonad
trichomonadal
trichomonal
trichomoniasis
trichomycosis
trichonosis
trichonosus
trichonotid
trichopathic
trichopathophobia
trichopathy
trichophobia
trichophore
trichophoric
trichophyllous
trichophyte
trichophytia
trichophytic
trichophytosis
trichopore
trichopter
trichoptera
trichopteran
trichopteron
trichopterous
trichopterygid
trichord
trichorrhea
trichorrhhexic
trichorrhhexis
trichoschisis
trichoschistic
trichoschistism
trichosis
trichosporange
trichosporangial
trichosporangium
trichostasis
trichostrongyle
trichostrongylid
trichothallic
trichotillomania
trichotomic
trichotomies
trichotomy
trichotomy
trichromatic
trichromaticism
trichomatist
trichomatopiasis
trichrome
trichromic
trichronous
trichuriasis
trichy
tricing
tricinium
tricipital
tricircular
trick
tricked
tricker
trickeries
tickers
tickery
tickful
tickie
trickier
trickiest
trickily
trickiness
tricking
trickingly
trickish
trickishly
trickishness
trickle
trickled
trickles
trickless
tricklet
tricklier
trickliest
tricklike
trickling
tricklingly
tricky
trickment
trickproof
tricks
tricksical
tricksier
tricksiest
tricksily
tricksiness
tricksome
trickster
trickstering
tricksters
trickstress
tricky
tricktrack
triclad
triclads
triclinia
triclinate
triclinia
triclinial
tricliniarch
tricliniary
triclinic
triclinium
triclinohedric
tricoccose
tricuspid
tricuspidal
tricuspidate
tricuspidated
tricussate
tricyanide
tricycle
tricycled
tricyclene
tricycler
tricycles
tricyclic
tricycling
tricyclist
trid
tridacna
tridactyl
tridactylous
tridaily
triddler
tridecane
tridecene
tridecilateral
tridecoic
tridecyl
tridecylene
tridecyclic
trident
tridental
tridentate
tridentated
tridentiferous
tridentine
tridentlike
tridents
tridepside
tridermic
tridiagonal
tridiagonal
tridiatometral
tridiapason
tridigitate
tridi
tridimensional
tridimensionality
tridimensionally
tridimensioned
tridurnal
tridominium
trifurcal
trifurcate
trifurcated
trifurcating
trifurcation
trig
triga
trigae
trigamist
trigamous
trigamy
trigatron
trigeminal
trigemini
trigeminous
trigeminus
trigeneric
trigesimal
trigged
trigger
triggered
triggerfish
triggerfishes
triggering
triggerless
triggerman
triggers
triggered
trigget
trigging
trigintal
trigintennial
triglandular
triglid
triglochid
triglochin
triglot
trigly
triglyceride
triglycerides
triglyceryl
triglyph
triglyphal
triglyphed
triglyphic
triglyphical
triglyphs
trigness
trignesses
trigo
trigon
trigona
trigonal
trigonally
trigone
trigonellin
trigonelline
trigoneutic
trigoneutism
trigoniaceous
trigoniaceous
trigonic
trigonid
trigonite
trigonitis
trigonocephalic
trigonocephalous
trigonocephaly
trigonocerous
trigonododecahedron
trigonodont
trigonoid
trigonometer
trigonometria
trigonometric
trigonometrical
trigonometrically
trigonometrician
trigonometries
trigonometry
trigonon
trigonotype
trigonous
trigons
trigonum
trigos
trigram
trigrammatic
trigrammatism
trigrammic
trigrams
trigraph
trigraphic
trigraphs
trigs
triguttulate
trigyn
trigynia
trigynian
trigynous
trihalid
trihalide
trihedra
trihedral
trihedron
trihedrons
trihemeral
trihemimer
trihemimeral
trihemimeris
trihemiobol
trihemiobolion
trihemitetartemorion
trihoral
trihourly
trihybrid
trihydrate
trihydrated
trihydric
trihydride
trihydrol
trihydroxy
trihypostatic
triiodomethane
triiodothyronine
trijet
trijets
trijugate
trijugous
trijunction
trikaya
trike
triker
trikeria
trikerion
triketo
triketone
trikir
trilabe
trilabiate
trilamellar
trilamellated
trilaminar
trilaminate
trilarcenous
trilateral
trilaterality
trilaterally
trilateralness
trilateration
trilaurin
trilbies
trilby
trilemma
trilinear
trilineate
trilineated
trilingual
trilingualism
trilingually
trilinuar
trilinolate
trilinoleate
trilinolenate
trilinolenin
trilit
trilite
triliteral
triliteralism
triliterality
triliterally
triliteralness
trilith
trilithic
trilithon
trilium
trill
trillachan
trillado
trillando
trilled
triller
trillers
trillet
trilletto
trilli
trilliaceous
trillibub
trillin
trillil
trilling
trillion
trillionaire
trillionize
trillions
trillionth
trillionths
trillium
trilliums
trillo
trilloes
trills
trilobal
trilobate
trilobated
trilobation
trilobe
trilobed
trilobite
trilobitic
trilocular
triloculate
trilogic
trilogical
trilogies
trilogist
trilogy
trilophodont
triluminar
triluminous
trim
trimacer
trimacular
trimaculate
trimaculated
trimaran
trimarans
trimargarate
trimargarin
trimastigate
trimellic
trimellitic
trimembral
trimensual
trimer
trimercuric
trimeric
trimeride
trimerite
trimerization
trimerous
trimers
trimesic
trimesinic
trimesitic
trimesitinic
trimester
trimesters
trimestral
trimestrial
trimesyl
trimetalism
trimetallic
trimetallism
trimeter
trimeters
trimethadione
trimethoxy
trimethyl
trimethylacetic
trimethylamine
trimethylbenzene
trimethylene
trimethylglycine
trimethylmethane
trimethylstibine
trimetric
trimetrical
trimetrogon
trimly
trimmed
trimmer
trimmers
trimmess
trimming
trimmingly
trimmings
trimness
trimnesses
trimodal
trimodality
trimolecular
trimonthly
trimoric
trimorph
trimorphic
trimorphism
trimorphous
trimorphs
trimotor
trimotored
trimotors
trims
trimscript
trimscripts
trimstone
trimtram
trimucronatus
trimurti
trimuscular
trimyristate
trimyristin
trin
trina
trinacrian
trinal
trinality
trinalize
trinary
trination
trinational
trincheria
trindle
trindled
trindles
trindling
trine
trined
trinely
trinervate
trinerve
trinerved
trines
trineural
tringine
tringle
tringoid
trinidad
trinidad
trining
trinitarian
trinitarianism
trinitarians
trinities
trinitrate
trinitration
trinitrid
trinitride
trinitrin
trinitro
trinitroaniline
trinitrobenezene
trinitrocarbolic
trinitrocellulose
trinitroresol
trinitroglycerin
trinitromethane
trinitrophenol
trinitrophenylmethylnitramine
trinitroresorcin
trinitrotoluene
trinitrotoluol
trinitroxylene
trinitroxylol
trinity
trinityhood
trinitytide
trink
trinkerman
trinkermen
trinket
trinket's
trinketed
trinketer
trinketing
trinketries
trinketry
trinkets
trinkety
trinkle
trinklement
trinklet
trinkum
trinkums
trinocital
trinocitile
trinocular
trinodal
trinode
trinodine
trinol
trinomen
trinomial
trinomialism
triorchis
triorchism
triorthogonal
trios
triose
trioses
triovulate
trioxazine
trioxid
trioxide
trioxides
trioxids
trioxymethylene
triozonid
triozonide
trip
trip's
tripack
tripacks
tripal
tripaleolate
tripalmitate
tripalmitin
tripara
tripart
triparted
tripartedly
trippartible
trippartient
trippartite
trippartitely
trippartition
tripaschal
tripe
tripedal
tripel
tripelennamine
tripelike
tripeman
tripemonger
tripennate
tripenny
tripepetide
triperies
tripersonal
tripersonalism
tripersonalist
tripersonality
tripersonally
tripery
tripes
tripeshop
tripestone
tripetaloid
tripetalous
tripewife
tripewoman
triphammer
triphane
triphasic
triphaser
triphasy
triphenyl
triphenylamine
triphenylated
triphenylcarbinol
triphenylmethane
triphenylmethyl
triphenylphosphine
triphibian
triphibious
triphony
triphosphate
triphythong
triphythongal
triphythetic
triphyline
triphylite
triphyllous
tripinnate
tripinnated
tripinnately
tripinnatifid
tripinnatisect
triply
tripla
triplane
triplanes
triplasian
triplastic
triple
tripleback
tripled
triplefold
triplegia
tripleness
tripudiate
tripudiation
tripudist
tripudium
tripunctal
tripunctate
tripwire
tripy
tripylaean
tripylarian
tripylean
tripyrenous
triquadrantal
triquet
triquetra
triquetral
triquetric
triquetrous
triquetrously
triquetrum
triquinate
triquinoyl
triradial
triradially
triradiate
triradiated
triradiately
triradiation
triradii
triradius
triradiuses
trirectangular
triregnum
triere
triremes
trirhombohedral
trirhomboideal
triricinolein
trisaccharide
trisaccharose
trisacramentarian
trisagion
trisalt
trisazo
triscele
trisceles
trisceptral
trisect
trisonant
trispast
trispaston
trispermous
trispinose
trisplanchnic
trisporic
trisporous
trisquare
trist
tristachyous
tristan
tristate
triste
tristearate
tristearin
tristeness
tristesse
tristetrahedron
trитеza
tritezas
tristful
tristfully
tristfulness
tristich
tristiclic
tristicsous
tristics
tristigmatic
tristigmatose
tristilquoy
tristimulus
tristisonous
tristive
tristram
tristylous
tristyle
trisubstituted
trisubstitution
trisul
trisula
trisulc
trisulcate
trisulcated
trisulfate
trisulfid
trisulfide
trisulfone
trisulfoxid
trisulfoxide
trisulphate
trisulphid
trisulphide
trisulphone
trisulphonic
trisulphoxid
trisulphoxide
trisylabic
trisyllabic
trisyllabical
trisyllabically
trisyllabism
trisyllabity
trisyllable
trit
tritactic
tritagonist
tritangent
tritangential
tritanope
tritanopia
tritanopic
tritanopsia
tritanoptic
tritaph
trite
tritely
tritemorion
tritencephalon
triteness
triter
triternate
triternately
triterpene
triterpenoid
tritest
tritetartemorion
tritheism
tritheist
tritheistic
tritheistical
tritheite
tritheocracy
trithing
trithings
trithioaldehyde
trithiocarbonate
trithiocarbonic
trithionate
trithionates
trithionic
tritiate
tritiated
tritical
triticale
triticality
triticaly
triticalness
triticeous
triticeum
triticin
triticism
triticoid
triticum
triticums
tritish
tritium
tritiuums
tritocerebral
tritocerebrum
tritocone
tritoconid
tritolo
tritoma
tritomas
tritomite
triton
tritonal
tritonality
tritone
tritones
tritonoid
tritonous
tritons
tritonymph
tritonymphal
tritopatores
tritopine
tritor
tritoral
tritorium
tritoxide
tritozoooid
tritriacontane
triurid
triivalence
trivalency
trivalent
trivaler
trivalve
trivalves
trivalvular
trivant
trivantly
trivariant
trivat
triverbal
triverbial
trivet
trivets
trivette
trivetwise
trivia
trivial
trivialisation
trivialise
trivialised
trivialising
trivialism
trivialist
trivialities
triviality
trivialization
trivialize
trivializing
trivially
trivialness
triverga
trivirgate
trivium
trivoltine
trivet
triweeklies
triweekly
triweekliess
trweekly
trivet
trizoic
trizomal
trizonal
trizone
troak
troaked
troaking
troaks
troat	
trobador
troca
trocaical
trocar
trocars
troch
trocha
trochaic
trochaicality
trochaically
trochaics
trochal
trochalopod
trochalopodous
trochanter
trochanteral
trochanteric
trochanterion
trochantin
trochantine
trochantinian
trochar
trochars
trochart
trochate
troche
trocheameter
troched
trochee
trocheeize
trochees	
trochelminth
troches
trocheus
trochi
trochid
trochiferous
trochiform
trochil
trochili
trochilic
trochilics
trochilidae
trochilidine
trochilidist
trochiline
trochilopodous
trochilos
trochils
trochiluli
trochilus
troching
trochiscation
trochisci
trochiscus
trochisk
trochite
trochitic
trochlea
trochleae
trochlear
trochleariform
trochlearis
trochleary
trochleas
trochlate
trochleiform
trochocephalia
trochocephalic
trochocephalus
trochocephaly
trochodendraceous
trochoid
trochoidal
trochoidally
trochoides
trochoids
trochometer
trochophore
trochosphere
trochospherical
trochozoic
trochozoon
trochus	rock
trocked
trockery
trocking
	rocks

troco
troctolite

trod
trodden
trolley
trolley's
trolleybus
trolleyed
trolleyer
trolleyful
trolleying
trolleyman
trolleymen	
trolleys
trollflower
trolled
trollies
trollimog
trolling
trollings
trollman
trollmen	
trollol	
trollop
trollopian
trolloping
trollophish
trollops
trollopy	
trolls
tolly
tollying
tollyman
tollymen	
tromba
trombash
trombe
trombiculid	
trombidiasis
trombidiosis	
trombone
trombones
trombonist
trombonists
trombony
trommel
trommels
tromometer
tromometric
tromometrical
tromometry	
tromp
trophology
trophon
trophonema
trophoneurosis
trophoneurotic
trophonian
trophonuclear
trophopathy
trophophore
trophophorous
trophophyte
trophoplasm
trophoplasmatic
trophoplasmic
trophoplast
trophosomal
trophosome
trophosperm
trophosphere
trophospongia
trophospongial
trophospongium
trophospore
trophotaxis
trophotherapy
trophothylax
trophotropic
trophotropism
trophozoite
trophozooid
trophy
trophy's
trophying
trophyless
trophylwort
tropia
tropic
tropic's
tropical
tropicalih
tropicalisation
tropicalise
tropicalised
tropicalising
tropicality
tropicalization
tropicalize
tropicalized
tropicalizing
tropically
tropicbird
tropicopolitan
tropics
tropidine
tropin
tropine
tropines
tropins
tropism
tropismatic
tropisms
tropist
tropistic
tropocaine
tropocollagen	
tropolologic
tropological
tropologically
tropolologies	
tropologize
tropologized
tropologizing
tropology	
tropometer
tropomyosin
tropopause
tropophil	
tropophilous
tropophyte
tropophytic
troposphere
tropospheric
tropostereoscope
tropotaxis	
tropoyl
troppaia
troppo	
troptometer
tropyl	
trostera	
trot	
trotcozy	
troth	
trothed	
trothful	
trothing
trothless
trothlessness
trothlike
trothplight
troths
trotlet
trotline
trotlines
trotol
trots
trotskyism
trotted
trotter
trotters
trotteur
tottie
trotting
trottles
trottoir
trottoired
totty
trotyl
trotyls
troubadador
troubadour
troubadourish
troubadourism
troubadourist
troubadours
trouble
troubled
troubledly
troubledness
troublemaker
troublemaker's
troublemakers
troublemaking
troublemement
troubleproof
troubler
troublers
troubles
troubleshoot
troubleshooted
troubleshooter
troubleshooters
troubleshooting
troubleshoots
truckdriver
truck
truck
truckers
truckful
truckie
truckings
truckle
truckled
trucker
trucklers
truckles
trucklike
truckline
truckling
truckingly
truckload
truckloads
truckman
truckmaster
truckmen
trucks
truckster
truckway
truculence
truculency
truculent
truculental
truculently
truculentness
truddo
trudellite
trudge
trudged
trudgen
trudgens
trudgeon
trudgeons
trudger
trudgers
trudges
trudging
true
trueblue
trueblues
trueborn
truebred
trussing
trussings
trussmaker
trussmaking
trusswork
trust
trustability
trustable
trustableness
trustably
trustbuster
trustbusting
trusted
trustee
trustee's
trusteed
trusteering
trusteeism
trustees
trusteeship
trusteeships
trusteing
trusten
truster
trusters
trustful
trustfully
trustfulness
trustier
trusties
trustiest
trustification
trustified
trustify
trustifying
trustihood
trustily
trustiness
trusting
trustingly
trustingness
trustle
trustless
trustlessly
trustlessness
trustman
trustmen
trustmonger
trustor
trusts
trustwoman
trustwomen
trustworthier
trustworthiest
trustworthily
trustworthiness
trustworthy
trusty
truth
truthable
truthful
truthfully
truthfulness
truthify
truthiness
truthless
truthlessly
truthlessness
truthlike
truthlikeness
truths
truthsman
truthsteller
truthstelling
truthy
trutinate
trutination
trutine
truttaceous
truvat
truxillic
truxillin
truxilline
try
trygon
tryhouse
trying
tryingly
tryingness
tryma
trymata
tryms
tryout
tryouts
tryp
trypa
trytophan
tryworks
ts
tsade
tsades
tsadi
tsadik
tsadis
tsamba
tsantsa
tsar
tsardom
tsardoms
tsarevitch
tsarevna
tsarevnas
tsarina
tsarinas
tsarism
tsarisms
tsarist
tsaristic
tsarists
tsaritza
tsaritzas
tsars
tsarship
tsatlee
tscharik
tscheffkinite
tschernosem
tsere
tsessebe
tset
tsetse
tsetses
tshi
tshiluba
tsi
tsia
tsimmes
tsine
tsingtauite
tsiology
tsitsith
tsk
tsked
tsking
tsks
tubbal
tubbeck
tubbed
tubber
tubbers
tubbie
tubbier
tubbiest
tubbiness
tubbing
tubbish
tubbist
tubboe
tubby
tube
tubectomies
tubectomy
tubed
tubeflower
tubeform
tubeful
tubehead
tubehearted
tubeless
tubelet
tubelike
tubemaker
tubemaking
tubeman
tubemen
tubenose
tuber
tuberaceous
tuberation
tubercle
tubercled
tuberclelike
tubercles
tubercula
tubercular
tuberculariaceous
tubercularisation
tubercularise
tubercularised
tubercularising
tubercularization
tubercularize
tubercularized
tubercularizing
tubercularly
tubercularness
tuberculate
tuberculated
tuberculatedly
tuberculately
tuberculation
tuberculatogibbous
tuberculatonodose
tuberculatoradiate
tuberculatospinous
tubercule
tuberculed
tuberculid
tuberculide
tuberculiferous
tuberculiform
tuberculin
tuberculation
tuberculine
tuberculinc

tuberculinisation
tuberculinise
tuberculinsed
tuberculinising
tuberculinization
tuberculinize
tuberculinized
tuberculinizing
tuberculisisation
tuberculise
tuberculised
tuberculising
tuberculization
tuberculize
tuberculocele
tuberculocidin
tuberculoderma
tuberculoid
tuberculoma
tuberculomania
tuberculomas
tuberculomata
tuberculophobia
tuberculoprotein
tuberculose
tuberculosectorial
tubulature
tubule
tubules
tubulet
tubuli
tubulibranch
tubulibranchian
tubulibranchiate
tubulidentate
tubuliferan
tubuliferous
tubulifloral
tubuliflorous
tubuliform
tubulipore
tubuliporid
tubuliporoid
tubulization
tubulodermoid
tubuloracemose
tubulosaccular
tubulose
tubulostriatish
tubulous
tubulously
tubulousness
tubulure
tubulures
tubulus
tubulophone
tubwoman	
tucandera	
tuchis	
tuchit	
tuchun	
tuchunate	
tuchunism	
tuchunize	
tuchuns	
tuck	
tuckahoe	
tuckahoese	
tucked	
tucker	
tuckered	
tuckering	
tuckermanity	
tuckers
tufts
tufty
tug
tugboat
tugboatman
tugboatmen
tugboats
tugged
tugger
tuggers
tuggery
tugging
tuggingly
tughra
tugless
tuglike
tugman
tugrik
tugriks
tugs
tugui
tuguria
tugurium	u	uik
tuille
tuilles
tuillette
tuilyie
tuilzie	uingga	uis	tuism	uition
tuitional
tuitionary
tuitionless
tuitions
tuisse
tuke	ukra	ukutuku	ula	uladi	uladis	ulaemia	ulaemic	ulare
tularemia
tularemic
tulasi
tulcan
tulchan
tulchin
tule	ules
tuliac
tulip
tulip's
tulipant
tulipflower
tulpi
tulipiferous
tulipist
tuliplike
tulipomania
tulipomaniac
tulips
tulipwood
tulipy
tulisan
tulisanes	ulle
tulles
tullibee
tullibees
tulnic
tulsa	ulsi	ulwar
tulwaur	um	umain	umasha	umatakuru	umatukuru	umbak	umbaki	umbek	umbeki	umbeketi	umbester	umble	tumblebug	tumbled
tumbledown	tumbledung
tumblehome
tumbler
tumblerful
tumblerlike
tumblers
tumblerwise
tumbles
tumbleweed
tumbleweeds
tumblification
tumbling
tumblingly
tumblings	umbly
tumbrel
	umbrels	umbrel	umbril
tumbrils
tume
tumefacient
tumefaction
tumefactive
tumefied
tumefies	umefy
tumefying
tumeric
tumescence
tumescent	umfie
tumid
tumidily	umidities	umidity	umidly	umidness	umli
tummals	ummed	ummel	ummeler
tummels	ummer	ummies	umming	ummock
tummuler
tummy
tungstens
tungstic
tungstitre
tungstosilicate
tungstosilicic
tungstous
tungus
tungusic
tunhoof
tunic
tunic's
tunica
tunicae
tunicary
tunicata
tunicate
tunicated
tunicates
tunicin
tunicked
tunicle
tunicles
tunicless
tunics
tuniness
tuning
tunings
tunis
tunish
tunisia
tunisian
tunisians
tunist
tunk
tunka
tunket
tunland
tunlike
tunmoot
tunna
tunnage
tunnages
tunned
tunnel
tunneled
tunneler
tunnelers
tunneling
<table>
<thead>
<tr>
<th>term</th>
</tr>
</thead>
<tbody>
<tr>
<td>turbidity</td>
</tr>
<tr>
<td>turbidly</td>
</tr>
<tr>
<td>turbidness</td>
</tr>
<tr>
<td>turbinaceous</td>
</tr>
<tr>
<td>turbinage</td>
</tr>
<tr>
<td>turbinal</td>
</tr>
<tr>
<td>turbinals</td>
</tr>
<tr>
<td>turbinate</td>
</tr>
<tr>
<td>turbinated</td>
</tr>
<tr>
<td>turbination</td>
</tr>
<tr>
<td>turbinatoconcave</td>
</tr>
<tr>
<td>turbinatocylindrical</td>
</tr>
<tr>
<td>turbinatoglobose</td>
</tr>
<tr>
<td>turbinostipitae</td>
</tr>
<tr>
<td>turbine</td>
</tr>
<tr>
<td>turbinectomy</td>
</tr>
<tr>
<td>turbined</td>
</tr>
<tr>
<td>turbinelike</td>
</tr>
<tr>
<td>turbinelloid</td>
</tr>
<tr>
<td>turbiner</td>
</tr>
<tr>
<td>turbines</td>
</tr>
<tr>
<td>turbiniform</td>
</tr>
<tr>
<td>turbinite</td>
</tr>
<tr>
<td>turbinoid</td>
</tr>
<tr>
<td>turbinotome</td>
</tr>
<tr>
<td>turbinotomy</td>
</tr>
<tr>
<td>turbit</td>
</tr>
<tr>
<td>turbitomy</td>
</tr>
<tr>
<td>turbith</td>
</tr>
<tr>
<td>turbiths</td>
</tr>
<tr>
<td>turbits</td>
</tr>
<tr>
<td>turbitteen</td>
</tr>
<tr>
<td>turble</td>
</tr>
<tr>
<td>turbo</td>
</tr>
<tr>
<td>turboalternator</td>
</tr>
<tr>
<td>turboblower</td>
</tr>
<tr>
<td>turbocar</td>
</tr>
<tr>
<td>turbocars</td>
</tr>
<tr>
<td>turbocharge</td>
</tr>
<tr>
<td>turbocharger</td>
</tr>
<tr>
<td>turbocompressor</td>
</tr>
<tr>
<td>turbodynamo</td>
</tr>
<tr>
<td>turboelectric</td>
</tr>
<tr>
<td>turboexciter</td>
</tr>
<tr>
<td>turbofan</td>
</tr>
<tr>
<td>turbofans</td>
</tr>
<tr>
<td>turbogenerator</td>
</tr>
<tr>
<td>turbojet</td>
</tr>
<tr>
<td>turbojets</td>
</tr>
</tbody>
</table>
tumrow
turns
turnscrew
turnsheet
turnskin
turnsole
turnsoles
turnspit
turnspits
turnstile
turnstiles
turnstone
turntable
turntables
turntail
turntale
turnup
turnups
turnverein
turnway
turnwrest
turnwrist
turonian
turophile
turp
turpantineweed
turpentine
turpentined
turpentineweed
turpentinic
turpentining
turpentinous
turpentiny
turpeth
turpethin
turpeths
turpid
turpidly
turpify
turpinite
turpis
turpitude
turps
turquet
turquois
turquoise
turquoisberry
turquoiselike
turquoises
turr
turrel
turrell
turret
turret's
turreted
turrethead
turreting
turretless
turretle
turrets
turrical
turricle
turricula
turriculae
turricular
turriculate
turriculated
turriferous
turriform
turrigerous
turrilite
turriliticone
turrian
turriated
turriell
turriellid
turritelloid
turrum
turse
tursio
turtle
turtle's
turtleback
turtlebloom
turled
turtledom
turtledove
turtledoved
turtledoves
turtledoving
turtlehead
turtleize
turtlle
turtllike
turtleneck
turtlenecks
turtlepeg
tutler
tutly
tutman
tutmen
tutoiement
tutor
tutorage
tutorages
tutored
tutorer
tutress
tutoresses
tutorhood
tutorial
tutorial’s
tutorially
tutorials
tutoriate
tutoring
tutorism
tutorization
 tutorize
tutorless
tutorly
tutors
tutorship
tutory
tutoyed
tutoyer
tutoyered
tutoyering
tutoyers
tutress
tutrice
tutrix
tuts
tutsan
tutster
tutted
 tutti
tutties
tuttiman
tutting
 tuttis	utto
tutty	tuttyman	tutu
twinelike
twinemaker
twinemaking
twiner
twiners
twines
twinflower
twinfold
twinge
twinged
twingeing
twinges
twinging
twingle
twinhood
twiner
twiniest
twinight
twinighter
twinighters
twining
twiningly
twinism
twink
twinkle
twinkled
twinkledum
twinkleproof
twinkler
twinklers
twinkles
twinkless
twinkling
twinklingly
twinkly
twinkleaf
twinlike
twinling
twingly
twinned
twiner
twinness
twinning
twinnings
twins
twinship
twinships
twinsomeness
twitchers
twitches
twitchet
twitchety
twitchfire
twitchier
twitchiest
twitchily
twitchiness
twitching
twitchingly
twitchy
twite
twitlark
twits
twitted
twitten
twitter
twitteration
twitterboned
twittered
twitterer
twittering
twitteringly
twitterly
twit
twitterers
twittery
twittering
twit
twitt
twittle
twitty
twixt
twixtbrain
twizzened	wizzle
two
two's	wodecker
twoes
twofer	wofers	wofold
twofoldly	wofoldness
twofolds
twohandedness	wolegged	woling
types
typescript
typescripts
typeset
typeseting
typesets
typesetter
typesetters
typesetting
typesof
typewrite
typewriter
typewriter's
typewriters
typewrites
typewriting
typewritten
typewrote
typey
typhaceous
typhaemia
typhemia
typhia
typhic
typhinia
typhization
typhlatonia
typhlatoxy
typhlectasis
typhlectomy
typhlenteritis
typhlitic
typhlitis
typhloalbuminuria
typhlocele
typhloempyema
typhloenteritis
typhlohepatitis
typhlolexia
typhlliolithiasis
typhlologies
typhhology
typhhomegaly
typhlon
typhlopectia
typhlopecty
typhlophile
typhlopid
typhloptosis
typhlosis
typhlosolar
typhlosole
typhlosthenosis
typhlostomy
typhlotomy
typhoaemia
typhobacillosis
typhoean
typhoemia
typhoeus
typhogenic
typhoid
typhoidal
typhoidin
typhoidlike
typhoids
typholysin
typhomalaria
typhomalarial
typhomania
typhon
typhonia
typhonic
typhons
typhoon
typhoonish
typhoons
typhopneumonia
typhose
typhosepsis
typhosis
typhotoxine
typhous
typhus
typhuses
typic
typica
typical
typicality
typically
typicalness
typicon
typicum
typier
typiest
typification
typified
typifier
typifiers
typifies
typify
typifying
typi
типикон
типиконов
typing
typist
typist's
typists
typo
typobar
typocosmy
typograph
typographer
typographers
typographia
typographic
typographical
typographically
typographies
typographist
typography
typolithographic
typolithography
typologic
typological
typologically
typologies
typologist
typology
typomania
typometry
typonym
typonymal
typonymic
typonymous
typophile
typorama
typos
typoscript
typotelegraph
typotelegraphy
typothere
typothetae
tyum
tzaddik
tzaddikim
tzar
tzardom
tzardoms
tzarevich
tzarevitch
tzarevna
tzarevnas
tzarina
tzarinas
tzarism
tzarisms
tzarist
tzaristic
tzarists
tzaritza
tzaritzas
tzars
tzedakah
tzetse
tzetze
tzetzes
tzidine
ztigane
ztiganes
tzimmes
tzitzis
tzitzith
tzolkin
tzontle
tzuris
u
u's
uakari
ualis
uang
uayeb
ubangi
ubc
uberant
uberous
uberously
uberousness
uberrima
uberties
uberty
ubi
uigur
uily
uin
uintahite
uintaite
uintaites
uintatherere
uintjie
uit
uitlander
uitspan
ui
ukase
ukases
uke
ukelele
ukeleles
ukes
ukiyoe
ukiyoye
ukraine
ukrainian
ukrainians
ukranian
ukulele
ukuleles
ula
ulama
ulamas
ulan
ulans
ulatrophia
ulatrophy
ulaula
ulcer
ulcer's
ulcerable
ulcerate
ulcerated
ulcerates
ulcerating
ulceration
ulcerations
ulcerative
ulcered
ulcering
ulceromembranous
ulcerous
ulnocondylar
ulnometacarpal
ulnoradial
uloborid
ulocarcinoma
uloid
uloncus
ulorrhagia
ulorrhagy
ulorrhea
ulotrichaceous
ulotrichan
ulotrichous
ulotrichy
ulpan
ulpanim
ulrichite
ulster
ulstered
ulsterette
ulstering
ulsters
ult
ulta
ulterior
ulteriorly
ultima
ultimacies
ultimacy
ultimas
ultimata
ultimate
ultimated
ultimately
ultimateness
ultimates
ultimating
ultimation
ultimatum
ultimatums
ultime
ultimity
ultimo
ultimobranchial
ultimogenitary
ultimogeniture
ultimum
ультон
ulto
ultonian
ultra
ultrabasic
ultrabasite
ultrabelieving
ultrabenevolent
ultrabrachycephalic
ultrabrachycephaly
ultrabrilliant
ultracentenarian
ultracentenarianism
ultracentralizer
ultracentrifugal
ultracentrifugally
ultracentrifugation
ultracentrifuge
ultracentrifuged
ultracentrifusing
ultracentrifuging
ultraceleremonious
ultrachurchism
ultracentral
ultracomplex
ultraconcomitant
ultracondenser
ultraconfident
ultraconscientious
ultraconservatism
ultraconservative
ultraconservatives
ultracordial
ultracosmopolitan
ultracredulous
ultracrepidarian
ultracrepidarianism
ultracrepidate
ultracritical
ultradandyism
ultradeclamatory
ultrademocratic
ultradespotic
ultradignified
ultradiscipline
ultradolichocephalic
ultradolichocephaly
ultradolichocranial
ultradr
ultraeducationist
ultraeligible
ultraelliptic
ultraemphasis
ultraenergetic
ultraenforcement
ultraenthusiasm
ultraenthusiastic
ultraepiscopal
ultraevangelical
ultraexcessive
ultraexclusive
ultraexpeditious
ultraenthusiastic
ultrafantastic
ultrafashionable
ultrafast
ultrafastidious
ultrafederalist
ultrafeudal
ultrafiche
ultrafiches
ultrafidian
ultrafidianism
ultrafilter
ultrafilterability
ultrafilterable
ultrafiltrate
ultrafiltration
ultraformal
ultrafrivolous
ultragallant
ultragaseous
ultragenteel
ultragood
ultragrave
ultrahazardous
ultraheroic
ultrahigh
ultrahonorable
ultrahot
ultrahuman
ultramperialism
ultramperialist
ultrampersonal
ultrainclusive
ultraindifferent
ultraindulgent
ultraingenious
ultrainsistent
ultraintimate
ultrainvolved
ultraism
ultraisms
ultraist
ultraistic
ultraists
ultralaborious
ultralegality
ultralenient
ultraliberal
ultraliberalism
ultralogical
ultralow
ultraloyal
ultraluxurious
ultramarine
ultramascuine
ultramasculinity
ultramatrial
ultramaximal
ultramelancholy
ultrametamorphism
ultramicro
ultramicrobe
ultramicrochemical
ultramicrochemist
ultramicrochemistry
ultramicrometer
ultramicron
ultramicroscope
ultramicroscopic
ultramicroscopical
ultramicroscopically
ultramicroscopy
ultramicrotome
ultraminiature
ultraminate
ultramoderate
ultramodern
ultramodernism
ultramodernist
ultramodernistic
ultramodest
ultramontane
ultramontanism
ultramontanist
ultramorose
ultramulish
ultramundane
ultranational
ultranationalism
ultranationalist
ultranationalistic
ultranationalistically
ultranatural
ultranegligent
ultranet
ultranice
ultranonsensical
ultraobscurc
ultraobstinate
ultraofficious
ultraoptimistic
ultraorganized
ultraornate
ultraorthodox
ultraorthodoxy
ultraoutrageous
ultrapapist
ultraparallel
ultraperfect
ultrapersuasive
ultraphotomicrograph
ultrapious
ultraplantarey
ultraplausible
ultrapopish
ultraproud
ultraprudent
ultrapure
ultraradical
ultraradicalism
ultrarapid
ultrareactionary
ultrared
ultrareds
ultrarefined
ultrarefinement
ultrareligious
ultraremuneration
ultrarepublican
ultrarevolutionary
ultrarevolutionist
ultraritualism
ultraromantic
ultraroyalism
ultraroyalist
ultras
ultrasanguine
ultrascholastic
ultrasecret
ultraselect
ultraservile
ultrasevere
ultrashort
ultrashrewd
ultrasimian
ultrasmart
ultrasolemn
ultrasonic
ultrasonically
ultrasonics
ultrasonogram
ultrasonography
ultrasound
ultraspartan
ultraspecialization
ultraspiritualism
ultrasplendid
ultrastandardization
ultrastellar
ultrasterile
ultrastrenuous
ultrastRICT
ultrastructural
ultrastructure
ultrastylish
ultrasubtle
ultrasuede
ultrasySTEMATIC
ultratechnical
ultratense
ultraterrene
ultraterrestrial
ultratotal
ultratrivial
ultratropical
ultrathygly
ultrauncommon
ultraurgent
ultravicious
ultravioLET
ultravirtuous
ultravirus
ultraviruses
ultravisible
ultrawealthy
ultrawise
ultrayoung
ultrazealous
ultrazealousness
ultrazodiacal
ultroneous
ultroneously
ultroneousness
ulu
ulu
uluhi
ululant
ululate
ululated
ululates
ululating
ululation
ululations
ululative
ululatory
ululu
ulus
ulva
ulvaceous
ulvas
ulyssen
ulysses
um
umangite
umangites
umbecast
umbeclad
umbel
umbelap
umbeled
umbella
umbellar
umbellate
umbellated
umbellately
umbelled
umbellet
umbellets
umbellic
umbellifer
umbelliferone
umbelliferous
umbelliflorous
umbelliform
umbelloid
umbellulate
umbellule
umbelluliferous
umbels
umbelwort
umber
umbered
umberima
umbering
umber
umbery
umbeset
umbethink
umbibilici
umbilectomy
umbilic
umbilical
umbilically
umbilicar
umbilicate
umbilicated
umbilation
umbilici
umbiliciform
umbilicus
umbilicuses
umbiliform
umbilroot
umble
umbles
umbo
umbolateral
umbonal
umbonate
umbonated
umbonation
umbone
umbones
umbonial
umbonic
umbonulate
umbonule
umbos
umbra
umbracious
umbraciousness
umbracle
umbraculate
umbraculiferous
umbraculiform
umbraculum
umbrae
umbrage
umbrageous
umbrageously
umbrageousness
umbrages
umbraid
umbral
umbrally
umbrana
umbras
umbrate
umbrated
umbratic
umbratical
umbratile
umbre
umbrel
umbrella
umbrella's
umbrellaed
umbrellaing
umbrellaless
umbrellalike
umbrellas
umbrellawise
umbrellawort
umbrene
umbret
umbrette
umbrettas
umbrian
umbriferous
umbriferously
umbriferousness
umbril
umbrina
umbrane
umpteenth
umptekite
umptieth
unfty
umpy
umquhile
umset
umstroke
umteen
umteenth
umu
una
unabandoned
unabandoning
unabased
unabasedly
unabashable
unabashed
unabashedly
unabasing
unabatable
unabated
unabatedly
unabating
unabatingly
unabbreviated
unabdictated
unabdicating
unabdicative
unabducted
unabetted
unabettedness
unabetting
unabhorred
unabhorrently
unabiding
unabidingly
unabidingness
unability
unbject
unobjective
unjectly
unjectness
unbjurator
unbjiured
unblative
unable
unableness
unably
unabnegated
unabnegating
unabolishable
unabolished
unaborted
unabortive
unabortively
unabortiveness
unabraded
unabraded
unabraded
unabrashed
unabraded
unabrasive
unabraded
unabraded
unabrashed
unabraded
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashed
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabrashd
unabundance
unabundant
unabundantly
unabusable
unabused
unabusive
unabusively
unabusiveness
unabutting
unacademic
unacademical
unacademically
unacceding
unaccelerated
unaccelerative
unaccent
unaccented
unaccentuated
unaccept
unacceptability
unacceptable
unacceptableness
unacceptably
unacceptance
unacceptant
unaccepted
unaccepting
unaccessibility
unaccessible
unaccessibleness
unaccessibly
unaccessional
unaccessory
unaccidental
unaccidentally
unaccidented
unacclimate
unacclaimed
unacclimated
unacclimation
unacclimatised
unacclimatisation
unacclimatized
unacclivitous
unacclivitously
unaccommodable
unaccommodated
unaccommodatedness
unaccommodating
unaccommodatingly
unaccommodatingness
unaccompanable
unaccompanied
unaccompanying
unaccomplishable
unaccomplished
unaccomplishedness
unaccord
unaccordable
unaccordance
unaccordant
unaccorded
unaccording
unaccordingly
unaccostable
unaccosted
unaccountability
unaccountable
unaccountableness
unaccountably
unaccounted
unaccoutered
unaccourted
unaccredited
unaccredited
unaccrued
unaccumulable
unaccumulate
unaccumulated
unaccumulation
unaccumulative
unaccumulatively
unaccumulativeness
unaccuracy
unaccurate
unaccurately
unaccurateness
unaccursed
unaccusable
unaccusably
unaccuse
unaccused
unaccusing
unaccusingly
unaccustomed
unaccustomed
unaccustomedly
unaccustomedness
unacerbic
unacerbically
unacetic
unachievability
unachievable
unachieved
unaching
unachingly
unacidic
unacidulated
unacknowledged
unacknowledgedness
unacknowledging
unacknowledgment
unacoustic
unacoustical
unacoustically
unacquaint
unacquaintable
unacquaintance
unacquainted
unacquaintedly
unacquaintedness
unacquiescent
unacquisitively
unacquirability
unacquirable
unacquirableness
unacquirably
unacquired
unacquisitive
unacquisitively
unacquisitiveness
unacquit
unacquirable
unacquittable
unacquitted
unacquittedness
unacrimonious
unacrimoniously
unacrimoniousness
unact
unactability
unactable
unacted
unacting
unactinic
unaction
unactionable
unactivated
unactive
unactively
unactiveness
unactivity
unactorlike
unactual
unactuality
unactually
unactuated
unacuminous
unacute
unacutely
unadamant
unadapt
unadaptability
unadaptable
unadaptableness
unadaptably
unadaptableness
unadapted
unadaptedly
unadaptedness
unadaptive
unadaptively
unadaptiveness
unadd
unaddable
unadded
unaddible
unaddicted
unaddictedness
unadditional
unadditioned
unaddled
unaddress
unaddressed
unadduceable
unadduced
unadducible
unadept
unadeptly
unadeptness
unadequate
unadequately
unadequateness
unadaptable
unadoptably
unadopted
unadoption
unadoptional
unadptive
unadptively
unadorable
unadorableness
unadorably
unadoration
unadored
unadoring
unadoringly
unadorn
unadornable
unadorned
unadornedly
unadornedness
unadornment
unadroit
unadroitly
unadroitness
unadulating
unadulatory
unadult
unadulterate
unadulterated
unadulteratedly
unadulteratedness
unadulterately
unadulteration
unadulterous
unadulterously
unadvanced
unadvancedly
unadvancedness
unadvancement
unadvancing
unadvantaged
unadvantageous
unadvantageously
unadvantageousness
unadventured
unadventuring
unadventurous
unadventurously
unadventurousness
unadverse
unadversely
unadverseness
unadvertency
unadvertised
unadvertisement
unadvertising
unadvisability
unadvisable
unadvisableness
unadvisably
unadvised
unadvisedly
unadvisedness
unadvocated
unaerated
unaesthetic
unaesthetical
unaesthetically
unaestheticism
unaestheticness
unafeard
unafeared
unaffability
unaffable
unaffableness
unaffably
unaffectation
unaffected
unaffectedly
unaffectedness
unffecting
unaffectionate
unaffectionately
unaffectionateness
unaffectioned
unaffianced
unaffied
unaffiliated
unaffiliation
unaffirmation
unaffirmed
unaffixed
unafflicted
unafflictedly
unafflictedness
unafflicting
unaffliction
unaffordable
unafforded
unaffranchised
unaffrighted
unaffrightedly
unaffronted
unafire
unafloat
unalong
unafraid
unafraidness
unaged
unageing
unagglomerative
unaggravated
unaggravating
unaggregated
unaggression
unaggressive
unaggressively
unaggressiveness
unagghast
unagile
unagilely
unagility
unaging
unagitated
unagitatedly
unagitatedness
unagitation
unagonize
unagrarian
unagreeable
unagreeableness
unagreeably
unagreed
unagreeing
unagreement
unagricultural
unagriculturally
unai
unaidable
unaided
unaidedly
unaiding
unailing
unaimed
unaiming
unairable
unaired
unairily
unais
unaisled
unakin
unakite
unal
unalacritous
unalarm
unalarmed
unalarming
unalarmingly
unalcoholised
unalcoholized
unaldermanly
unalert
unalerted
unalertly
unalertness
unalgebraical
unalienability
unalienable
unalienableness
unalienably
unalienated
unalienating
unalignable
unaligned
unlike
unalimentary
unalimentative
unalist
unalive
unallayable
unallayably
unallayed
unalleged
unallegedly
unallegorical
unallegorically
unallegorized
unallergic
unallievably
unallievated
unallievatedly
unallievating
unallievatingly
unalleviation
unalleviative
unalliable
unallied
unalliedly
unalliedness
unalliterated
unalliterative
unallocated
unallotment
unallotted
unallow
unallowable
unallowably
unallowed
unallowedly
unallowing
unalloyed
unal lurable
unal lured
unalurring
unalluringly
un allusive
unallusively
unallusiveness
unalmsed
unalone
unaloud
unalphabeted
unalphabetic
unalphabetical
unalphabetised
unalphabetized
unalterability
unalterable
unalterableness
unalterably
unalteration
unalterative
unaltered
unaltering
unalternated
unalternating
unaltruistic
unaltruistically
unamalgamable
unamalgamated
unamalgamating
unamorous
unamorously
unamorousness
unamortization
unamortized
unample
unamplifiable
unamplified
unamply
unamputated
unamputative
unamusable
unamusably
unamused
unamusement
unamusing
unamusingly
unamusingness
unamusive
unanachronic
unanachronistic
unanachronistically
unanachronous
unanachronously
unanemic
unanalogous
unanalogously
unanalogousness
unanalogical
unanalogically
unanalogized
unanalogous
unanalogously
unanalogousness
unanalytic
unanalytical
unanalytically
unanalyzable
unanalyzably
unanalyzed
unanalyzing
unanarchic
unanarchistic
unanatomisable
unanatomised
unanatomizable
unanatomized
unancestored
unancestried
unanchor
unanchored
unanchoring
unanchors
unanchylosed
unancient
unanecdotal
unanecdotally
unaneled
unanemic
unganic
unganical
unganicalness
unangered
unangrily
unangry
unanguished
unangular
unangularly
unangularness
unanimalized
unanimate
unanimated
unanimatedly
unanimatedness
unanimately
unanimating
unanimatingly
unanime
unanimism
unanimist
unanimistic
unanimistically
unanimiter
unanimities
unanimity
unanimous
unanimously
unanimousness
unannealed
unannex
unannexable
unannexed
unannexedly
unannexedness
unannihilable
unannihilated
unannihilative
unannihilatory
unannotated
unannounced
unannoyed
unannoying
unannoyingly
unannullable
unannulled
unannunciable
unannunciative
unanointed
unanswerability
unanswerable
unanswerableness
unanswerably
unanswered
unanswering
unantagonisable
unantagonised
unantagonising
unantagonistic
unantagonizable
unantagonized
unantagonizing
unanthologized
unanticipated
unanticipatedly
unanticipating
unanticipatingly
unanticipation
unanticipative
unantiquated
unantiquatedness
unantique
unantiquity
unantlered
unanxiety
unanxious
unanxiously
unanxiousness
unapart
unaphasic
unapocryphal
unapologetic
unapologetically
unapologizing
unapostatized
unapostolic
unapostolical
unapostolically
unapostrophized
unappalled
unappalling
unappallingly
unapparel
unapparelled
unapparent
unapparently
unapparentness
unappealable
unappealableness
unappealably
unappealed
unappealing
unappealingly
unappealingness
unappeasable
unappeasableness
unappeasably
unappeased
unappeasedly
unappeasedness
unappeasing
unappeasingly
unappendaged
unappendged
unapperceived
unapperceptive
unappertaining
unappetising
unappetisingly
unappetizing
unappetizingly
unapplaudable
unapplauded
unapplauding
unapplausible
unappliable
unappliableness
unappliably
unapplianced
unapplianced
unapplicable
unapplicability
unapplicableness
unapplicably
unapplicative
unapplied
unappliqued
unapplying
unappoint
unappointable
unappointableness
unappointed
unapportioned
unposable
unapposite
unappositely
unapositeness
unappraised
unappreciable
unappreciableness
unappreciably
unappreciated
unappreciating
unappreciation
unappreciative
unappreciatively
unappreciatively
unappreciatives
unapprehendable
unapprehendableness
unapprehendably
unapprehended
unapprehending
unapprehendingness
unapprehensible
unapprehensibleness
unapprehension
unapprehensive
unapprehensively
unapprehensiveness
unapprenticed
unapprised
unapprisedly
unapprisedness
unapprized
unapproachability
unapproachable
unapproachableness
unapproachably
unapproached
unapproaching
unapprobation
unappropriable
unappropriate
unappropriated
unappropriately
unappropriateness
unappropriation
unapprovable
unapprovableness
unapprovably
unapproved
unapproving
unapprovingly
unapproximate
unapproximately
unprononed
unpropose
unapt
unaptitude
unaptly
unaptness
unarbitrarily
unarbitrariness
unarbitrary
unarbitrated
unarbitrative
unbored
unboured
unarch
unarchdeacon
unarched
unarching
unarchitected
unarchitectural
unarchitecturally
unarchly
unarduous
unarduously
unarduousness
unarguable
unarguableness
unarguably
unargued
unarguing
unargumentative
unargumentatively
unargumentativeness
unarisen
unarising
unaristocratic
unaristocratically
unaristocentric
unaristocentrically
unark
unarm
unarmed
unarmedly
unarmedness
unarming
unarmed
unarmored
unarmorial
unarmed
unars
unaromatic
unaromatically
unaromatized
unarousable
unaroused
unarousing
unaraignable
unaraignableness
unaraigned
unarranged
unarray
unarrayed
unarrestable
unarrested
unarresting
unarrestive
unarrival
unarrived
unarriving
unarrogance
unarrogant
unarrogantly
unarrogated
unarrogating
unarted
unartful
unartfully
unartfulness
unarticled
unarticulate
unarticulated
unarticulately
unarticulative
unarticulatory
unartificial
unartificiality
unartificially
unartificialness
unartistic
unartistical
unartistically
unartistlike
unary
unascendable
unascendableness
unascendant
unascended
unascendent
unascertainable
unascertainableness
unascertainably
unascertained
unascetic
unascetically
unascribed
unashamed
unashamedly
unashamedness
unasinous
unaskable
unasked
unasking
unaskingly
unasleep
unaspersed
unaspersive
unasphalted
unaspirated
unaspiring
unaspiringly
unaspiringness
unassailability
unassailable
unassailableness
unassailably
unassailed
unassailing
unassassinated
unassaultable
unassaulted
unassayed
unassaying
unassembled
unassented
unassenting
unassertive
unasserted
unassertive
unassertively
unassertiveness
unassessable
unassessableness
unassessed
unassibilated
unassiduous
unassiduously
unassiduousness
unassignable
unassignably
unassigned
unassimilable
unassimilated
unassimilating
unassimilative
unassistant
unassisted
unassisting
unassociable
unassociably
unassociated
unassociative
unassociatively
unassociativeness
unassoiled
unassorted
unassuageable
unassuaged
unassuaging
unassuasive
unassuetude
unassumable
unassumed
unassumedly
unassuming
unassumingly
unassumingness
unassured
unassuredly
unassuredness
unassuring
unasterisk
unasthmatic
unastonish
unastonished
unastonishment
unastounded
unastray
unathirst
unathletic
unathletically
unatmospheric
unatonable
unatoned
unatoning
unatrophied
unattach
unattachable
unattached
unattackable
unattackable
unattackableness
unattackably
unattacked
unattainability
unattainable
unattainableness
unattainably
unattained
unattaining
unattainment
unattaint
unattainted
unattaintedly
unattempered
unattemptable
unattempted
unattempting
unattendance
unattendant
unattended
unattentive
unattentively
unattentiveness
unattenuated
unattenuatedly
unattestable
unattested
unattestedness
unattire
unattired
unattractable
unattractableness
unattracted
unattracting
unattractive
unattractively
unattractiveness
unattributable
unattributably
unattributed
unattributive
unattributively
unattributiveness
unattuned
unau
unauctioned
unaudacious
unaudaciously
unaudaciousness
unaudible
unaudibleness
unaudibly
unaudied
unaudited
unauditioned
unaugmentable
unaugmentative
unaugmented
unaus
unauspicious
unauspiciously
unauspiciousness
un austere
un austere
un austere
un austere
un austerness
un authentic
unauthentical
unauthentically
unauthenticalness
unauthenticated
unauthenticity
unauthorised
unauthorish
unauthoritative
unauthoritatively
unauthoritativeness
unauthorityied
unbaptize
unbaptized
unbar
unbarb
unbarbarise
unbarbarised
unbarbarising
unbarbarize
unbarbarized
unbarbarizing
unbarbarous
unbarbarously
unbarbarousness
unbarbed
unbarbered
unbarded
unbare
unbargained
unbark
unbarking
unbaronet
unbarrable
unbarred
unbarrel
unbarreled
unbarrelled
unbarren
unbarrenly
unbarrenness
unbarricade
unbarricaded
unbarricading
unbarricadoed
unbarring
unbars
unbartered
unbartering
unbase
unbased
unbasedness
unbashful
unbashfully
unbashfulness
unbasket
unbasketlike
unbастardised
unbастardized
unbaste
unbasted
unbastilled
unbastinadoed
unbated
unbathed
unbating
unbatted
unbatten
unbatterable
unbattered
unbattling
unbay
une
unbeached
unbeaconed
unbeaded
unbeamed
unbeaming
unbear
unbearable
unbearableness
unbearably
unbeard
unbearded
unbeared
unbearing
unbears
unbeast
unbeatable
unbeatableness
unbeatably
unbeaten
unbeaued
unbeauteous
unbeauteously
unbeauteousness
unbeautified
unbeautiful
unbeautifully
unbeautifulness
unbeautify
unbeavered
unbeckoned
unbeclogged
unbeclouded
unbecome
unbecoming
unbecomingly
unbecomingness
unbed
unbedabbled
unbedaggled
unbedashed
unbedaubed
unbedded
unbedecked
unbedewed
unbedimmed
unbedinned
unbedraggled
unbefit
unbefitting
unbefittingly
unbefittingness
unbefool
unbefriend
unbefriended
unbefringed
unbeget
unbeggar
unbeggarly
unbegged
unbegilt
unbeginning
unbeginningly
unbeginningness
unbegirded
unbegirt
unbegot
unbegotten
unbegottenly
unbegottenness
unbegreased
unbegrimed
unbegrudged
unbeguile
unbeguiled
unbeguileful
unbeguiling
unbegun
unbehaving
unbeheaded
unbeheld
unbeholdable
unbeholden
unbeholdenness
unbeholding
unbehaveful
unbehaving
unbeing
unbejuggled
unbeknown
unbeknownst
unbelied
unbelief
unbeliefful
unbelieffulness
unbeliefs
unbelievability
unbelievable
unbelievableness
unbelievably
unbelieve
unbelieved
unbeliever
unbelievers
unbelieving
unbelievingly
unbelievingness
unbell
unbellicose
unbelligerent
unbelligerently
unbelonging
unbeloved
unbelt
unbelted
unbelting
unbelts
unbemoaned
unbemourned
unbench
unbend
unbendable
unbendableness
unbendably
unbended
unbender
unbending
unbendingly
unbendingness
unbends
unbendsome
unbeneficed
unbeneficent
unbeneficently
unbeneficial
unbeneficially
unbeneficialness
unbenefitable
unbenefited
unbenefitting
unbenetted
unbenevolence
unbenevolent
unbenevolently
unbenevolentness
unbenight
unbenighted
unbenign
unbenignant
unbenevolently
unbenevolently
unbenevolentness
unbenight
unbenighted
unbenign
unbenignant
unbenevolently
unbenevolently
unbenevolentness
unbent
unbent
unbenumb
unbenumb
unbequeathable
unbequeathed
unbereaved
unbereaven
unbered
unberouged
unberouged
unbered
unberuf
unberufen
unbeseeking
unbeseeking
unbeseeful
unbeseeming
unbeseemingly
unbeseemingness
unbeseemingly
unbeseemingness
unbeseemingly
unbeseemingness
unbeset
unbesieged
unbesmeared
unbesmirched
unbesmuttered
unbesot
unbesotted
unbesought
unbespeak
unbespoke
unbespoken
unbesprinkled
unbestarred
unbestowed
unbet
unbeteneared
unbethink
unbethought
unbetide
unbetoken
unbetray
unbetrayed
unbetraying
unbetrothed
unbetterable
unbettered
unbeveled
unbevelled
unbewailed
unbewailing
unbeware
unbewilder
unbewilderred
unbewilderely
unbewildering
unbewilderingly
unbewilled
unbewitch
unbewitched
unbewitching
unbewitchingly
unbewrayed
unbewritten
unbias
unbiasable
unbiased
unbiasedly
unbiasedness
unbiasing
unbiasable
unbiasable
unbiased
unbiasedly
unbiasedly
unbiassed
unbiassedly
unbiassing
unbibical
unbibulous
unbibulously
unbibulousness
unbickered
unbickering
unbid
unbidable
unbiddable
unhidden
unbigamous
unbigamously
unbigged
unbigoted
unbigotedness
unbilious
unbiliously
unbiliousness
unbillable
unbilled
unbillet
unbilleted
unbind
unbinding
unbinder
unbindable
unbiographical
unbiographically
unbiological
unbiologically
unbirdlike
unbirdlimed
unbirdly
unbirthday
unbishop
unbishoped
unbishoply
unbit
unbiting
unbitt
unbitted
unbitten
unbitter
unbitting
unblackened
unbladed
unblading
unblaming
unblamable
unblamableness
unblamably
unblamed
unblameworthy
unblameworthy
unblaming
unblanched
unblanketed
unblasphemed
unblasted
unblazoned
unbleached
unbleaching
unbled
unbleeding
unblemishable
unblemished
unblemishedness
unblemishing
unblanched
unblenching
unblenchingly
unblendable
unblended
unblent
unbless
unblessed
unblessedness
unblest
unblighted
unlightedly
unblightedness
unblind
unblinded
unblindfold
unblindfolded
unblinding
unblinking
unblinkingly
unbliss
unblissful
unblissfully
unblissfulness
unblistered
unblithe
unblithely
unblock
unblockaded
unblocked
unblocking
unblocks
unblooded
unbloodied
unbloodily
unbloodiness
unbloody
unbloom
unbloomed
unblooming
unblossomed
unblossoming
unblotted
unblotted
unblottedness
unbloused
unblown
unblued
unbluestockingish
unbluffable
unbluffed
unbluffing
unblunder
unblundered
unblundering
unblunted
unblurred
unblush
unblushing
unblushingly
unblushingness
unblisterous
unblisterously
unboarded
unboasted
unboastful
unboastfully
unboastfulness
unboasting
unboat
unbobbed
unbodied
unbodiliness
unbodily
unboding
unbodkined
unbody
unbodylike
unbog
unboggy
unbohemianize
unboiled
unboisterous
unboisterously
unboisterousness
unbokel
unbold
unbolden
unboldly
unboldness
unbolled
unbolster
unbolstered
unbolt
unbolted
unbolting
unbolts
unbombarded
unbombast
unbombastic
unbombastically
unbombed
unbondable
unbondableness
unbonded
unbone
unboned
unbonnet
unbonneted
unbonneting
unbonnets
unbonny
unbooked
unbookish
unbookishly
unbookishness
unbooklearned
unboot
unbooted
unboraxed
unborder
unbordered
unbored
unboring
unborn
unborne
unborough
unborrowed
unborrowing
unbosom
unbosomed
unbosomer
unbosoming
unbosoms
unbossed
unbotanical
unbothered
unbothering
unbottle
unbottled
unbottling
unbottom
unbottomed
unbought
unbouncy
unbound
unboundable
unboundableness
unboundably
unbounded
unboundedly
unboundedness
unboundless
unbounteous
unbounteously
unbounteousness
unbountiful
unbountifully
unbountifulness
unbow
unbowable
unbowdlerized
unbowed
unbowel
unboweled
unbowelled
unbowered
unbowing
unbowingness
unbowled
unbowsome
unbox
unboxed
unbreakfasted
unbreaking
unbreast
unbreath
unbreathable
unbreathableness
unbreathable
unbreathed
unbreathing
unbred
unbreech
unbreeched
unbreeches
unbreeching
unbreezy
unbrent
unbrewed
unbribable
unbribableness
unbribably
unbribed
unbribing
unbrick
unbricked
unbridegroomlike
unbridgeable
unbridged
unbridle
unbridled
unbridledly
unbridledness
unbridles
unbridling
unbrief
unbriefed
unbriefly
unbriefness
unbright
unbrightened
unbrightly
unbrightness
unbrilliant
unbrilliantly
unbrilliantness
unbrimming
unbrined
unbristled
unbrittle
unbuckled
unbuckles
unbuckling
unbuckramed
unbud
unbudded
unbudding
unbudgeability
unbudgeable
unbudgeableness
unbudgeably
unbudged
unbudgeted
unbudging
unbudgingly
unbuffed
unbuffered
unbuffeted
unbuild
unbuilted
unbuilding
unbuilds
unbuilt
unbulky
unbullied
unbulleted
unbulletined
unbullied
unbullying
unbumped
unhumptious
unhumptiously
unhumptiousness
unbunched
unbundle
unbundled
unbundles
unbundling
unbung
unbunngling
unbuoyant
unbuoyantly
unbuoyed
unburden
unburdened
unburdening
unburdenment
unburdens
unburdensome
unburdensomeness
unbureaucratic
unbureaucratically
unburgessed
unburglarized
unburiable
unburial
unburied
unburlesqued
unburly
unburn
unburnable
unburnableness
unburned
unburning
unburnished
unburnt
unburrow
unburrowed
unburst
unburstable
unburstableness
unburthen
unbury
unbush
unbusied
unbusily
unbusiness
unbusinesslike
unbusk
unbuskin
unbuskined
unbusted
unbystling
unbusy
unbutchered
unbutcherlike
unbuttered
unbutton
unbuttoned
unbuttoning
unbuttonment
unbuttons
unbuttressed
unbuxom
unbuxomly
unbuxomness
unbuyable
uncalmness
uncalorific
uncalumniated
uncalumniative
uncalumnious
uncalumniously
uncambered
uncamerated
uncamouflaged
uncamp
uncampaigning
uncamped
uncamphorated
uncanalized
uncancelable
uncanceled
uncancellable
uncancelled
uncancerous
uncandid
uncandidly
uncandidness
uncandided
uncandled
uncandor
uncandour
uncaned
uncankerered
uncanned
uncanner
uncanniest
uncannily
uncanniness
uncanny
uncanonic
uncanonical
uncanonically
uncanonicalness
uncanonicity
uncanonisation
uncanonise
uncanonised
uncanonising
uncanonization
uncanonize
uncanonized
uncanonizing
uncanopied
uncarburetted
uncarded
uncardinal
uncardinally
uncareful
uncarefully
uncarefulness
unaressed
unaressing
unaressingly
uncargoed
uncaricatured
uncaring
uncarnate
uncarnivorous
uncarnivorusly
uncarnivorousness
uncaroleled
uncarolled
uncarousing
uncarpentered
uncarpeted
uncarriageable
uncarried
uncart
uncarted
uncartooned
uncarved
uncascaded
uncascading
uncase
uncased
uncasemated
uncases
uncashed
uncasing
uncask
uncasked
uncasketed
uncasque
uncassock
uncast
uncaste
uncastigated
uncastigative
uncastle
uncastled
uncastrated
uncasual
uncasually
uncasualness
uncataloged
uncatalogued
uncatastrophic
uncatastrophically
uncatchable
uncatchy
uncate
uncatechised
uncatechisedness
uncatechized
uncatechizedness
uncategorical
uncategorically
uncategoricalness
uncategorised
uncategorized
uncatenated
uncatered
uncatering
uncatholic
uncatholicity
uncatholicical
uncatholicicalness
uncatholicise
uncatholicised
uncatholicising
uncatholicity
uncatholicize
uncatholicized
uncatholicizing
uncatholicly
uncausables
uncaught
uncausables
uncausal
uncausative
uncausatively
uncausativeness
uncause
uncaused
uncaustic
uncaustically
uncautelous
uncentred
uncentric
uncentrical
uncentrilocentric
uncentripetal
uncentury
unccephalic
uncerated
uncerebral
uncerecloth
unceremented
unceremonial
unceremonially
unceremonious
unceremoniously
unceremoniousness
unceriferous
uncertain
uncertainly
uncertainness
uncertainties
uncertainty
uncertifiable
uncertifiably
uncertifiableness
uncertificated
uncertified
uncertifying
uncertitude
uncessant
uncessantly
uncessantness
unchafed
unchaffed
unchaffing
unchagrined
uncharging
unchain
unchainable
unchained
unchaining
unchains
unchair
unchaired
unchalked
unchalky
unchallengable
unchallengeable
unchallengeableness
unchallengeably
unchallenged
unchallenging
unchambered
unchamfered
unchampioned
unchance
unchanceable
unchanced
unchancellor
unchancy
unchange
unchangeability
unchangeable
unchangeableness
unchangeably
unchanged
unchangedness
unchangeful
unchangefully
unchangefulness
unchanging
unchangingly
unchangingness
unchannelled
unchannelled
unchannelled
unchanted
unchaotic
unchaotically
unchaperoned
unchaplain
unchapleted
unchapped
unchapter
unchaptered
uncharacter
uncharactered
uncharacterised
uncharacterised
uncharacteristic
uncharacteristically
uncharacterized
uncharge
unchargeable
uncharged
uncharges
uncharging
uncharishly
unchariness
unchariot uncharitable uncharitably uncharity uncharm uncharmable uncharmed uncharming uncharnel uncharred uncharted unchartered unchary unchased unchaste unchastely unchastened unchasteness unchastisable unchastised unchastising unchastities unchastity unchatted unchattering unchauffeured unchausianistic unchawed uncheapened uncheaply uncheat uncheated uncheating uncheck uncheckable unchecked uncheckered uncheckmated uncheerable uncheered uncheerful uncheerfully uncheerfulness uncheerily uncheeriness uncheering uncheery
unchrisom
unchrist
unchristen
unchristened
unchristian
unchristianity
unchristianize
unchristianized
unchristianlike
unchristianliness
unchristianly
unchristianness
unchromatic
unchromed
unchronic
unchronically
unchronical
unchronical
unchronologically
unchronologically
unchurch
unchurched
unchurches
unchurching
unchurchlike
unchurchy
unchurlish
unchurlishly
unchurlishness
unchurn
unchurned
unci
uncia
unciae
uncial
uncialize
uncially
uncials
unciatim
uncicatriz
unciferous
unciform
unciforms
unciliated
uncinal
uncinaria
uncinaria
uncinariatic
uncinate
uncity
uncivic
uncivil
uncivilisable
uncivilish
uncivility
uncivilizable
uncivilization
uncivilize
uncivilized
uncivilizedly
uncivilizedness
uncivilizing
uncivilly
uncivilness
unclad
unclaimed
unclaiming
unclamorous
unclamorously
unclamorousness
unclamp
unclamped
unclamping
unclamps
unclandestinely
unclannish
unclannishly
unclannishness
unclarified
unclarifying
unclarity
unclashing
unclasp
unclasped
unclasping
unclasps
unclassable
unclassableness
unclassably
unclassed
unclassible
unclassical
unclassically
unclassifiable
unclassifiableness
unclassifiably
unclassification
uncloot
unclothe
unclothed
unclothedly
unclothedness
unclothes
unclothing
unclothed
unclothing
unclothed
unclothedly
unclothedness
unclothing
uncloths
uncloody
uncloth
uncloven
uncloyable
uncloyed
uncloying
unclub
unclubable
unclubbable
unclubby
unclustered
unclustering
unclutch
unclutchable
unclutched
unclutter
uncluttered
uncluttering
unco
uncoach
uncoachable
uncoachableness
uncoached
uncoacted
uncoagulable
uncoagulated
uncoagulating
uncoagulative
uncoalescent
uncoarse
uncoarsely
uncoarseness
uncoat
uncoated
uncoatedness
uncoaxable
uncoaxal
uncoaxed
uncoaxial
uncoaxing
uncobbled
uncock
uncocked
uncocking
uncockneyfy
uncocks
uncoceted
uncoddled
uncoddled
uncoded
uncodified
uncoerced
uncoffer
uncoffin
uncoffined
uncoffining
uncoffins
uncoffle
uncoft
uncogent
uncogently
uncogged
uncogitable
uncognisable
uncognizable
uncognizant
uncognized
uncognoscibility
uncognoscible
uncioguidism
uncoherent
uncoherently
uncoherentness
uncohesive
uncohesively
uncohesiveness
uncoif
uncoiffed
uncoiffed
uncoil
uncoiled
uncolorably
uncolored
uncoloredly
uncoloredness
uncolourable
uncolourably
uncoloured
uncolouredly
uncolouredness
uncolt
uncoly
uncombable
uncombatable
uncombatant
uncombatated
uncombative
uncombed
uncombinable
uncombinableness
uncombinably
uncombinational
uncombinative
uncombine
uncombined
uncombining
uncombiningness
uncombustible
uncombustive
uncome
uncomelier
uncomeliest
uncomelily
uncomeliness
uncomely
uncomfort
uncomfortable
uncomfortableness
uncomfortably
uncomforted
uncomforting
uncomfy
uncomic
uncomical
uncomically
uncommanded
uncommandedness
uncommanderlike
uncommemorated
uncommemorative
uncommemoratively
uncommenced
uncommendable
uncommendableness
uncommendably
uncommendatory
uncommended
uncommensurability
uncommensurable
uncommensurableness
uncommensurate
uncommensurately
uncommented
uncommenting
uncommerciable
uncommercial
uncommercially
uncommercialness
uncommingled
uncommingleded
uncommingleded
uncommiserated
uncommiserating
uncommiserative
uncommiseratively
uncommissioned
uncommittled
uncommitting
uncommixed
uncommodious
uncommodiously
uncommodiousness
uncommon
uncommonable
uncommoner
uncommones
uncommonest
uncommonly
uncommonness
uncommonplace
uncommunicable
uncommunicableness
uncommunicably
uncommunicated
uncommunicating
uncommunicative
uncommunicatively
uncommunicativeness
uncommutable
uncommutative
uncommutatively
uncommutativeness
uncommuted
uncompact
uncompacted
uncompahgrite
uncompaniable
un companied
un companionability
un companionable
un companioned
uncomparable
uncomparableness
un comparably
un compared
un compartmentalize
un compartmentalized
un compartmentalizes
un compass
uncompassability
uncompassable
uncompassed
un compassion
un compassionate
un compassionated
un compassionately
un compassionateness
un compassionating
un compassioned
un compatible
un compatibly
un compellable
un compelled
un compelling
un compendious
un compensable
un compensated
un compensating
un compensative
un compensatory
un competent
un competently
un competitive
un competitively
un competitiveness
un compiled
uncomplacent
uncomplacently
uncomplained
uncomplaining
uncomplainingly
uncomplainingness
uncomplaint
uncomplaisance
uncomplaisant
uncomplaisantly
uncomplemental
uncomplementally
uncomplementary
uncomplemented
uncompletable
uncomplete
uncompleted
uncompletely
uncompleteness
uncomplex
uncomplexity
uncomplexy
uncomplexness
uncompliability
uncompliable
uncompliableness
uncompliably
uncomplication
uncomplimentary
uncomplimented
uncomplimenting
uncomplying
uncomportable
uncomposable
uncomposeable
uncomposed
uncompound
uncompoundable
uncompounded
uncompoundedly
uncompoundedness
uncompounding
uncomprehend
unconceived
unconceiving
unconcentrated
unconcentratedly
unconcentrative
unconcentric
unconcentrically
unconceptual
unconceptualized
unconceptually
unconcern
unconcerned
unconcernedly
unconcernedness
unconcerning
unconcernment
unconcertable
unconcerted
unconcertedly
unconcertedness
unconcessible
unconciliable
unconciliated
unconciliatedness
unconciliating
unconciliative
unconciliatory
unconcludable
unconcluded
unconcludent
unconcluding
unconcludingness
unconclusive
unconclusively
unconclusiveness
unconcocted
unconcordant
unconcordantly
unconcrete
unconcreted
unconcretely
unconcreteness
unconcurred
unconcurrent
unconcurrently
unconcuring
uncondemnable
uncondemned
uncondemning
uncondemningly
uncondensable
uncondensableness
uncondensably
uncondensational
uncondensed
uncondensing
uncondescending
uncondescendingly
uncondescension
uncondited
uncondition
unconditional
unconditionality
unconditionally
unconditionalness
unconditionate
unconditionated
unconditionally
unconditioned
unconditionedly
unconditionedness
uncondolatory
uncondoled
uncondoling
uncondoned
uncondoning
unconducting
unconducive
unconducively
unconduciveness
unconducted
unconductive
unconductive
unconductive
unconductiveness
unconfected
unconfederated
unconferred
unconfess
unconfessed
unconfessing
unconfided
unconfidence
unconfident
unconfidential
unconfidentialness
unconfidently
unconfiding
unconfinable
unconfine
unconfined
unconfinedly
unconfinedness
unconfinement
unconfining
unconfirm
unconfirmability
unconfirmable
unconfirmative
unconfirmatory
unconfirmed
unconfirming
unconfiscable
unconfiscated
unconfiscatory
unconflicting
unconflictingly
unconflictingness
unconflictive
unconform
unconformability
unconformable
unconformableness
unconformably
unconformed
unconformedly
unconforming
unconformism
unconformist
unconformities
unconformity
unconfound
unconfounded
unconfoundedly
unconfounding
unconfoundingly
unconfrontable
unconfronted
unconfusable
unconfusably
unconfused
unconfusedly
unconfusing
unconfutability
unconfutable
unconfutative
unconfuted
unconfuting
uncongeal
uncongealable
uncongealed
uncongenial
uncongeniality
uncongenially
uncongested
uncongestive
unconglobated
unconglomerated
unconglutinated
unconglutinative
uncongratulate
uncongratulated
uncongratulating
uncongratulatory
uncongregated
uncongregational
uncongregative
uncongressional
uncongruous
uncongruously
uncongruousness
unconical
unconjecturable
unconjectural
unconjectured
unconjoined
unconjugal
unconjugated
unconjunctive
unconjured
unconnected
unconnectedly
unconnectedness
unconned
unconnived
unconniving
unconnotative
unconquerable
unconquerableness
unconquerably
unconquered
unconquest
unconscienced
unconscient
unconscientious
unconscientiously
unconscientiousness
unconscionability
unconscionable
unconscionableness
unconscionably
unconscious
unconsciously
unconsciousness
unconsecrate
unconsecrated
unconsecratedly
unconsecratedness
unconsecration
unconsecrative
unconsecutive
unconsecutively
unconsent
unconsentaneous
unconsentaneously
unconsentaneousness
unconsented
unconsentent
unconsenting
unconsequential
unconsequentially
unconsequentialness
unconservable
unconservative
unconservatively
unconservativeness
unconserved
unconserving
unconsiderable
unconsiderabley
unconsiderate
unconsiderately
unconsiderateness
unconsidered
unconsideredly
unconsideredness
unconsidering
unconsideringly
unconsignable
unconsign
unconsistent
unconsociable
unconsociated
unconsociability
unconsolable
unconsolably
unconsolatory
unconsolated
unconsolidated
unconsolidating
unconsolidation
unconsoling
unconsolingly
unconsonancy
unconsonant
unconsonantly
unconsonous
unconspicuous
unconspicuously
unconspicuousness
unconspired
unconspiring
unconspiringly
unconspiringness
unconstancy
unconstant
unconstantly
unconstantness
unconstellated
unconsternated
unconstipated
unconstituted
unconstitutional
unconstitutionalism
unconstitutionality
unconstitutionally
unconstrainable
unconstrained
unconstrainedly
unconstrainedness
unconstraining
unconstraint
unconstricted
unconstrictive
unconstruable
unconstructed
unconstructive
unconstructively
unconstructural
unconstrued
unconsular
unconsult
unconsultable
unconsultative
unconsultatory
unconsulted
unconsulting
unconsumable
unconsumer
unconsumed
unconsuming
unconsummate
unconsummated
unconsummately
unconsummative
unconsumptive
unconsumptively
uncontacted
uncontagious
uncontagiously
uncontainable
uncontainableness
uncontainably
uncontained
uncontaminable
uncontaminate
uncontaminated
uncontaminative
uncontemned
uncontemnedly
uncontemning
uncontemningly
uncontemplable
uncontemplated
uncontemplative
uncontemplatively
uncontemplativeness
uncontemporaneous
uncontemporaneously
uncontemporaneousness
uncontemporary
uncontemptibility
uncontemptible
uncontemptibleness
uncontemptibly
uncontemptuous
uncontemptuously
uncontemptuousness
uncontended
uncontending
uncontent
uncontentable
uncontented
uncontentedly
uncontentedness
uncontenting
uncontentingness
uncontentious
uncontentiously
uncontentiousness
uncontestability
uncontestable
uncontestably
uncontestableness
uncontestably
uncontester
uncontested
uncontestedly
uncontestedness
uncontiguous
uncontiguously
uncontiguousness
uncontinence
uncontinent
uncontinental
uncontinented
uncontinently
uncontingent
uncontingently
uncontinual
uncontinually
uncontinued
uncontinuous
uncontinuously
uncontorted
uncontortedly
uncontortedly
uncontortioned
uncontortive
uncontoured
uncontract
uncontracted
uncontractedness
uncontractile
uncontradictable
uncontradictably
uncontradictableness
uncontradictably
uncontradicted
uncontradictedly
uncontradictious
uncontradictive
uncontradictory
uncontrastable
uncontrastably
uncontrasted
uncontrasting
uncontrastive
uncontrastively
uncontributed
uncontributing
uncontributive
uncontributively
uncontributiveness
uncontributory
uncontrite
uncontriteness
uncontrived
uncontriving
uncontrol
uncontrollability
uncontrollable
uncontrollableness
uncontrollably
uncontrolled
uncontrolledly
uncontrolledness
uncontrolling
uncontroversial
uncontroversially
uncontrovertable
uncontrovertableness
uncontrovertably
uncontroverted
uncontrovertedly
uncontrovertible
uncontrovertibleness
uncontrovertibly
uncontumacious
uncontumaciously
uncontumaciousness
unconvenable
unconvened
unconvenial
unconvenience
unconvenient
unconveniently
unconvening
unconventional
unconventionalism
unconventionalities
unconventionality
unconventionalize
unconventionalized
unconventionalizes
unconventionally
unconventioned
unconverged
unconvergent
unconverging
unconversable
unconversableness
unconversably
unconversance
unconversant
unconversational
unconversing
unconversion
unconvert
unconverted
unconvertedly
unconvertedness
unconvertibility
unconvertible
unconvertibleness
unconvertibly
unconveyable
unconveyed
unconvicted
unconvicting
unconvictive
unconvince
unconvinced
unconvincedly
unconvincedly
unconvincedness
unconvincibility
unconvincible
unconvincing
unconvincingly
unconvincingness
unconvolute
unconvoluted
unconvolutely
uncoronated
uncoroneted
uncorporal
uncorpulent
uncorpulently
uncorrect
uncorrectable
uncorrectablely
uncorrected
uncorrectible
uncorrective
uncorrectly
uncorrectness
uncorrelated
uncorrelatedly
uncorrelative
uncorrelatively
uncorrelativeness
uncorrelativity
uncorrespondency
uncorrespondent
uncorresponding
uncorrespondingly
uncorridor
uncorrigible
uncorrigibleness
uncorrigibly
uncorroborant
uncorroborated
uncorroborative
uncorroboratively
uncorroboratory
uncorroded
uncorrugated
uncorrupt
uncorrupted
uncorruptedly
uncorruptedness
uncorruptibility
uncorruptible
uncorruptibleness
uncorruptibly
uncorrupting
uncorruption
uncorruptive
uncorruptly
uncorruptness
uncorseted
uncorven
unco
uncosseted
uncost
uncostliness
uncostly
uncostumed
uncottoned
uncouch
uncouched
uncouching
uncounselable
uncounseled
uncounsellable
uncounselled
uncountable
uncountableness
uncountably
uncounted
uncountenanced
uncounteracted
uncounterbalanced
uncounterfeit
uncounterfeited
uncountermandable
uncountermanded
uncountervailed
uncountess
uncountrified
uncouple
uncoupled
uncoupler
uncouples
uncoupling
uncourageous
uncourageously
uncourageousness
uncoursed
uncourted
uncourteous
uncourteously
uncourteousness
uncourtesies
uncourtesy
uncourtierlike
uncourting
uncourtlike
uncourtliness
uncravely
uncrazed
uncrazy
uncream
uncreased
uncreatability
uncreatable
uncreatableness
uncreate
uncreated
uncreatedness
uncreates
uncreating
uncreation
uncreative
uncreatively
uncreativeness
uncreativity
uncreateable
uncredentialled
uncredentialed
uncredibility
uncredible
uncredibly
uncredit
uncreditable
uncreditableness
uncreditably
uncredited
uncrediting
uncredulous
uncredulously
uncredulousness
uncreeping
uncreosoted
uncrest
uncrested
uncrevassed
uncrib
uncribbed
uncribbing
uncried
uncrime
uncriminal
uncriminally
uncringing
uncrinkle
uncrinkled
uncrinking
uncrippled
uncrisp
uncritical
uncritically
uncriticalness
uncriticisable
uncriticisably
uncriticised
uncriticising
uncriticisingly
uncriticism
uncriticizable
uncriticizably
uncriticized
uncriticizing
uncriticizingly
uncrochety
uncrook
uncrooked
uncrookedly
uncrooking
uncropped
uncropt
uncross
uncrossable
uncrossableness
uncrossed
uncrosses
uncrossexaminable
uncrossexamined
uncrossing
uncrossly
uncrowded
uncrown
uncrowned
uncrowning
uncrowns
uncrucified
uncrudded
uncrude
uncrudely
uncrudeness
uncrudity
uncruel
uncruelly
uncruelness
uncrumbled
uncultivable
uncultivatable
uncultivate
uncultivated
uncultivatedness
uncultivation
unculturable
uncultured
unculturedness
uncumber
uncumbered
uncumbrous
uncumbrously
uncumbrousness
uncumulative
uncunning
uncunningly
uncunningness
uncupped
uncurable
uncurableness
uncurably
uncurb
uncurbable
uncurbed
uncurbedly
uncurbing
uncurbs
uncurl
uncurled
uncurling
uncurls
uncurrent
uncurrently
uncurrentness
uncurricularized
uncurried
uncurse
uncursed
uncursing
uncurst
uncurtailable
uncurtailably
uncurtailed
uncertain
uncertained
uncurved
uncurving
uncus
uncushioned
uncusped
uncustomable
uncustomarily
uncustomarinness
uncustomy
uncustomed
uncut
uncute
uncuth
uncuticate
uncuttable
uncynical
uncynically
uncypress
undabbled
undaggled
undaily
undaintily
undaintiness
undainty
undallying
undam
undamageable
undamaged
undamaging
undamasked
undammed
undamming
undamn
undamnified
undampable
undamped
undampened
undanceable
undancing
undandiical
undandled
undangered
undangerous
undangerously
undangerousness
undapper
undappled
undared
undaring
undaringly
undark
undarken
undarkened
undarned
undashed
undatable
undate
undateable
undated
undatedness
undaub
undaubed
undaughter
undaughterliness
undaughterly
undauntable
undaunted
undauntedly
undauntedness
undaunting
undawned
undawning
undazed
undazing
undazzle
undazzled
undazzling
unde
undead
undeadened
undeadlocked
undeadly
undeaf
undealable
undealt
undean
undear
undebarred
undebased
undebatable
undebatably
undebated
undebating
undebauched
undebauchedness
undebilitated
undebilitating
undebilitative
undeleted
undecadent
undecadently
undecagon
undecanaphthene
undecane
undecatoic
undecayable
undecayableness
undecayed
undecayedness
undecaying
undeceased
undeceitful
undeceitfully
undeceitfulness
undeceivability
undeceivable
undeceivableness
undeceivably
undeceive
undeceived
undeceiver
undeceives
undeceiving
undecency
undecennary
undecennial
undecent
undecently
undeception
undeceptious
undeceptitious
undeceptive
undeceptively
undeceptiveness
undecidable
undecide
undecided
undecidedly
undecidedness
undeciding
undecillion
undecillionth
undecimal
undeciman
undecimole
undecipher
undecipherability
undecipherable
undecipherably
undeciphered
undecision
undecisive
undecisively
undecisiveness
undeck
undecked
undeclared
undeclared
undeclamatory
undeclarable
undeclarative
undeclare
undeclared
undeclinable
undeclinable
undeclinableness
undeclinably
undeclined
undeclining
undeecocted
undeecoic
undeolic
undeecomposable
undeecomposed
undecompounded
undecked
undecked
undeclined
undeclining
undeecoic
undeecoic
undeocomposable
undeocomposed
undecompounded
undecked
undeceptive
undeceptory
undeceived
undecyl
undecylenic
undecylenic
undecylic
undedicate
undedicated
unduced
undeducible
undeducted
undeductible
undeductive
undeductively
undee
undeeded
undeemed
undeemous
undeemously
undeep
undeepened
undeeply
undefaceable
undeaced
undeaflicated
undeafamatory
undeafamed
undeafaming
undeafatigable
undeafaulted
undeafaulting
undeafeasible
undeafat
undeateable
undeateableness
undeateably
undeatead
undeateedly
undeateatedness
undeateated
undeectible
undeective
undeectively
undeectiveness
undeendable
undeendableness
undeendably
undefendant
undefended
undefending
undefense
undefensed
undefensible
undefensibleness
undefensibly
undefensive
undefensively
undefensiveness
undeferential
undeferentially
undeferrable
undeferrably
deferred
defeatable
defeatably
defiant
defiantly
deficient
deficiently
defied
defilable
defiled
defiledly
defiledness
definability
defsurable
defsurableness
defsurablely
defsurable
defsurablely
ndefine
defined
definitely
ndefinedness
ndefinite
ndefinitely
ndefiniteness
ndefinitiveness
ndedeflectability
ndeflectable
ndeflected
ndeflective
ndeflowered
ndeflorable
ndeflorablely
ndeflorable
ndeflored
undeformedness
undefrauded
undefrayed
undeft
undeftly
undeftness
undegeneracy
undegenerate
undegenerated
undegenerateness
undegenerating
undegenerative
undegraded
undegraded
undeification
undeified
undeify
undeifying
undeistical
undejected
undejectedly
undejectedness
undelated
undelayable
undelayed
undelayedly
undelaying
undelayingly
undetectability
undetectable
undetectably
undelegated
undeleted
undeleterious
undeleteriously
undeleteriousness
undeliberate
undeliberated
undeliberately
undeliberateness
undeliberating
undeliberatingly
undeliberative
undeliberatively
undeliberativeness
undelible
undelicious
undelicously
undemolishable
undemolished
undemonstrable
undemonstrableness
undemonstrably
undemonstratable
undemonstrated
undemonstrational
undemonstrative
undemonstratively
undemonstrativeness
undemoralized
undemure
undemurely
undemureness
undemurring
unden
undeniability
undeniable
undeniability
undeniably
undenied
undeniedly
undenizened
undenominated
undenominational
undenominationalism
undenominationalist
undenominationalize
undenominationally
undenotable
undenotative
undenotatively
undenoted
undenounced
undented
undenuded
undenunciated
undenunciatory
undepartableness
undepartably
undeparted
undeparting
undependability
undependable
undependableness
undependably
undependent
undepending
undephlegmated
undepicted
undepleted
undeplorer
undeported
undeposable
undeposed
undeposited
undepraved
undepravedness
undepricated
undeprcatng
undeprcatngly
undeprcatve
undeprcatvtely
undeprcatble
undeprciated
undeprciative
undeprciatory
undepressed
undeprssible
undeprssing
undeprssve
undeprssvlly
undeprssvness
undeprvable
undeprved
undepruratd
undeputed
undeputized
under
underabby
underaccident
underaccommodated
underachieve
underachieved
underachievement
underachiever
underachievers
underachieves
underachieving
underact
underacted
underacting
underaction
underactivity
underactor
underacts
underadjustment
underadmiral
underadventurer
underage
underagency
underagent
underages
underagitation
underaid
underaim
underair
underalderman
underaldermen
underanged
underappreciated
underarch
underargue
underarm
underarming
underarms
underassessed
underassessment
underate
underaverage
underback
underbailiff
underbake
underbaked
underbaking
underbalance
underbalanced
underbalancing
underballast
underbank
underbarber
underbarring
underbasal
underbeadle
underbeak
underbeam
underbear
underbearer
underbearing
underbeat
underbeaten
underbed
underbedding
<table>
<thead>
<tr>
<th>underbeing</th>
</tr>
</thead>
<tbody>
<tr>
<td>underbellies</td>
</tr>
<tr>
<td>underbelly</td>
</tr>
<tr>
<td>underbeveling</td>
</tr>
<tr>
<td>underbevelling</td>
</tr>
<tr>
<td>underbid</td>
</tr>
<tr>
<td>underbidder</td>
</tr>
<tr>
<td>underbidders</td>
</tr>
<tr>
<td>underbidding</td>
</tr>
<tr>
<td>underbids</td>
</tr>
<tr>
<td>underbill</td>
</tr>
<tr>
<td>underbillow</td>
</tr>
<tr>
<td>underbind</td>
</tr>
<tr>
<td>underbishop</td>
</tr>
<tr>
<td>underbishopric</td>
</tr>
<tr>
<td>underbit</td>
</tr>
<tr>
<td>underbite</td>
</tr>
<tr>
<td>underbitted</td>
</tr>
<tr>
<td>underbitten</td>
</tr>
<tr>
<td>underboard</td>
</tr>
<tr>
<td>underboated</td>
</tr>
<tr>
<td>underbodice</td>
</tr>
<tr>
<td>underbodies</td>
</tr>
<tr>
<td>underbody</td>
</tr>
<tr>
<td>underboil</td>
</tr>
<tr>
<td>underboom</td>
</tr>
<tr>
<td>underborn</td>
</tr>
<tr>
<td>underborne</td>
</tr>
<tr>
<td>underbottom</td>
</tr>
<tr>
<td>underbough</td>
</tr>
<tr>
<td>underbought</td>
</tr>
<tr>
<td>underbound</td>
</tr>
<tr>
<td>underbowed</td>
</tr>
<tr>
<td>underbowser</td>
</tr>
<tr>
<td>underbox</td>
</tr>
<tr>
<td>underboy</td>
</tr>
<tr>
<td>underbrace</td>
</tr>
<tr>
<td>underbraced</td>
</tr>
<tr>
<td>underbracing</td>
</tr>
<tr>
<td>underbranch</td>
</tr>
<tr>
<td>underbreath</td>
</tr>
<tr>
<td>underbreathing</td>
</tr>
<tr>
<td>underbred</td>
</tr>
<tr>
<td>underbreeding</td>
</tr>
<tr>
<td>underbrew</td>
</tr>
<tr>
<td>underbridge</td>
</tr>
<tr>
<td>underbridged</td>
</tr>
<tr>
<td>underbridging</td>
</tr>
</tbody>
</table>
underbrigadier
underbright
underbrim
underbrush
underbubble
underbud
underbudde
underbudded
underbudding
underbudgeted
underbuds
underbuild
underbuilder
underbuilding
underbuilt
underbuoy
underburn
underburned
underburnt
underbursar
underbury
underbush
underbutler
underbuy
underbuying
underbuys
undercanopy
undercanvass
undercap
undercapitalated
undercapitalization
undercapitalize
undercapitalized
undercapitalizing
undercaptain
undercarder
undercarriage
undercarriages
undercarried
undercarry
undercarrying
undercart
undercarter
undercarve
undercarved
undercarving
undercase
undercasing
undercast
undercause
underceiling
undercellar
undercellarer
underchamber
underchamberlain
underchancellor
underchanter
underchap
undercharge
undercharged
undercharges
undercharging
underchief
underchime
underchin
underchord
underchurched
undercircle
undercircled
undercircling
undercitizen
undercitizenries
undercitizenry
underclad
undercladding
underclass
underclassman
underclassmen
underclay
underclearer
underclerk
underclerks
underclerkship
undercliff
underclift
undercloak
undercloth
underclothe
underclothed
underclothes
underclothing
underclub
underclutch
undercoachman
undercoachmen
undercoat
undercoated
undercoater
undercoating
undercoatings
undercoats
undercollector
undercolor
undercolored
undercoloring
undercommander
undercomment
undercompounded
underconcerned
undercondition
underconsciousness
underconstable
underconstumble
underconsume
underconsumed
underconsuming
underconsumption
undercook
undercooked
undercooking
undercooks
undercool
undercooled
undercooper
undercorrect
undercountenance
undercourse
undercoursed
undercoursing
undercourtier
undercover
undercovering
undercovert
undercraft
undercrawl
undercreep
undercrest
undercrier
undercroft
undercrop
undercrossing
undercrust
undercry
undercrypt
undergardener
undergarment
undergarments
undergarnish
undergauge
undergear
undergeneral
undergentleman
undergentlemen
undergird
undergirded
undergirder
undergirding
undergirdle
undergirds
undergirt
undergirth
underglaze
undergloom
underglow
undergnow
undergo
undergod
undergods
undergoer
undergoes
undergoing
undergone
undergore
undergos
undergoverness
undergovernment
undergovernor
undergown
undergrad
undergrade
undergrads
undergraduate
undergraduate's
undergraduatedom
undergraduateness
undergraduates
undergraduateship
undergraduatish
undergraduette
undergraining
undergrass
undergreen
underhum
underhung
underided
underinstruments
underinsurance
underinsured
underisible
underisive
underisively
underisiveness
underisory
underissue
underivable
underivative
underivatively
underived
underivedly
underivedness
underjacket
underjailer
underjanitor
underjaw
underjawed
underjaws
underjobbing
underjoin
underjoint
underjudge
underjudged
underjudging
underjungles
underkeel
underkeep
underkeeper
underkind
underking
underkingdom
underlaborer
underlabourer
underlaid
underlain
underland
underlanguaged
underlap
underlapped
underlapper
underlapping
underlaps
underogatory
underopinion
underorb
underorganisation
underorganization
underorseman
underoverlooker
underoxidise
underoxidised
underoxidising
underoxidize
underoxidized
underoxidizing
underpacking
underpaid
underpain
underpainting
underpan
underpants
underpart
underparticipation
underpartner
underparts
underpass
underpasses
underpassion
underpay
underpaying
underpayment
underpays
underpeep
underpeer
underpen
underpeopled
underpetticoat
underpetticoated
underpick
underpicked
underpier
underpilaster
underpile
underpin
underpinned
underpinner
underpinning
underpinnings
underpins
underpitch
underpitched
underplain
underplan
underplant
underplanted
underplanting
underplate
underplay
underplayed
underplaying
underplays
underplot
underplotter
underply
underpoint
underpole
underpopulate
underpopulated
underpopulating
underpopulation
underporch
underporter
underpose
underpossessor
underpot
underpower
underpowered
underpraise
underpraised
underprefect
underprentice
underprepared
underpresence
underpresser
underpressure
underprice
underpriced
underprices
underpricing
underpriest
underprincipal
underprint
underprior
underprivileged
underprize
underprized
underprizing
underproduce
underproduced
underproducer
underproduces
underproducing
underproduction
underproductive
underproficient
underprompt
underprompter
underproof
underprop
underproportion
underproportioned
underproposition
underpropped
underproper
underpropping
underprospect
underpry
underpuke
underpull
underpuller
underput
underqualified
underqueen
underquote
underquoted
underquoting
underran
underranger
underrate
underrated
underratement
underrates
underrating
underreach
underread
underreader
underrealise
underrealised
underrealising
underrealize
underrealized
underrealizing
underrealm
underream
underreamer
underreceiver
underreckon
underreckoning
underrecompense
underrecompensed
underrecompensing
underregion
underregistration
underrent
underrented
underrenting
underreport
underrepresent
underrepresentation
underrepresented
underrespected
underriddle
underringing
underrigged
underring
underripe
underripened
underriver
underroarer
underroast
underrobe
underrogue
underroll
underroller
underroof
underroom
underroot
underrooted
underrower
underrule
underruled
underruler
underruling
underrun
underrunning
underruns
undersacristan
undersail
undersailed
undersally
undersap
undersatisfaction
undersaturate
undersaturated
undersaturation
undersavior
undersaw
undersawyer
undersay
underscale
underscheme
underschool
underscoop
underscore
underscored
underscores
underscoring
underscribe
underscriber
underscore
underscrupulous
underscrupulously
undersea
underseal
underseam
underseaman
undersearch
underseas
underseated
undersecretariat
undersecretaries
undersecretary
undersecretaryship
undersect
undersee
underseeded
underseedman
underseeing
underseen
undersell
underseller
underselling
undersells
undersense
undersequence
underservant
underserve
underservice
underset
undersets
undersetter
undersill
undersinging
undersitter
undersize
undersized
underskin
underskirt
underskirts
undersky
undersleep
undersleeping
undersleeve
underslept
underslip
underslope
undersluice
underslung
undersneer
undersociety
undersoil
undersold
undersole
undersomething
undersong
undersorcerer
undersort
undersoul
undersound
undersoverign
undersow
underspan
underspar
undersparred
underspecies
underspecified
underspecify
underspecifying
underspend
underspending
underspends
underspent
undersphere
underspin
underspinner
undersplice
underspliced
undersplicings
underspore
underspread
underspreading
underspring
undersprout
underspurleather
undersquare
undershot
understaff
understaffed
understage
understain
understairs
understamp
understand
understandability
understandable
understandableness
understandably
understood
understnder
understanding
understandingly
understandingness
understandings
understands
understate
understated
understatement
understatements
understates
understating
understay
understeer
understem
understep
understeward
understewardship
understimuli
understimulus
understock
understocking
understood
understory
understrain
understrap
understrapped
understrapper
understrapping
understrata
understratum
understratums
understream
understrength
understress
understew
understrewed
understricken
understride
understriding
understrife
understrike
understriking
understring
understroke
understruck
understruction
understructure
understructures
understrung
understudied
understudies
understudy
understudying
understuff
understuffing
undersuck
undersuggestion
undersuit
undersupplied
undersupplies
undersupply
undersupplying
undersupport
undersurface
underswain
underswamp
undersward
undersweater
undersweat
undersweep
undersweeping
underswell
underswept
undertakable
undertake
undertakement
undertone
undertoned
undertones
undertook
undertow
undertows
undertrade
undertraded
undertrader
undertrading
undertrain
undertrained
undertread
undertreasurer
undertreat
undertribe
undertrick
undertrodden
undertruck
undertrump
undertruss
undertub
undertune
undertuned
undertune
undertuning
underturf
underturn
underturnkey
undertutor
undertwig
undertying
undertype
undertyrant
underused
underusher
underutilization
underutilize
undervaluation
undervalue
undervalued
undervaluement
undervaluer
undervalues
undervaluing
undervaluinglike
undervaluingly
undervalve
undervassal
undervaulted
undervaulting
undervegetation
underventilate
underventilated
underventilating
underventilation
underverse
undervest
undervicar
underviewer
undervillain
undervinedresser
undervitalized
undervocaliaried
undervoice
undervoltage
underage
underwaist
underwaistcoat
underwaists
underwalk
underward
underwarden
underwarmth
underwarp
underwash
underwatch
underwatcher
underwater
underwaters
underwave
underwaving
underway
underweapon
underwear
underweft
underweigh
underweight
underweighted
underwent
underwheel
underwhistle
underwind
underwinding
underwinds
underwing
underwit
underwitch
underwitted
underwood
underwooded
underwool
underwool
underwork
underworked
underworker
underworking
underworkman
underworkmen
underworld
underwound
underwrap
underwrapped
underwrapping
underwrit
underwrite
underwriter
underwriters
underwrites
underwriting
underwritten
underwrote
underwrought
underyield
underyoke
underzeal
underzealot
underzealous
underzealously
underzealousness
undescendable
undescended
undescendent
undescendible
undescending
undescribable
undescribableness
undescribably
undescribed
undescried
undescript
undescriptive
undescriptively
undescriptiveness
undescrying
undesecrated
undesert
undeserted
undeserting
undeserve
undeserved
undeservedly
undeservedness
undeserver
undeserving
undeservingly
undeservingness
undesiccated
undesign
undesignated
undesignative
undesigned
undesignedly
undesignedness
undesigning
undesigningly
undesigningness
undesirability
undesirable
undesirableness
undesirably
undesire
undesired
undesiredly
undesiring
undesirous
undesirously
undesirousness
undesisting
undespaired
undespairing
undespairingly
undespatched
undespised
undespising
undespoiled
undespondent
undespondently
undesponding
undespondingly
undespotic
undespotically
undestined
undestitute
undestroyable
undestroyed
undestructible
undestructibleness
undestructibly
undestructive
undestructively
undestructiveness
undetachable
undetached
undetachment
undetailed
undetainable
undetained
undetectable
undetectably
undetected
undetectible
undeteriorated
undeteriorating
undeteriorative
undeterminable
undeterminableness
undeterminably
undetermine
undetermination
undetermined
undeterminedly
undeterminedness
undeterioration
undeterrability
undeterrable
undeterrably
undeterred
undeterring
undetestability
undetestable
undetestableness
undetestably
undetested
undetesting
undethronable
undethroned
undetonated
undetracting
undetractingly
undetractive
undiagrammatic
undiagrammatical
undiagrammatically
undiagrammed
undialed
undialled
undialyzed
undiametric
undiametrical
undiametrically
undiamonded
undiapered
undiaphanous
undiaphanously
undiaphanousness
undiatonic
undiatonically
undichotomous
undichotomously
undicted
undictatorial
undictatorially
undid
undidactic
undies
undietaed
undifferenced
undifferent
undifferentiable
undifferentiably
undifferential
undifferentiated
undifferentiating
undifferentiation
undifferently
undiffering
undifficult
undifficultly
undiffident
undiffidently
undiffracted
undiffractive
undiffractively
undiffractiveness
undiffused
undiffusible
undiffusive
undiffusively
undiffusiveness
undig
undigenous
undigest
undigestable
undigested
undigestible
undigesting
undigestion
undigged
undight
undighted
undigitated
undigne
undignified
undignifiedly
undignifiedness
undignify
undigressive
undigressively
undigressiveness
undiked
undilapidated
undilatable
undilated
undilating
undilative
undilatorily
undilatory
undiligent
undiligently
undilute
undiluted
undiluting
undilution
undiluvial
undiluvian
undim
undimensioned
undimerous
undimidiate
undimidiated
undiminishable
undiminishableness
undiminishably
undiminished
undiminishing
undiminutive
undimly
undimmed
undimped
undine
undined
undines
undintoned
undiploced
undiphthongize
undiplomaed
undiplomatic
undiplomatically
undipped
undirect
undirected
undirectional
undirectly
undirectness
undirk
undisabled
undisadvantageous
undisagreeable
undisappearing
undisappointable
undisappointed
undisappointing
undisarmed
undisastrous
undisastrously
undisbanded
undisbarred
undisburdened
undisbursed
undiscardable
undiscarded
undiscernable
undiscernably
undiscerned
undiscernedly
undiscernible
undiscernibility
undiscernible
undiscernibly
undiscerning
undiscerningly
undiscerningness
undischargeable
undischarged
undiscipled
undisciplinable
undiscipline
undisciplined
undisciplinedness
undisclaimed
undisclosable
undisclose
undisclosed
undisclosing
undiscolored
undiscoloured
undiscomfitable
undiscomfited
undiscomposed
undisconcerted
undisconnected
undisconnectedly
undiscontinued
undiscordant
undiscordantly
undiscording
undiscountable
undiscounted
undiscourageable
undiscouraged
undiscouraging
undiscouragingly
undiscoursed
undiscoverability
undiscoverable
undiscoverableness
undiscoverably
undiscovered
undiscreditable
undiscredited
undiscreet
undiscreetly
undiscreetness
undiscretion
undiscriminated
undiscriminating
undiscriminatingly
undiscriminatingness
undiscriminative
undiscriminativeness
undiscriminatory
undiscursive
undiscussable
undiscussed
undisdained
undisdaining
undiseased
undisestablished
undisfigured
undisfranchised
undisfulfilled
undisgorged
undisgraced
undisguisable
undisguise
undisguised
undisguisedly
undisguisedness
undisguising
undisgusted
undisheartened
undished
undisheveled
undishonored
undisillusioned
undisinfect ed
undisinheritable
undisinherited
undisintegrated
undisinterested
undisjoined
undisjointed
undisliked
undislocated
undislodgeable
undislodged
undismantled
undismay
undismayable
undismayed
undismayedly
undismembered
undismissed
undismounted
undisobedient
undisobeyed
undisobliging
undisorder ed
undisorderly
undisorganized
undisowned
undisowning
undisparaged
undisparity
undispassionate
undispassionately
undispassionateness
undispatchable
undispatched
undispatching
undispellable
undispelled
undispensable
undispensed
undispensing
undispersed
undispersing
undisplaceable
undisplaced
undisplanted
undisplay
undisplayable
undisplayed
undisplaying
undispleased
undispose
undisposed
undisposedness
undispricied
undisprovable
undisproved
undisproving
undisputable
undisputableness
undisputably
undisputatious
undisputatiously
undisputatiousness
undisputed
undisputedly
undisputedness
undisputing
undisqualifiable
undisqualified
undisquieted
undisreputable
undisrobed
undisrupted
undissected
undissembled
undissembledness
undisembling
undisemblingly
undiseminated
undissenting
undissevered
undissimulated
undissimulating
undissipated
undissociated
undissoluble
undissolute
undissoluteness
undissolvable
undissolved
undissolving
undissonant
undissonantly
undissuadable
undissuadably
undissuade
undistanced
undistant
undistantly
undistasted
undistasteful
undistempered
undistend
undistended
undistilled
undistinct
undistinctive
undistinctly
undistinctness
undistinguish
undistinguishable
undistinguishable
undistinguishable
undistinguishably
undistinguished
undistinguishedness
undistinguishing
undistinguishingly
undistorted
undistortedly
undistorting
undistracted
undistractedly
undistractedness
undistracting
undistractingly
undistrained
undistraught
undistress
undistressed
undistributed
undistrusted
undistrustful
undistrustfully
undistrustfulness
undisturbable
undisturbance
undisturbed
undisturbedly
undisturbedness
undisturbing
undisturbingly
unditched
undithyrambic
undittoed
undiuretic
undiurnal
undiurnally
undivable
undivergent
undivergently
undiverging
undiverse
undiversely
undiverseness
undiversified
undiverted
undivertible
undivertibly
undiverting
undivertive
undivested
undivestedly
undividable
undividablely
undivide
undivided
undividedly
undividedness
undividing
undividual
undivinable
undivined
undivinelike
undivinely
undivining
undivisible
undivisive
undivisively
undivisiveness
undivorceable
undivorced
undivorcedness
undivorcement
undivulgable
undivulgeable
undivulged
undivulging
undivined
undivinedness
undo
undoable
undocible
undock
undocked
undocketed
undocking
undocks
undoced
undocedness
undocedness
undoctored
undoced
undoced
undocumentary
undocumented
undocumentedness
undodged
undoer
undoers
undoes
undoffed
undog
undogmatic
undogmatical
undogmatically
undoing
undoingness
undoings
undolled
undolorous
undolorously
undolorousness
undomed
undomestic
undomesticable
undomestically
undomesticate
undomesticated
undomestication
undomicilable
undomiciled
undominated
undominative
undomineering
undominical
undomoed
undon
undonated
undonating
undone
undoneness
undonkey
undonnish
undoomed
undoped
undormant
undose
undosed
undoting
undotted
undouble
undoubled
undoubles
undoubling
undoubttable
undoubtableness
undoubtedly
undoubted
undoubtedly
undoubtedness
undoubtful
undoubtedly
undoubtfulness
undoubting
undoubtingly
undoubtfulness
undouched
undoughty
undovelike
undoweled
undowellled
undowered
undowned
undowny
undrab
undraftable
undrafted
undrag
undragoned
undragooned
undrainable
undrained
undramatic
undramatical
undramatically
undramatisable
undramatizable
undramatized
undrape
undraped
undraperied
undrapes
undraping
undraw
undrawable
undrawing
undrawn
undraws
undreaded
undreadful
undreadfully
undreading
undreamed
undreaming
undreamlike
undreamt
undreamy
undredged
undreggy
undrenched
undress
undressed
undresses
undressing
undrest
undrew
undried
undrifting
undrillable
undrilled
undrinkable
undrinkableness
undrinkably
undrinking
undripping
undrivable
undrivableness
undriven
undronelike
undrooping
undropped
undropsical
undrossily
undrossiness
undroopy
undrowned
undrubbed
undrugged
undrun
undrunken
undrunkenness
undry
undryable
undrying
undualistic
undualistically
undualize
undub
undubbed
undubious
undubiously
undubiousness
undubitable
undubitably
undubitative
undubitatively
unducal
unduchess
unductile
undue
unduelling
undueness
undug
uneatable
uneatableness
uneated
uneaten
uneath
uneaths
uneating
uneaved
unebbed
unebbing
unebriate
unebullient
uneccentric
uneccentrically
unecclesiastic
unecclesiastical
unecclesiastically
uneechoed
unechoic
unechoing
unelectic
unelectically
uneclipsed
uneclipsing
unecliptic
unecliptical
unecliptically
uneconomic
uneconomical
uneconomically
uneconomicalness
uneconomizing
uneecstatic
uneecstatically
unedacious
unedaciously
uneddied
uneddying
unedge
unedged
unedging
unedible
unedibleness
unedibly
unedificial
unedified
unedifying
uneditable
unedited
uneducable
uneducableness
uneducably
uneducate
uneducated
uneducatedly
uneducatedness
uneducative
uneduced
uneffable
uneffaceable
uneffaceably
uneffaced
uneffected
uneffectible
uneffective
uneffectively
uneffectiveness
uneffectless
uneffectual
uneffectually
uneffectualness
unffectuated
uneffeminate
uneffeminated
uneffeminately
uneffeness
uneffervescent
uneffervescently
uneffete
uneffeteness
unefficacious
unefficaciously
unefficient
uneffigiated
uneffulgent
uneffulgently
uneffused
uneffusing
uneffusive
uneffusively
uneffusiveness
unegal
unegally
unegalaness
unegoist
unegoistical
unegoistically
unegotistical
unegotistically
unegregious
unegregiously
unegregiousness
unejaculated
unejected
unejective
unelaborate
unelaborated
unelaborately
unelaborateness
unelapsed
unelastic
unelastically
unelasticity
unelated
unelating
unelbowed
unelderly
unelect
unelectable
unelected
unelective
unelectric
unelectrical
unelectrically
unelectrified
unelectrify
unelectrifying
unelectrized
unelectronic
uneleemosynary
unelegant
unelegantly
unelegantness
unelemental
unelementally
unelementary
unelevated
unelicitable
unelicited
unelided
unelidible
uneligibility
uneligible
uneligibly
uneliminated
unelliptical
unelongated
uneloped
uneloping
uneloquent
uneloquently
unelucidated
unelucidating
unelucidative
uneludable
uneluded
unelusive
unelusively
unelusiveness
unelusory
unemaciated
unemanative
unemancipable
unemancipated
unemancipative
unemasculated
unemasculative
unemasculatory
unembalmed
unembanked
unembarrassed
unembarrassed
unembarrassedly
unembarrassedness
unembarrassing
unembarrassment
unembased
unembattled
unembayed
unembellished
unembellishedness
unembellishment
unembezzled
unemitted
unemblazoned
unembodied
unembodiment
unembossed
unemboweled
unembowelled
unembrowered
unembraceable
unempty
unemulative
unemulous
unemulsified
unenabled
unenacted
unenamed
unenamedel
unenamored
unenamoured
unencamped
unenchafed
unenchant
unenchanted
unenciphered
unencircled
unenclosed
unencompassed
unencored
unencounterable
unencounterer
unencouraged
unencouraging
unencroached
unencroaching
unencrypted
unencumber
unencumbered
unencumberedly
unencumberedness
unencumbering
unencysted
unendable
unendamaged
unendangered
unendeared
unendeavored
unended
unendemic
unending
unendingly
unendingness
unendly
unendorsable
unendorsed
unendowed
unendowing
unended
unendurability
unendurable
unendurableness
unendurably
unendured
unenduring
unenduringly
unenergetic
unenergetically
unenergized
unenervated
unenfeebled
unenfiladed
unenforceability
unenforceable
unenforced
unenforcedly
unenforcedness
unenforcibility
unenfranchised
unengaged
unengaging
unengagingness
unengendered
unengineered
unenglish
unenglished
unengraved
unengraven
unengrossed
unengrossing
unenhanced
unenigmatic
unenigmatical
unenigmatically
unenjoined
unenjoyable
unenjoyableness
unenjoyably
unenjoyed
unenjoying
unenjoyingly
unenkindled
unenlarged
unenlarging
unenlightened
unenlightening
unenlightenment
unenlisted
unenlivened
unenlivening
unennobled
unennobling
unenounced
unenquired
unenquiring
unenraged
unenraptured
unenrichable
unenrichableness
unenriched
unenriching
unenrobed
unenrolled
unenshrined
unenslave
unenslaved
unensnared
unensouled
unensured
unentailed
unentangle
unentangleable
unentangled
unentanglement
unentangler
unentangling
unenterable
unentered
unentering
unenterprise
unenterpriseed
unenterprising
unenterprisingly
unenterprisingness
unentertainable
unentertained
unentertaining
unentertainingly
unentertainingness
unenthralled
unenthralling
unenthroned
unenthused
unenthusiasm
unenthusiastic
unenthusiastically
unenticeable
unenticed
unenticing
unentire
unentitled
unentitledness
unentitlement
unentombed
unentomological
unentrance
unentranced
unentrapped
unentreatable
unentreated
unentreating
unentrenched
unentwined
unenumerable
unenumerated
unenumerative
unenunciable
unenunciated
unenunciative
unenveloped
unenvenomed
unenviability
unenviable
unenviably
unenvied
unenviedly
unenvious
unenviously
unenvironed
unenvying
unenvyingly
unenwoven
unepauleted
unepauletted
unephemeral
unephemerally
unepic
unepicurean
unepigrammatic
unepigrammatically
unepilogued
unepiscopal
unepiscopally
uneepistolyar
uneepitaphed
uneepithelial
uneepitomised
uneepitomized
uneepochal
uneequability
uneequable
uneequableness
uneequably
uneequal
uneequableable
uneequaled
uneequalise
uneequalised
uneequalising
unequality
unequalize
unequalized
unequalizing
unequalled
unequally
unequalaness
unequals
unequated
unequatorial
unequestrian
unequiangular
unequiaxed
unequilateral
unequilaterally
unequilibrated
unequine
unequipped
unequitable
unequivalently
unequivalently
unequivalve
unequivaled
unequivocably
unequivocal
unequivocally
unequivocalness
unequivocating
uneradicable
uneradicated
uneradicative
unerasable
unerased
unerasing
unerect
unerected
uneroded
unerodent
uneroding
unerosing
unerotic
unerrable
unerrable
unerrable
unerratically
unerrant
unerrancy
unerased
unerasing
unerect
uneroded
unerodent
uneroding
unerotic
unerrable
unerrablingness
unerrably
unerrancy
unerant
unerrantly
unerratic
unerring
unerringly
unerringness
unerroneous
unerroneously
unerroneousness
unerudite
unerupted
uneruptive
unescaled
unescaled
unescaatable
unescapable
unescapableness
unescapably
unescape
unescapeable
unescaated
uneschewable
uneschewably
uneschewed
unesco
unescoced
unescuchoned
unesoteric
unespied
unespoused
unespoused
unessayed
unessence
unessential
unessentially
unessentialness
unestablish
unestablishable
unestablished
unestablishment
unesteemed
unesthetic
unestimable
unestimableness
unestimably
unestimated
unestrapped
unetched
uneternal
uneternized
unethereal
unethereally
unetherealness
unethic
unethical
unethically
unethicalness
unethnologic
unethnological
unethnologically
unethnologized
unethnologizable
uneucharistical
uneugenic
uneugenical
uneugenically
uneulogised
uneulogized
uneuphemistic
uneuphemistical
uneuphemistically
uneuphonic
uneuphonious
uneuphoniously
uneuphoniousness
unevacuated
unevadable
evaded
evadable
evadible
evading
unevaluated
unevanescent
unevanescently
unevangelic
unevangelical
unevangelically
unevangelised
unevangelized
unevaporate
unevaporated
unevaporative
unevasive
unevasively
unevasiveness
uneven
unevener
unevenest
unevenly
unevenness
uneventful
uneventfully
uneventfulness
uneversible
uneverted
unevicted
unevenced
unevident
unevidential
unevil
unevily
unevined
unevincible
unevirated
uneviscerated
unevitable
unevitably
unevocable
unevocative
unevokable
unevoked
unevolutional
unevolutionary
unevolved
unexacerbated
unexacerbating
unexact
unexacted
unexactedly
unexacting
unexactingly
unexactingness
unexactly
unexactness
unexaggerable
unexaggerated
unexaggerating
unexaggerative
unexaggeratory
unexalted
unexalting
unexaminable
unexamined
unexamining
unexampled
unexampledness
unexasperated
unexasperating
unexcavated
unexceedable
unexceeded
unexcelled
unexcellent
unexcellently
unexcelling
unexceptable
unexcepted
unexcepting
unexceptionability
unexceptionable
unexceptionableness
unexceptionably
unexceptional
unexceptionality
unexceptionally
unexceptionalness
unexceptive
unexcerpted
unexcessive
unexcessively
unexcessiveness
unexchangeable
unexchangeableness
unexchangeableness
unexchanged
unexcised
unexcised
unexcitable
unexcitablely
unexcitability
unexcitability
unexcited
unexciting
unexclaiming
unexcludable
unexcluded
unexcluding
unexclusive
unexclusively
unexclusiveness
unexcogitable
unexcogitated
unexcogitative
unexcommunicated
unexcoriated
unexcorticated
unexcruciant
unexcruciating
unexculpable
unexculpably
unexecrated
unexecrative
unexcursive
unexcursively
unexcusable
unexcusables
unexcusably
unexcused
unexcusibly
unexcusedness
unexcessing
unexecrating
unexecratable
unexecratable
unexempt
unexemptable
unexempted
unexemptible
unexempting
unexercisable
unexercise
unexercised
unexerted
unexhalable
unexhaled
unexhausted
unexhaustedly
unexhaustedness
unexhaustible
unexhaustibleness
unexhaustibly
unexhaustion
unexhaustive
unexhaustively
unexhaustiveness
unexhibitible
unexhibitableness
unexhibited
unexhilarated
unexhilarating
unexhilarative
unexhortative
unexhorted
unexhumed
unexigent
unexigently
unexigible
unexilable
unexiled
unexistence
unexistent
unexistential
unexistentially
unexisting
unexonerable
unexonerated
unexonerative
unexorable
unexorableness
unexorbitant
unexorbitantly
unexorcisable
unexorcisably
unexorcised
unexotic
unexotically
unexpandable
unexpanded
unexpanding
unexpansible
unexpansive
unexpansively
unexpansiveness
unexpect
unexpectability
unexpectable
unexpectably
unexpectant
unexpectantly
unexpected
unexpectedly
unexpectedness
unexpecteds
unexpecteding
unexpectedly
unexpectedorated
unexpedient
unexpeditiously
unexpeditable
unexpeditated
unexpedited
unexpeditious
unexpeditiously
unexpeditiousness
unexpellable
unexpelled
unexpendable
unexpended
unexpensive
unexpensively
unexpensiveness
unexperience
unexperienced
unexperiencedness
unexperient
unexperiential
unexperientially
unexperimetal
unexperimenterably
unexperimetted
unexpert
unexpertly
unexpertness
unexpiable
unexpiated
unexpired
unexpiring
unexplainable
unexplainableness
unexplainably
unexplained
unexplainedly
unexplainedness
unexplaining
unexplanatory
unexplicable
unexplicableness
unexplicably
unexplicated
unexplicative
unexplicit
unexplicitly
unexplicitness
unexplodable
unexploded
unexploitable
unexploitation
unexploitative
unexploited
unexplorable
unexplorative
unexploratory
unexplored
unexplosive
unexplosively
unexplosiveness
unexponible
unexportable
unexported
unexporting
unexposable
unexposed
unexpostulating
unexpoundable
unexpounded
unexpress
unexpressable
unexpressableness
unexpressably
unexpressed
unexpressedly
unexpressible
unexpressibleness
unexpressibly
unexpressive
unexpressively
unexpressiveness
unexpressly
unexpropriable
unexpropriated
unexpugnable
unexpunged
unexpurgated
unexpurgatedly
unexpurgatedness
unextendable
unextended
unextendedly
unextendedness
unextendibility
unextendible
unextensibility
unextensible
unextenuable
unextenuated
unextenuating
unexterminable
unexterminated
unexternal
unexternality
unexterritoriality
unextinct
unextinctness
unextinguishable
unextinguishableness
unextinguishably
unextinguished
unextirpable
unextirpated
unextolled
unextortable
unextorted
unextractable
unextracted
unextradited
unextraneous
unextraneously
unextraordinary
unextravagance
unextravagant
unextravagantly
unextravagating
unextravasated
unextreme
unextremeness
unextricable
unextricated
unextrinsic
unextruded
unexuberant
unexuberantly
unexudative
unexuded
unexultant
unexultantly
uneve
uneveable
uneved
unfabled
unfabling
unfabricated
unfabulous
unfabulously
unfacaded
unface
unfaceable
unfaced
unfacetet
unfacetioes
unfacetiously
unfacetiousness
unfacile
unfacilely
unfacilitated
unfact
unfactional
unfactual
unfactively
unfactitiously
unfactitous
unfactorable
unfactored
unfactual
unfactually
unfactualness
unfadalable
unfaded
unfading
unfadingly
unfadingness
unfagged
unfagoted
unfailable
unfailableness
unfailably
unfailed
unfailing
unfailingly
unfailingness
unfain
unfaint
unfainting
unfaintly
unfair
unfairer
unfairest
unfairly
unfairminded
unfairness
unfairylike
unfaith
unfaithful
unfaithfully
unfaithfulness
unfaiths
unfaithworthiness
unfaithworthy
unfakable
unfaked
unfalcated
unfallacious
unfallaciously
unfallaciousness
unfallen
unfallenness
unfallible
unfallibleness
unfallibly
unfalling
unfallowed
unfalse
unfalselessness
unfalsifiable
unfalsified
unfalsifiedness
unfastening
unfastens
unfastidious
unfastidiously
unfastidiousness
unfasting
unfatalistic
unfatalistically
unfated
unfather
unfathered
unfatherlike
unfatherliness
unfatherly
unfathomability
unfathomable
unfathomableness
unfathomably
unfathomed
unfatigable
unfatigue
unfatigueable
unfatigued
unfatiguing
unfattable
unfatted
unfatten
unfatty
unfatuitous
unfatuitously
unfauceted
unfaultable
unfaultfinding
unfaulty
unfavorable
unfavorableness
unfavorably
unfavored
unfavoring
unfavorite
unfavourable
unfavourableness
unfavourably
unfavoured
unfavouring
unfavourite
unfawning
unfazed
unfazedness
unfealty
unfeared
unfearful
unfearfully
unfearfulness
unfearing
unfearingly
unfearingness
unfeary
unfeasable
unfeasableness
unfeasably
unfeasibility
unfeasible
unfeasibleness
unfeasibly
unfeasted
unfeastly
unfeather
unfeathered
unfeatured
unfeaty
unfebrile
unfecund
unfecundated
unfed
unfederal
unfederated
unfederative
unfederatively
unfeeble
unfeebleness
unfeebly
unfeed
unfeedable
unfeeding
unfeeing
unfeel
unfeelable
unfeeling
unfeelingly
unfeelingness
unfeignable
unfeignableness
unfeignably
unfeigned
unfeignedly
unfeignedness
unfeigning
unfeigningly
unfeigningness
unfele
unfelicitated
unfelicitating
unfelicitous
unfelicitously
unfelicitousness
unfeline
unfellable
unfelled
unfellied
unfellow
unfellowed
unfellowlike
unfellowly
unfellowshiped
unfelon
unfelonious
unfeloniously
unfelony
unfelt
unfelted
unfemale
unfeminine
unfemininely
unfeminineness
unfemininity
unfeminise
unfeminised
unfeminising
unfeminist
unfeminize
unfeminized
unfeminizing
unfence
unfenced
unfences
unfencing
unfended
unfendered
unfenestral
unfenestrated
unfeoffed
unfermentable
unfermentableness
unfevered
unfeverish
unfew
unfrozé
unfibbed
unfibbing
unfiber
unfibered
unfibred
unfibrous
unfibrously
unfickle
unfictitious
unfictitiously
unfictitiousness
unfidelity
unfidgeting
unfiducial
unfielded
unfiend
unfiendlike
unfierce
unfiercely
unfiery
unfight
unfightable
unfighting
unfigurable
unfigurative
unfigured
unfilamentous
unfilched
unfile
unfiled
unfilial
unfilially
unfilialness
unfiling
unfill
unfillable
unfilled
unfilleted
unfilling
unfilm
unfilmed
unfilmed
unfilterable
unfiltered
unfiltering
unfiltrated
unfimbriated
unfinable
unfinanced
unfinancial
unfindable
unfine
unfineable
unfined
unfinessed
unfined
unfinessed
unfingered
unfigured
unfinical
unfinicalness
unfinish
unfinishable
unfinished
unfinishead
unfinishedness
unfinite
unfired
unfireproof
unfiring
unfirm
unfirmamented
unfirmly
unfirmness
unfiscal
unfiscally
unfishable
unfished
unfishing
unfishlike
unfissile
unfistulous
unfit
unfitly
unfitness
unfits
unfittable
unfitted
unfittedness
unfitten
unfitting
unfittingly
unfittingness
unfitty
unfix
unflavoured
unflavourous
unflawed
unflayed
unfleal
unflecked
unfledge
unfledged
unfledgedness
unfleece
unfleeeced
unfleeing
unfleeting
unflesh
unfleshed
unfleshliness
unfleshly
unfleshy
unfletched
unflexed
unflexibility
unflexible
unflexibleness
unflexibly
unflickering
unflickeringly
unflighty
unflinching
unflinchingly
unflinchingness
unflintify
unflippant
unflippantly
unflirtatious
unflirtatiously
unflirtatiousness
unflitched
unfloatable
unfloating
unflock
unfloggable
unflogged
unflooded
unfloor
unfloored
unflorid
unflossy
unflounced
unfloundering
unfloured
unflourished
unflourishing
unflouted
unflower
unflowered
unflowering
unflowery
unflowing
unflown
unfluctuant
unfluctuating
unfluent
unfluently
unfluffed
unfluffy
unfluid
unfluked
unflunked
unfluorescent
unfluorinated
unflurried
unflush
unflushed
unflustered
unfluted
unflutterable
unfluttered
unfluttering
unfluvial
unfluxile
unflying
unfoaled
unfoamed
unfoaming
unfocused
unfocusing
unfocussed
unfocussing
unfogged
unfogging
unfoggy
unfoilable
unfoiled
unfoisted
unfold
unfoldable
unfolded
unfolden
 unfolder
 unfolders
 unfolding
 unfoldment
 unfolds
 unfoldure
 unfoliaged
 unfoliated
 unfollowable
 unfollowed
 unfollowing
 unfomented
 unfond
 unfondled
 unfondly
 unfondness
 unfoodful
 unfool
 unfoolable
 unfooled
 unfooling
 unfoolish
 unfoolishly
 unfoolishness
 unfooted
 unfoot sore
 unfoppish
 unforaged
 unforbade
 unforbearance
 unforbearing
 unforbid
 unforbidded
 unforbidden
 unforbiddenly
 unforbiddenness
 unforbidding
 unforceable
 unforced
 unforceably
 unforcedness
 unforceful
 unforcefully
 unforcible
 unforcibleness
 unforcibly
unforcing
unfordable
unfordableness
unforded
unforeboded
unforeboding
unforecast
unforecasted
unforegone
unforeign
unforeknowable
unforeknown
unforensic
unforensically
unforeordained
unforesee
unforeseeable
unforeseeableness
unforeseeably
unforeseeing
unforeseeingly
unforeseen
unforeseenly
unforeseenness
unforeshortened
unforest
unforestallable
unforestalled
unforested
unforetellable
unforethought
unforethoughtful
unforetold
unforewarned
unforewarnedness
unforfeit
unforfeitable
unforfeited
unforfeiting
unforgeability
unforgeable
unforged
unforget
unforgetful
unforgetfully
unforgetfulness
unforgettableness
unforgettable
unforgettableness
unforgettably
unforgetting
unforgettingly
unforgivable
unforgivableness
unforgivably
unforgiven
unforgiveness
unforgiver
unforgiving
unforgivingly
unforgivingness
unforgoable
unforgone
unforgot
unforgotten
unfork
unforked
unforkedness
unforlorn
unform
unformal
unformalised
unformalistic
unformality
unformalized
unformally
unformalness
unformative
unformatted
unformed
unformidable
unformidableness
unformidably
unformulable
unformularizable
unformularize
unformulated
unformulistic
unforsaken
unforsaking
unforeseen
unforsook
unforsworn
unforthright
unfortifiable
unfortified
unfrequently
unfrequentness
unfret
unfretful
unfretfully
unfretted
unfretting
unfretty
unfriable
unfriableness
unfriarlike
unfricative
unfrictional
unfrictionally
unfrictioned
unfried
unfriend
unfriended
unfriendedness
unfriend
unfrienddier
unfriendliest
unfriendlike
unfriendlily
unfriendliness
unfriendly
unfriendship
unfrighted
unfrightenable
unfrightened
unfrightenedness
unfrightening
unfrightful
unfrigid
unfrigidity
unfrigidly
unfrigidityness
unfrill
unfrilled
unfrilly
unfringe
unfringed
unfringing
unfrisking
unfrisky
unfrittered
unfrivolous
unfrivolously
unfrivolousness
unfrizz
unfrizzled
unfrizzly
unfrizzy
unfrock
unfrocked
unfrocking
unfrocks
unfroglike
unfrolicsome
unfronted
unfrost
unfrosted
unfrosty
unfrothed
unfrothing
unfrowned
unfroward
unfrowardly
unfrowning
unfroze
unfrozen
unfructed
unfructified
unfructify
unfructuous
unfructuously
unfrugal
unfrugality
unfrugally
unfrugalness
unfruitful
unfruitfully
unfruitfulness
unfruity
unfrustrable
unfrustrably
unfrustratable
unfrustrated
unfruтиosity
unfuddled
unfudged
unfueled
unfuelled
unfugal
unfugally
unfugitive
unfurnured
unfurred
unfurrow
unfurrowable
unfurrowed
unfurthersome
unfused
unfusibility
unfusible
unfusibleness
unfusibly
unfusibness
unfussed
unfussily
unfussiness
unfussing
unfussy
unfutile
unfuturistic
ung
ungabled
ungag
ungaged
ungagged
ungagging
ungain
ungainable
ungained
ungainful
ungainfully
ungainfulness
ungaining
ungainliier
ungainliest
ungainlike
ungainliness
ungainly
ungainness
ungainsaid
ungainsayable
ungainsayably
ungainsaying
ungainsome
ungainsomely
ungaite
ungaited
ungallant
ungallantly
ungazetted
ungazing
ungear
ungeared
ungelatinizable
ungelatinized
ungelatinous
ungelatinously
ungelatinousness
ungelded
ungelt
ungemminated
ungendered
ungenerable
ungeneral
ungenerated
ungenerated
ungenerative
ungeneric
ungenerical
ungenerically
ungenerosity
ungenerous
ungenerously
ungenerousness
ungenial
ungeniality
ungenially
ungenialness
ungenitive
ungenitured
ungenius
ungenteel
ungenteelly
ungenteelness
ungenteely
ungentile
ungentility
ungentilize
ungentile
ungentled
ungentle
ungentleman
ungentlemanize
ungentlemanlike
ungentlemanlikeness
ungentlemanliness
ungentlemanly
ungentleness
ungentlewomanlike
ungently
ungenuine
ungenuinely
ungenuineness
ungeodetic
ungeodetical
ungeodetically
ungeographic
ungeographical
ungeographically
ungeological
ungeologically
ungeometric
ungeometrical
ungeometrically
ungeometricalness
ungermane
ungerminant
ungerminated
ungerminating
ungerminative
ungermlike
ungerontic
ungesticular
ungesticulating
ungesticulative
ungesticulatory
ungesting
ungestural
ungesturing
unget
ungetable
ungetatable
ungettable
ungeuntarium
ungeuntary
unghostlike
unghostly
ungiant
ungibbet
ungiddy
ungift
ungifted
ungiftedness
ungild
ungilded
ungill
ungilled
ungilt
ungingled
unginned
ungird
ungirded
ungirding
ungirdle
ungirdled
ungirdling
ungirds
ungirlish
ungirlishly
ungirlishness
ungirt
ungirth
ungirthed
ungivable
ungive
ungiveable
ungiven
ungiving
ungivingness
ungka
unglacial
unglacially
unglaciated
unglad
ungladden
ungladdened
ungladly
ungladness
ungladsome
unglamorous
unglamorously
unglamorousness
unglamourous
unglamourously
unglandular
unglaring
unglassed
unglassed
unglassy
unglutinate
unglutinosity
unglutinous
unglutinously
unglutinousness
unglutted
ungluttonous
ungnarled
ungnarred
ungnaw
ungnawed
ungnawn
ungnostic
ungoaded
ungoatlike
ungod
ungoddess
ungodlier
ungodliest
ungodlike
ungodlily
ungodliness
ungodly
ungodmothered
ungogged
ungoitered
ungold
ungolden
ungone
ungood
ungoodliness
ungoodly
ungoodness
ungored
ungorge
ungorged
ungorgeous
ungospel
ungospelized
ungospelled
ungospellike
ungossiping
ungossipy
ungot
ungothic
ungotten
ungouged
ungouty
ungovernability
ungovernable
ungovernableness
ungovernably
ungoverned
ungovernedness
ungoverning
ungovernmental
ungovernmentally
ungown
ungowned
ungrabbing
ungrace
ungraced
ungraceful
ungracefully
ungracefulness
ungracious
ungraciously
ungraciousness
ungradated
ungradating
ungraded
ungradual
ungradually
ungraduated
ungraduating
ungraft
ungrafted
ungrain
ungrainable
ungrained
ungrammar
ungrammared
ungrammatic
ungrammatical
ungrammaticality
ungrammatically
ungrammaticalness
ungrammaticism
ungrand
ungrantable
ungranted
ungranular
ungranulated
ungraphable
ungraphic
ungraphical
ungraphically
ungraphitized
ungrapple
ungrappled
ungrapper
ungrappling
ungrasp
ungraspable
ungrased
ungrasping
ungrassy
ungrated
ungrateful
ungratefully
ungratefulness
ungratifiable
ungratification
ungratified
ungratifying
ungratifyingly
ungrating
ungratitude
ungratuitous
ungratuitously
ungratuitousness
ungrave
ungraved
ungraveled
ungravelled
ungravelly
ungravely
ungraven
ungravitating
ungravitational
ungravitative
ungrayed
ungrazed
ungreased
ungreasy
ungreat
ungreatly
ungreatness
ungreeable
ungreedy
ungreen
ungreenable
ungreened
ungreeted
ungregarious
ungregariously
ungregariousness
ungreyed
ungrid
ungrieve
ungrieved
ungrieving
ungrilled
ungrimed
ungrindable
ungrinned
ungrip
ungripe
ungripped
ungripping
ungritty
ungrizzled
ungroaning
ungroined
ungroomed
ungrooved
ungropeable
ungross
ungrotesque
unground
ungroundable
ungroundably
ungrounded
ungroundedly
ungroundedness
ungroupable
ungrouped
ungroveling
ungrovelling
ungrow
ungrowing
ungrowling
ungrown
unrubbed
unrugged
unrudging
unrudgingly
unrudgingness
ungruesome
unruff
ungrumbling
unhanded
unhandicapped
unhandier
unhandiest
unhandily
unhandiness
unhanding
unhandled
unhands
unhandseled
unhandselled
unhandsome
unhandsomely
unhandsomeness
unhandy
unhang
unhanged
unhanging
unhangs
unhanked
unhap
unhappen
unhappi
unhappier
unhappiest
unhappily
unhappiness
unhappy
unharangued
unharassed
unharbor
unharbored
unharbour
unharboured
unhard
unharden
unhardenable
unhardened
unhardihood
unhardily
unhardiness
unhardness
unhardy
unharked
unharmable
unharmed
unharmful
unharmfully
unharming
unharmonic
unharmonical
unharmonically
unharmonious
unharmoniously
unharmoniousness
unharmonise
unharmonised
unharmonising
unharmonize
unharmonized
unharmonizing
unharmony
unharness
unharnessed
unharnesses
unharnessing
unharped
unharping
unharried
unharrowed
unharsh
unharshly
unharshness
unharvested
unhashed
unhasp
unhasped
unhaste
unhasted
unhastened
unhastily
unhastiness
unhasting
unhasty
unhat
unhatchability
unhatchable
unhatched
unhatched
unhate
unhated
unhateful
unhating
unhatingly
unhats
unhatted
unheatable
unheated
unheathen
unheaved
unheaven
unheavenly
unheavily
unheaviness
unheavy
unhectic
unhectically
un hectored
unhedge
unhedged
unhedging
unhedonistic
un hedonistically
un heed
unheeded
un heededly
un heedful
un heedfully
un heedfulness
un heeding
un heedingly
un heedy
un heeled
un heelpiced
un hefted
un heightened
un heired
un held
un hele
un heler
un helm
un helmed
un helmet
un helmeted
un helming
un helms
un help
un helpable
un helpableness
un helped
un helpful
un helpfully
un helpfulness
un helping
unhelved
unhemmed
unhende
unhent
unheppen
unheralded
unheraldic
unherbaceous
unherd
unherded
unhereditary
unheretical
unheritable
unhermetic
unhermitic
unhermitical
unhermitically
unhero
unheroic
unheroical
unheroically
unheroicalness
unheroicness
unheroism
unheroize
unherolike
unhesitant
unhesitantly
unhesitating
unhesitatingly
unhesitatingness
unhesitative
unhesitatively
unheuristic
unheuristically
unhewable
unhewed
unhewn
unhex
unhid
unhidable
unhidableness
unhidably
unhidated
unhidden
unhide
unhideable
unhideably
unhidebound
unhideboundness
unhideous
unhideously
unhideousness
unhieratic
unhieratical
unhieratically
unhigh
unhilarious
unhilariously
unhilariousness
unhilly
unhinderable
unhinderably
unhindered
unhindering
unhinderingly
unhinge
unhinged
unhingement
unhinges
unhinging
unhinted
unhip
unhitched
unhitches
unhitching
unhittable
unhive
unhoard
unhoarded
unhoarding
unhoary
unhoaxability
unhoaxable
unhoaxed
unhobble
unhobbling
unhocked
unhoed
unhogged
unhoist
unhoisted
unhold
unholiday
unholier
unholiest
unholily
unholiness
unhollow
unhollowed
unholpen
unholy
unhome
unhomelike
unhomelikeness
unhomeliness
unhomely
unhomicidal
unhomiletic
unhomiletical
unhomiletically
unhomish
unhomogeneity
unhomogeneous
unhomogeneously
unhomogeneousness
unhomogenized
unhomologic
unhomological
unhomologically
unhomologized
unhomologous
unhoned
unhonest
unhonestly
unhonesty
unhoneyed
unhonied
unhonorable
unhonorably
unhonored
unhonourable
unhonourably
unhostile
unhostilely
unhostileness
unhostility
unhot
unhounded
unhoundlike
unhouse
unhoused
unhouseled
unhousethink
unhouses
unhousewifely
unhousing
unhubristic
unhuddle
unhuddled
unhuddling
unhued
unhugged
 unhull
unhulled
unhuman
unhumane
unhumanely
unhumaneness
unhumanise
unhumanised
unhumanising
unhumanistic
unhumanitarian
unhumanize
unhumanized
unhumanizing
unhumanly
unhumanness
unhumble
unhumbled
unhumbledness
unhumbleness
unhumbly
unhumbugged
unhumid
unhumified
unhumidifying
unhumiliated
unhumiliating
unhumiliatingly
unhyphenated
unhyphened
unhypnotic
unhypnotically
unhypnotisable
unhypnotise
unhypnotised
unhypnotising
unhypnotizable
unhypnotize
unhypnotized
unhypnotizing
unhypocritical
unhypocritically
unhypothecated
unhypothetical
unhypothetically
unhysterical
unhysterically
uni
unialgal
uniambic
uniambically
uniangulate
uniarticular
uniarticulate
uniat
uniate
uniatism
uniauriculate
uniauriculated
uniaxal
uniaxally
uniaxial
uniaxially
unibasal
unibivalent
unible
unibracteate
unibracteolate
unibranchiate
unicalcarate
unicameral
unicameralism
unicameralist
unicamerally
unicamerate
unicapsular
unicarinate
unicarinated
unice
uniced
unicef
unicell
unicellate
unicelled
unicellular
unicellularity
unicentral
unichord
uniciliate
unicing
unicism
unicist
unicity
uniclinal
unicolor
unicolorate
unicolored
unicolorous
unicolour
uniconoclastic
uniconoclastically
uniconstant
unicorn
unicorn's
unicorneal
unicornic
unicornlike
unicornous
unicorns
unicornuted
unicostate
unicotyledonous
unicum
unicursal
unicursality
unicursally
unicuspid
unicuspidate
unicycle
unicycles
unicyclist
unidactyl
unidactyle
unidactylyous
unidea'd
unideaed
unideal
unidealised
unidealism
unidealist
unidealistic
unidealistically
unidealized
unideated
unideating
unideational
unidentate
unidentated
unidentical
unidentically
unidenticulate
unidentifiable
unidentifiableness
unidentifiably
unidentified
unidentifiedly
unidentifying
unideographic
unideographical
unideographically
unidextral
unidextrality
unidigitate
unidimensional
unidiomatic
unidiomatically
unidirect
unidirected
unidirection
unidirectional
unidirectionality
unidirectionally
unidle
unidleness
unidling
unidly
unidolatrous
unidolised
unidolized
unidylic
unie
uniembryonate
uniequivalent
uniface
unifaced
unifaces
unifacial
unifactoral
unifactorial
unifarious
unifiable
unific
unification
unificationist
unifications
unificator
unified
unifiedly
unifiedness
unifier
unifiers
unifies
unifilar
uniflagellate
unifloral
uniflorate
uniflorous
uniflow
uniflowered
unifocal
unifoliar
unifoliate
unifoliolate
uniform
uniformal
uniformalization
uniformalize
uniformally
uniformation
uniformed
uniformer
uniformest
uniforming
uniformisation
uniformise
uniformised
uniformising
uniformist
uniformitarian
uniformitarianism
uniformities
uniformity
uniformization
uniformize
uniformized
uniformizing
uniformless
uniformly
uniformness
uniforms
unify
unifying
ungenesis
unigenetic
unigenist
unigenistic
unigenital
unigeniture
unigenous
uniglandular
uniglobular
unignitable
unignited
unignitable
unigniting
unignominious
unignominiously
unignominiousness
unignorant
unignorantly
unignored
unignoring
unigravida
uniguttulate
unijugate
unjugous
unilabiate
unilabiated
unilamellar
unilamellate
unilaminar
unilaminate
unilateral
unilateralism
unilateralist
unilaterality
unilateralization
unilateralize
unilaterally
unilinear
unilingual
unilingualism
unilateral
unilluded
unilludedly
unillumed
unilluminant
unilluminated
unilluminating
unillumination
unilluminative
unillumined
unillusioned
unillusive
unillusory
unillustrated
unillustrative
unillustrious
unillustriously
unillustriousness
unilobal
unilobar
unilobate
unilobe
unilobed
unilobular
unilocular
unilocularity
uniloculate
unimacular
unimaged
unimaginability
unimaginable
unimaginableness
unimaginably
unimaginary
unimaginative
unimaginatively
unimaginativeness
unimagine
unimagined
unimanual
unimbanked
unimbellished
unimbazzled
unimbibed
unimbibing
unimbittered
unimbodied
unimboldened
unimbordered
unimbosomed
unimbowed
unimbowered
unimbroiled
unimbrowned
unimbued
unimedium
unimitable
unimitableness
unimitably
unimitated
unimitating
unimitative
unimmaculate
unimmaculately
unimmaculateness
unimmanent
unimmanently
unimmediate
unimmediately
unimmediateness
unimmerged
unimmergible
unimmersed
unimmigrating
unimminent
unimmolated
unimmortal
unimmortalize
unimmortalized
unimmovable
unimmunised
unimmunized
unimmured
unimodal
unimodality
unimodular
unimolecular
unimolecularity
unimpacted
unimpair
unimpairable
unincriminating  
unincubated  
uninculcated  
unincumbered  
unindebted  
unindebtedly  
unindebtedness  
unindemnified  
unindentable  
unindentent  
unindentured  
unindexed  
unindicable  
unindicated  
unindicative  
unindicatively  
unindictable  
unindictableness  
unindicted  
unindifference  
unindifferency  
unindifferent  
unindifferently  
unindigenous  
unindigenously  
unindigent  
unindignant  
unindividual  
unindividualize  
unindividualized  
unindividuated  
unindoctrinated  
unindorsed  
uninduced  
uninducible  
uninducted  
uninductive  
unindulged  
unindulgent  
unindulgently  
unindulging  
unindurate  
unindurated  
unindurative  
unindustrial  
unindustrialized  
unindustrious  
unindustriously
unindwellable
uninebriate
uninebriated
uninebriatedness
uninebriating
uninebrious
uninert
uninertly
uninervate
uninerved
uninfallibility
uninfallible
uninfatuated
uninfectable
uninfected
uninfectious
uninfectiously
uninfectiousness
uninfective
uninfeft
uninferable
uninferably
uninferential
uninferentially
uninerrable
uninerrably
uninferred
uninferable
uninerribly
uninfested
uninflected
uninflectedness
uninflective
uninfluenced
uninfluenceability
uninfluenceable
uninfluenced
uninfluencing
uninflamed
uninflammability
uninflammable
uninflated
uninflected
uninflectedness
uninflective
uninflicted
uninfluenceability
uninfluenceable
uninfluenced
uninfluencing
uninfluenve
unscribed
uninserted
unshrined
unsidious
unsidiously
unsidiousness
uninsightful
uninsinuated
uninsinuating
uninsinuative
uninsistent
uninsistently
uninsolated
uninsolating
uninsolvent
uninspected
uninspirable
uninspired
uninspiring
uninspiringly
uninspirited
uninspissated
uninstalled
uninstanced
uninstated
uninstigated
uninstigative
uninstilled
uninstinctive
uninstinctively
uninstinctiveness
uninstituted
uninstitutional
uninstitutionally
uninstitutive
uninstitutively
uninstructed
uninstructedly
uninstructedness
uninstructible
uninstructing
uninstructive
uninstructively
uninstructiveness
uninstrumental
uninstrumentally
uninsular
uninsulate
uninsulated
uninsulating
uninsuitable
uninsulted
uninsulting
uninsurability
uninsurable
uninsured
unintegrable
unintegral
unintegranly
unintegrated
unintegrative
unintellective
unintellectual
unintellectualism
unintellectuality
unintellectually
unintelligence
unintelligent
unintelligently
unintelligentsia
unintelligibility
unintelligible
unintelligibleness
unintelligibly
unintended
unintendedly
unintensified
unintensive
unintensively
unintent
unintentional
unintentionality
unintentionally
unintentionalness
unintentiveness
unintently
unintentness
unintercalated
unintercepted
unintercepting
uninterchangeable
uninterdicted
uninterested
uninterestedly
uninterestedness
uninteresting
uninterestingly
uninterestingness
uninterfered with
uninterjected
uninterlaced
uninterlarded
uninterleave
uninterleaved
uninterlined
uninterlinked
uninterlocked
unintermarrying
unintermediate
unintermediately
unintermediateness
unintermingled
unintermission
unintermissive
unintermitted
unintermittedly
unintermittedness
unintermittent
unintermittently
unintermitting
unintermittingly
unintermittingness
unintermixed
uninternalized
uninternational
uninterpleaded
uninterpolated
uninterpolative
uninterposed
uninterposing
uninterpretability
uninterpretable
uninterpretative
uninterpreted
uninterpretive
uninterpretively
uninterred
uninterrogable
uninterrogated
uninterrogative
uninterrogatively
uninterrogatory
uninterruptable
uninterrupted
unintroversive
unintroverted
unintruded
unintruding
unintrudingly
unintrusive
unintrusively
unintrusted
unintuitable
unintuitional
unintuitive
unintuitively
unintwined
uninuclear
uninucleate
uninucleated
uninundated
uninured
uninurned
uninvadable
uninvaded
uninvaginated
uninvalidated
uninvasive
uninvective
uninveighing
un inveigled
uninvented
uninventful
uninventibleness
uninventive
uninventively
uninventiveness
uninverted
uninvertible
uninvestable
uninvested
uninvestigable
uninvestigated
uninvestigating
uninvestigative
uninvestigatory
uninvindious
uninvindiously
uninvigorated
uninvigorating
uninvigorative
uninvigoratively
uninvincible
uninvincibleness
uninvincibly
uninvite
uninvited
uninvitedly
uninviting
uninvitingly
uninvitingness
uninvocative
uninvoiced
uninvokable
uninvoked
uninvoluted
uninvolved
uninvolvement
uninweaved
uninwoven
uninwrapped
uninwreathed
unio
uniocular
unioic
union
union's
unioned
unionic
unionid
unioniform
unionisation
unionise
unionised
unionises
unionising
unionism
unionisms
unionist
unionistic
unionists
unionization
unionize
unionized
unionizer
unionizers
unionizes
unionizing
unionoid
unions
unioval
uniovular
uniovulate
unipara
uniparental
uniparentally
uniparient
uniparous
unipart
unipartite
uniped
unipeltate
uniperiodic
unipersonal
unipersonalist
unipersonality
unipetalous
uniphase
uniphaser
uniphonous
uniplanar
uniplex
uniplicate
unipod
unipods
unipolar
unipolarity
uniporous
unipotence
unipotent
unipotential
uniprocessor
uniprocessorunix
unipulse
uniquantic
unique
uniquely
uniqueness
uniquer
uniques
unquest
uniquity
uniradial
uniradiate
uniradiated
uniradical
uniramose
uniramous
unirascibility
unirascible
unireme
unirenic
unirhyme
uniridescent
uniridescently
unironed
unironical
unironically
unirradiated
unirradiative
unirrigable
unirrigated
unirritable
unirritableness
unirritably
unirritant
unirritated
unirritatedly
unirritating
unirritative
unirrupted
unirruptive
unisepalous
uniseptate
uniserial
uniserially
uniseriate
uniseriately
uniserrate
uniserrulate
unisex
unisexed
unisexes
unisexual
unisexuality
unisexually
unisilicate
unism
unisoi
unisolable
unisolate
unisolated
unisolating
unisolationist
unisolative
unisomeric
unisometrical
unisomorphic
unison
unisonal
unisonally
unisonance
unisonant
unisonous
unisons
unisotropic
unisotropous
unisparker
unispiculate
unispinose
unispiral
unissuable
unissuant
unissued
unist
unistylist
unisulcate
unit
unit's
unitable
unitage
unitages
unital
unitalicized
unitarian
unitarianism
unitarians
unitarily
unitariness
unitarism
unitarist
unitary
unite
uniteability
uniteable
uniteably
united
unitedly
unitedness
unitemized
unitentacular
uniter
uniterated
uniterative
uniters
unites
unities
unitinerant
uniting
unitingly
unition
unitism
unitistic
unitive
unitively
unitiveness
unitization
unitize
unitized
unitizes
unitizing
unitooth
unitrivalent
unitrope
units
unituberculate
unitude
unity
unity's
uniunguiculate
uniungulate
unitius
univ
univalence
univalency
univalent
univalvate
univalve
univalve's
univalved
univalves
univalvular
univariant
univariate
univerbal
universal
universalia
universalis
universalisation
universalise
universalised
universaliser
uniwear
unix
unjacketed
unjaded
unjagged
unjailed
unjammed
unjamming
unjapanned
unjared
unjarring
unjaundiced
unjaunty
unjealous
unjealoused
unjealously
unjeered
unjeering
unjelled
unjellied
unjelleyed
unjellowed
unjellowelled
unjilted
unjocose
unjocosely
unjocoseness
unjocund
unjogged
unjogging
unjoing
unjoinable
unjoined
unjoint
unjointed
unjointedness
unjointing
unjointured
unjoking
unjokingly
unjolly
unjolted
unjostled
unjournalistic
unjournalized
unjovial
unjovially
unjoyed
unjoyful
unjoyfully
unjoyfulness
unjoyous
unjoyously
unjoyousness
unjubilant
unjubilantly
unjudgable
unjudge
unjudgeable
unjudged
unjudgelike
unjudging
unjudgable
unjudicative
unjudiciable
unjudicial
unjudicially
unjudicious
unjudiciously
unjudiciousness
unjuggled
unjucied
unjucily
unjucy
unjumbled
unjumpable
unjuridic
unjuridical
unjuridically
unjust
unjustice
unjusticiicable
unjustifiability
unjustifiable
unjustifiableness
unjustifiably
unjustification
unjustified
unjustifiedly
unjustifiedness
unjustify
unjustled
unjustly
unjustness
unjuvenile
unjuvenilely
unjuvenileness
unkaiserlike
unkamed
unked
unkeeled
unkembed
unkempt
unkemptly
unkemptness
unken
unkend
unkenned
unkennedness
unkennel
unkenneled
unkenneling
unkennelled
unkennelling
unkennels
unkenning
unkensome
unkent
unkept
unkerchiefed
unket
unkey
unkeyed
unkicked
unkid
unkidnaped
unkidnapped
unkill
unkillability
unkillable
unkilled
unkilling
unkilned
unkin
unkind
unkinder
unkindest
unkindhearted
unkindled
unkindledness
unkindlier
unkindliest
unkindlily
unkindliness
unkindling
unkindly
unkindness
unkindred
unkindreddly
unking
unkingdom
unkinged
unkinger
unkinglike
unkingly
unkink
unkinlike
unkirk
unkiss
unkissed
unkist
unknave
unkneaded
unkneeling
unknelled
unknew
unknight
unknighted
unknightedly
unknightliness
unknightly
unknit
unknits
unknittable
unknitted
unknitting
unknocked
unknocking
unknot
unknots
unknotted
unknotting
unknotty
unknow
unlading
unladled
unladled
unladyfied
unladylike
unlagging
unlaid
unlame
unlamed
unlamentable
unlamented
unlaminated
unlampooned
unlanced
unland
unlanded
unlandmarked
unlanguaged
unlanguid
unlanguidly
unlanguidness
unlanguishing
unlanterned
unlap
unlapped
unlapsed
unlapsing
unlarcenous
unlarcenously
unlarded
unlarge
unlash
unlashed
unlasher
unlashes
unlassing
unlassed
unlascoed
unlasting
unlash
unlatched
unlatches
unlatching
unlath
unlathed
unlathered
unlatinized
unlatticed
unludable
unludableness
unlaudably
unlaudative
unlaudatory
unlauded
unlaugh
unlaughing
unlaunched
unlaundered
unlaureled
unlaurelled
unlaved
unlaving
unlavish
unlavished
unlaw
unlawed
unlawful
unlawfully
unlawfulness
unlawlearned
unlawlike
unlawly
unlawyered
unlawyerlike
unlax
unlay
unlayable
unlaying
unlays
unleached
unlead
unleaded
unleaderly
unleading
unleads
unleaf
unleafed
unleaflike
unleagued
unleaguer
unleakable
unleaky
unlean
unlear
unlearred
unlearn
unlearnability
unlearnable
unlethal
unlethally
unlethargic
unlethargical
unlethargically
unlettable
unletted
unlettered
unletteredly
unletteredness
unlettering
unletterlike
unlevel
unleveled
unleveling
unlevelled
unlevelling
unlevelly
unlevelness
unlevels
unleviable
unlevied
unlevigated
unlexicographical
unlexicographically
unliability
unliable
unlibeled
unlibelled
unlibellous
unlibellously
unlibelous
unlibelously
unliberal
unliberalised
unliberalized
unliberally
unliberated
unlibidinous
unlibidinously
unlicensed
unlicentiated
unlicantious
unlicantiously
unlicantiousness
unlichen
unlickable
unlicked
unlid
unliddled
unlie
unlifelike
unliftable
unlifted
unlifting
unligable
unligatured
unlight
unlighted
unlightedly
unlightedness
unlightened
unlignified
unlikable
unlikableness
unlikably
unlike
unlikeable
unlikeableness
unlikeably
unliked
unlikelier
unlikely
unlikeliest
unlikelihood
unlikeliness
unlikely
unliken
unlikened
unlikeness
unliking
unlimb
unlimber
unlimbered
unlimbering
unlimberness
unlimbers
unlime
unlimed
unlimitable
unlimitableness
unlimitably
unlimited
unlimitedly
unlimitedness
unlimitless
unlimned
unlimp
unline
unlinear
unlined
unlingering
unlink
unlinked
unlinking
unlinks
unionised
unionized
unionlike
unliquefiable
unliquefied
unquescent
unliquid
unliquidatable
unliquidated
unliquidating
unliquidation
unliquored
unlisping
unlist
unlisted
unlistened
unlistening
unlisty
unlit
unliteral
unliteralised
unliteralized
unliterally
unliteralness
unliterary
unliterate
unlithographic
unlitigated
unlitigating
unlitigious
unlitigiously
unlitigiousness
unlitten
unlittered
unliturgical
unliturgize
unlivability
unlivable
unlivableness
unlockable
locked
unlocker
unlocking
unlocks
un locomotive
un lodge
un lodged
un lofty
un logged
un logic
un logical
un logically
un log icalness
un logistic
un log istical
un log istically
un log istical
un log o nal
un look
un looked
un loop
un looped
un losable
un losably
un loose
un loose d
un loosen
un losened
un loosen ing
un loosens
un loos es
un loos ing
un loot ed
un loot ed
un loquacious
un loqu aciously
un loquaciousness
un lord
unlord ed
un lord ly
un losable
un losable ness
un lost
un lotted
un loudly
un lou ken
un loung ing
un lousy
un love able
unlugubriously
unlugubriousness
unlumbering
unluminescent
unluminiferous
unluminous
unluminously
unluminousness
unlumped
unlumpy
unlunar
unlunate
unlunated
unlured
unlurking
unlush
unlust
unlustered
unlustful
unlustfully
unlustie
unlustier
unlustiest
unlustily
unlustiness
unlusting
unlustred
unlustrous
unlustrously
unlusty
unlute
unluted
unluxated
unluxuriant
unluxuriantly
unluxuriating
unluxurious
unluxuriously
unlycanthropize
unlying
unlyric
unlyrical
unlyrically
unlyricalness
unmacadamized
unmacerated
unmachinable
unmachinated
unmachinating
unmachineable
unmachined
unmackly
unmad
unmadded
unmaddened
unmade
unmagic
unmagical
unmagically
unmagisterial
unmagistrate
unmagistratelicke
unmagnanimous
unmagnanimously
unmagnanimousness
unmagnetic
unmagnetical
unmagnetised
unmagnetized
unmagnified
unmagnify
unmagnifying
unmaid
unmaidlen
unmaidlenlike
unmaidlenliness
unmaidlenly
unmail
unmailable
unmailableness
unmailed
unmaimable
unmaimed
unmaintainable
unmaintained
unmajestic
unmajestically
unmakable
unmake
unmaker
unmakers
unmakes
unmaking
unmalarial
unmaledictive
unmaledictory
unmalevolent
unmalevolently
unmalicious
unmaliciously
unmalignant
unmalignantly
unmaligned
unmalleability
unmalleable
unmalleableness
unmalled
unmalted
unmammalian
unmammonized
unman
unmanacle
unmanacled
unmanacling
unmanageability
unmanageable
unmanageableness
unmanageably
unmanaged
unmancipated
unmandated
unmandatory
unmanducated
unmaned
unmaneged
unmaneuverable
unmaneuvered
unmanful
unmanfully
unmanfulness
unmangled
unmanhood
unmaniable
un maniac
un maniacal
un maniacally
un manicured
un manifest
un manifestative
un manifested
un manipulable
un manipulatable
un manipulated
unmanipulative
unmanipulatory
unmanlier
unmanliest
unmanlike
unmanlily
unmanliness
unmanly
unmanned
unmanner
unmannered
unmanneredly
unmannerliness
unmannerly
unmanning
unmannah
unmannishly
unmannishness
unmanoeuvred
unmanored
unmans
unmantle
unmantled
unmanual
unmanually
unmanufacturable
unmanufactured
unmanumissible
unmanumitted
unmanuruble
unmanured
unmappable
unmapped
unmarbelize
unmarbelized
unmarbelizing
unmarbled
unmarbleize
unmarbleized
unmarbleizing
unmarch
unmarching
unmarginal
unmarginally
unmarginated
unmarine
unmaritime
unmarkable
unmarked
unmarketable
unmarketed
unmarking
unmarled
unmarred
unmarriable
unmarriageability
unmarriageable
unmarried
unmarring
unmarry
unmarrying
unmarshaled
unmarshalled
unmartial
unmartyr
unmartyred
unmarveling
unmarvellous
unmarvellously
unmarvellousness
unmarvelous
unmarvelously
unmarvelousness
unmasculine
unmasculinely
unmashed
unmask
unmasked
unmasker
unmaskers
unmasking
unmasks
unmasquerade
unmassacred
unmassed
unmast
unmaster
unmasterable
unmastered
unmasterful
unmasterfully
unmasticable
unmasticated
unmasticatory
unmatchable
unmatchableness
unmatchably
unmatched
unmatchedness
unmatching
unmate
unmated
unmaterial
unmaterialised
unmaterialistic
unmaterialistically
unmaterialized
unmaterially
unmateriate
unmaternal
unmaternally
unmathematical
unmathematically
unmating
unmatriculated
unmatrimonial
unmatrimonially
unmatronlike
 unmatted
unmaturative
unmature
unmatured
unmaturely
unmaturity
unmaudlin
unmaudlinly
unmauled
unmaze
unmeandering
unmeanderingly
unmeaning
unmeaningful
unmeaningfully
unmeaningfulness
unmeaningly
unmeaningness
unmeant
unmeasurability
unmeasurable
unmeasurableness
unmeasurably
unmeasured
unmeasuredly
unmeasuredness
unmeasurely
unmeated
unmechanic
unmechanical
unmechanically
unmechanised
unmechanistic
unmechanize
unmechanized
unmedaled
unmedalle
unmeddled
unmeddlesome
unmeddling
unmeddlingly
unmeddlingness
unmediaeval
unmediated
unmediating
unmediative
unmediatized
unmedicable
unmedical
unmedically
unmedicated
unmedicative
unmedcinable
unmedicinal
unmedicinally
unmedieval
unmeditated
unmeditating
unmeditative
unmeditatively
unmediumistic
unmedullated
unmeedful
unmeedy
unmeek
unmeekly
unmeekness
unmeet
unmeetable
unmeetly
unmeetness
unmelancholic
unmelancholically
unmelancholy
unmeliorated
unmellifluent
unmellifluently
unmellifluous
unmellifluously
unmellow
unmellowed
unmelodic
unmelodically
unmelodious
unmelodiously
unmelodiousness
unmelodised
unmelodized
unmelodramatic
unmelodramatically
unmelt
unmeltable
unmeltableness
unmeltably
unmelted
unmeltedness
unmelting
unmember
unmemoired
unmemorable
unmemorably
unmemorialised
unmemorialized
unmemoried
unmemorized
unmenaced
unmenacing
unmenable
unmendable
unmendableness
unmendably
unmendacious
unmendaciously
unmended
unmenial
unmenially
unmenseful
unmenstruating
unmensurable
unmental
unmentally
unmentholated
unmentionability
unmentionable
unmentionableness
unmentionables
unmentionably
unmentioned
unmercantile
unmercenarily
unmercenariness
unmercenary
unmercerized
unmerchantised
unmerchantable
unmerchantlike
unmercantilly
unmerciable
unmerciably
unmercied
unmerciful
unmercifully
unmercifulness
unmerciless
unmercurial
unmercurially
unmercurialness
unmeretricious
unmeretriciously
unmeretriciousness
unmerge
unmerged
unmerging
unmeridional
unmeridionally
unmeringued
unmeritability
unmeritable
unmerited
unmeritedly
unmeritedness
unmeriting
unmeritorious
unmeritoriously
unmeritoriousness
unmerrily
unmerry
unmesh
unmew
unmewed
unmewing
unmews
unniasmal
unniasmatic
unniasmatical
unniasmic
unniciaceous
unnmicrobial
unnmicrobic
unnmicroscopic
unnmicroscopically
unnmidwifed
unnight
unnightly
unnignant
unnrieving
unnmigrative
unnmigratory
unnild
unnildewed
unnildness
unninatant
unninantly
unninarily
unninarianess
unninarised
unninarticistic
unninartistically
unninartarized
unninitary
unninlked
unninilled
unninillinered
unninilled
unnmimeographed
unnmimegetic
unnmimeetically
unnminicked
unnminiable
unnminced
unnmincning
unnmind
unnminded
unnmindful
unnmindfully
unnmindfulness
unminding
unmined
unmineralised
unmineralized
unmingle
unmingleable
unmingleled
unmingleled
unmingling
unminimised
unminimising
unminimized
unminimizing
unminished
unminister
unministered
unministerial
unministerially
unministrant
unministrative
unminted
unminuted
unmiracled
unmiraculous
unmiraculously
unnired
unnired
unnirrored
unnirthful
unnirthfully
unnirthfulness
unmiry
unmisanthropic
unmisanthropical
unmisanthropically
unmiscarrying
unmischievous
unmischievously
unmiscible
unmisconceivable
unmiserly
unmisgiving
unmisgivingly
unmisguided
unmisguidedly
unmisinterpretable
unmisled
unmissable
unmissed
unmocked
unmocking
unmockingly
unmodel
unmodeled
unmodelled
unmoderate
unmoderated
unmoderately
unmoderateness
unmoderating
unmodern
unmoderned
unmodernity
unmodernize
unmodernized
unmodest
unmodestly
unmodestness
unmodifiability
unmodifiable
unmodifiableness
unmodifiably
unmodificative
unmodified
unmodifiedness
unmodish
unmodishly
unmodulated
unmodulative
unmoiled
unmoist
unmoisten
unmold
unmoldable
unmoldableness
unmolded
unmoldered
unmoldering
unmolding
unmolds
unmoldy
unmolest
unmolested
unmolestedly
unmolesting
unmolified
unmollifiable
unmorbidly
unmorbidness
unmordant
unmordanted
unmordantly
unmoribund
unmoribundly
unmorose
unmorosely
unmoribund
unmoribundly
unmorose
unmorosely
unmorphological
unmorphologically
unmorised
unmortal
unmortalize
unmortared
unmortgage
unmortgageable
unmortgaged
unmortgaging
unmortified
unmortifiedly
unmortifiedness
unmortise
unmortised
unmortising
unmossed
unmossy
unmothered
unmotherly
unmotile
unmotionable
unmotioned
unmotioning
unmotivated
unmotivatedly
unmotivatedness
unmotivating
unmotived
unmotored
unmotorised
unmotorized
unmottled
unmould
unmouldable
unmouldered
unmouldering
unmouldly
unmumbling
unmummied
unmummified
unmummify
unmummifying
unmunched
unmundane
unmundanely
unmundified
unmunicipalised
unmunicipalized
unmunificent
unmunificently
unmunitioned
unmurmured
unmurmuring
unmurmuringly
unmurmurous
unmurmurously
unmuscled
unmuscular
unmuscularly
unmusical
unmusicality
unmusically
unmusicalness
unmusicianly
unmusing
unmusked
unmussed
unmusterable
unmustered
unmutable
unmutant
unmutated
unmutation
unmutational
unmutative
unmuted
unmutilated
unmutilative
unmutinous
unmutinously
unmutinousness
unmuttered
unmuttering
unmutteringly
unameable
unameableness
unameably
unnamed
unnapped
unnapt
unnarcissistic
unnarcotic
unnarratable
unnarrated
unnarrative
unnarrow
unnarrowed
unnarrowly
unnasal
unnasally
unnascent
unnation
unnational
unnationalised
unnationalistic
unnationalistically
unnationalized
unnationally
unnative
unnatural
unnaturalise
unnaturalised
unnaturalising
unnaturalism
unnaturalist
unnaturalistic
unnaturality
unnaturalizable
unnaturalize
unnaturalized
unnaturalizing
unnaturally
unnaturality
unnature
unnauseated
unnauseating
unnautical
unnavigability
unnavigable
unnavigableness
unnavigably
unnavigated
unnealed
unneaped
unnear
unnearable
unneared
unnearly
unnearness
unneat
unneath
unneatly
unneatness
unnebulous
unnecessary
unnecessaries
unnecessarily
unnecessariness
unnecessary
unnecessitated
unnecessitating
unnecessitous
unnecessitously
unnecessitousness
unnecessity
unnectareous
unnectarial
unneeded
unneedful
unneedfully
unneedfulness
unneedy
unnefarious
unnefariously
unnefariousness
unnegated
unneglected
unneglectful
unneglectfully
unnegligent
unnegotiable
unnegotiableness
unnegotiably
unnegotiated
unnegro
unneighbored
unneighborlike
unneighborliness
unneighborly
unneighbourliness
unneighbourly
unnephritic
unnerv
unnerved
unnerves
unnerving
unnervingly
unnervous
unnervously
unnervousness
unness
unnest
unnestle
unnestled
unnet
unneth
unnethe
unnethes
unnethis
unnetted
unnettled
unnerted
unneutral
unneutralise
unneutralise
unneutralised
unneutralisation
unneutrality
unneutralize
unneutralized
unneutralizing
unneutralizing
unneutrally
unnew
unnearly
unneliness
unnewness
unnewshed
unnibbed
unnibbled
unnibbled
unnice
unnicely
unniceness
unniched
unnicked
unnickeled  unnikelled  unnickelated  unnickel  unnickelary  unnigh  unnihilistic  unnimbed  unnimble  unnimbleness  unnimbly  unnipped  unnitrogenised  unnitrogenized  unnitrogenous  unnobilitated  unnobility  unnoble  unnobleness  unnobly  unnocturnal  unnocturnally  unnodding  unnoddingly  unnoised  unnoisily  unnoisy  unnomad  unnomadical  unnomin  unnominal  unnominalistic  unnominally  unnominated  unnominative  unnonsensical  unnooked  unnoosed  unnormal  unnormalised  unnormalising  unnormalized  unnormalizing  unnormally  unnormality  unnormative  unnorthern  unnose  unnoised
unnotable
unnotational
unnotched
unnoted
unnoteworthy
unnoticeable
unnoticeableness
unnoticeably
unnoticed
unnoticing
unnotified
unnotify
unnoting
unnotional
unnotionally
unnotioned
unnourishable
unnourished
unnourishing
unnovel
unnovical
unnucleated
unnulified
unnumbed
unnumber
unnumberable
unnumberableness
unnumberably
unnumbered
unnumberedness
unnumerable
unnumerated
unnumerical
unnumerous
unnumerously
unnumerousness
unnurtured
unnutritious
unnutritiously
unnutritive
unnuzzled
unnymphal
unnymphean
unnymphlike
unoared
unobdurate
unobdurately
unobdurate
unobedience
unobedient
unobediently
unobese
unobesely
unobeseness
unobeyed
unobeying
unobfuscated
unobjected
unobjectified
unobjectionability
unobjectionable
unobjectionableness
unobjectionably
unobjectional
unobjective
unobjectively
unobjectivized
unobligated
unobligating
unobligative
unobligatory
unobliged
unobliging
unobligingly
unobligingness
unobliterable
unobliterated
unoblivious
unobliviously
unobliviousness
unobnoxious
unobnoxiously
unobnoxiousness
unobscene
unobscenely
unobsceneness
unobscure
unobscured
unobscurely
unobscureness
unobsequious
unobsequiously
unobsequiousness
unobservable
unobservance
unoccurring
unoeceanic
unocular
unode
unodious
unodiously
unodiousness
unodored
unodoriferous
unodoriferously
unodoriferousness
unodorous
unodorously
unodorousness
unoecumenic
unoecumenical
unoffendable
unoffended
unoffendedly
unoffender
unoffending
unoffendingly
unoffensive
unoffensively
unoffensiveness
unoffered
unofficed
unofficered
unofficerlike
unofficial
unofficialdom
unofficially
unofficialness
unofficiated
unofficiating
unoffical
unofficious
unofficiously
unofficiousness
unoffset
unoften
ungled
unoil
unoiled
unoiling
unoily
unold
unomened
unoppressive
unoppressively
unoppressiveness
unopprobrious
unopprobriously
unopprobriousness
unoppugned
unopressible
unopted
unoptimistic
unoptimistical
unoptimistically
unoptimized
unoptional
unoptionally
unopulence
unopulent
unopulentely
unoral
unorally
unorational
unoratorial
unoratorical
unoratorically
unorbed
unorbital
unorbitally
unorchestrated
unordain
unordainable
unordained
unorder
unorderable
unordered
unorderly
unordinal
unordinarily
unordinariness
unordinary
unordinate
unordinately
unordinateness
unordnanced
unorganed
unorganic
unorganical
unorganically
unorganicalness
unorganisable
unorganised
unorganizable
unorganized
unorganizedly
unorganizedness
unoriental
unorientally
unorientalness
unoriented
unoriginal
unoriginality
unoriginally
unoriginalness
unoriginate
unoriginated
unoriginatedness
unoriginately
unoriginateness
unorigination
unoriginative
unoriginatively
unoriginativeness
unorn
unornamental
unornamentally
unornamentalness
unornamentation
unornamented
unornate
unornately
unornateness
unornithological
unornly
unorphaned
unorthodox
unorthodoxically
unorthodoxly
unorthodoxness
unorthodoxy
unorthographical
unorthographically
unosscillating
unosculated
unosmotic
unossified
unossifying
unostensible
unostensibly
unostensive
unostensively
unostentation
unostentatious
unostentatiously
unostentatiousness
unousted
unoutgrown
unoutlawed
unoutraged
unoutspeakable
unoutright
unoutworn
unoverclouded
unovercomable
unovercome
unoverdone
unoverdrawn
unoverflowing
unoverhauled
unoverleaped
unoverlooked
unoverpaid
unoverpowered
unoverruled
unover
unoverriven
unoverthrown
unovervalued
unoverwhelmed
unowed
unowing
unown
unowned
unoxidable
unoxidated
unoxidative
unoxidisable
unoxidised
unoxidizable
unoxidized
unoxygenated
unoxygenized
unp
unpacable
unpaced
unpacifiable
unpacific
unpacified
unpacifiedly
unpacifiedness
unpacifist
unpacifistic
unpack
unpackaged
unpacked
unpacker
unpackers
unpacking
unpacks
unpadded
unpadlocked
unpagan
unpaganize
unpaganized
unpaganizing
unpaged
unpaginal
unpaginated
unpaid
unpained
unpainful
unpainfully
unpaining
unpaintstaking
unpaint
unpaintability
unpaintable
unpaintableness
unpaintably
unpainted
unpaintedly
unpaintedness
unpaired
unpaid
unpalatability
unpalatable
unpalatableness
unpalatably
unpalatal
unpalatalized
unpalatally
unpalatalial
unpale
unpaled
unparalyzed
unparametrized
unparaphrased
unparasitic
unparasitical
unparasitically
unparcel
unparcelled
unparceling
unparcelling
unparch
unparched
unparching
unpardon
unpardonability
unpardonable
unpardonableness
unpardonably
unpardononed
unpardononedness
unpardononing
unpared
unparegal
unparental
unparentally
unparented
unparenthesised
unparenthesized
unparenthetic
unparenthetical
unparenthetically
unparfit
untargeted
unpark
unparked
unparking
unparliamentary
unparliamented
unparochial
unparochialism
unparochially
unparodied
unparolable
unparoled
unparrel
unparriable
unparried
unparroted
unparrying
unparsed
unparser
unparsimonious
unparsimoniously
unparsonic
unparsonical
unpartable
unpartableness
unpartably
unpartaken
unpartaking
unparted
unpartial
unpartiality
unpartially
unpartialness
unpartible
unparticipant
unparticipated
unparticipating
unparticipative
unparticular
unparticularised
unparticularising
unparticularized
unparticularizing
unparticularness
unpartisan
unpartitioned
unpartitive
unpartizan
unpartnered
unpartook
unparty
unpass
unpassable
unpassableness
unpassably
unpassed
unpassing
unpassionate
unpassionately
unpassionateness
unpassioned
unpassive
unpassively
unpausingly
unpave
unpaved
unpavilioned
unpaving
unpawed
unpawn
unpawned
unpay
unpayable
unpayableness
unpayably
unpaying
unpayment
unpeace
unpeaceable
unpeaceableness
unpeaceably
unpeaceful
unpeacefully
unpeacefulness
unpeaked
unpealed
unpearled
unpebbled
unpeccable
unpecked
unpeculating
unpeculiar
unpeculiarly
unpecuniarily
unpedagogic
unpedagogical
unpedagogically
unpedantic
unpedantical
unpeddled
unpedestal
unpedestaled
unpedestaling
unpedigreed
unpeel
unpeelable
unpeelableness
unpeeled
unpeeling
unpeerable
unpeered
unpeevish
unpeevishly
unpeevishness
unpeg
unpegged
unpegging
unpegs
unpejorative
unpejoratively
unpelagic
unpelted
unpen
unpenal
unpenalised
unpenalized
unpenally
unpenanced
unpenciled
unpencilled
unpendant
unpendent
unpending
unpendulous
unpendulously
unpendulousness
unpenetrable
unpenetrably
unpenetrant
unpenetrated
unpenetrating
unpenetratingly
unpenetrative
unpenetratively
unpenent
unpenitential
unpenitentially
unpenitently
unpenitentness
unpenned
unpenned
unpenning
unpennoned
unpens
unpensionable
unpensionableness
unpensioned
unpensioning
unpent
unpenurious
unpenuriously
unpenuriousness
unpeople
unpeopled
unpeoples
unpeopling
unpeppered
unpeppery
unperceivability
unperceivable
unperceivably
unperceived
unperceivedly
unperceiving
unperceptible
unperceptibleness
unperceptibly
unperceptional
unperceptive
unperceptively
unperceptiveness
unperceptual
unperceptually
unperch
unperched
unperceived
unpercolated
unpercussed
unpercussive
unperdurable
unperdurably
unperemptorily
unperemptoriness
unperemptory
unperfect
unperfected
unperfectedly
unperfectedness
unperfectible
unperfection
unperfective
unperfectively
unperfectiveness
unperfectly
unperfectness
unperfidious
unperfidiously
unperfidiousness
unperflated
unperforable
unperforate
unperforated
unperforating
unperforative
unperformability
unperformable
unperformance
unperformed
unperforming
unperfumed
unperilous
unperilously
unperiodic
unperiodical
unperiodically
unperipheral
unperipherally
unperiphrased
unperiphrastic
unperiphrastically
unperishable
unperishableness
unperishably
unperished
unperishing
unperjured
unperjuring
unpermanency
unpermanent
unpermanently
unpermeable
unpermeant
unpermeated
unpermeating
unpermeative
unpermissible
unpermissibly
unpermissive
unpermit
unpermits
unpermitted
unpermitting
unpermixed
unpernicious
unperniciously
unperpendicular
unperpendicularly
unperpetrated
unperpetuable
unperpetuated
unperpetuating
unperplex
unperplexed
unperplexing
unpersecuted
unpersecuting
unpersecutive
unperseverance
unpersevering
unperseveringly
unperseveringness
unpersisting
unperson
unpersonable
unpersonableness
unpersonal
unpersonalised
unpersonalising
unpersonality
unpersonalized
unpersonalizing
unpersonally
unpersonified
unpersonify
unpersonifying
unpersons
unperspicuous
unperspicuously
unperspicuousness
unperspirable
unperspired
unperspiring
unpersuadability
unpersuadable
unpersuadableness
unpersuadably
unpersuade
unpersuaded
unpersuadedness
unpersuasibility
unpersuasible
unpersuasibleness
unpersuasion
unpersuasive
unpersuasively
unpersuasiveness
unpertaining
unpertinent
unpertinently
unperturbable
unperturbably
unperturbed
unperturbedly
unperturbedness
unperturbing
unperuked
unperusable
unperused
unpervaded
unpervading
unpervasive
unpervasively
unpervasiveness
unperversion
unperversely
unperversive
unpervert
unperverted
unpervertedly
unpervious
unpervasively
unperviousness
unpessimistic
unpessimistically
unpestered
unpesterous
unpestilent
unpestilential
unpestilently
unpetal
unpetaled
unpetalled
unpetitioned
unpetrified
unpetrify
unpetrifying
unpetted
unpetticoated
unpetulant
unpetulantly
unpharasaic
unpharasaical
unphased
unphenomenal
unphenomenally
unphilanthropic
unphilanthropically
unphilologic
unphilological
unphilosophic
unphilosophical
unphilosophically
unphilosophicalness
unphilosophize
unphilosophized
unphilosophy
unphlegmatic
unphlegmatical
unphlegmatically
unphonetic
unphoneticness
unphonnetical
unphonetically
unphonographed
unphosphatised
unphosphatized
unphotographable
unphotographed
unphotographic
unphrasable
unphrasableness
unphrased
unphrenological
unphysical
unphysically
unphysicianlike
unphysicked
unphysiological
unphysiologically
unpicaresque
unpick
unpickable
unpicked
unpicketed
unpicking
unpickled
unpicks
unpictorial
unpictorialise
unpictorialised
unpictorialising
unpictorialize
unpictorialized
unpictorializing
unpictorially
unpicturability
unpicturable
unpictured
unpicturesque
unpicturesquely
unpicturesqueness
unpiece
unpieceed
unpierceable
unpierced
unpiercing
uniety
unpigmented
unpile
unpiled
unpiles
unpilfered
unpilgrimlike
unpiling
unpillaged
unpillared
unpilled
unpilloried
unpillowed
unpiloted
unpimpled
unpin
unpinched
unpinning
unpinion
unpinioned
unpinned
unpinning
unpins
unpioneering
unpious
unpiously
unpiped
unpiqueed
unpirated
unpiratical
unpiratically
unpitched
unpited
unpiteous
unpiteously
unpiteousness
unpitiable
unpitably
unpitied
unpitiedly
unpitiedness
unpitiful
unpitifully
unpitifulness
unpitted
unpity
unpitying
unpityingly
unpityingness
unplacable
unplacably
unplacated
unplacatory
unplace
unplaced
unplacement
unplacid
unplacidly
unplacidness
unplagiarised
unplagiarized
unplagiated
unplaguated
unplaid
unplain
unplained
unplainly
unplainness
unplait
unplaite
unplaiting
unplaits
unplan
unplaned
unplanished
unplank
unplanked
unplanned
unplannedly
unplenished
unplenteous
unplenteously
unplentiful
unplentifully
unplentifulness
unpliability
unpliable
unpliableness
unpliably
unpliancy
unpliant
unpliantly
unpliantness
unplied
unplight
unplighted
unplodding
unplotted
unplotting
unplough
unploughed
unplow
unplowed
unplucked
unplug
unplugged
unplugging
unplugs
unplumb
unplumbed
unplume
unplumed
unplummeted
unplump
unplundered
unplunderous
unplunderously
unplunge
unplunged
unpluralised
unpluralistic
unpluralized
unplutocratic
unplutocratical
unplutocratically
unpneumatic
unpneumatically
unpoached
unpocket
unpocketed
unpopped
unpoetic
unpoetical
unpoetically
unpoeticalness
unpoeticised
unpoeticized
unpoetize
unpoetized
unpoignant
unpoignantly
unpoignard
unpointed
unpointing
unpoise
unpoison
unpoisonable
unpoisoned
unpoisonous
unpoisonously
unpolarised
unpolarizable
unpolarized
unpoled
unpolemic
unpolemical
unpolemically
unpoliced
unpolicied
unpolish
unpolishable
unpolished
unpolishedness
unpolite
unpolitely
unpoliteness
unpolitic
unpolitical
unpolitically
unpolitically
unpollarded
unpollared
unpollened
unpollable
unpolluted
unpollutedly
unpolluting
unpolymerised
unpolymerized
unpompous
unpompously
unpompousness
unponderable
unpondered
unponderous
unponderously
unponderousness
unpontifical
unpontifically
unpooled
unpope
unpopular
unpopularised
unpopularity
unpopularize
unpopularized
unpopularly
unpopularness
unpopulate
unpopulated
unpopulous
unpopulously
unpopulousness
unporcelainized
unporness
unpornographic
unporous
unporousness
unportable
unportended
unportentous
unportentously
unportentousness
unporticoed
unportionable
unportioned
unportly
unportmanteaued
unportraited
unportrayable
unportrayed
unfortunate
unportuous
unposed
unposing
unpositive
unpositively
unpositiveness
unpositivistic
unpossess
unpossessable
unpossessed
unpossessedness
unpossessing
unpossessive
unpossessively
unpossessiveness
unpossibility
unpossible
unpossibleness
unpossibly
unposted
unpostered
unposthumous
unpostmarked
unpostponable
unpostponed
unpostulated
unpot
unpotable
unpotent
unpotently
unpotted
unpotting
unpouched
unpoulticed
unpounced
unpounded
unpourable
unpoured
unpouting
unpoutingly
unpowdered
unpower
unpowerful
unpowerfulness
unpracticability
unpracticable
unpracticableness
unpractically
unpractical
unpracticality
unpractically
unpracticalness
unpractice
unpracticed
unpracticedness
unpractised
unpragmatic
unpragmatical
unpragmatically
unpraisable
unpraise
unpraised
unpraiseful
unpraiseworthy
unpraising
unpranked
unprating
unpray
unprayable
unprayed
unprayerful
unprayerfully
unprayerfulness
unpraying
unpreach
unpreached
unpreaching
unpreaching
unprecarious
unprecariously
unprecariousness
unprecautioned
unprecedes
unprecedesed
unprecedesedly
unprecedesedness
unprecedential
unpreceededly
unpreceptive
unpreceptively
unprecious
unpreciously
unpreciousness
unprecipiced
unprecipitant
unprecipitantly
unprecipitate
unprecipitated
unprecipitately
unprecipitateness
unprecipitative
unprecipitatively
unprecipitous
unprecipitously
unprecipitousness
unprecise
unprecisely
unpreciseness
unprecisive
unprecludable
unprecluded
unprecludible
unpreclusive
unpreclusively
unprecocious
unprecociously
unprecociousness
unpredaceous
unpredaceously
unpredaceousness
unpredacious
unpredaciously
unpredaciousness
unpredatory
unpredestinated
unpredestined
unpredetermined
unpredictable
unpredicableness
unpredicably
unpredicated
unpredicative
unpredicatively
unpredict
unpredictability
unpredictabilness
unpredictable
unpredictableness
unpredictably
unpredicted
unpredictedness
unpredicting
unpredictive
unpredictively
unpredisposed
unpredisposing
unpreempted
unpreened
unprefaced
unpreferable
unpreferableness
unpreferably
unpreferred
unprefigured
unprefined
unprefixal
unprefixally
unprefixed
unpregnable
unpregnant
unprehensive
unprejudged
unprejudicated
unprejudice
unprejudiced
unprejudicedly
unprejudicedness
unprejudicable
unprejudicial
unprejudicially
unprejudicialness
unrelatic
unrelatical
unreluded
unpremature
unprematurely
unprematureness
unpremeditate
unpremeditated
unpremeditatedly
unpremeditatedness
unpremeditately
unpremeditation
unpremonished
unpremonstrated
unprenominated
unpreniced
unpreoccupied
unpreordained
unpreparation
unprepare
unprepared
unpreparedly
unpreparedness
unpreparing
unpreponderated
unpreponderating
unprepossessed
unprepossessedly
unprepossessing
unprepossessingly
unprepossessingness
unpreposterous
unpreposterously
unpreposterousness
unpresaged
unpresageful
unpresaging
unpresbyterated
unprescient
unpresciently
unprescinded
unprescribed
unpresentability
unpresentable
unpresentableness
unpresentably
unpresentative
unpresented
unpreservable
unpreserved
unpresidential
unpresidentially
unpresiding
unpressed
unpresses
unpressured
unprest
unpresumable
unpresumably
unpresumed
unpresuming
unpresumingness
unpresumptive
unpresumptively
unpresumptuous
unpresumptuously
unpresumptuousness
unpresupposed
unpretended
unpretending
unpretendingly
unpretendingness
unpretentious
unpretentiously
unpretentiousness
unpretermitted
unpreternatural
unpreternaturally
unprettified
unpretty
unprettiness
unpretty
unprevaling
unprevalence
unprevalent
unprevalently
unprevaricating
unpreventability
unpreventable
unpreventableness
unpreventably
unpreventative
unprevented
unpreventible
unpreventive
unpreventively
unpreventiveness
unpreviewed
unpreying
unpriceably
unpriced
unpricked
unprickled
unprickly
unprideful
unpridefully
unpriest
unpriestlike
unpriestly
unpriggish
unprim
unprime
unprimed
unprimitive
unprimitively
unprimitiveness
unprimitivistic
unprimly
unprimmed
unprimness
unprince
unprincelike
unprinceliness
unprincely
unprincess
unprincipal
unprinciple
unprincipled
unprincipledly
unprincipledness
unprint
unprintable
unprintableness
unprintably
unprinted
unpriority
unprismatic
unprismatical
unprismatically
unprison
unprisonable
unprisoned
unprivate
unprivately
unprivateness
unprivileged
unprizable
unprized
unprobable
unprobably
unprobed
unprobational
unprobationary
unprobative
unprobed
unprobity
unproblematic
unproblematical
unproblematically
unprocessed
unprocessional
unproclaimed
unprocrastinated
unprocreant
unprocreate
unprocreated
unproctored
unprocurable
unprocurableness
unprocure
unprocured
unprodded
unproded
unprodigious
unprodigiously
unprodigiousness
unproduceable
unproduceableness
unproduceably
unproduced
unproducedness
unproducible
unproducibleness
unproducibly
unproductive
unproductively
unproductiveness
unproductivity
unprofanable
unprofane
unprofaned
unprofanely
unprofaneness
unprofessed
unprofessing
unprofessional
unprofessionalism
unprofessionally
unprofessionalness
unprofessorial
unprofessorially
unproffered
unproficiency
unproficient
unproficiently
unprofit
unprofitability
unprofitable
unprofitableness
unprofitably
unprofited
unprofiteering
unprofiting
unprofound
unpronounced
unpronouncing
unproofread
unprop
unpropagable
unpropagandistic
unpropagated
unpropagative
unpropelled
unpropellent
unpropense
unproper
unproperly
unproperness
unpropertied
unprophesiable
unprophesied
unprophetic
unprophetical
unprophetically
unprophetlike
unpropice
unpropitiable
unpropitiated
unpropitiatedness
unpropitiating
unpropitiative
unpropitiatory
unpropitious
unpropitiously
unpropitiousness
unproportion
unproportionable
unproportionableness
unproportionably
unproportional
unproportionality
unproportionally
unproportionate
unproportionately
unproportionateness
unproportioned
unproportionedly
unproportionedness
unproposable
unproposed
unproposing
unpropounded

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 9610
unpropped
unpropriety
unprorogued
unprosaic
unprosaical
unprosaically
unprosaicness
unproscribable
unproscribed
unproscriptive
unproscriptively
unprosecutable
unprosecuted
unprosecuting
unproselyte
unproselyted
unprosodic
unprospected
unprospective
unprosperably
unprospered
unprospering
unprosperity
unprosperous
unprosperously
unprosperousness
unprostitute
unprostituted
unprostrated
unprotect
unprotectable
unprotected
unprotectedly
unprotectedness
unprotecting
unprotection
unprotective
unprotectively
unprotestant
unprotestantize
unprotested
unprotesting
unprotestingly
unprotracted
unprotractive
unprotruded
unprotrudent
unprotruding
unprotrusible
unprotrusive
unprotrusively
unprotuberant
unprotuberantly
unproud
unproudly
unprovability
unprovable
unprovableness
unprovably
unproved
unprovedness
unproven
unproverbial
unproverbially
unprovidable
unprovide
unprovided
unprovidedly
unprovidedness
unprovidedenced
unprovident
unprovidential
unprovidentially
unprovidently
unproviding
unprovincial
unprovincialism
unprovincially
unproving
unprovised
unprovisedly
unprovision
unprovisional
unprovisioned
unprovocative
unprovocatively
unprovocativeness
unprovokable
unprovoker
unprovoked
unprovokedly
unprovokedness
unprovoking
unprovokingly
unprowling
unproximity
unprudence
unprudent
unprudential
unprudentially
unprudently
unprunable
unpruned
unprying
unpsychic
unpsychically
unpsychological
unpsychologically
unpsychopathic
unpsychotic
unpublic
unpublicity
unpublicized
unpublicly
unpublishable
unpublishableness
unpublishably
unpublished
unpucker
unpuckered
unpuckering
unpuckers
unpuddled
unpuff
unpuffed
unpuffing
unpugilistic
unpugnacious
unpugnaciously
unpugnaciousness
unpulled
unpulleyed
unpulped
unpulsating
unpulsative
unpulverable
unpulverised
unpulverize
unpulverized
unpulvinate
unpulvinated
unpumicatated
unpummeled
unpummelled
unpumpable
unpumped
unpunched
unpunctate
unpunctated
unpunctilious
unpunctiliously
unpunctiliousness
unpunctual
unpunctuality
unpunctually
unpunctualness
unpunctuated
unpunctuating
unpunctured
unpunishable
unpunishably
unpunished
unpunishedly
unpunishedness
unpunishing
unpunishingly
un punitive
unpurchasable
unpurchased
unpure
unpured
unpurely
unpureness
unpurgative
unpurgatively
unpurgeable
unpurged
unpurifiable
unpurified
unpurifying
unpuristic
unpuritan
unpuritanic
unpuritanical
unpuritanically
unpurled
unpurloined
unpurpled
unpurported
unpurposed
unpurposelike
unpurposely
unpurposing
unpurposive
unpurse
unpursed
unpursuable
unpursuant
unpursued
unpursuing
unpurveyed
unpushed
unput
unputative
unputatively
unputrefiable
unputrefied
unputrid
unputridity
unputridly
unputridness
unputtied
unpuzzle
unpuzzled
unpuzzles
unpuzzling
unquadded
unquaffed
unquailed
unquailing
unquailingly
unquakerlike
unquakerly
unquaking
unqualifiable
unqualification
unqualified
unqualifiedly
unqualifiedness
unqualify
unqualifying
unqualifyingly
unqualifiedly
unqualitied
unquality
unquantified
unquantitative
unquarantined
unquarreled
unquarreling
unquarrelled
unquarrelling
unquarrelsome
unquarried
unquartered
unquashed
unquavering
unquayed
unqueen
unqueened
unqueenng
unqueening
unqueenlike
unqueenly
unquellable
unquelled
unqueme
unquemely
unquenchable
unquenchableness
unquenchably
unquenched
unquered
unquert
unquerulous
unquerulously
unquerulousness
unquested
unquestionability
unquestionable
unquestionableness
unquestionably
unquestionate
unquestioned
unquestionedly
unquestionedness
unquestioning
unquestioningly
unquestioningness
unquibbled
unquibbling
unquick
unquickened
unquickly
unquickness
unquicksilvered
unquiescence
unquiescent
unquiescently
unquiet
unquietable
unquieted
unquieter
unquietest
unquietering
unquietly
unquietness
unquietous
unquiets
unquietude
unquilleted
unquilted
unquit
unquittable
unquitted
unquivered
unquivering
unquixotic
unquixotical
unquixotically
unquizzable
unquizzed
unquizzical
unquizzically
unquod
unquotable
unquote
unquoted
unquotes
unquoting
unrabbeted
unrabbinic
unrabbinical
unraced
unrack
unracked
unracking
unradiant
unradiated
unradiative
unradical
unradicalize
unradically
unradioactive
unraffled
unraftered
unraided
unrailed
unrailroaded
unrailwayed
unrainy
unraisable
unraiseable
unraised
unrake
unraked
unraking
unrallied
unrallying
unram
unrambling
unramified
unrammed
unramped
unranching
unrancid
unrancored
unrancorous
unrancoured
unrancourous
unrandom
unranging
unrank
unranked
unrankled
unransacked
unransomable
unransomed
unranting
unrapacious
unrapaciously
unrapaciousness
unraped
unraptured
unrupturous
unrupturously
unrupturousness
unrare
unrarefied
unrash
unrashly
unrashness
unrasped
unrasping
unraspy
unratable
unrated
unratified
unrationable
unrational
unrationalised
unrationalising
unrationalized
unrationalizing
unrationally
unrationed
unrattled
unravaged
unravel
unravelable
unraveled
unraveler
unraveling
unravellable
unravelled
unraveller
unravelling
unravelment
unravels
unraving
unravished
unravishing
unray
unrayed
unrazed
unrazored
unreachable
unreachableness
unreachably
unreached
unreactionary
unreactive
unread
unreadability
unreadable
unreadableness
unreadably
unreadier
unreadiest
unreadily
unreadiness
unreadly
unreal
unrealise
unrealised
unrealising
unrealism
unrealist
unrealistic
unrealistically
unrealities
unreality
unrealizability
unrealizable
unrealize
unrealized
unrealizing
unreally
unrealmed
unrealness
unreaped
unreared
unreason
unreasonability
unreasonable
unreasonableness
unreasonably
unreasoned
unreasoning
unreasoningly
unreasoningness
unreasons
unreassuring
unreassuringly
unreave
unreaving
unrebated
unrebelt
unrebellious
unrebelliously
unrebelliousness
unrebuffable
unrebuffably
unrebuffed
unrebuilt
unrebukable
unrebukably
unrebukeable
unrebuked
unrebutable
unrebuttable
unrebuttaleness
unrebuttered
unrecalcitrant
unrecallable
unrecallably
unrecalled
unrecalling
unrecantable
unrecanted
unrecanting
unrecaptured
unreceding
unreceipted
unreceivable
unreceived
unreceiving
unrecent
unreceptant
unreceptive
unreceptively
unreceptiveness
unreceptivity
unrecessive
unrecessively
unrecipient
unreciprocal
unreciprocally
unreciprocated
unreciprocating
unrecitative
unrecited
unrecked
unrecking
unreckingness
unreckless
unreckon
unreckonable
unreckoned
unreclaimable
unreclaimably
unreclaimed
unreclaimedness
unreclaiming
unreclined
unreclining
unrecluse
unreclusive
unrecoded
unrecognisable
unrecognisably
unrectified
unrecumbent
unrecumbently
unrecuperated
unrecuperatiness
unrecuperative
unrecuperativeness
unrecuperatory
unrecurring
unrecurrent
unrecurrently
unrecurring
unrecusant
unred
unredacted
unredeemable
unredeemableness
unredeemably
unredeemed
unredeemedly
unredeemedness
unredeeming
unredemptive
unredressable
unredressed
unreduceable
unreduced
unreducible
unreducibleness
unreducibly
unreduct
unreefed
unreel
unreelable
unreeled
unreeler
unreelers
unreeling
unreels
unreeve
unreeved
unreeses
unreeving
unreferenced
unreferred
unrefilled
unrefine
unrefined
unrefinedly
unrefinedness
unrefinement
unrefining
unrefitted
unreflected
unreflecting
unreflectingly
unreflectingness
unreflective
unreflectively
unreformable
unreformative
unreformed
unreformedness
unreforming
unrefracted
unrefracting
unrefractive
unrefractively
unrefractiveness
unrefractory
unrefrangible
unrefreshed
unrefreshful
unrefreshing
unrefreshingly
unrefrigerated
unrefulgent
unrefulgently
unrefundable
unrefundable
unrefunding
unrefusably
unrefused
unrefusing
unrefusingly
unrefutability
unrefutable
unrefutably
unrefuted
unrefuting
unregainable
unregained
unregal
unregaled
unregality
unregally
unregard
unregardable
unregardant
unregarded
unregardedly
unregardful
unregenerable
unregeneracy
unregenerate
unregenerated
unregenerately
unregenerateness
unregenerating
unregeneration
unregenerative
unregimental
unregimentally
unregimented
unregistered
unregistrable
unregressive
unregressively
unregressiveness
unregretful
unregretfully
unregretfulness
unregistrable
unregrettably
unregretted
unregretting
unregulable
unregular
unregularised
unregularized
unregulated
unregulative
unregulatory
unregurgitated
unrehabilitated
unrehearsable
unrehearsed
unrehearsing
unreigning
unreimbodied
unrein
unreined
unreinforced
unreinstated
unreiterable
unreiterated
unreiterating
unreiterative
unrejectable
unrejected
unrejective
unrejoiced
unrejoicing
unrejuvenated
unrejuvenating
unrelapsing
unrelatable
unrelated
unrelatedness
unrelating
unrelational
unrelative
unrelatively
unrelativistic
unrelaxable
unrelaxed
unrelaxing
unrelaxingly
unrelayed
unreleasable
unreleased
unreleasible
unreleasing
unrelegable
unrelegated
unreleventable
unreleventance
unrelented
unrelenting
unrelentingly
unrelentingness
unrelentless
unrelentor
unrelevant
unrelevantly
unreliability
unreliable
unreliableness
unremittency
unremitent
unremitently
unremitting
unremittingly
unremittingness
unremonstrant
unremonstrated
unremonstrating
unremonstrative
unremorseful
unremorsefully
unremorsefulness
unremote
unremotely
unremoteness
unremounted
unremovable
unremovableness
unremovably
unremoved
unremunerated
unremunerating
unremunerative
unremuneratively
unremunerativeness
unrenderable
unrendered
unrenewable
unrenewed
unrenounceable
unrenounced
unrenouncing
unrenovated
unrenovative
unrenowned
unrenownedly
unrenownedness
unrent
unrentable
unrented
unrenunciable
unrenunciative
unrenunciatory
unreorganised
unreorganized
unrepaid
unrepair
unrepairable
unrepaired
unrepairs
unreportable
unreported
unrepayable
unrepealability
unrepealable
unrepealableness
unrepealably
unrepealed
unrepeateable
unrepeated
unrepellable
unrepelled
unrepellent
unrepellently
unrepent
unrepentable
unrepentance
unrepentant
unrepentantly
unrepentantness
unrepented
unrepenting
unrepentingly
unrepentingness
unrepetitious
unrepetitiously
unrepetitiousness
unrepetitive
unrepetitively
unrepined
unrepining
unrepiningly
unrepiqued
unreplaceable
unreplaced
unrepleness
unreplenished
unreplete
unrepleteness
unreplevable
unreplevinable
unreplevined
unreplevisable
unrepliable
unrepliably
unreplied
unreplying
unreportable
unreported
unreportedly
unreportedness
unreportorial
unrepose
unreposed
unreposeful
unreposefully
unreposefulness
unreposing
unrepossessed
unreprehended
unreprehensible
unreprehensibleness
unreprehensibly
unrepreseed
unrepresentable
unrepresentation
unrepresentational
unrepresentative
unrepresentatively
unrepresentativeness
unrepresented
unrepresentedness
unrepressed
unrepressible
unrepression
unrepressive
unrepressively
unrepressiveness
unretrievable
unretrievably
unretrieved
unreprimanded
unreprimanding
unreprinted
unreproachable
unreproachableness
unreproachably
unreproached
unreproachful
unreproachfully
unreproachfulness
unreproaching
unreproachingly
unrescissable
unrescissory
unrescuable
unrescued
unresearched
unresemblance
unresemblant
unresembling
unresented
unresentful
unresentfully
unresentfulness
unresenting
unreserve
unreserved
unreservedly
unreservedness
unresident
unresidential
unresidual
unresifted
unresigned
unresignedly
unresilient
unresiliently
unresinous
unresistable
unresistably
unresistance
unresistant
unresistantly
unresisted
unresistedly
unresistedness
unresistible
unresistibleness
unresistibly
unresisting
unresistingly
unresistingness
unresistive
unresolute
unresolutely
unresoluteness
unresolvable
unresolve
unresolved
unresolvedly
unresolvedness
unresolving
unresonant
unresonantly
unresonating
unresounded
unresounding
unresourceful
unresourcefully
unresourcefulness
unrespect
unrespectability
unrespectable
unrespectably
unrespected
unrespectful
unrespectfully
unrespectfulness
unrespective
unrespectively
unrespectiveness
unrespirable
unrespired
unrespite
unresplendent
unresplendently
unresponding
unresponsal
unresponsible
unresponsibleness
unresponsibly
unresponsive
unresponsively
unresponsiveness
unrest
unrestable
unrested
unrestful
unrestfully
unrestfulness
unresting
unrestingly
unrestingness
unrestitutive
unrestorable
unrestorableness
unrestorative
unrestored
unretrenchable
unretrenched
unretributive
unretributory
unretrievable
unretrieved
unretrievingly
unretroactive
unretroactively
unretrograded
unretrograding
unretrogressive
unretrogressively
unretted
unreturnable
unreturnableness
unreturnably
unreturned
unreturning
unreturningly
unrevealable
unrevealed
unrevealedness
unrevealing
unrevealingly
unrevelational
unrevelationize
unreveling
unrevelling
unrevenged
unrevengeful
unrevengefully
unrevengefulness
unrevengeing
unrevengeingly
unrevenue
unrevenued
unreverberant
unreverberated
unreverberating
unreverberative
unrevered
unreverence
unreverenced
unreverend
unreverendly
unreverent
unreverential
unreverentially
unreverently
unreverentness
unreversible
unreversed
unreversing
unreversedness
unreversibly
unreverted
unrevertible
unreverting
unrevested
unrevetted
unrevetted
unrevivable
unrevived
unrevocable
unrevocableness
unrevocably
unrevokable
unrevoked
unrevolting
unrevolutionary
unrevolutionized
unrevolved
unrevolving
unrewardable
unrewarded
unrewardedly
unrewarding
unrewardingly
unreworded
unrhapsodic
unrhapsodical
unrhapsodically
unrhetorical
unrhetorically
unrhetoricalness
unrheumatic
unrhyme
unrhymed
unrhyming
unrhythmic
unrhythmical
unrhythmically
unribbed
unribboned
unrich
unriched
unricht
unricked
unrid
unridable
unridableness
unridably
unridden
unriddle
unriddleable
unriddled
unriddler
unriddles
unriddling
unride
unridely
unridered
unridged
unridiculed
unridiculous
unridiculously
unridiculousness
unrife
unrifled
unrified
unrifted
unrig
unrigged
unrigging
unright
unrightable
unrighted
unrighteous
unrighteously
unrighteousness
unrightful
unrightfully
unrightfulness
unrightly
unrightwise
unrigid
unrigidly
unrigidness
unrigorous
unrigorously
unrigorousness
unrigs
unrimed
unrimpled
unrind
unring
unringable
unringed
unringing
unrinsed
unriotied
unriotig
unriotous
unriotously
unriotousness
unrip
unripe
unripped
unriply
unripened
unripeness
unripening
unriper
unripest
unrippable
unripped
unripping
unrippled
unripping
unrippingly
unrippingly
unrips
unrisen
unrisible
unrising
unriskable
unrisked
unrisky
unritual
unritualistic
unritually
unrivalable
unrivaled
unrivaedly
unrivaledness
unrivaling
unrivalled
unroot
unrooted
unrooting
unroots
unrope
unroped
unroset
unrosined
unrostrated
unrotary
unrotated
unrotating
unrotational
unrotative
unrotatory
unroted
unrotted
unrotten
unrotund
unrouged
unrough
unroughened
unround
unrounded
unrounding
unrounds
unrousable
unroused
unrousing
unrout
unroutable
unrouted
unroutine
unroutinely
unrove
unroved
unroven
unroving
unrow
unrowdy
unrowed
unroweled
unrowelled
unroyal
unroyalist
unroyalized
unroyally
unroyalness
unrrove
unrubbed
unrubbish
unrubified
unrubrical
unrubrically
unrubricated
unruddered
unruddled
unrude
unrudely
unrued
unrueful
unruefully
unruefulness
unrufe
unruffable
unruffed
unruffle
unruffled
unruffledness
unruffling
unrugged
unruinable
unruinated
unruined
unruinous
unruinously
unruinousness
unrulable
unrulableness
unrule
unruled
unruedly
unruledness
unruleful
unrulier
unruliest
unrulily
unruliment
unruliness
unruly
unruminant
unruminated
unruminating
unruminatingly
unruminative
unrummaged
unrumored
unrumoured
unrumped
unrumpled
unrun
unrung
unrupturable
unruptured
unrural
unrurally
unrushed
unrushing
unrust
unrusted
unrustic
unrustically
unrusticated
unrustling
unruth
uns
unsabbatical
unsabered
unsabled
unsabotaged
unsabred
unsaccharic
unsaccharine
unsacerdotal
unsacerdotally
unsack
unsacked
unsacrament
unsacramental
unsacramentally
unsacramentarian
unsacred
unsacrely
unsacredness
unsacrificeable
unsacrificably
unsacrificed
unsacrificial
unsacrifically
unsacrificing
unsacrilegious
unsacrilegiously
unsacrilegiousness
unsad
unsadden
unsaddened
unsaddle
unsaddled
unsaddles
unsaddling
unsadistic
unsadistically
unsadly
unsadness
unsafe
unsafeguarded
unsafely
unsafeness
safer
unsafest
unsafetied
unsafeties
unsafety
unsagacious
unsagaciously
unsagaciousness
unsage
unsagely
unsageness
unsagging
unsaid
unsailable
unsailed
unsailorlike
unsaint
unsainted
unsaintlike
unsaintliness
unsaintly
unsaked
unsalability
unsalable
unsalableness
unsalably
unsalacious
unsalaciously
unsalaciousness
unsalaried
unsaleable
unsaleably
unsalesmanlike
unsalient
unsaliently
unsaline
unsalivated
unsalivating
unsallow
unsallowness
unsallying
unsalmonlike
unsalness
unsalt
unsaltal
unsaltatorial
unsaltary
unsalted
unsalty
unsalubrious
unsalubriously
unsalubriousness
unsalutariness
unsalutary
unsalutatory
unsaluted
unsaluting
unsalvability
unsalvable
unsalvableness
unsalvably
unsalvageability
unsalvageable
unsalvageably
unsalved
unsalved
unsame
unsameness
unsampled
unsanctification
unsanctified
unsanctifiedly
unsanctifiedness
unsanctify
unsanctifying
unsanctimonious
unsanctimoniously
unsanctimoniousness
unsanction
unsanctionable
unsanctioned
unsanctioning
unsanctitude
unsanctity
unsanctuaried
unsandaled
unsandalled
unsanded
unsane
unsanenness
unsanquinarily
unsanquinariness
unsanguinary
unsanguine
unsanguinely
unsanguineness
unsanguineous
unsanguineously
unsanitariness
unsanitary
unsanitated
unsanitation
unsanitized
unsanity
unsapient
unsapiential
unsapientially
unsapiently
unsaponifiable
unsaponified
unsapped
unsappy
unsarcastic
unsarcastical
unsarcastically
unsardonic
unsardonically
unsartorial
unsartorially
unsash
unsashed
unsatable
unsatanic
unsatanical
unsataneously
unsatcheled
unsated
unsatedly
unsatedness
unsatiability
unschooledly
unschooledness
unscience
unscienced
unscientific
unscientifically
unscientificness
unscintillant
unscintillating
unscioned
unscissored
unscoffed
unscotching
unscolded
unscolding
unscconced
unscopped
unscorched
unscorcing
unscored
unscorified
unscorning
unscorned
unscornful
unscornfully
unscornfulness
unscotch
unscotched
unscottify
unscoured
unscourged
unscouring
unscouring
unscowling
unscowlingly
unscramble
unscrambled
unscrambler
unscrambles
unscrambling
unscraped
unscraping
unscratchable
unscratched
unscratching
unscratching
unscrawled
unscrawling
unscreen
unscreenable
unscreenably
unscreened
unscrew
unscrewable
unscrewed
unscrewing
unscrews
unscribal
unscribbled
unscribed
uns crimped
uns criped
unscrepted
unscriptural
unscripturally
unscripturalness
unscrubbed
unscrupled
unscrupulousness
unsculptural
unscrupulous
unscrupulously
unscrupulousness
unscrutable
unscrutinised
unscrutinising
unscrutinisingly
unscrutinized
unscrutinizing
unscrutinizingly
unsculptural
unsculptured
unscummed
unscutcheoned
unseafaring
unseal
unsealable
unsealed
unsealer
unsealing
unseals
unseam
unseamanlike
unseamanship
unseamed
unseaming
unseams
unsearchable
unsearchableness
unsearchably
unsearched
unsearcherlike
unsearching
unsearchingly
unseared
unseason
unseasonable
unseasonableness
unseasonably
unseasoned
unseat
unseated
unseating
unseats
unseaworthiness
unseaworthy
unseceded
unseceding
unsealed
unsealedly
unsealing
unseclusive
unseclusively
unseclusiveness
unseconded
unsecrecy
unsecret
unsecretarial
unsecretarylike
unsecreted
unsecreting
unsecretive
unsecratively
unsecretiveness
unsecretly
unsecruteness
unsectarian
unsectarianism
unsectarianize
unsectarianized
unsectarianizing
unsectional
unsectionalised
unsectionalized
unsectionally
unseccioned
unsecular
unsecularised
unsecularize
unsecularized
unsecularly
unsecurable
unsecurableness
unsecure
unsecured
unsecuredly
unsecuredness
unsecurely
unsecureness
unsecurity
unsedate
unsedately
unsedateness
unsedative
unsedentary
unsedimental
unsedimentally
unseditious
unseditiously
unseditiousness
unseduce
unseduceability
unseduceable
unseduced
unseducible
unseducibleness
unseducibly
unseductive
unseductively
unseductiveness
unsedulous
unsedulously
unsedulousness
unsee
unseeable
unseeableness
unseeded
unseeding
unseeing
unseeingly
unseeingness
unseeking
unseel
unseeliness
unseely
unseeming
unseemingly
unseemlier
unseemliest
unseemlily
unseemliness
unseemly
unseen
unseethed
unseething
unsegmental
unsegmentally
unsegmentary
unsegmented
unsegregable
unsegregated
unsegregatedness
unsegregating
unsegregational
unsegregative
unseignioral
unseigniorial
unseismal
unseismic
unseizable
unseize
unseized
unseldom
unselect
unselected
unselecting
unselective
unselectiveness
unself
unselfassured
unselfconfident
unselfconscious
unselfconsciously
unselfconsciousness
unselfish
unselfishly
unselfishness
unselflike
unselfness
unselfreliant
unselfliness
unsell
unselling
unselth
unsely
unseminared
unsenatorial
unsenescent
unsenile
unsensate
unsensational
unsensationally
unsense
unsensed
unsensibility
unsensible
unsensibleness
unsensibly
unsensing
unsensitise
unsensitised
unsensitising
unsensitive
unsensitively
unsensitiveness
unsensitize
unsensitized
unsensitizing
unsensory
unsensual
unsensualised
unsensualistic
unsensualize
unsensualized
unsensually
unsensuous
unsensuously
unsensuousness
unsent
unsentenced
unsententious
unsententiously
unsententiousness
unsentient
unsentiently
unsentimental
unsentimentalised
unsentimentalist
unsentimentality
unsentimentalize
unsentimentalized
unsentimentally
unsenteneled
unsentinelled
unseparable
unseparableness
unseparably
unseparate
unseparated
unseparately
unseparateness
unseparating
unseparative
unseptate
unseptated
unsepulcher
unsepulchered
unsepulchral
unsepulchrally
unsepulchre
unsepulchred
unsepulchring
unsepultured
unsequenced
unsequent
unsequential
unsequentially
unsequestered
unseraphic
unseraphical
unseraphically
unsere
unserenaded
unserene
unserenely
unsereneness
unserflike
unserialised
unserialized
unserious
unseriously
unseriousness
unserrate
unserrated
unserried
unservable
unserved
unservice
unserviceability
unserviceable
unserviceableness
unserviceably
unserviced
unservicelike
unservile
unservilely
unserving
unsesquipedalian
unset
unsets
unsetting
unsettle
unsettleable
unsettled
unsettledness
unsettlement
unsettles
unsettling
unsettlingly
unseven
unseverable
unseverableness
unsevere
unsevered
unseveredly
unseveredness
unseverely
unsevereness
unsew
unsewed
unsewered
unsewing
unsewn
unsews
unsex
unsexed
unsexes
unsexing
unsexlike
unsexual
unsexually
unshabbily
unshabby
unshackle
unshackled
unshackles
unshackling
unshade
unshaded
unshadily
unshadiness
unshading
unshadow
unshadowable
unshadowed
unshady
unshafted
unshakable
unshakableness
unshakably
unshakeable
unshakeably
unshaked
unshaken
unshakenly
unshakenness
unshakiness
unshaking
unshakingness
unshaky
unshale
unshaled
unshamable
unshamableness
unshamably
unshameable
unshameableness
unshameably
unshamed
unshamefaced
unshamefacedness
unshameful
unshamefully
unshamefulness
unshammed
unshanked
unshapable
unshape
unshapeable
unshaped
unshapedness
unshapeliness
unshapely
unshapen
unshapenly
unshapenness
unshaping
unsharable
unshareable
unshared
unsharedness
unsharing
unsharp
unsharped
unsharpen
unsharpened
unsharpening
unsharping
unsharply
unsharpness
unshatterable
unshattered
unshavable
unshave
unshaveable
unshaved
unshavedly
unshavedness
unshaven
unshavenly
unshavenness
unshawl
unsheaf
unsheared
unsheathe
unsheathed
unsheathes
unsheathing
unshed
unshedding
unsheer
unsheerness
unsheet
unsheeted
unsheeting
unshell
unshelled
unshelling
unshells
unshelterable
unsheltered
unsheltering
unshelve
unshelved
unshent
unshepherded
unshepherding
unsheriff
unshewed
unshieldable
unshielded
unshielding
unshift
unshiftable
unshifted
unshiftiness
unshifting
unshifts
unshifty
unshimmering
unshimmeringly
unshined
unshingled
unshining
unshiny
unship
unshiplike
unshipment
unshippable
unshipped
unshipping
unships
unshipshape
unshipwrecked
unshirked
unshirking
unshirred
unshirted
unshivered
unshivering
unshness
unshockability
unshockable
unshocked
unshocking
unshod
unshodden
unshoe
unshoed
unshoeing
unshook
unshop
unshore
unshored
unshorn
unshort
unshorten
unshortened
unshot
unshotted
unshoulder
unshout
unshouted
unshouting
unshoved
unshoveled
unshovelled
unshowable
unshowed
unshowered
unshowing
unshowingly
unshowiness
unshowmanlike
unshown
unshowy
unshredded
unshrew
unshrewd
unshrewdly
unshrewedness
unshrewish
unshrill
unshrine
unshrined
unshrinement
unshrink
unshrinkability
unshrinkable
unshrinking
unshrinkingly
unshrinkingness
unshrived
unshriveled
unshrivelled
unshriven
unshroud
unshrouded
unshrubbed
unshrugging
unshrunken
unshuddering
unshuffle
unshuffled
unshunnable
unshunned
unshunning
unshunted
unshut
unshutter
unshuttered
unshy
unshyly
unshyness
unsibilant
unsiccated
unsiccative
unsick
unsickened
unsicker
unsickered
unsickerly
unsickerness
unsickled
unsickly
unsided
unsidereal
unsiding
unsidling
unsiege
unsieged
unsieved
unsifted
unsighting
unsight
unsightable
unsighted
unsightedly
unsighting
unsightless
unsighttier
unsightliest
unsightliness
unsightly
unsights
unsigmatic
unsignable
unsignaled
unsignalised
unsignalized
unsignalled
unsignatured
unsigned
unsigneted
unsignifiable
unsignificancy
unsignificant
unsignificantly
unsignificative
unsignified
unsignifying
unsilenceable
unsilenceably
unsilenced
unsilent
unsilentious
unsilently
unsilhouetted
unsilicated
unsilicified
unsilly
unsilvered
unsimilar
unsimilarity
unsimilarly
unsimmered
unsimmering
unsimpering
unsimple
unsimpleness
unsimplicity
unsimplified
unsimplify
unsimplifying
unsimply
unsimular
unsimulated
unsimulating
unsimulative
unsimultaneous
unsimultaneously
unsimultaneousness
unsin
unsincere
unsincerely
unsincereness
unsincerity
unsinew
unsinewed
unsinewing
unsinewy
unsinful
unsinfully
unsinfulness
unsing
unsingability
unsingable
unsingableness
unsinged
unsingle
unsingled
unsingleness
unsingular
unsingularly
unsingularity
unsingularness
unsinister
unsinisterly
unsinisterness
unsinkability
unsinkable
unsinking
unsinnable
unsinning
unsinningness
unsinuated
unsinuately
unsinuous
unsinusously
unsinousness
unsiphon
unsipped
unsister
unsistered
unsisterliness
unsisterly
unsisting
unsitting
unsittingly
unsituated
unslate
unslated
unslating
unslatted
unslaughtered
unslave
unslayable
unseaved
unsleek
unsleepably
unsleeping
unsleepingly
unslepy
unsleeve
unsleeved
unsleender
unslept
unsliced
unslicked
unsliding
unslighted
unslim
unslimly
unslimmed
unslimness
unsling
unslinging
unslings
unslinking
unslip
unslipped
unslippered
unslippery
unslipping
unslit
unlocked
unslough
unsloped
unsloping
unslopped
unslot
unslotful
unslotfully
unslotfulness
unslotted
unslouched
unslouching
unslouchy
unsloughed
unsloughing
unslo
unslogged
unslovely
unsloveness
unsluggish
unsluggishly
unsluggishness
unsluice
unsluiced
unslumbering
unslumberous
unslumbery
unslumbrous
unslumped
unslumping
unslug
unslurred
unsly
unslyly
unslyness
unsmacked
unsmart
unsmarting
unsmartly
unsmartness
unsmashed
unsmear
unsmelled
unsmelling
unsmelted
unsmiled
unsmiling
unsmilingly
unsmilingness
unsmirched
unsmirking
unsmirkingly
unsmitten
unsmocked
unsmokable
unsmokeable
unsmoked
unsmokified
unsmokily
unsmokiness
unsmoking
unsnouted
unsnow
unsnubbable
unsnubbed
unsnuffed
unsnug
unsnugly
unsnugness
unsoaked
unsoaped
unsoarable
unsoaring
unsober
unsobered
unsobering
unsoberly
unsoberness
unsobriety
unsociability
unsocial
unsocialised
unsocialising
unsocialism
unsocialistic
unsociality
unsocializable
unsocialized
unsocializing
unsocially
unsocialness
unsociological
unsociologically
unsocket
unsocketed
unsodden
unsoft
unsoftened
unsoftening
unsoftly
unsoftness
unsoggy
unsoil
unsoiled
unsoiledness
unsoiling
unsolaced
unsolacing
unsolar
unsold
unsolder
unsoldered
unsoldering
unsolders
unsoldier
unsoldiered
unsoldierlike
unsoldierly
unsoldiery
unsole
unsoled
unsolemn
unsolemness
unsolemnified
unsolemnised
unsolemnize
unsolemnized
unsolemnly
unsolemnness
unsolicitated
unsolicited
unsolicitedly
unsolicitous
unsolicitously
unsolicitousness
unsolicitude
unsolid
unsolidarity
unsolidifiable
unsolidified
unsolidity
unsolidly
unsolidness
unsoling
unsolitary
unsolubility
unsoluble
unsolubleness
unsolubly
unsolvable
unsolvableness
unsolvably
unsolve
unsolved
unsomatic
unsomber
unsomberly
unsomberness
unsombre
unsombrily
unsombriness
unsome
unsomnolent
unsomnolently
unson
unsonable
unsonant
unsonantal
unsoncy
unsonlike
unsonneted
unsonorous
unsonorously
unsonorousness
unsonie
unsonsy
unsoot
unsoothable
unsoothed
unsoothfast
unsoothing
unsoothingly
unsooty
unsophistic
unsophistical
unsophistically
unsophisticate
unsophisticated
unsophisticatedly
unsophisticatedness
unsophistication
unsophomoric
unsophomorical
unsophomorically
unsoporiferous
unsoporiferously
unsoporiferousness
unsoporific
unsordid
unsordidly
unsordidness
unsore
unsorely
unsoreness
unsorriness
unsorrowed
unsorrowful
unsorrowing
unsorry
unsort
unsortable
unsorted
unsorting
unsotted
unsought
unsoul
unsoulful
unsoulfully
unsoulfulness
unsoulish
unsound
unsoundable
unsoundableness
unsounded
unsounder
unsoundest
unsounding
unsoundly
unsoundness
unsour
unsoured
unsourly
unsourness
unsoused
unsovereign
unsowed
unsown
unspaced
unspacious
unspaciously
unspaciousness
unspaded
unspan
unspangled
unspanked
unspanned
unspanning
unspar
unsparable
unspared
unsparing
unsparingly
unsparingness
unsparked
unsparkling
unspared
unsparse
unsparsely
unsparseness
unspasmed
unspasmodic
unspasmodical
unspasmodically
unspatial
unspatiality
unspatially
unspattered
unspawned
unspayed
unspeak
unspeakability
unspeakable
unspeakableness
unspeakably
unspeaking
unspeaks
unspeared
unspecialised
unspecialising
unspecialized
unspecializing
unspecifiable
unspecific
unspecifically
unspecified
unspecifically
unspecked
unspeckled
unspectacled
unspectacular
unspectacularly
unspecterlike
unspectrelike
unspeculating
unspiritedly
unspiriting
unspiritual
unspiritualised
unspiritualising
unspirituality
unspiritualize
unspiritualized
unspiritualizing
unspiritually
unspiritualness
unspirituous
unspissated
unspit
unspited
unspiteful
unspitefully
unspitted
unsplashed
unsplattered
unsplayed
unspleened
unspleenish
unspleenishly
unsplendid
unsplendidly
unsplendidness
unsplendorous
unsplendorously
unsplendourous
unsplendourously
unsplenetic
unsplenetically
unspliced
unsplinted
unsplintered
unsplitted
unsplittable
unspoil
unspoilable
unspoilableness
unspoilably
unspoiled
unspoiledness
unspoilt
unspoke
unspoken
unspokenly
unsponged
unspongy
unsponsored
unspontaneous
unspontaneously
unspontaneousness
unspookish
unspored
unsportful
unsporting
unsportive
unsportively
unsportiveness
unsportsmanlike
unsportsmanlikeness
unsportsmanliness
unsportsmanly
unspot
unspotlighted
unspottable
unspotted
unspottedly
unspottedness
unspotten
unspoused
unspouselike
unspouted
unsprained
unsprayed
unsprayedly
unspraying
unsprinkled
unsprinklered
unsprouted
unsproutful
unsprouting
unspruced
unsprung
unspun
unspurious
un spuriously
unspuriously
unspurned
unspurred
unspurting
unspying
unspalming
unsquandered
unsquarable
unsquare
unsquared
unsquashable
unsquashed
unsqueamish
unsqueamishly
unsqueamishness
unsqueezable
unsqueezed
unsquelched
unsquinting
unsquire
unsquired
unsquirelike
unsquirting
unsquirted
unstabbed
unstabilised
unstabilising
unstability
unstabilized
unstabilizing
unstable
unstabled
unstableness
unstabler
unstablest
unestablished
unstably
unstack
unstacked
unstacker
unstacking
unstacks
unstaffed
unstaged
unstaggered
unstaggering
unstagily
unstaginess
unstagnant
unstagnantly
unstagnating
unstagy
unstaid
unstaidly
unstaidness
unstain
unstainable
unstainableness
unstained
unstainedly
unstainedness
unstaled
unstalemated
unstalked
unstalled
unstammering
unstammeringly
unstamped
unstampeded
unstanch
unstanchable
unstanched
unstandard
unstandardisable
unstandardised
unstandardizable
unstandardized
unstanding
unstanzaic
unstapled
unstar
unstarch
unstarched
unstarlike
unstarred
unstarted
unstarting
unstartled
unstartling
unstarved
unstatable
unstate
unstateable
unstated
unstately
unstates
unsteeled
unsteeling
unsteels
unsteep
unsteeped
unsteeped
unsteeped
unsteered
unstemmable
unstemmed
unstentorian
unstentoriously
unstep
unstepped
unstepping
unsteps
unstercorated
unstereotyped
unsterile
unsterilized
unstern
unsternly
unsternness
unstethoscoped
unstewardlike
unstewed
unstick
unsticked
unsticking
unstickingness
unsticks
unsticky
unstiff
unstiffen
unstiffened
unstiffly
unstiffness
unstifled
unstifling
unstigmatic
unstigmatised
unstigmatized
unstill
unstilled
unstillness
unstilted
unstimulable
unstimulated
unstimulating
unstimulatingly
unstimulative
unsting
unstinged
unstinging
unstingingly
unstinted
unstintedly
unstinting
unstintingly
unstippled
unstipulated
unstirrable
unstirred
unstirring
unstitch
unstitched
unstitching
unstock
unstocked
unstocking
unstockinged
unstoic
unstoical
unstoically
unstoicize
unstoked
unstoken
unstolen
unstonable
unstone
unstoneable
unstoned
unstonily
unstoniness
unstony
unstooped
unstooping
unstop
unstoppable
unstoppably
unstopped
unstopper
unstoppered
unstopping
unstopple
unstops
unstorable
unstore
unstored
unstoried
unstormable
unstormed
unstormily
unstorminess
unstormy
unstout
unstoutly
unstoutness
unstoved
unstow
unstowed
unstraddled
unstrafed
unstraight
unstraightened
unstraightforward
unstraightforwardness
unstraightness
unstrain
unstrained
unstraitened
unstrand
unstranded
unstrange
unstrangely
unstrangeness
unstrangled
unstrangulable
unstrap
unstrapped
unstrapping
unstraps
unstrategic
unstrategical
unstrategically
unstratified
unstraying
unstreaked
unstreamed
unstreaming
unstreamlined
unstreng
unstrength
unstrengthen
unsubjectable
unsubjected
unsubjectedness
unsubjection
unsubjective
unsubjectively
unsubjectlike
unsubjugate
unsubjugated
unsublimable
unsublimated
unsublimed
unsubmerged
unsubmergible
unsubmerging
unsubmersible
unsubmission
unsubmissive
unsubmissively
unsubmissiveness
unsubmitted
unsubmitting
unsubordinate
unsubordinated
unsubordinative
unsuborned
unsubpoenaed
unsubrogated
unsubscribed
unsubscribing
unscripted
unsubservient
unsubserviently
unsubsided
unsubsidiary
unsubsiding
unsubsidized
unsubstanced
unsubstantial
unsubstantiality
unsubstantialization
unsubstantialize
unsubstantially
unsubstantialness
unsubstantiatable
unsubstantiate
unsubstantiated
unsubstantiation
unsubstantive
unsubstituted
unsubstitutive
unsubtle
unsubtleness
unsubtlety
unsubtly
unsubtracted
unsubtractive
unsuburban
unsuburbed
unsubventioned
unsubventionized
unsubversive
unsubversively
unsubversiveness
unsubvertible
unsubverted
unsubvertive
unsucceedable
unsucceeded
unsucceeding
unsucceed
unsucceeded
unsucceeding
unsuccess
unsucceeded
unsucceeding
unsucceed
unsucceeded
unsucceeding
unsuccinct
unsuccinctly
unsuccorable
unsuccored
unsucculent
unsucculently
unsuccumbing
unsuck
unsuckled
unsued
unsufferable
unsufferableness
unsufferably
unsuffered
unsuffering
unsufficed
unsufficed
unsufficiency
unsufficiency
unsufficient
unsufficiently  
unsufficing  
unsufficingness  
unsuffixed  
unsulfated  
unsuffocate  
unsuffocated  
unsuffocative  
unsuffused  
unsuffusive  
unsugared  
unsugary  
unsuggested  
unsuggestedness  
unsuggestibility  
unsuggestible  
unsuggesting  
unsuggestive  
unsuggestively  
unsuggestiveness  
unsuicidal  
unsuicidally  
unsuit  
unsuitability  
unsuitable  
unsuitableness  
unsuitably  
unsuited  
unsuitedness  
unsuiting  
unsulfonated  
unsulfureness  
unsulfureous  
unsulfureousness  
unsulfurized  
unsulkily  
unsulkiness  
unsulky  
unsullen  
unsullenly  
unsulliable  
unsullied  
unsulliedly  
unsulliedness  
unsulphonated  
unsulphureness  
unsulphureous  
unsulphureousness
unsulphurized
unsultry
unsummable
unsummable
unsummarisable
unsummarised
unsummarizable
unsummarized
unsummed
unsummered
unsummerlike
unsummerly
unsummonable
unsummoned
unsumptuary
unsumptuous
unsumptuously
unsumptuousness
unsun
unsunburned
unsunburnt
unsundered
unsung
unsunk
unsunken
unsunned
unsunny
unsuperable
unsuperannuated
unsupercilious
unsuperciliously
unsuperciliousness
unsuperficial
unsuperficially
unsuperfluous
unsuperfluously
unsuperfluousness
unsuperior
unsuperiorly
unsuperlative
unsuperlatively
unsuperlativeness
unsupernatural
unsupernaturalize
unsupernaturalized
unsupernaturally
unsupernaturalness
unsuperscribed
unsuperseded
unsurety
unsurfaced
unsurfeited
unsurfeiting
unsurgical
unsurgically
unsurging
unsurily
unsurliness
unsurly
unsurmised
unsurmising
unsurmountable
unsurmountableness
unsurmountably
unsurmounted
unsurnamed
unsurpassable
unsurpassableness
unsurpassably
unsurpassed
unsurpassedly
unsurpassedness
unsurplice
unsurprised
unsurprisedness
unsurprising
unsurprisingly
unsurrealistic
unsurrealistically
unsurrendered
unsurrendering
unsurrounded
unsurveyable
unsurveyed
unsurvived
unsurviving
unsusceptibility
unsusceptible
unsusceptibleness
unsusceptibly
unsusceptive
unsuspect
unsuspectable
unsuspectably
unsuspected
unsuspectedly
unsuspectedness
unsuspectful
unsuspectfully
unsuspectfulness
unsusceptible
unsuspecting
unsuspectingly
unsuspectingness
unsuspective
unsuspended
unsuspendible
unsuspicion
unsuspicious
unsuspiciously
unsuspiciousness
unsustainability
unsustainable
unsustainably
unsustained
unsustaining
unsutured
unswabbed
unswaddle
unswaddled
unswaddling
unswaggering
unswaggeringly
unswallowable
unswallowed
unswampy
unswanlike
unswapped
unswarming
unswathable
unswathe
unswatheable
unswathed
unswathes
unswathing
unswayable
unswayableness
unswayed
unswayedness
unswaying
unswear
unswearing
unswears
unsweat
unsweated
unsweating
unsweepable
unsweet
unsweeten
unsweetened
unsweetenedness
unsweetly
unsweetness
unswell
unswelled
unswelling
unsweltered
unsweltering
unswept
unswervable
unswerved
unswerving
unswervingly
unswervingness
unswilled
unswing
unswingled
unswitched
unswivel
unswiveled
unswveling
unswollen
unswooning
unswore
unsworn
unswung
unsyllabic
unsyllabicated
unsyllabified
unsyllabled
unsyllogistic
unsyllogistical
unsyllogistically
unsymbolic
unsymbolical
unsymbolically
unsymbolicalness
unsymbolised
unsymbolized
unsymmetric
unsymmetrical
unsymmetrically
unsymmetricalness
unsymmetrized
unsymmetry
unsympathetic
unsympathetically
unsympatheticness
unsympathised
unsympathising
unsympathisingly
unsympathizing
unsympathizingly
unsympathy
unsymphonious
unsymphoniously
unsymptomatic
unsymptomatical
unsymptomatically
unsynchronised
unsynchronized
unsynchronous
unsynchronously
unsynchronousness
unsyncopated
unsyndicated
unsynonymous
unsynonymously
unsyntactic
unsyntactical
unsyntactically
unsynthesised
unsynthesized
unsynthetic
unsynthetically
unsyntheticness
unsyringed
unsystematic
unsystematical
unsystematically
unsystematicness
unsystematised
unsystematising
unsystematized
unsystematizedly
unsystematizing
unallowed
untaloned
untamable
untamableness
untamably
untame
untameable
untamed
untamedly
untamedness
untamely
untameness
untampered
untangental
untangentally
untangential
untangentially
untangibility
untangible
untangle
untangled
untangles
untangling
untanned
untantalised
untantalising
untantalized
untantalizing
untap
untaped
untapered
untapering
untapestried
untappable
untapped
untappice
untar
untarnishable
untarnished
untarnishedness
untarnishing
untarred
untarried
untarrying
untartarized
untasked
untechnicalize
untechnically
untedded
unteidious
unteediously
unteem
unteening
unteethed
untelegraphed
untelevised
untelic
untell
untellable
untellably
untelling
untemper
untemperable
untemperamental
untemperamentally
untemperance
untemperate
untemperately
untemperateness
untempered
untempering
untempested
untempestuous
untempestuously
untempestuousness
untempled
untemporal
untemporally
untemporary
untemporizing
untemptability
untemptable
untemptably
untempted
untemptible
untemptibly
untempting
untemptingly
untemptingness
untenability
untenable
untenableness
untenably
untenacious
untenaciously
untenaciousness
untenacity
untenant
untenantable
untenantableness
untenantable
untended
untender
untendered
untenderized
untenderly
untenderness
unteheous
untenible
untenibleness
untenibly
untense
untensely
unteneseness
untensibility
untenible
untenibly
untensile
untensing
untent
untentacled
untentaculate
untented
untentered
untenty
untenuous
untenuously
untenuousness
untermecessary
unterminable
unterminableness
unterminably
unterminated
unterminating
unterminational
unterminative
unterraced
unterrred
unterrestrial
unterrestrial
unterrible
unterribly
unterrifiable
unterrific
unterrifically
unterrified
unterrifying
unterrorized
unterse
untersely
unterseness
untessellated
untestable
untestamental
untestamentary
untestate
untested
untestifying
untether
untethered
untethering
untethers
untewed
untextual
untextually
untextural
unthank
unthanked
unthankful
unthankfully
unthankfulness
unthanking
unthatch
unthatched
unthaw
unthawed
unthawing
untheatric
untheatrical
untheatrically
untheistic
untheistical
untheistically
unthematic
unthematically
unthende
untheologic
untheological
untheologically
untheologize
untheoretic
untheoretical
untheoretically
untheorizable
untherapeutic
untherapeutical
untherapeutically
unthewed
unthick
unthicken
unthicken
unthickly
unthickness
unthievish
unthievishly
unthievishness
unthink
unthinkability
unthinkable
unthinkableness
unthinkables
unthinkably
unthinker
unthinking
unthinkingly
unthinkingness
unthinks
unthinned
unthinning
unthirsting
unthirsty
unthistle
untholeable
untholeably
unthorn
unthorny
unthorough
unthoroughly
unthoroughness
unthoughtful
unthought
unthoughted
unthoughtedly
unthoughtful
unthoughtfully
unthoughtfulness
unthoughtlike
unthrall
unthralled
unthrashed
unthread
unthreadable
unthreaded
unthreading
unthreads
unthreatened
unthreatening
unthreateningly
untheshed
unthrid
unthridden
unthrift
unthriftier
unthriftiest
unthriftihood
unthriftily
unthriftiness
unthriftlike
unthrifty
unthrilled
unthrilling
unthrive
unthriven
unthriving
unthrivingly
unthrivingness
unthroatily
unthroaty
unthrob
unthrobbing
unthrone
unthroned
unthrones
unthronged
unthroning
unthrottled
unthrowable
unthrown
unthrushlike
unthrust
unthumbed
unthumped
unthundered
unthundering
unthwacked
unthwartable
unthwarted
unthwarting
untiaraed
unticketed
untickled
untidal
untidied
untidier
untidies
untidiest
untidily
untidiness
untidy
untidying
untie
untied
untieing
untiered
unties
untight
untighten
untightened
untightening
untightness
uniing
until
untile
untiled
untill
untillable
untilled
untilling
untilt
untilted
untilting
untimbered
unteer
untimed
untimedness
untimeliness
untimely
untimeo
untimeoously
untimesome
untimid
untimidly
untimidness
untimorous
untimorously
untimorousness
untimous
untin
untinct
untinctured
untindered
untine
untinged
untinkered
untinned
untinneled
untinselled
untinted
untippable
untipped
untipped
untipsy
untipt
untirability
untirable
untire
untired
untiredly
untiring
untiringly
untissued
untithability
untithable
untithed
untitillated
untitillating
untitled
untittering
untitular
untitularly
unto
untoadying
untoasted
untogaed
untoggle
untoggler
untoggled
untoiled
untoileted
untoiling
untold
untolerable
untolerableness
untolerably
untolerated
untolerating
untolerative
untolled
untomb
untombed
untonality
untone
untoned
untongue
untongued
untoused
untooled
untooth
untoothed
untoothsome
untoothsomeness
untop
untopographical
untopographically
untoppable
untopped
untopping
untopped
untormented
untormenting
untormentingly
untorn
untorpedoed
untorpid
untorpidly
untorporific
untorrid
untorridity
untorridly
untorridness
untortious
untorously
untortuous
untortuously
untortuousness
untorture
untortured
untossed
untotaled
untraduced
untraffickable
untraficked
untragic
untragical
untragically
untragicalness
untrailed
untracerable
untrailered
untrailing
untrain
untrainable
untrained
untrainedly
untrainedness
untraitored
untraitorous
untraitorously
untraitorousness
untrammed
untrammed
untrammedness
untrammelled
untramped
untrampled
untrance
untranquil
untranquilize
untranquilized
untranquilizing
untranquillise
untranquillised
untranquillising
untranquillize
untranquillized
untranquilly
untranquilness
untransacted
untranscended
untranscendent
untranscendental
untranscendentally
untranscribable
untranscribed
untransferable
untransferred
untransferring
untrashed
untraumatic
untravelable
untraveled
untraveling
untravellable
untravelled
untravelling
untraversable
untraversed
untravestied
untreacherous
untreacherously
untreacherousness
untread
untreadable
untreading
untreads
untrearsable
untreasurable
untreasure
untreasured
untreatable
untreatableness
untreatably
untreated
untreed
untrekked
untrellised
untrembling
untremblingly
untremendous
untremendously
untremendousness
untremolant
untremulant
untremulent
untremulous
untremulously
untremulousness
untrenched
untrend
untrepanned
untrespassed
untrespassing
untress
untressed
untrieable
untriableness
untriableness
untribal
untribally
untributarily
untributary
untriced
untrickable
untricked
untried
untrifling
untriflingly
untrig
untriggered
untrigonometric
untrigonometrical
untrigonometrically
untrill
untrim
untrimmable
untrimmed
untrimmedness
untrimming
untrims
untrinitarian
unripe
untrippable
untripped
untripping
unrist
unrite
untritely
unritteness
untiritated
untriumphable
untriumphant
untriumphantly
untriumphed
untrivial
untrivially
untrochaic
untrod
untrodden
untroddenness
untrolled
untrophied
untropic
untropical
untropically
untroth
untrottled
untrotted
untroublable
untrouble
untroubled
untroubledly
untroubledness
untroblemsome
untroublesomeness
untrounced
untrowable
untrowed
untruant
untrace
untruck
untruckled
untruckling
untrue
untrueness
untruer
untruest
untruis
untruly
untrumped
untrumeted
untrumping
untrundled
untrunked
untruss
untrussed
untrusser
untrusses
untrussing
untrust
untrustable
untrustably
untrusted
untrustful
untrustfully
untrustiness
untrusting
untrustness
untrustworthily
untrustworthiness
untrustworthy
untrustly
untruth
untz
unubiquitous
unubiquitously
unubiquitousness
unugly
unulcerated
unulcerative
unulcerous
unulcerously
unulcerousness
unula
unum
unumpired
ununanimity
ununanimous
ununanimously
ununanimousness
ununderstandability
ununderstandable
ununderstandably
ununderstanding
ununderstood
unundertaken
unundulatary
ununifiable
ununified
ununiform
ununiformed
ununiformity
ununiformly
ununiformness
ununionized
ununique
ununiquely
ununiqueness
unuitable
ununitable
ununitaleness
ununitably
ununited
ununiting
ununiversity
ununiversitylike
unupbraided
unupbraiding
unupbraidingly
unupdated
unupholstered
unupright
unuprightly
unuprightness
unupset
unupsettable
unurban
unurbane
unurbanely
unurbanized
unured
unurged
unurgent
unurgently
unurging
unurn
unurned
unusability
unusable
unusableness
unusably
unusage
unuse
unuseable
unuseableness
unuseably
unused
unusedness
unuseful
unusefully
unusefulness
unushered
unusual
unusuality
unusually
unusualness
unusurious
unusuriously
unusuriousness
un usurped
un usurping
un utilitarian
unutilizable
un utilized
un utterability
un utterable
un utterableness
un utterably
un uttered
unuxorial
unuxorious
unvaporously
unvaporousness
unvariable
unvariableness
unvariably
unvariant
unvariation
unvaried
unvariedly
unvariegated
unvarnished
unvarnishedly
unvarnishedness
unvarying
unvaryingly
unvaryingness
unvascular
unvascularly
unvascereal
unvassal
unvatted
unvaulted
unvaulting
unvaunted
unvaunting
unvauntingly
unveering
unveeringly
unvehement
unvehemently
unveil
unveiled
unveiledly
unveiledness
unveiler
unveiling
unveilment
unveils
unveined
unvelvety
unvenal
unvendable
unvendableness
unvended
unvendible
unvendibility
unveneered
unvenerability
unvenerable
unvenerableness
unvenerably
unvenerated
unvenerative
unvenereal
unvenged
unvengeful
unveniable
unvenial
unveniality
unvenially
unvenialness
unvenom
unvenomed
unvenomous
unvenomously
unvenomousness
unventable
unvented
unventilated
unventured
unventuresome
unventurous
unventurously
unventurousness
unvenued
unveracious
unveraciously
unveraciousness
unveracity
unverbal
unverbalized
unverbally
unverbose
unverbosely
unverboseness
unverdant
unverdantly
unverdured
unverdurness
unverdurous
unverdurousness
unveridic
unveridical
unveridically
unverifiability
unverifiable
unverifiableness
unverifiably
unverificative
unverified
unverifiedness
unveritable
unveritableness
unveritably
unverity
unvermiculated
unverminous
unverminously
unverminousness
unvernacular
unversatile
unversatilely
unversatileness
unversatility
unversed
unversedly
unversedness
unversified
unvertebrate
unvertical
unvertically
unvertiginous
unvertiginously
unvertiginousness
unvesiculated
unvessel
unvesseled
unvest
unvested
unvetted
unvexatious
unvexatiously
unvexatiousness
unvexed
unvext
unviable
unvibrant
unvibrantly
unvibrated
unvibrating
unvibrational
unvicar
unvicarious
unvicariously
unvicariousness
unvicious
unviciously
unviciousness
unvictimized
unvictorious
unvictualed
unvictualled
unviewable
unviewed
unvigilant
unvigilantly
unvigorous
unvigorously
unvigoroussness
unvilified
unvillaged
unvillainous
unvillainously
unvincible
unvindicable
unvindicated
unvindicte
unvindicively
unvindiciveness
unvinous
unvintaged
unviolable
unviolableness
unviolably
unviolate
unviolated
unviolative
unviolenced
unviolent
unviolently
unviolined
unvirgin
unvirginal
unvirginallike
unvirile
unvirility
unvirtue
unvirtuous
unvirtuously
unvirtuousness
unvirulent
unvirulently
unvisceral
unvisible
unvisibleness
unvisibly
unvision
unvisionary
unvisioned
unvisitable
unvisited
unvisiting
unvisor
unvisored
unvistaed
unvisual
unvisualised
unvisualized
unvisually
unvital
unvitalized
unvitalizing
unvitably
unvitalness
unvitable
unvitiated
unvitiatedly
unvitiatedness
unvitiating
unvitreosity
unvitreous
unvitreously
unvitreousness
unvitreousness
unvitrescent
unvitrescibility
unvitrescible
unvitrifiable
unvitrified
unvitrilized
unviturperated
unviturperative
unviturperatively
unviturperativeness
unvivacious
unvivaciously
unvivaciousness
unvivid
unvividly
unvividness
unvivified
unvizard
unvizarded
unvizored
uncvable
unvocal
unvocalised
unvocalized
unvociferous
unvociferously
unvociferousness
unvoice
unvoiced
unvoiceful
unvoices
unvoicing
unvoid
unvoidable
unvoided
unvoidness
unvolatile
unvolatiled
unvolatilize
unvolatilized
unvolcanic
unvolcanically
unvolitional
unvolitioned
unvolitive
unvoluble
unvolubleness
unvolubly
unvolumed
unvoluminous
unvoluminously
unvoluminousness
unvoluntarily
unvolontariness
unvoluntary
unvolunteering
unvoluptuous
unvoluptuously
unvoluptuosity
unvomited
unvoracious
unvoraciously
unvoraciousness
unvote
unvoted
unwakefulness
unwakened
unwakening
unwaking
unwalkable
unwalked
unwalking
unwall
unwalled
unwallet
unwallowed
unwan
unwandered
unwandering
unwanderingly
unwmented
unwaning
unwanted
unwanton
unwarbled
unwarded
unware
unwarely
unwareness
unwares
unwarier
unwariest
unwarily
unwariness
unwarlike
unwarlikeness
unwarm
unwarmable
unwarmed
unwarming
unwarn
unwarned
unwarnedly
unwarnedness
unwarning
unwarnished
unwarp
unwarpable
unwarped
unwarping
unwarreness
unwarrant
unwarrantability
unwarrantable
unwarrantableness
unwarrantably
unwarrantableness
unwarranted
unwarrantedly
unwarrantedness
unwarried
unwarred
unwarren
unwary
unwashable
unwashed
unwashedness
unwashedes
unwasheden
unwashen
unwassailing
unwastable
unwasted
unwasteful
unwastefully
unwastefulness
unwasting
unwastingly
unwatchable
unwatched
unwatchful
unwatchfully
unwatchfulness
unwatching
unwater
unwatered
unwaterlike
unwatermarked
unwatery
unwattled
unwaved
unwaverable
unwavered
unwavering
unwaveringly
unwaving
unwax
unwaxed
unwayed
unwayward
unweaken
unweakened
unweakening
unweal
unwealsomeness
unwealthy
unweaned
unweapon
unweaponed
unwearable
unwearably
unweariability
unwearable
unweariability
unwearably
unweared
unwearedly
unwearedness
unwearily
unweariness
unwearing
unwearisome
unwearisomeness
unweary
unwearying
unwearyingly
unweathered
unweatherly
unweatherwise
unweave
unweaves
unweaving
unweb
unwebbed
unwebbing
unwed
unwedded
unweddedly
unweddedness
unwedge
unwedgeable
unwedged
unwedging
unweed
unweel
unweelness
unweened
unweeping
unweeting
unweepingly
unweft
unweighability
unweighable
unweighableness
unweighed
unweighing
unweight
unweighted
unweighting
unweights
unweighty
unwelcome
unwelcomed
unwelcomely
unwelcomeness
unwelcoming
unweld
unweldable
unwelde
unwelded
unwell
unwellness
unwelted
unwelth
unwemmed
unwept
unwestern
unwesternized
unwet
unwettable
unwetted
unwheedled
unwheel
unwheeled
unwhelmed
unwhelped
unwhetted
unwhig
unwhiglike
unwhimpering
unwhimperingly
unwhimsical
unwhimsically
unwhimsicalness
unwhining
unwhiningly
unwhip
unwhipped
unwhipt
unwhirled
unwhisked
unwhiskered
unwhisperable
unwhispered
unwhispering
unwhistled
unwhite
unwhited
unwhitened
unwhitewashed
unwhole
unwholesome
unwholesomely
unwholesomeness
unwicked
unwickedly
unwickedness
unwidened
unwidowed
unwield
unwieldable
unwieldier
unwieldiest
unwieldily
unwieldiness
unwieldly
unwieldsome
unwieldy
unwifed
unwifelike
unwifely
unwig
unwigged
unwiggling
unwild
unwildly
unwildness
unwilful
unwilfully
unwilfulness
unwilier
unwilily
unwiliness
unwill
unwilling
unwillable
unwille
unwilled
unwilledness
unwillful
unwillfully
unwillfulness
unwilling
unwillingly
unwillingness
unwilted
unwiling
unwily
unwimple
unwincing
unwincingly
unwind
unwindable
unwinded
unwinder
unwinders
unwinding
unwindingly
unwindowed
unwinds
unwindy
unwingable
unwinged
unwink
unwinking
unwinkingly
unwinly
unwinnable
unwinning
unwinnowed
unwinsome
unwinter
unwintry
unwiped
unwirable
unwire
unwired
unwisdom
unwisdoms
unwise
unwisely
unwiseness
unwiser
unwisest
unwish
unwished
unwishes
unwishful
unwishfully
unwishfulness
unwishing
unwist
unwistful
unwistfully
unwistfulness
unwit
unwitch
unwitched
unwithdrawable
unwithdrawning
unwithdrawn
unwitherable
unwithered
unwithering
unwithdrawn withhold
unwithdrawn withhold
unwithholding
unwithstanding
unwithstood
unwitless
unwitnessed
unwits
unwitted
unwittily
unwitting
unwittingly
unwittingness
unwitty
unwife
unwived
unwoeful
unwoefully
unwoefulness
unwoeful
unwoman
unwomanish
unwomanize
unwomanized
unwomanlike
unwomanliness
unwomanly
unwomb
unwon
unwonder
unwonderful
unwonderfully
unwondering
unwont
unwonted
unwontedly
unwontedness
unwooded
unwoed
unwoof
unwooly
unwordable
unwordably
unworded
unwordily
unwordy
unwork
unworkability
unworkable
unworkableness
unworkably
unworked
unworkedness
unworker
unworking
unworkmanlike
unworkmanly
unworld
unworldliness
unworldly
unwormed
unworminess
unwormy
unworn
unworried
unworriedly
unworriedness
unworship
unworshiped
unworshipful
unworshiping
unworshipped
unworshipping
unworth
unworthier
unworthiest
unwrongful
unwrongfully
unwrongfulness
unwrote
unwrought
unwrung
unwry
unwwove
unwwoven
unyachtsmanlike
unyeaned
unyearned
unyearning
unyielded
unyielding
unyieldingly
unyieldingness
unyoke
unyoked
unyokes
unyoking
unyolden
unyoung
unyouthful
unyouthfully
unyouthfulness
unze
unzealous
unzealously
unzealousness
unzen
unzephyrlike
unzip
unzipped
unzipping
unzips
unzone
unzoned
unzoning
up
upaisle
upaithic
upalley
upalong
upanaya
upanayana
upanishad
upanishadic
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 9734
upflame
upflare
upflash
upflee
upflicker
upfling
upflinging
upflings
upfloat
upflood
upflow
upflowed
upflower
upflowing
upflows
upflung
upfly
upfold
upfolded
upfolding
upfolds
upfollow
upframe
upfurl
upgale
upgang
upgape
upgather
upgathered
upgathering
upgathers
upgaze
upgazed
upgazes
upgazing
upget
upgird
upgirded
upgirding
upgirds
upgirt
upgive
upglean
upglide
upgo
upgoing
upgorge
upgrade
upgraded
upgrader
upgrades
upgrading
upgrave
upgrew
upgrow
upgrowing
upgrown
upgrows
upgrowth
upgrowths
upgully
upgush
uphale
uphand
uphang
upharbor
upharrow
upharsin
uphasp
upheal
upheap
upheaped
upheaping
upheaps
uphearsed
uphearted
upheaval
upheavalist
upheavals
upheave
upheaved
upheaven
upheaver
upheavers
upheaves
upheaving
upheld
uphelm
uphelya
upher
upphove
uphill
uphills
uphillward
uphoard
uphoarded
uphoarding
uphoards
uphoist
uphold
upholden
upholder
upholders
upholding
upholds
upholster
upholstered
upholsterer
upholsterers
upholsteress
upholsteries
upholstering
upholsterous
upholsters
upholstery
upholsterydom
upholstress
uphove
uphroe
uphroes
uphung
uphurl
upisland
upjerk
upjet
upkeep
upkeeps
upkindle
upknell
upknit
upla
upladder
uplaid
uptake
upland
uplander
uplanders
uplandish
uplands
uplane
uplay
uplead
uplean
upleap
upleaped
upmountain
upmove
upness
upo
upon
uppard
uppbad
upped
uppent
upper
uppercase
upperch
upperclassman
upperclassmen
uppercut
uppercuts
uppercutted
uppercutting
upperer
upperest
upperhandism
uppermore
uppermost
upperpart
uppers
upperstocks
uppertendom
upperworks
uppile
upplied
uppiles
uppiling
upping
upplings
uppish
uppishly
uppishness
uppity
uppityness
upplough
upplow
uppluck
uppoint
upoise
upload
uppour
uppowoc
upprick
upprop
uppropped
uppropping
upprops
uppuff
uppull
uppush
upquiver
upraisal
upraise
upraised
upraiser
upraisers
upraises
upraising
upraught
upreach
upreached
upreaches
upreaching
uprear
upreared
uprearing
uprears
uprein
uprend
uprender
uprest
uprestore
uprid
upridge
upright
uprighted
uprighteous
uprightely
uprighteousness
uprighting
uprightish
uprightly
uprightman
uprightness
uprights
uprip
uprisal
uprise
uprisement
uprisen
upriser
upsmite
upsnatch
upsoak
upsoar
upsoared
upsoaring
upsoars
upsolve
upspeak
upspear
upspeed
upspew
upspin
upspire
upsplash
upsput
upsprout
upsprang
upsread
upspring
upspringing
upsprings
upsprinkle
upsprout
upsprung
upsfurt
upsring
upstaff
upstage
upstaged
upstages
upstaging
upstair
upstairs
upstamp
upstand
upstander
upstanding
upstandingly
upstandingness
upstands
upstare
upstared
upstares
upstaring
upstart
upstarted
upstarting
upstartism
upswelled
upswelling
upswells
upswelt
upswing
upswinging
upswings
upswollen
upswung
upsy
uptable
uptake
uptaker
uptakes
uptear
uptearing
uptears
uptemper
uptend
upthrow
upthrowing
upthrown
upthrows
upthrust
upthrusting
upthrusts
upthunder
uptide
uptie
uptight
uptightness
uptill
uptilt
uptilted
uptilting
uptilts
uptime
uptimes
uptore
uptorn
uptoss
uptossed
uptosses
uptossing
uptower
uptown
upwind
upwinds
upwith
upwork
upwound
upwrap
upwreathe
upwrench
upwring
upwrought
upyard
upyoke
ur
ura
urachal
urachovesical
urachus
uracil
uracils
uraei
uraemia
uraemias
uraemic
uraeus
uraeuses
ural
urali
uralian
uralic
uraline
uralite
uralites
uralitic
uralitization
uralitize
uralitized
uralitizing
uralium
uramido
uramil
uramilic
uramino
uran
uranalyses
uranalysis
uranate
urania
uranian
uranic
uranide
uranides
uranidin
uranidine
uraniferous
uraniid
uranin
uranine
uraninite
uranion
uraniscochasma
uraniscoplasty
uraniscoraphy
uraniscorrhaphy
uraniscus
uranism
uranisms
uranist
uranite
uranites
uranitic
uranium
uraniums
uranocircite
uranographer
uranographic
uranographical
uranographist
uranography
uranolatry
uranolite
uranological
uranologies
uranologist
uranology
uranometria
uranometrical
uranometrist
uranometry
uranophane
uranophobia
uranophotography
uranoplastic
uranoplasty
uranoplegia
uranorrhaphia
uranorrhaphy
uranoschisis
uranoschism
uranscope
uranoScope
uranoScopia
uranoScoPIC
uranoSCOPY
uranoSPATHITE
uranoSPHAERITE
uranoSPINITE
uranoSTAPHYLoplastY
uranoSTAPHYLOrrhaphy
uranoTANTALITE
uranoTHALLITE
uranoTHorite
uranoTil
uranous
uranus
uranyl
uranylic
uranyls
urao
urare
urares
urari
uraris
urase
urases
urataemia
urate
uratemia
urates
uratic
uratoma
uratosis
uraturia
urazin
urazine
urazole
urb
urbacity
urbainite
urban
urbana
urbane
urbanely
urbanenesS
urbaner
urbanest
uremias
uremic
urena
urent
ureometer
ureometry
ureosecretory
ureotelic
ureotelism
uresis
uretal
ureter
ureteral
ureteralgia
ureterocystoscope
ureterectasia
ureterectasis
ureterectomies
ureterectomy
ureteric
ureteritis
ureterocele
ureterocervical
ureterocolostomy
ureterocystanastomosis
ureterocystoscope
ureterocystostomy
ureterodialysis
ureteroenteric
ureteroenterostomy
ureterogenital
ureterogram
ureterograph
ureterography
ureterointestinal
ureterolith
ureterolithiasis
ureterolithic
ureterolithotomies
ureterolithotomy
ureterolysis
ureteronephrectomy
ureterophlegma
ureteroplasty
ureteroproctostomy
ureteropyelitis
ureteropyelogram
ureteropyelography
ureteropyelonephritis
ureteropyelostomy
ureteropyosis
ureteroradiography
ureterorectostomy
ureterorrhagia
ureterorrhaphy
ureterosalpingostomy
ureterosigmoidostomy
ureterostegnosis
ureterostenoma
ureterostenosis
ureterostoma
ureterostomies
ureterostomy
ureterotomy
ureterouteral
ureterovaginal
ureterovesical
ureters
urethan
urethane
urethanes
urethans
urethra
urethrae
urethragraph
urethral
urethralgia
urethrameter
urethras
urethrascope
urethratome
urethratresia
urethrectomies
urethrectomy
urethremphraxis
urethreurynter
urethreurynter
urethreurynter
urethristhm
urethritic
urethritis
urethroblennorrhea
urethrobullbar
urethrocele
urethrocystitis
urethrogenital
urethrogram
urethrogram
urial
uric
uricacidemia
uricaciduria
uricaemia
uricaemic
uricemia
uricemic
uricolyis
uricolytic
uriconian
uricosuric
uricotelic
uricotelism
uridine
uridines
uridrosis
uriel
urim
urinaemia
urinaemic
urinal
urinalist
urinals
urinalyses
urinalysis
urinant
urinaries
urinarium
urinary
urinate
urinated
urinates
urinating
urination
urinative
urinator
urine
urinemia
urinemias
urinemic
urines
uriniferous
uriniparous
urinocryoscopy
urinogenital
urinogenitary
urinogenous
urinologist
urinology
urinomancy
urinometer
urinometric
urinometry
urinoscopic
urinoscopies
urinoscopist
urinoscopy
urinose
urinosexual
urinous
urinuousness
urite
urlar
urlarled
urling
urluch
urnman
urn
urns
urn's
urna
urnae
urnal
urnfield
urnflower
urnful
urnfuls
urning
urningism
urnism
urnlike
urnmaker
urns
uroacidimeter
uroazotometer
urobenzoic
urobilin
urobilinemia
urobilinogen
urobilinogenuria
urobilinuria
urocanic
urocele
urocerid
urochloralic
urochord
urochordal
urochordate
urochords
urochrome
urochromogen
urochs
urocyanogen
urocyst
urocystic
urocystitis
urodaeum
urodelan
urodele
urodeles
urodelous
urodialysis
urodynia
uroedema
uroerythrin
urofuscohematin
urogaster
urogastric
urogenic
urogenital
urogenitary
urogenous
uroglauclin
urogomphi
urogomphus
urogram
urography
urogravimeter
urohaematin
urohematin
urohyal
urokinase
urol
urolagnia
uroleucic
uroleucinic
urolit
urolithiasis
urolithic
urolithology
uroliths
urologic
urological
urologies
urologist
urologists
urology
urulutein
urolytic
uromancy
uromantia
uromantist
uromelanin
uromelus
uromere
uromeric
urometer
uronephrosis
uronic
uronomy
uroo
uroodal
urapatagium
urophaein
urophanic
urophanous
urphein
urophi
urophobia
urophthisis
uroplania
uropod
uropodal
uropodous
uropods
uropoetic
uropoiesis
uropoietic
uroporphyrin
uropsile
uroptysis
uropygial
uropygium
uropyloric
uronosein
urorrhagia
urorrhhea
urorubic
urorubin
uroporosaccharometry
urosacral
uroschesis
uroscopic
uroscopies
uroscopist
uroscopy
urosepsis
uroseptic
urosis
urosomatic
urosome
urosomite
urosomitic
urostea
urostealith
urostegal
urostege
urostegite
urostean
urosternite
urosthene
urosthenic
urostylar
urostyle
urostyles
urotoxia
urotoxic
urotoxicity
urotoxies
urotoxin
urotoxy
uroxanate
uroxanic
uroxanthin
uroxin
urpriser
urradhus
urrhodin
urrhodinic
ursa
ursae
ursal
ursicidal
ursicide
ursiform
ursigram
ursine
ursoid
ursolic
urson
ursone
usucapionary
usuapt
usuceptable
usuceptible
usucept
usufruct
usufructs
usufructuaries
usufructuary
usufruit
asurer
usurer
usurerlike
usurers
usuress
usuries
usurious
usuriously
usuriousness
usurp
usurpation
usurpations
usurpative
usurpatively
usurpatory
usurpature
usuerged
usuergedly
usurer
usurper
usurpers
usurpership
usurping
usurpingly
usurpment
usurpor
usurpress
usurps
usurpion
usury
usw
usward
uswards
ut
uta
utah
utahan
utahans
uttered
utterer
utterers
utterest
uttering
utterless
utterly
uttermost
utterness
utters
utu
utum
uturuncu
uucpnet
uva
uval
uvala
uvalha
uvanite
uvarovite
uvate
uvea
uveal
uveas
uveitic
uveitis
uveitises
uveous
uvic
uvid
uviol
uvitic
uvitinic
uvito
uvitonic
uvre
uvres
uvrou
uvula
uvulae
uvular
uvularia
uvularly
uvulars
uvulas
uvulatomes
uvulatomy
uvulectomies
uvulectomy
uvulitis
uvulitises
uvuloptosis
uvulotome
uvulotomies
uvulotomy
uvver
ux
uxorial
uxoriality
uxorially
uxoricidal
uxoricide
uxorilocal
uxorious
uxoriously
uxoriousness
uxoris
uzan
uzara
uzarin
uzaron
uzbek
v
v's
va
vaad
vaadim
vaagmaer
vaagmar
vaagmer
vaalite
vac
vacabond
vacance
vacancies
vacancy
vacancy's
vacandi
vacant
vacante
vacanthearted
vacantheartedness
vacantia
vacantly
vacantness
vacancy
vacatable
vacate
vacated
vacates
vacating
vacation
vacational
vacationed
vacationer
vacationers
vacationing
vacationist
vacationists
vacationland
vacationless
vacations
vacatur
vacary
vaccenic
vaccicide
vaccigenous
vaccina
vaccinable
vaccinal
vaccinas
vaccinate
vaccinated
vaccinates
vaccinating
vaccination
vaccinationist
vaccinations
vaccinator
vaccinators
vaccinatory
vaccine
vaccinee
vaccinella
vaccines
vaccinia
vacciniaceous
vaccinial
vaccinias
vaccinifer
vacciniiform
vacciniola
vaccinist
vaccinium
vaccinization
vaccinogenic
vaccinogenous
vaccinoid
vaccinophobia
vaccinotherapy
vache
vacherin
vachette
vacillancy
vacillant
vacillate
vacillated
vacillates
vacillating
vacillatingly
vacillation
vacillations
vacillator
vacillators
vacillatory
vacoa
vacona
vacoua
vacouf
vacua
vacual
vacuate
vacuation
vacuefy
vacuist
vacuit
vacuities
vacuity
vacuo
vacuolar
vacuolary
vacuolate
vacuolated
vacuolation
vacuole
vacules
vacuolization
vacuome
vacuometer
vacuous
vacuously
vacuousness
vagary's
vagas
vagation
vagbondia
vage
vagi
vagient
vagiform
vagile
vagilities
vagility
vagina
vagina's
vaginae
vaginal
vaginalectomies
vaginalectomy
vaginaless
vaginalitis
vaginally
vaginant
vaginas
vaginate
vaginated
vaginectomies
vaginectomy
vaginervose
vaginicoline
vaginicolous
vaginiferous
vaginipennate
vaginismus
vaginitis
vaginoabdominal
vaginocele
vaginodynia
vaginofixation
vaginolabial
vaginometer
vaginomycosis
vaginoperineal
vaginoperitoneal
vaginopexy
vaginoplasty
vaginoscope
vaginoscopy
vaginotome
vaginotomies
vaginotomy
vaginovesical
vaginovulvar
vaginula
vaginulate
vaginule
vagitus
vagoaccessorius
vagodepressor
vagoglossopharyngeal
vagogram
vagolysis
vagosympathetic
vagotomies
vagotomize
vagotomy
vagotonia
vagotonic
vagotomy
vagotony
vagotropic
vagotropism
vagous
vagrance
vagrancies
vagrancy
vagrant
vagrantism
vagrantize
vagrantlike
vagrantly
vagrantness
vagrants
vagrate
vagrom
vague
vaguely
vagueness
vaguer
vaguest
vaguio
vaguios
vaguish
vaguity
vagulous
vagus
vahana
vahine
vahines
vahini
vail
vailable
vailed
vailing
vails
vain
vainer
vainest
vainful
vainglorious
vaingloriously
vaingloriousness
vainglory
vainly
vainness
vainnesses
vair
vairagi
vaire
vairee
vairs
vairy
vaishnava
vaisya
vairote
vastra
vastrams
vastram
val
valance
valanced
valances
valanche
valancing
valbellite
vale
vale's
valebant
valediction
valedictions
valedictorian
valedictorians
valedictories
valedictorily
valedictory
valence
valence's
valences
valencia
valencianite
valencias
valenciennes
valencies
valency
valens
valent
valentiam
valentine
valentine's
valenties
valentinean
valentineite
valeral
valeraldehyde
valeramid
valeramide
valerate
valerates
valerian
valerianaceous
valerianate
valerianic
valerians
valeric
valerin
valerolactone
valerone
valeryl
valerylene
valetes
valet
valet's
valeta
valetage
valetaille
valetdom
valetted
valethood
valeting
valetism
vaetry
valets
valetude
valetudinaire
valetudinarian
valetudinarianism
valetudinarians
valetudinaries
valetudinariness
valetudinarist
valetudinarium
valetudinary
valeur
valew
valeward
valewe
valgoid
valgus
valguses
valhall
valhalla
valí
valiance
valiances
valiancies
valiancy
valiant
valiantly
valiantness
valiants
valid
validatable
validate
validated
validates
validating
validation
validations
validatory
validification
validities
validity
validly
validness
validous
valinch
valine
valvae
valval
valvar
valvate
valve
valve's
valved
valveless
valvelet
valvelets
valvelike
valveman
valvemen
valves
valviferous
valviform
valving
valvotomy
valvula
valvulae
valvular
valvulate
valvule
valvules
valvulitis
valvulotome
valvulotomy
valyl
valylene
vambrace
vambraced
vambraces
vambrash
vamfont
vammazsa
vamoose
vamoosed
vamooses
vamoosing
vamos
vamose
vamosed
vamoses
vamosing
vamp
vamped
vamper
vampers
vandals
vandas
vandelas
vandyke
vandyked
vandykes
vane
vane's
vaned
vaneless
vanelike
vanes
vanessa
vanessian
vanfoss
vang
vangee
vangeli
vanglo
vangloe
vangs
vanguard
vanguardist
vanguards
vanilla
vanillal
vanillaldehyde
vanillas
vanillate
vanille
vanillery
vanillic
vanillin
vanilline
vanillinic
vanillins
vanillism
vanilloes
vanillon
vanilloy
vanillyl
vanir
vanish
vanished
vanisher
vanishers
vanishes
vanishing
vanishingly
vanishment
vanitarianism
vanitied
vanities
vanitory
vanitous
vanity
vanjarrah
vanlay
vanload
vanman
vanmen
vanmost
vanned
vanner
vannerman
vannermen
vannet
vanning
vannus
vanquish
vanquishable
vanquished
vanquisher
vanquishers
vanquishes
vanquishing
vanquishment
vans
vansire
vantage
vantageless
vantages
vantbrace
vantbrass
vanterie
vantguard
vanward
vapid
vapidism
vapidities
vapidity
vapidly
vapidness
vapocauterization
vapographic
vapography
vapor
vaporability
vaporable
vaporarium
vaporary
vaporate
vapored
vaporer
vaporers
vaporescence
vaporescent
vaporetti
vaporetto
vaporettos
vaporiferous
vaporiferousness
vaporic
vaporicific
vaporiform
vaporimeter
vaporiness
vaporizing
vaporingly
vaporings
vaporise
vaporised
vaporises
vaporish
vaporishness
vaporising
vaporium
vaporizability
vaporizable
vaporization
vaporize
vaporized
vaporizer
vaporizers
vaporizes
vaporizing
vaporless
vaporlike
vaporograph
vaporographic
vaporose
vaporoseness
vaporosity
vaporous
vaporously
vaporousness
vapors
vaportight
vaporware
vapory
vapotherapy
vapour
vapourable
vapoured
vapourer
vapourers
vapourescent
vapourific
vapourimeter
vapouring
vapouringly
vapourisable
vapourise
vapourised
vapouriser
vapourish
vapourishness
vapourising
vapourizable
vapourization
vapourize
vapourized
vapourizer
vapourizing
vapourose
vapourous
vapourously
vapours
vapoury
vappa
vapulary
vapulate
vapulation
vapulatory
vaquero
vaqueros
var
vara
varactor
varahan
varan
varangian
varanian
varanid
varas
vardapet
vardingale
vardy
vare
varec
varech
vareheaded
varella
vareuse
vargueno
vari
varia
variabilities
variability
variable
variable's
variableness
variables
variably
variac
variadic
variagles
variance
variance's
variances
variancy
variant
variantly
variants
variate
variated
variates
variating
variation
variation's
variational
variationally
variationist
variations
variations
variational
variatively
variator
varical
varicated
varication
varificatory
variform
variformed
variformity
variformly
varify
varigradation
varindor
varing
vario
variocoupler
variocuopler
variola
variolar
variolas
variolate
variolated
variolating
variolation
variole
varioles
variolic
varioliform
variolite
variolitic
variolitization
variolization
varioloid
variolosser
variolous
variolovaccine
variolovaccinia
variometer
variorum
variorums
varios
variotinted
various
variously
variousness
variscite
varisized
varisse
varistor
varistors
varitype
varityped
varityping
vasicentric
vasicine
vasifactive
vasiferous
vasiform
vasoactive
vasoactivity
vasoconstricting
vasoconstriction
vasoconstrictive
vasoconstrictor
vasoconstrictors
vasocorona
vasodentinal
vasodentine
vasodepressor
vasodilatation
vasodilating
vasodilation
vasodilator
vasodentinal
vasodentine
vasoconstricting
vasoconstrictive
vasoconstrictor
vasoconstrictors
vasocorona
vasodentinal
vasodentine
vasodepressor
vasodilatation
vasodilating
vasodilation
vasodilator
vasoepididymostomy
vasofactive
vasoformative
vasoganglion
vasohypertonic
vasohypotonic
vasoinhibitor
vasoinhibitory
vasoligation
vasoligature
vasomotion
vasomotor
vasomotorial
vasomotoric
vasomotory
vasoneurosis
vasoparesis
vasopressin
vasopressor
vasopuncture
vasoreflex
vasorrhaphy
vasosection
vasospasm
vasospastic
vasostimulant
vasostomy
vasotocin
vasotomy
vasotonic
vasotribe
vasotripsy
vasotrophic
vasovagal
vasovesiculectomy
vasquine
vassal
vassalage
vassaldom
vassaled
vassaless
vassalic
vassaling
vassalism
vassality
vassalize
vassalized
vassalizing
vassalless
vassalling
vassalry
vassals
vassalship
vassar
vast
vastate
vastation
vaster
vastest
vastidity
vastier
vastiest
vastily
vastiness
vastities
vastitude
vastity
vastly
vastness
vastnesses
vasts
vastus
vasty
vasu
vat
vat's
vates
vatful
vatfuls
vatic
vatical
vationally
vatican
vaticanal
vaticanical
vaticanism
vaticanist
vaticide
vaticides
vaticinal
vaticinant
vaticinate
vaticinated
vaticinating
vaticination
vaticinator
vaticinatory
vaticinatress
vaticinatrix
vaticine
vatmaker
vatmaking
vatman
vats
vatted
vatter
vatting
vau
vaucheriacaceous
vaudeville
vaudevillian
vaudevillians
vaudevillist
vaudios
vaudois
vaudoux
vaudy
vaugnerite
vauguelinite
vault
vaultage
vaulted
vaultedly
vegetates
vegetating
vegetation
vegetational
vegetationally
vegetationless
vegetative
vegetatively
vegetativeness
vege
vegeteness
vegetarianism
vegetism
vegetist
vegetists
vegetive
vegetivorous
vegetoalkali
vegetoalkaline
vegetoalkaloid
vegetoanimal
vegetobituminous
vegetocarbonaceous
vegetomineral
vegetous
vehemence
vehemency
vehement
vehemently
vehicle
vehicle's
vehicles
vehicula
vehicular
vehicularly
vehiculary
vehiculate
vehiculation
vehiculatory
vehiculum
vehme
vehmgericht
vei
veigle
veil
veiled
veiledly
veiledness
velar
velardenite
velaria
velaric
velarium
velarization
velarize
velarized
velarizes
velarizing
velars
velary
velate
velated
velating
velation
velatura
velcro
veld
veldcraft
veldman
velds
veldschoen
veldschoenen
veldschoens
veldskoen
veldt
velds
veldschoen
veldtsman
velella
velellidous
veleta
velic
velicate
veliferous
veliform
veliger
veligerous
veligers
velitation
velites
vell
vellala
velleda
velleities
velleity
vellicate
vellicated
velicating
vellication
vellicative
vellinch
vellincher
vellon
vellosin
vellosine
velloziaceous
vellum
vellums
vellumy
vellute
velo
veloce
velociman
velocimeter
velocious
velociously
velocipedal
velocipede
velocipedean
velocipeded
velocipedes
velocipedic
velocipeding
velocities
velocitous
velocity
velocity's
velodrome
velometer
velour
velours
velout
veloute
veloutes
veloutine
velte
velfare
velum
velumen
velumina
velunge
velure
velured
velures
veluring
velutinous
velveret
velverets
velvet
velvetbreast
velveted
velveteen
velveteened
velveteens
velvetiness
velveting
velvetleaf
velvetlike
velvetmaker
velvetmaking
velvetry
velvets
velvetseed
velvetweed
velvetwork
velvety
velyarde
vena
venacularism
venada
venae
venal
venalities
venality
venalization
venalize
venally
venalness
venanzite
venatic
venatical
venatically
venation
venational
venations
venator
venatorial
venatorious
venatory
vencola
vend
vendable
veneries
veneriform
veneris
venero
venerology
veneros
venerous
doner
venesection
vesecor
venesia
veneti
venetian
venetians
venetic
veneur
venezolano
venezuela
venezuelan
venezuelans
venge
vengeable
vengeance
vengeancefully
vengeantly
veged
vegeful
vegefully
vegefulness
vegeously
venger
venges
venging
veniable
venial
venialities
veniality
venially
venialness
veniam
venice
venie
venin
venine
venines
venins
veniplex
ventricose
ventricoseness
ventricosity
ventricular
ventricularis
ventriculi
ventriculite
ventriculitic
ventriculogram
ventriculography
ventriculopuncture
ventriculoscopy
ventricular
ventriculus
ventricumbent
ventriduct
ventrifixation
ventrilateral
ventrilocation
ventriloqual
ventriloqually
ventriloque
ventriloquial
ventriloquially
ventriloquise
ventriloquised
ventriloquising
ventriloquism
ventriloquist
ventriloquistic
ventriloquists
ventriloquize
ventriloquizing
ventriloquous
ventriloquously
ventriloquy
ventrimesal
ventrimeson
ventrine
ventripotence
ventripotency
ventripotent
ventripotential
ventripyramid
ventroaxial
ventroaxillary
ventrocaudal
ventrocystorrhaphy
ventrodorsad
ventrodorsal
ventrodorsally
ventrofixation
ventrohysteropexy
ventroinguinal
ventrolateral
ventrolaterally
ventromedial
ventromedially
ventromedian
ventromesal
ventromesial
ventromyel
ventroposterior
ventrophtosis
ventroptosis
ventroscopy
ventrose
ventrosity
ventrosuspension
ventrotomies
ventrotomy
vents
venture
ventured
venturer
venturers
ventures
venturesome
venturesomely
venturesomeness
venturi
venturine
venturing
venturings
venturis
venturous
venturously
venturousness
venue
venues
venula
venulae
venular
venule
venules
venulose
venulous
venus
venusberg
venushair
venusian
venusians
venust
venusty
venville
veny
ver
vera
veracious
veraciously
veraciousness
veracities
veracity
verament
veranda
veranda's
verandaed
verandah
verandahed
verandas
verandahs
verandas
verascope
veratral
veratralbin
veratralbine
veratraldehyde
veratract
veratria
veratrias
veratric
veratridin
veratridine
veratrin
veratrina
veratrine
veratrinize
veratrinized
veratrinizing
veratrins
veratrice
veratrized
veratrizing
veratroidine
veratrol
veratrole
veratroyl
veratrum
veratrums
veratryl
veratrylidene
veray
verb
verb's
verbal
verbalisation
verbalise
verbalised
verbaliser
verbalising
verbalism
verbalist
verbalistic
verbalities
verbality
verbalization
verbalizations
verbalize
verbalized
verbalizer
verbalizes
verbalizing
verbally
verbals
verbarian
verbarium
verbasco
verbascose
verbascum
verbate
verbatim
verbena
verbenaceous
verbenalike
verbenalin
verbenas
verbenate
verbenated
verbenating
verbene
verbennol
verderer
verderers
verderership
verderor
verderors
verdet
verdetto
verdi
verdict
verdicts
verdigris
verdigrised
verdigrisy
verdin
verdins
verdite
verditer
verditers
verdour
verdoy
verdugo
verdugoship
verdun
verdure
verdured
verdureless
verdurer
verdures
verdurous
verdurousness
verecund
verecundity
verecundness
veredict
veredicto
veredictum
verek
verenda
veretilliform
veretillium
verey
vergaloo
verge
vergeboard
verged
vergence
vergences
vergency
veriscope
verisimilar
verisimilarly
verisimilitude
verisimilitudinous
verisimility
verism
verismo
verismos
verisms
verist
veristic
verists
veritability
veritable
veritableness
veritably
veritas
veritates
verite
verities
veritism
veritist
veritistic
verity
verjuice
verjuiced
verjuices
verkrampte
verligte
vermeil
vermeils
vermenging
vermeologist
vermeology
vermes
vermetid
vermetidae
vermetio
vermian
vermicelli
vermicelous
vermicidal
vermicide
vermicious
vermicle
vermicular
vermicularly
vermiculate
vermiculated
vermiculating
vermiculation
vermicule
vermiculite
vermiculites
vermiculose
vermiculosity
vermiculous
vermiform
vermiformis
vermiformity
vermiformous
vermifugal
vermifuge
vermifuges
vermifugous
vermigerous
vermigrade
vermil
vermilinguial
vermilion
vermilionette
vermilionize
vermillion
vermily
vermin
verminal
verminate
verminated
verminating
vermination
verminer
verminicidal
verminicide
verminiferous
verminlike
verminly
verminosis
verminous
verminously
verminousness
verminproof
verminy
vermiparous
vermiparousness
vermiphobia
vernation
verneuk
verneuker
verneukery
vernicle
vernicles
vernicose
vernier
verniers
vernile
vernility
vernin
vernine
vernissage
vernition
vernix
vernixes
vernon
vernoniaceous
vernonin
veronal
veronalsm
veronese
veronica
veronicas
verquere
verray
verre
verrel
verrell
verriculate
verriculated
verricule
verriere
verruca
verrucae
verrucano
verrucariaceous
verrucarioid
verrucated
verruciferous
verruciform
verrucose
verrucoseness
verrucosis
verrucosities
verrucosity
verrucous
verruculose
verruga
verrugas
verry
vers
versa
versability
versable
versableness
versailles
versal
versant
versants
versate
versatec
versatile
versatilely
versatileness
versatilities
versatility
versation
versative
verse
versecraft
versed
verseless
verselet
versemaker
versemaking
verseman
versemanship
versemen
versemonger
versemongering
versemongery
verser
versers
verses
versesmith
verset
versets
versette
verseward
versewright
versicle
versicler
versicles
versicolor
versicolorate
versicolored
versicolorous
versicolour
versicoloured
versicular
versicule
versiculi
versicusulus
versiera
versifiable
versifiaster
versification
versifications
versificator
versificatory
versificatrix
versified
versifier
versifiers
versifies
versiform
versify
versifying
versiloquy
versin
versine
versines
versing
version
versional
versioner
versionist
versionize
versions
versipel
verso
versor
versos
verst
versta
verste
verstes
versts
versual
versual
versus
versute
vert
vertebra
vertebrae
vertebral
vertebraless
vertebrally
vertebrarium
vertebrarterial
vertebras
vertebrata
vertebrate
vertebrate's
vertebrated
vertebrates
vertebration
vertebre
vertebrectomy
vertebriform
vertebroarterial
vertebrobasilar
vertebrochondral
vertebrocostal
vertebrodymus
vertebrofemoral
vertebroiliac
vertebromammary
vertebrosacral
vertebrosternal
vertep
vertex
vertexes
vertibility
vertible
vertibleness
vertical
verticaled
verticaling
verticalism
verticality
verticalled
verticalling
vertically
verticalness
verticals
vertices
verticil
verticillary
verticillaster
verticillastrate
vervets
vervine
very
verzini
verzino
vesania
vesanic
vesbite
vese
vesica
vesicae
vesical
vesicant
vesicants
vesicate
vesicated
vesicates
vesicating
vesication
vesicatories
vesicatory
vesicle
vesicles
vesicoabdominal
vesicocavernous
vesicocele
vesicocervical
vesicoclysis
vesicofixation
vesicointestinal
vesicoprostatic
vesicopubic
vesicocecal
vesicosigmoid
vesicospinal
vesicotomy
vesicovaginal
vesicula
vesiculae
vesicular
vesicularity
vesicularly
vesiculary
vesiculase
vesiculate
vesiculated
vesiculating
vesiculation
vesicule
vesiculectomy
vesiculiferous
vesiculiform
vesiculigerous
vesiculitis
vesiculobronchial
vesiculocavernous
vesiculopustular
vesiculose
vesiculotomy
vesiculotubular
vesiculotympanic
vesiculotympanitic
vesiculous
vesiculus
vesicupapular
vesigia
veskit
vesp
vespacide
vespal
vesper
vesperal
vesperals
vesperian
vespering
vespers
vespertide
vespertilian
vespertilio
vespertilionid
vespertilionine
vespertinal
vespertine
vespery
vespetro
vespiaries
vespiary
vespid
vespids
vespiform
vespine
vespoid
vespucci
vessel
vessel's
vesseled
vesselful
vesselled
vessels
vesses
vessets
vessicnon
vessignon
vest
vesta
vestal
vestalia
vestally
vestals
vestalship
vestas
vested
vestee
vestees
vester
vestiarian
vestiaries
vestiarium
vestiary
vestible
vestibula
vestibular
vestibulary
vestibulate
vestibule
vestibuled
vestibules
vestibuling
vestibulospinal
vestibulum
vestigal
vestige
vestige's
vestiges
vestigia
vestigial
vestigially
vestigiairy
vestigium
vestiment
vestimental
vestimentary
vesting
vestings
vestiture
vestless
vestlet
vestlike
vestment
vestmental
vestmentary
vestmented
vestments
vestral
vestralization
vestrical
vestries
vestrification
vestrifly
vestry
vestrydom
vestryhood
vestryish
vestryism
vestryize
vestryman
vestrymanly
vestrymanship
vestrymen
vests
vestuary
vestural
vesture
vestured
vesturer
vestures
vesturing
vesuvian
vesuvianite
vesuvians
vesuviate
vesuvin
vesuvite
vesuvius
veszelyite
vet
veta
vetanda
vetch
vetches
vetchier
vetchiest
vetchlike
vetchling
vetchy
veter
veteran
veteran's
veterancy
veteraness
veteranize
veterans
veterinarian
veterinarian's
veterinarianism
veterinarians
veterinaries
veterinary
vetitive
vetivene
vetivenol
vetiver
vetiveria
vetivers
vetivert
vetkousie
veto
vetoed
vetoer
vetoers
vetoes
vetoing
vetoism
vetoist
vetoistic
vetoistical
vets
vetted
vetting
vettura
vetture
vetturino
vetus
vetust
vetusty
veuglaire
veuve
vex
vexable
vexation
vibrances
vibrancies
vibrancy
vibrant
vibrantly
vibrants
vibriphone
vibrphones
vibraphonist
vibrate
vibrated
vibrates
vibratile
vibratility
vibrating
vibratingly
vibration
vibrational
vibrationless
vibrations
vibratiuncle
vibratiunculation
vibrative
vibrato
vibrator
vibrators
vibratory
vibratos
vibrio
vibrioid
vibrion
vibrionic
vibrions
vibrios
vibriosis
vibrissa
vibrissae
vibrissal
vibrograph
vibromassage
vibrometer
vibromotive
vibronic
vibrophone
vibroscope
vibrosopic
vibrotherapeutics
viburnic
viburnin
viburnum
viburnums
vie
vica
vicaire
vicer
vicar
vicarage
vicarages
vicarate
vicarates
vicarchoral
vicaress
vicargeneral
vicarial
vicarian
vicarianism
vicariate
vicariates
vicariateship
vicarii
vicariism
vicarious
vicariously
vicariousness
vicarius
vicarly
vicars
vicarship
vicary
vice
vice's
vicecomes
vicecomital
vicecomites
viceed
vicegerral
vicegerencies
vicegerency
vicegerent
vicegerents
vicegerentship
viceless
vicelike
vicenary
vicennial
viceregal
viceregally
viceregency
viceregent
viceregents
vicereine
viceroies
viceroy
viceroyal
viceroyalty
viceroydom
viceroy
viceroyship
vices
vicesimal
vicety
viceversally
vichies
vichy
vichyssoise
vicianin
vicianose
vicilin
vicinage
vicinages
vicinal
vicine
vicing
vicinities
vicinity
viciosity
vicious
viciously
viciousness
vicissituous
vicissitude
vicissitude's
vicissitudes
vicissitudinary
vicissitudinous
vicissitudinousness
vicoite
vicomte
vicomes
vicomtesse
vicomtesses
vicontiel
vicontiels
victal
videotext
videruff
vidette
videttes
videtur
vidian
vidicon
vidicons
vidimus
vidkid
vidkids
vidonia
vidry
viduage
vidual
vidually
viduate
viduated
viduation
viduine
viduities
viduity
viduous
vidya
vie
vied
vielle
vienna
viennese
vier
vierkleur
vierling
viers
viertel
viertelein
vies
vietcong
vietminh
vietnam
vietnamese
vietnamization
view
viewable
viewably
viewed
viewer
viewers
viewfinder
viewfinders
viewier
viewiest
viewiness
viewing
viewings
viewless
viewlessly
viewlessness
viewly
viewpoint
viewpoint's
viewpoints
viewport
views
viewsome
viewster
viewworthy
viewy
vifda
viga
vigas
vigentennial
vigesimal
vigesimation
vigesimo
vigesimoquarto
vigesimos
viggle
vigia
vigias
vigil
vigilance
vigilancy
vigilant
vigilante
vigilante's
vigilantes
vigilantism
vigilantist
vigilantly
vigilantness
vigilate
vigilation
vigils
vigintiangular
vigintillion
vigintillionth
vincibleness
vincibly
vincristine
vincula
vincular
vinculate
vinculation
vinculo
vinculula
vinculum
vinculums
vindaloo
vindemial
vindemiate
vindemiation
vindemiantory
vindemiamatrix
vindex
vindhyan
vindicability
vindicable
vindicableness
vindicably
vindicate
vindicated
vindicates
vindicating
vindication
vindications
vindicative
vindicatively
vindicativeness
vindicator
vindicatory
vindicatress
vindices
vindict
vindicta
vindictive
vindictively
vindictiveness
vindictivoltage
vindresser
vine
vines
viny
vinyl
vinylacetylene
vinylate
vinylated
vinylating
vinylation
vinylbenzene
vinylene
vinylethylene
vinyl
cvinylidene
vinylite
vinyls
vinyon
viol
viola
violability
violable
violableness
violably
violacean
violaceous
violaceously
violal
violan
violand
violinin
violaquercitrin
violas
violate
violated
violater
violaters
violates
violating
violation
violational
violations
violative
viulator
viulator's
violators
violatory
violature
violence
violences
violency
viosterol
vip
viper
viper's
viperan
viperess
viperfish
viperfishes
viperian
viperid
viperidae
viperiform
viperine
viperish
viperishly
viperlike
viperling
viperoid
viperous
viperously
viperousness
vipers
vpery
vipolitic
vipresident
vips
viqueen
viragin
viraginian
viraginity
viraginous
virago
viragoes
viragoish
viragolike
viragos
viragoship
viral
virally
virason
vire
virelai
virelais
virelay
virelays
virement
viremia
viremias
viremic
virent
vireo
vireonine
vireos
vires
viresent
viresent
virga
virgal
virgas
virgate
virgated
virgater
virgates
vирgation
virge
virger
virgil
virgilia
virgilian
virgin
virgin's
virginal
virginalist
virginality
virginally
virginals
virgineous
virginhead
virginia
virginian
virginiars
virginities
virgnitis
virgnity
virginityship
virginium
virgmlinke
virglnly
virgins
virginship
virgo
virgos
virgouleuse
virgula
virgular
virgularian
virled
virls
viole
viroled
viologic
viological
viologically
viologies
viologist
viologists
viology
viron
virose
viroses
virosis
virous
virtu
virtual
virtualism
virtualist
virtuality
virtualize
virtually
virtue
virtue's
virtued
virtuefy
virtueless
virtuelessness
virtueproof
virtues
virtuless
virtuosa
virtuosas
virtuose
virtuosi
virtuosic
virtuosities
virtuosity
virtuoso
virtuoso's
virtuosos
virtuosoship
virtuous
virtuouslike
virtuously
virtuousness
virtus
virtuti
virtutis
virucidal
virucide
virucides
viruela
virulence
virulences
virulencies
virulence
virulent
virulent
virulent
virulently
virulentness
viruliferous
virus
virus's
virucidal
virucide
virusemic
viruses
viruslike
virustatic
vis
visa
visaed
visage
visaged
visages
visagraph
visaing
visammin
visard
visards
visarga
visas
visayan
viscacha
viscachas
viscera
visceral
visceralgia
visceral
visceralness
viscerate
viscerated
viscerating
viscarnation
visceripericardial
viscerogenic
visceroinhibitory
visceromotor
visceroparietal
visceroperitioneal
visceropleural
visceroptosis
visceroptotic
visceroptotic
viscerosensory
visceroskeletal
viscerosomatic
viscerotomy
viscerotonia
viscerotonic
viscerotrophic
viscerotropic
viscerous
viscid
viscidities
viscidity
viscidize
viscidly
viscidness
viscidulous
viscin
viscoelastic
viscoelasticity
viscid
viscoelastic
viscid
viscolize
viscometer
viscometric
viscometrical
viscometrically
viscometry
viscontal
viscontial
viscoscope
viscos
viscosity
viscosity
viscose
viscoses
viscosimeter
viscosimetric
viscosimetry
viscosities
viscosity
viscount
viscount's
visionless
visionlike
visionmonger
visionproof
visions
visit
visita
visitable
visitador
visitandine
visitant
visitants
visitate
visitation
visitation's
visitational
visitations
visitative
visitor
visitor's
visitoress
visitorial
visitors
visitorship
visitress
visitrix
visits
visive
visne
visney
visnomy
vison
visor
visor's
visored
visoring
visorless
visorlike
visors
vitraillist
vitrain
vitraux
vitreal
vitrean
vitrella
vitremyte
vitreodental
vitreodentine
vitreoelectric
vitreosity
vitreous
vitreouslike
vitreously
vitreousness
vitrescence
vitrescency
vitrescent
vitrescibility
vitrescible
vitreum
vitrinal
vitric
vitrics
vitrification
vitrifacture
vitrifiability
vitrifiable
vitrificate
vitrification
vitrified
vitrifies
vitriform
vitrify
vitrifying
vitrine
vitrines
vitrinoid
vitril
vitrilolate
vitrilated
vitrilating
vitrilation
vitriloled
vitrilic
vitrilocally
vitriline
vitrioling
vitriolizable
vitriolization
vitriolize
vitriolized
vitriolizer
vitriolizing
vitriolled
vitriolling
vitriols
vitrite
vitro
vitrobasalt
vitrophyre
vitrophyric
vitrotype
vitrous
vitrum
vitruvian
vitry
vitta
vittae
vittate
vittle
vittled
vittles
vittling
vitular
vitalary
vituline
vituper
vituperable
vituperance
vituperate
vituperated
vituperates
vituperating
vituperation
vituperations
vituperatiou
vituperative
vituperatively
vituperator
vituperatory
vituperious
vituperous
vitupery
viuva
viva
vivace
vivacious
vivaciously
vivaciousness
vivacissimo
vivacities
vivacity
vivamente
vivandi
vivandier
vivandiere
vivandieres
vivandire
vivant
vivants
vivaria
vivaries
vivariia
vivariums
vivarium
vivariums
vivarvaria
vivary
vivas
vivat
vivax
vivda
vive
vively
vivency
vivendi
viver
viverra
viverrid
viverrids
viverriform
viverrine
vivers
vives
viveur
vivian
vivianite
vivicremation
vivid
vivider
vividest
vividialysis
vividiffusion
vividissection
vividity
vividly
vividness
vivific
vivifical
vivificant
vivificate
vivificated
vivificating
vivification
vivificative
vivificator
vivified
vivifier
vivifiers
vivifies
vivify
vivifying
vivipara
viviparism
viviparities
viviparity
viviparous
viviparously
viviparousness
vivipary
viviperfuse
vivisect
vivisected
vivisectible
vivisecting
vivisection
vivisectional
vivisectionally
vivisectionist
vivisectionists
vivisective
vivisector
vivisectorium
vivisects
vivisepulture
vivo
vivos
vivre
vivres
vixen
vixenish
vocationalism
vocationalist
vocationalization
vocationalize
vocationally
vocations
vocative
vocatively
vocatives
voce
voices
vochysiaceous
vocicultural
vociférance
vociferanced
vociferancing
vociferant
vociferate
vociferated
vociferates
vociferating
vociferation
vociferations
vociferative
vociferator
vociferize
vociferosity
vociferous
vociferously
vociferousness
vocification
vocimotor
vocoder
vocoders
vocoid
vocular
vocule
voder
vodka
vokas
vodum
vodums
vodun
voie
voes
voet
voeten
voetganger
volcan
volcanian
volcanic
volcanically
volcanicity
volcanics
volcanism
volcanist
volcanite
volcanity
volcanize
volcanized
volcanizing
volcano
volcano’s
volcanoes
volcanoid
volcanoidism
volcanologic
volcanological
volcanologist
volcanologists
volcanologize
volcanology
volcanos
vole
voled
volemite
volemitol
volency
volens
volent
volente
volenti
volently
voleries
volery
voles
volet
volga
volhynite
voling
volipresence
volipresent
volitant
volitate
volitation
vortexes
vortical
vortically
vortical
vortically
vorticel
vorticella
vorticellae
vorticellulas
vorticellid
vorticellum
vortices
vortical
vorticity
vorticism
vorticist
vorticities
vorticity
vorticose
vorticously
vorticular
vorticularly
vortiginous
vota
votable
votal
votally
votaress
votaresses
votaries
votarist
votarists
votary
votation
vote
voteable
voted
voteen
voteless
voter
voters
votes
voting
votist
votive
votively
votiveness
votograph
votometer
votress
votresses
vouch
vouchable
vouched
vouchee
vouchees
voucher
voucherable
vouchered
voucheress
vouchering
vouchers
vouches
vouching
vouchment
vouchor
vouchsafe
vouchsafed
vouchsafement
vouchsafes
vouchsafing
vouge
voulge
voussoir
voussoirs
voust
vouster
vousty
vow
vowed
vowel
vowel's
vowelisation
vowelish
vowelism
vowelist
vowelization
vowelize
vowelized
vowelizes
vowelizing
vowelled
vowelless
vowellessness
vowellike
vowellly
vowels
vowely
vower
vowers
vowess
vowing
vowless
vowmaker
vowmaking
vows
vowson
vox
voyage
voyageable
voyaged
voyager
voyagers
voyages
voyageur
voyageurs
voyaging
voyagings
voyance
voyeur
voyeurism
voyeuristic
voyeuristically
voyeurs
voyeuse
voyeuses
vp
vr
vraic
vraicker
vraicking
vraisemblance
vrbait
vriddhi
vril
vrille
vrilled
vrilling
vrocht
vroom
vroomed
vrooming
vrooms
vrother
vrouw
vulgarisation
vulgarise
vulgarised
vulgariser
vulgarish
vulgarising
vulgarism
vulgarisms
vulgarist
vulgarities
vulgarity
vulgarization
vulgarizations
vulgarize
vulgarized
vulgarizer
vulgarizers
vulgarizes
vulgarizing
vulgarlike
vulgarly
vulgarness
vulgars
vulgarwise
vulgate
vulgates
vulgo
vulgus
vulguses
vuln
vulned
vulnerabilities
vulnerability
vulnerable
vulnerableness
vulnerably
vulneral
vulneraries
vulnerary
vulnerate
vulneration
vulnerative
vulnerose
vulnific
vulnifical
vulnose
vulpanse
vulpecide
wadsettled
wadsetter
wadsetting
wady
wae
waefu
waeful
waeg
waeness
waenesses
waer
waes
waesome
waesuck
waesucks
waf
wafer
wafer's
wafered
waferer
wafering
waferish
waferlike
wafermaker
wafermaking
wafers
waferwoman
waferwork
wafery
waff
waffed
waffie
waffles
waffing
waffle
waffle's
waffled
waffles
wafflike
waffling
waffly
waffness
waffs
wafflib
waft
waftage
waftages
wafted
walies
caling
alk
akable
alkabout
alkaway
alkaways
alked
alkene
alker
alkerite
alkers
alkie
alking
alkings
alkingstick
alkist
alkmill
alkmiller
alkout
alkouts
alkover
alkovers
alkrife
alks
alkside
alksman
alksmen
alkup
alkups
alkway
alkways
alkyrie
alkyries
all
alla
allaba
allabies
allaby
allago
allah
allahs
allaroo
allaroos
allas
allbird
allboard
alled
waller
wallerian
wallet
wallet's
walletful
wallets
walleye
walleyed
walleyes
wallflower
wallflowers
wallful
wallhick
wallie
wallet
wallies
walling
wallise
wallless
wallman
walloch
walloon
wallop
walloped
walloper
wallopers
walloping
wallops
wallow
wallowed
wallower
wallowers
wallowing
wallowish
wallowishly
wallowishness
wallows
wallpaper
wallpapered
wallpapering
wallpapers
wallpiece
walls
wallsend
wallwise
wallwork
wallwort
wally
wallydrag
wallydraigle
walnut
walnut's
walnuts
walpurgite
walrus
walrus's
walruses
walsh
walspere
walt
walter
walth
waltonian
waltron
waltrot
walty
waltz
waltzed
waltzer
waltzers
waltzes
waltzing
waltzlike
waly
walycoat
wamara
wambais
wamble
wambled
wambles
wamblier
wambliest
wambliness
wambling
wambilngly
wambly
wame
wamefou
wamefous
wamefu
wameful
wameful
wamefuls
wamel
wames
wamfle
wammikin
warbly
warbonnet
warch
warchcraft
warchcrafts
ward
wardable
wardage
wardapet
wardatour
warday
wardcors
warded
warden
wardency
wardenries
wardenary
wardens
wardenship
warder
warderer
warders
wardership
wardholding
wardian
warding
wardite
wardless
wardlike
wardmaid
wardman
wardmen
wardmote
wardress
wardresses
wardrobe
wardrobe's
wardrober
wardrobes
wardroom
wardrooms
wards
wardship
wardships
wardsmaid
wardsman
wardswoman
wardwite
wartime
wartimes
wartiness
wartless
wartlet
wartlike
wartproof
warts
wartweed
wartwort
warty
wartyback
warve
warwards
warwickite
warwolf
warwork
warworker
warworks
warworn
wary
warytree
was
wasabi
wase
wasel
wash
washability
washable
washableness
washaway
washbasin
washbasins
washbasket
washboard
washboards
washbowl
washbowls
washbrew
washcloth
washcloths
washday
washdays
washdish
washdown
washed
washed
washer
washerless
washerwoman
washerwomen
washery
washeryman
washerymen
washes
washhand
washhouse
wahier
washiest
washin
washiness
washing
washings
washington
washingtonian
washingtonians
washland
washleather
washmaid
washman
washmen
washoff
washout
washouts
washpot
washproof
washrag
washrags
washroad
washroom
washrooms
washshed
washstand
washstands
washtail
washtray
washtrough
washtub
washtubs
washtub
washup
washway
wastelands
wastelbred
wasteless
wastelot
wastelots
wastely
wasteman
wastemen
wastement
wasteness
wastepaper
wastepile
wasteproof
waster
wasterful
wasterfully
wasterfulness
wasterie
wasteries
wastern
wasters
wastery
wastes
wastethrift
wastewater
wasteway
wasteways
wastewer
wasteword
wasteyard
wastier
wastiest
wastine
wasting
wastingly
wastingness
wastland
wastme
wastrel
wastrels
wastrie
wastries
wastrife
wastry
wasts
wasty
wat
watap
watape
watapeh
watapes
wataps
watch
watchable
watchband
watchbands
watchbill
watchboat
watchcase
watchcries
watchcry
watchdog
watchdogged
watchdogging
watchdogs
watched
watcher
watchers
watches
watchet
watcheye
watcheyes
watchfire
watchfree
watchful
watchfully
watchfulness
watchglass
watchglassful
watchhouse
watching
watchingly
watchings
watchkeeper
watchless
watchlessness
watchmake
watchmaker
watchmakers
watchmaking
watchman
watchmanly
watchmanship
watchmate
watchmen
watchment
waterlilies
waterlily
waterlily
waterline
waterlocked
waterlog
waterlogged
waterloggedness
waterlogger
waterlogging
waterlogs
waterloo
waterloos
watermain
waterman
watermanship
watermark
watermarked
watermarking
watermarks
watermaster
watermelon
watermelons
watermen
watermonger
waterphone
waterpit
waterplane
waterpot
waterpower
waterproof
waterproofed
waterproofer
waterproofing
waterproofness
waterproofs
waterquake
waterrug
waters
waterscape
watershake
watershed
watersheds
watershoot
watershit
waterside
watersider
waterskier
waterskiing
waterskin
watersmeet
watersoaked
waterspout
waterspouts
waterstead
waterstoup
watertight
watertightal
watertightness
waterwall
waterward
waterwards
waterway
waterway's
waterways
waterweed
waterwheel
waterwise
waterwoman
waterwood
waterwork
waterworker
waterworks
waterworm
waterworn
waterwort
waterworthy
watery
watfiv
wath
wather
wathstead
wats
watson
watt
wattage
wattages
wattape
wattapes
watteau
watter
wattest
watthour
watthours
watthois
wattle
wattlebird
wattleboy
wattled
wattles
wattless
wattlework
wattling
wattman
wattmen
wattmeter
watts
wattsecond
waubeen
wauble
wauch
wauchle
waucht
wauchted
wauchting
wauchs
wauf
waufie
waugh
waught
waughted
waughting
waughts
waughy
wauk
wauked
wauken
wauking
waukit
waukrite
wauks
waul
wauled
wauling
wauls
waumle
wauner
wauns
waup
waur
wauregan
wauve
wavable
wavably
waxplant
waxplants
waxweed
waxweeds
waxwing
waxwings
waxwork
waxworker
waxworking
waxworks
waxworm
waxworms
waxy
way
way's
wayaka
wayang
wayback
wayberry
waybill
waybills
waybird
waybook
waybread
waybung
wayfare
wayfarer
wayfarers
wayfaring
wayfaringly
wayfarings
wayfellow
waygang
waygate
waygoer
waygoing
waygoings
waygone
waygoose
wayhouse
waying
waylaid
waylaidless
wayland
waylay
waylayer
waylayers
waylaying
waylays
wayleave
wayless
waymaker
wayman
waymark
waymate
waymen
wayment
wayne
waypost
ways
wayside
waysider
waysides
waysiding
waythorn
wayward
waywarden
waywardly
waywardness
waywiser
waywode
waywodeship
wayworn
waywort
wayzgoose
wazir
wazirate
wazirship
wb
wc
wd
we
we'd
we'll
we're
we've
weak
weakbrained
weaken
weakened
weakener
weakeners
weakening
weakens
weaker
weakest
weakfish
weakfishes
weakhanded
weakhearted
weakheartedly
weakheartedness
weakish
weakishly
weakishness
weaklier
weakliest
weakliness
weakling
weaklings
weakly
weakmouthed
weakness
weakness's
weaknesses
weaky
weal
weald
wealden
wealdish
wealds
wealdsman
wealdsmen
wealful
weals
wealsman
wealsome
wealth
wealthful
wealthfully
wealthier
wealthiest
wealthily
wealthiness
wealthless
wealthmaker
wealthmaking
wealthmonger
wealths
wealthy
weam
wean
weanable
weaned
wearlessly
wearily
weariness
wearing
wearingly
wearish
wearishly
wearishness
wearisome
wearisomely
wearisomeness
wearproof
wears
weary
wearying
wearyingly
weasand
weasands
weasel
weasel's
weaseled
weaselfish
weaseling
weasellike
weaselly
weasels
weaselship
weaselskin
weaselsnout
weaselwise
weaser
weason
weasons
weather
weatherability
weatherbeaten
weatherboard
weatherboarding
weatherbound
weatherbreak
weathercast
weathercock
weathercock's
weathercockish
weathercockism
weathercocks
weathercocky
weathered
weatherer
weatherfish
weatherfishes
weatherglass
weatherglasses
weathergleam
weatherhead
weatherheaded
weathering
weatherize
weatherliness
weatherly
weathermaker
weathermaking
weatherman
weathermen
weathermost
weatherologist
weatherology
weatherproof
weatherproofed
weatherproofing
weatherproofness
weatherproofs
weathers
weathersick
weatherstrip
weatherstripped
weatherstrippers
weatherstripping
weatherstrips
weathertight
weathertightness
weatherward
weatherwise
weatherworn
weatherly
weatings
weavable
weave
weaveable
weaved
weavement
weaver
weaver's
weaverbird
weaveress
weavers
weedery
weedful
weedhook
weedicide
weedier
weediest
weedily
weediness
weeding
weedingtime
weedish
weedkiller
weedless
weedlike
weedling
weedow
weedproof
weeds
weedy
week
weekday
weekdays
weekend
weekend's
weekended
weekender
weekending
weekends
weeklies
weekling
weeklong
weekly
weeknight
weeknights
weeks
weekwam
weel
weelfard
weelfaured
weem
weemen
ween
weendigo
weened
weeness
weenie
weenier
weenies
weighmaster
weighmen
weighment
weighs
weighshaft
weight
weightchaser
weighted
weightedly
weightedness
weighter
weighters
weightier
weightiest
weightily
weightiness
weighting
weightings
weightless
weightlessly
weightlessness
weightlifer
weightlifting
weightometer
weights
weightwith
weighty
weilang
weimaraner
weinbergerite
weiner
weiners
weinschenkite
weir
weirangle
weird
weirder
weirdest
weirdful
weirdie
weirdies
weirdish
weirdless
weirdlessness
weirdlike
weirdliness
weirdly
weirdness
weirdo
weirdoes
weirdos
weirds
weirdsome
weirdward
weirdwoman
weirdwomen
weirdy
weiring
weirless
weirs
weisbachite
weiselbergite
weisenheimer
weism
weismannian
weismannism
weissite
wejack
weka
wekas
wekau
wekeen
weki
welch
welched
welcher
welchers
welches
welching
welcome
welcomed
welcomeless
welcomely
welcomeness
welcomer
welcomers
welcomes
welcoming
welcomingly
weld
weldability
weldable
welded
welder
welders
welding
weldless
weldment
weldments
weldor
weldors
welds
welfare
welfares
welfaring
welfarism
welfarist
welfaristic
weli
welk
welkin
welkinlike
welkins
well
wellacquainted
welladay
welladays
welladvised
wellaffected
wellat
wellaway
wellaways
wellbeing
wellborn
wellbred
wellchosen
wellconnected
wellcontent
welcurb
welcurbs
weldecked
welldoer
welldoers
welldoing
welldone
welled
weller
welleresque
wellerism
wellfound
wellfounded
wellhead
wellheads
wellhole
whanging
whangs
whank
whap
whapped
whapper
whappers
whappet
whapping
whaps
whapuka
whapukee
whapuku
whar
whare
whareer
wharf
wharfage
wharfages
wharfe
wharfed
wharfhead
wharfholder
wharfie
wharfing
wharfinger
wharfingers
wharfland
wharfless
wharfman
wharfmaster
wharfmen
wharfrae
wharfs
wharfside
wharl
wharp
wharrow
wharry
whart
whartonian
wharve
wharves
whase
whasle
what
what'd
what'll
what're
what's
what've
whata
whatabouts
whatchy
whatd
whate'er
whatever
whatkin
whatlike
whatman
whatna
whatness
whatnot
whatnots
whatre
whatreck
whats
whatsis
whatso
whatsoe'er
whatsoe'er
whatsoever
whatsoever
whatsomever
whatten
whatzit
whau
whauk
whaup
whaups
whaur
whauve
wheat
whealed
whealing
wheals
whealworm
whealy
wheam
wheat
wheatbird
wheatear
wheateared
wheatears
wheaten
wheatflakes
wheatgrass
wheeling
wheelingly
wheelings
wheelless
wheellike
wheelmaker
wheelmaking
wheelman
wheelmen
wheelrace
wheelroad
wheels
wheelsman
wheelsmen
wheelsmith
wheelspin
wheelswarf
wheelway
wheelwise
wheelwork
wheelworks
wheelwright
wheelwrighting
wheelwrights
wheely
wheem
wheel
wheelcat
wheenge
wheens
wheep
wheeped
wheeping
wheele
wheepled
wheeples
wheeping
wheeps
wheer
wheerikins
wheesht
wheetle
wheeze
wheezed
wheezer
wheezers
wheezes
wheezier
wheresomever
wherethrough
wheretill
whereto
wheretoever
wheretossoever
whereunder
whereuntil
whereunto
whereup
whereupon
wherever
wherewith
wherewithal
wheret
wherried
wherries
wherrit
wherry
wherrying
wherryman
wherve
wherves
whesten
whet
whether
whetile
whetrock
whets
whetstone
whetstones
whetted
whetter
whetters
whetting
whew
whewellite
whewer
whewl
whews
whewt
whey
wheybeard
wheybird
wheyey
wheyeyness
wheyface
wheyfaced
whiffingly
whiffs
whiffy
whift
whig
whiggamore
whigged
whiggery
whigging
whiggism
whigmaerie
whigmaeries
whigmaery
whigmaerie
whigmaleerie
whigs
whigship
whikerby
while
whileas
whiled
whileen
whilend
whilere
whiles
whiley
whilie
whiling
whilk
whill
whillaballoo
whillaloo
whillikers
whillikins
whilliliew
whilly
whillywha
whilock
whilom
whils
whilst
whilter
whim
whim's
whimberry
whimble
whimbrel
whimbrels
whimling
whimmed
whimmier
whimmiest
whimming
whimmy
whimper
whimpered
whimperer
whimpering
whimperingly
whimpers
whims
whimsey
whimseys
whimsic
whimsical
whimsicalities
whimsicality
whimsically
whimsicalness
whimsied
whimsies
whimstone
whimsy
whimsy's
whimwham
whimwhams
whin
whinberries
whinberry
whinchacker
whinchat
whinchars
whincheck
whincow
whindle
whine
whined
whiner
whiners
whines
whinestone
whiney
whing
whinge
whinger
whinier
whiniest
whippersnappers
whippertail
whippet
whippeter
whippets
whippier
whippiest
whippiness
whipping
whipping's
whippingly
whippings
whippletree
whippoorwill
whippoorwills
whippost
whippowill
whippy
whipray
whiprays
whips
whipsaw
whipsawed
whipsawing
whipsawn
whipsaws
whipsawyer
whipship
whipsocket
whipstaff
whipstaffs
whipstalk
whipstall
whipstaves
whipster
whipstick
whipstitch
whipstitching
whipstock
whipt
whiptail
whiptails
whiptree
whipwise
whipworm
whipworms
whir
whirken
whirl
whirlabout
whirlbat
whirlblast
whirlbone
whirlbrain
whirled
whirler
whirlers
whirley
whirlgig
whirlicane
whirlicote
whirler
whirlies
whirliest
whirligig
whirligigs
whirlimagig
whirling
whirlingly
whirlmagee
whirlpit
whirlpool
whirlpool's
whirlpools
whirlpuff
whirls
whirlwig
whirlwind
whirtwindish
whirlwinds
whirlwindy
whirly
whirlybird
whirlybirds
whirlygigum
whirr
whirred
whirret
whirrey
whirrick
whirried
whirries
whirring
whirroo
whirrs
whirry
whisperingly
whisperingness
whisperings
whisperless
whisperous
whisperously
whisperproof
whispers
whispery
whiss
whissle
whist
whisted
whister
whisterpoop
whisting
whistle
whistleable
whistlebelly
whistled
whistlefish
whistlefishes
whistlelike
whistler
whisterism
whisters
whistles
whistlewing
whistlewood
whistlelike
whistling
whistlingly
whistly
whistness
whists
whit
whitblow
white
whiteacre
whiteback
whitebait
whitebark
whitebeam
whitebeard
whitebelly
whitebelt
whiteberry
whitebill
whizzed
whizzer
whizzerman
whizzers
whizzes
whizziness
whizzing
whizzingly
whizzle
who
who'd
who'll
who're
who's
who've
whoa
whod
whodunit
whodunits
whodunnit
whoever
whoever's
whole
wholefood
wholehearted
wholeheartedly
wholeheartedness
wholely
wholemeal
wholeness
wholes
wholesale
wholesaled
wholesaley
wholesaleness
wholesaler
wholesalers
wholesales
wholesaling
wholesome
wholesomely
wholesomeness
wholesomer
wholesomest
wholetone
wholewheat
wholewise
wholism
widdles
widdling
widdrim
widdy
wide
wideawake
wideband
widegab
widegap
widehearted
widely
widemouthed
widen
widened
widener
wideners
wideness
widenesses
widening
widens
wider
widershins
wides
widespread
widespreadedly
widespreading
widespreadly
widespreadness
widest
widewhere
widework
widgeon
widgeons
widget
widgets
widgie
widish
widorror
widow
widowed
widower
widowered
widowerhood
widowers
widowership
widowery
widowhood
widowing
wifelessness
wifelet
wifelier
wifeliest
wifelike
wifeliness
wifeling
wifelkin
wifely
wifes
wifeship
wifething
wifeward
wifie
wifiekie
wifing
wifish
wifock
wig
wig's
wigan
wigans
wigdom
wigelng
wigeon
wigeons
wigful
wigged
wiggen
wigger
wiggeries
wiggery
wigging
wiggings
wiggish
wiggishness
wiggism
wiggle
wiggled
wiggler
wigglers
wiggles
wigglier
wiggliest
wiggling
wiggly
wiggy
wigher
wilderness
wildernesses
wilders
wildest
wildfire
wildfires
wildflower
wildflowers
wildfowl
wildfowler
wildfowling
wildfowls
wildgrave
wilding
wildings
wildish
wildishly
wildishness
wildlife
wildlike
wildling
wildlings
wildly
wildness
wildnesses
wilds
wilsome
wildtype
wildwind
wildwood
wildwoods
wile
wiled
wileful
wileless
wileproof
wiles
wilful
wilfully
wilfulness
wilga
wilgers
wilier
wiliest
wilily
wiliness
wilinesses
wiling
wiliwili
wilk
wilkeite
wilkin
will
willable
willawa
willble
willed
willedness
willemite
willer
willers
willes
willet
willets
willey
willeyer
willful
willfully
willfulness
willi
william
williamite
williams
williamsite
williche
willie
willied
willier
willies
williewaucht
willing
willinger
willingest
willinghearted
willinghood
willingly
willingness
williwa
williwaus
williwa
williwa
williwa
williwa
willmaker
willmaking
willness
willock
willow
willow's
willowbiter
willowed
willower
willowers
willowerherb
willowerier
willoweriest
willoweriness
willowing
willowish
willowlike
willows
willowware
willowweed
willowworm
willowwort
willowy
willpower
wills
willy
willyard
willyart
willyer
willying
willywaw
willywaws
wilning
wilrone
wilroun
wilsome
wilsomely
wilsomeness
wilson
wilsonian
wilt
wilted
wilter
wilting
wilton
wiltproof
wils
wiltshire
wily
wilycoat
wim
wimberry
wimble
wimbled
wimblelike
wimbles
winbling
wimbrel
wime
wimick
wimlunge
wimple
wimples
wimping
wimpered
wimpler
wimplerlike
wimplerless
wimplerlike
wimples
wimpling
win
winare
winberry
winbrow
wince
winced
wincer
wincers
winces
wincey
winceyette
winceys
winch
winched
wincher
winchers
winches
winchester
winching
winchman
winchmen
wincing
wincingly
wincopipe
wind
windable
windage
windages
windas
windbag
windbagged
windbaggery
windbags
windball
windberry
windbibber
windblast
windblown
windboat
windbore
windbound
windbracing
windbreak
windbreaker
windbreaks
windbroach
windburn
windburned
windburning
windburns
windburnt
windcatcher
windcheater
windchest
windchill
windclothes
windcuffer
winddog
winded
windedly
windedness
windel
winder
windermost
winders
windfall
windfallen
windfalls
windfanner
windfirm
windfish
windfishes
windflaw
windflaws
windflower
windflowers
windgall
windgalled
windgalls
windhole
windhover
windier
windiest
windigo
windigos
windill
windily
windiness
winding
windingly
windingness
windings
windjam
windjammer
windjammers
windjamming
windlass
windlassed
windlasser
windlasses
windlassing
windle
windled
windles
windless
windlessly
windlessness
windlestrae
windlestraw
windlike
windlin
windling
windlings
windmill
windmill's
windmilled
windmilling
windmills
windnilly
windock
windore
window
window's
windowed
windowful
windowing
windowless
windowlessness
windowlet
windstream
windsucker
windsurf
windswept
windtight
windup
windups
windward
windwardly
windwardmost
windwardness
windwards
windway
windways
windwayward
windwaywardly
windy
windz
wine
wineball
wineberries
wineberry
winebibber
winebibbery
winebibbing
wineconner
wined
winedraf
wineglass
wineglasses
wineglassful
wineglassfuls
winegrower
winegrowing
winehouse
wineier
wineiest
wineless
winelike
winemake
winemaker
winemaking
winemaster
winemay
winepot
winepress
winepresser
winer
wineries
winers
inery
ines
ineshop
ineshops
ineskin
ineskins
inesop
inesops
inetaster
inetasting
inetree
ievat
vey
eyard
infree
iful
ing
igable
igate
ingback
ingbacks
ingbeat
ingbow
ingbows
ingcut
ingding
ingdings
inged
igedly
igedness
inger
ingers
igfish
igfishes
ighamanded
igier
igiest
iging
igle
igless
iglessness
iglet
iglets
iglike
igman
igmanship
wingmen
wingover
wingovers
wingpiece
wingpost
wings
wingseed
wingspan
wingspans
wingspread
wingspreads
wingstem
wingtip
wingy
winier
winiest
wining
winish
wink
winked
winkel
winkelman
winker
winkered
winkers
winking
winkingly
winkle
winkled
winklehawk
winklehole
winkles
winklet
winkling
winklot
winks
winless
winlestrae
winly
winna
winnable
winnard
winned
winnel
winnelstrae
winner
winner's
winners
winning
winningly
winningness
winnings
winninish
winnipeg
winnle
winnock
winnocks
winnonish
winnow
winnowed
winnower
winnowers
winnowing
winnowingly
winnows
wino
winoes
wins
winslow
winsome
winsomely
winsomeness
winsomer
winsomest
winster
wint
winter
winterage
winterberry
winterbloom
winterbound
winterbourne
wintercreeper
winterdykes
wintered
winterer
winterers
winterfed
winterfeed
winterfeeding
winterffed
wintergreen
wintergreens
winterhain
winterier
winteriest
wintering
winterish
winterishly
winterishness
winterization
winterize
winterized
winterizes
winterizing
winterkill
winterkilled
winterkilling
winterkills
winterless
winterlike
winterliness
winterling
winterly
winterproof
winters
wintersome
wintertide
wintertime
winterward
winterwards
winterweed
winterweight
wintery
wintle
wintled
wintles
wintling
wintrier
wintriest
wintrify
wintrily
wintriness
wintrish
wintrous
wintry
winy
winze
winzeman
winzemen
winzes
wistened
wister
wisteria
wisterias
wistful
wistfully
wistfulness
wisting
wistit
wistiti
wistless
wistlessness
wistly
wistonwish
wists
wisure
wit
wit's
witan
witch
witchbells
witchbroom
witchcraft
witched
witchedly
witchen
witcher
witchercully
witcheries
witchering
witchery
witches
witchet
witchetty
witchgrass
witchhood
witchier
witchiest
witching
witchingly
witchings
witchleaf
witchlike
witchman
witchmonger
witchuck
witchweed
witchwife
witchwoman
witchwood
witchwork
witchy
witcraft
wite
wited
witeless
witen
witenagemot
witenagemote
witepenny
witereden
wites
witess
witful
with
withal
witham
withamite
withbeg
withcall
withdaw
withdraught
withdraw
withdrawable
withdrawal
withdrawal's
withdrawals
withdrawer
withdrawning
withdrawningness
withdrawment
withdrawn
withdrawnness
withdraws
withdrawn
withe
withed
withen
wither
witherband
witherbrench
withercraft
witherdeed
withered
witheredly
witheredness
without
withoutdoors
withouten
withoutforth
withouts
withoutside
withoutwards
withsave
withsaw
withsay
withsayer
withset
withslip
withspar
withstand
withstander
withstanding
withstandingness
withstands
withstay
withstood
withstrain
withtake
withtee
withturn
withvine
withwind
withy
withhypot
withywind
witing
witjar
witless
witlessly
witlessness
witlet
witling
witlings
witloof
witloofs
witloosen
witmonger
witness
witnessable
witnessdom
witnessed
witnesser
witnessers
witnesses
witnesseth
witnessing
witney
witn terse
wit neys
wits
wits safe
wits hip
wittal
wittal all
wit tawer
wit teboom
witted
witted ness
witten
witer
wittering
witterly
witterness
witticaster
wittichenite
witivitym
wictim
witicize
wittier
wittiest
wittified
wittily
wittiness
witting
wittingie
wittingly
wittings
wittol
wittolly
wittols
wittome
witty
wit wall
wit wanton
wit word
wit worm
witzchoura
wive
wived
wiver
wivern
wiverns
wivers
wives
wiving
wiwi
wiz
wizard
wizard's
wizardess
wizardism
wizardlike
wizardly
wizardries
wizardry
wizards
wizardship
wizen
wizened
wizenedness
wizening
wizens
wizes
wizier
wizzen
wizzens
wjc
wk
wkly
wl
wlafful
wlatsome
wleeche
wlench
wlity
wloka
wlonkhede
wm
wmk
wo
woa
woad
woaded
woader
woadman
woads
woadwax
woadwaxen
woadwaxes
womanhead
womanhearted
womanhood
womanhouse
womaning
womanise
womanised
womanises
womanish
womanishly
womanishness
womanising
womanism
womanist
womanity
womanization
womanize
womanized
womanizer
womanizers
womanizes
womanizing
womankind
womanless
womanlier
womanliest
womanlihood
womanlike
womanlikeness
womanliness
womanly
womanmuckle
womanness
womanpost
womanpower
womanproof
womans
womanship
womanways
womanwise
womb
womb's
wombat
wombats
wombed
wombier
wombiest
womble
wombs
tomb
tombside
tombstone
tombby
tomn

tomen's
tomenfolk
tomenfolks
tomenkind
tomenwear
tomera
tomeraah
tomer
tomeram
tommar
tommarah
tommaral
tommaras
tommp
tomplit
tomn
tomn't
tomner
tomnerberries
tomnerberry
tomnerbright
tomnercraft
tomnerdeed
tomnered
tomnerer
tomnerers
tomnerful
ntomnerfuller
tomnerfully
tomnerfulness
tomneraching
tomneringly
tomnerland
tomnerlandish
tomnerlands
tomnerless
tomnerlessness
tomnerment
tomnermonger
tomnermongering
tomner

tomners
tomnersmith
tomnersome
woodlots
woodlouse
woodly
woodmaid
woodman
woodmancraft
woodmanship
woodmen
woodmonger
woodnote
woodness
woodnote
woodnotes
woofoo
woodpeck
woodpecker
woodpecker's
woodpeckers
woodpenny
woodpile
woodpiles
woodprint
woodranger
woodreed
woodreeve
woodrick
woodrime
woodris
woodrock
woodroof
woodrow
woodrowel
woodruff
woodruffs
woodrush
woods
woodscrew
woodsere
woodshed
woodshedde
woodshedded
woodsheddi
woodshedding
woodsheds
woodship
woodshock
woodshop
woodsia
woodsiest
woodsilver
woodskin
woodsman
woodsman
woodsman
woodsman
woodsman
woodsorrel
woodspite
woodstone
woody
woodturner
woodturning
woodwale
woodwall
woodward
woodwardship
woodware
woodwax
woodwaxen
woodwaxes
woodwind
woodwinds
woodwise
woodwork
woodworker
woodworking
woodworks
woodworm
woodworms
woodwose
woodwright
woody
woodyard
wooed
wooeer
woooers
woof
woofed
woofell
woofeer
woofers
woofing
woofs
woofy
woohoo
wooing
wools
woolsack
woolsacks
woolsaw
woolsey
woolshearer
woolshearing
woolshears
woolshed
woolsheds
woolskin
woolskins
woolsorter
woolsorting
woolsower
woolstapling
woolstock
woolulose
woolward
woolwasher
woolweed
woolwheel
woolwich
woolwinder
woolwork
woolworker
woolworking
woolworth
wooly
woom
woomer
woomera
woomerah
woomerang
woomeras
woomp
woomping
woon
woons
woops
woorali
wooralis
woorari
wooraris
woordbook
woos
woosh
wooshed
wooshes
wooshing
wooster
woozier
wooziest
woozily
wooziness
woozle
woozy
wop
woppish
wops
wopsy
worable
word
word's
wordable
wordably
wordage
wordages
wordbook
wordbooks
wordbreak
wordbuilding
wordcraft
wordcraftsman
worded
worder
wordhoard
wordier
wordiers
wordiest
wordily
wordiness
wording
wordings
wordish
wordishly
wordishness
wordle
wordlength
wordless
wordlessly
wordlessness
wordlier
worldliness
worldling
worldlings
worldly
worldmaker
worldmaking
worldman
worldproof
worldquake
worlds
worldward
worldwards
worldway
worldwide
worldwideness
worldly
worm
wormcast
wormed
wormer
wormers
wormfish
wormfishes
wormgear
wormhole
wormholed
wormholes
wormhood
wormian
wormier
wormiest
wormil
wormils
worminess
worming
wormish
wormless
wormlike
wormling
wormproof
wormroot
wormroots
worms
wormseed
wormseeds
wormship
wormweed
wormwood
wormwoods
wormy
worn
wornil
wornness
wornnesses
wornout
worral
worrel
worriable
worricow
worricow
worried
worriedly
worriedness
worrier
worriers
worries
woriless
worriment
worriments
worrisome
worrisomely
worrisomeness
worrit
worrited
worriter
worriting
worrits
worry
worrying
worryingly
worryproof
worrywart
worrywarts
worrywort
worse
worsement
worsen
worsened
worseness
worsening
worsens
worser
worserment
worses
worset
worsets
wortle
worts
wortworm
wos
wosbird
wosith
wosome
wost
wostteth
wot
vote
wotlink
wots
wotted
wottest
wotteth
wotting
woubit
wouch
wouf
wough
wouhleche
would
wouldest
woulding
wouldn
wouldn't
wouldnt
wouldst
woulfe
wound
woundability
woundable
woundableness
wounded
woundedly
wonder
woundily
wounding
woundingly
woundless
woundly
wounds
woundwort
woundworth
woundy
wourali
wourari
wranglers
wranglership
wrangles
wranglesome
wrangling
wranglingly
wrangs
wrannock
wranny
wrap
wrap's
wraparound
wrapparounds
wraple
wrappage
wrapped
wrapper
wrapper's
wrapperer
wrappering
wrappers
wrapping
wrappings
wrappascal
wraptop
wraps
wrapt
wrapup
wrasse
wrasses
wrast
wrastle
wrastled
wrastler
wrastles
wrastling
wratak
wrath
wrathed
wrathful
wrathfully
wrathfulness
wrathier
wrathiest
wrathily
wrathiness
wrathing
wrathless
wrinkly
wrist
wrist's
wristband
wristbands
wristbone
wristdrop
wristed
wrister
wristfall
wristier
wristiest
wristikin
wristlet
wristlets
wristlock
wrists
wristwatch
wristwatch's
wristwatches
wristwork
wristy
writ
writ's
writability
writable
wratation
writative
write
writeable
writee
writeoff
writeoffs
writer
writer's
writeress
writerling
writers
writership
writes
writeup
writeups
whel
whelth
whelthed
whelthedly
whelthedness
whelthen
wrongish
wrongless
wronglessly
wrongly
wrongness
wrongous
wrongously
wrongousness
wrongrel
wrongs
wrongwise
wroot
wrossle
wrote
wroth
wrothe
wrothful
wrothfully
wrothily
wrothiness
wrothly
wrothsome
wrothy
wrought
wrox
wrung
wrungness
wry
wrybill
wryer
wryest
wrying
wryly
wrymouth
wrymouths
wryneck
wrynecked
wrynecks
wryness
wrynesses
wrytail
ws
wt
wud
wuddie
wudge
wudu
wuff
wugg
wuggishness
wulder
wulfenite
wulk
wull
wullawins
wullcat
wulliwa
wumble
wumman
wummel
wun
wunderbar
wunderkind
wunderkinder
wunggee
wunna
wunner
wunsome
wuntee
wup
wur
wurley
wurleys
wurlies
wurly
wurmal
wurraluh
wurrung
wurrup
wurrus
wurset
wurst
wursts
wurtzilite
wurtzite
wurtzitic
wurzel
wurzels
wus
wash
wusp
wuss
wusser
wust
wut
wuther
wuthering
wuzu
wuzzer
wuzzle
wuzzled
wuzzling
wuzzy
wy
wyandot
wyandotte
wych
wyches
wycliffite
wyclifian
wyclifism
wyclifite
wyde
wye
wyes
wyke
wykehamical
wykehamist
wyle
wyled
wyles
wyliecoat
wyling
wymote
wyn
wynd
wynds
wyne
wynkernel
wynn
wynne
wynns
wynris
wyoming
wyomingite
wype
wyrock
wyson
wyss
wysty
wyte
wyted
wytes
wyting
xanthochroous
xanthocobaltic
xanthocone
xanthocone
xanthocreatinine
xanthocyanopia
xanthocyanopsia
xanthocyanopsy
xanthocyanopy
xanthoderm
xanthoderma
xanthodermatous
xanthodont
xanthodontous
xanthogen
xanthogenamic
xanthogenamide
xanthogenate
xanthogenic
xantholeucophore
xanthoma
xanthomas
xanthomata
xanthomatosis
xanthomatous
xanthomelanous
xanthometer
xanthomyeloma
xanthone
xanthones
xanthophane
xanthophore
xanthophose
xanthophyl
xanthophyll
xanthophylic
xanthophyllite
xanthophyllous
xanthopia
xanthopicrin
xanthopicrite
xanthoproteic
xanthoprotein
xanthoproteinic
xanthopsia
xanthopsin
xanthopsydracia
xanthopterin
xanthopurpurin
xanthorhammin
xanthorrhoea
xanthosiderite
xanthosis
xanthospermous
xanthotic
xanthous
xanthoxenite
xanthoxylin
xanthrochroid
xanthuria
xanthydrol
xanthyl
xantippe
xarque
xat
xc
xcl
xctl
xd
xdiv
xebec
xebece
xed
xeme
xenacanthine
xenagogue
xenagogy
xenarthral
xenarthrous
xenelasia
xenelasy
xenia
xenial
xenian
xenias
xenic
xenically
xenium
xenobiologies
xenobiology
xenobiosis
xenoblast
xenochia
xenocryst
xenocrystic
xenocyst
xerophilous
xerophily
xerophobous
xerophthalmia
xerophthalmic
xerophthalmos
xerophthalmy
xerophyte
xerophytic
xerophytically
xerophytism
xeroprinting
xerosere
xeroseres
xeroses
xerosis
xerostoma
xerostomia
xerotes
xerotherm
xerothermic
xerotic
xerotocia
xerotripsis
xerox
xeroxed
xeroxes
xeroxing
xerus
xeruses
xi
xii
xiii
xint
xiphias
xiphihumeralis
xiphii
xiphiform
xiphoid
xiphiplastra
xiphiplastral
xiphiplastron
xiphisterna
xiphisternal
xiphistemum
xiphista
xiphisuran
xiphocostal
xiphodynia
xiphoid
xiphoidal
xiphoidian
xiphoids
xiphopagic
xiphopagous
xiphopagus
xiphophyllous
xiphosterna
xiphosternum
xiphosuran
xiphosure
xiphosurous
xiphuous
xiphydriid
xis
xiv
xix
xmas
xmases
xoana
xoanon
xoanona
xonotlite
xr
xray
xref
xs
xu
xurel
xvi
xvii
xviii
xw
xx
xxi
xxii
xxiii
xxiv
xxv
xxx
xyla
xylan
xylans
xylanthrax
xylate
xylem
xylems
xylene
xylenes
xylenol
xylenyl
xyletic
xylidic
xylidin
xylidine
xylidines
xylidins
xylindein
xylinid
xylite
xylitol
xylitols
xylitone
xylo
xylobalsamum
xylocarp
xylocarpous
xylocarps
xylocoaid
xylogen
xyloglyphy
xylograph
xylographer
xylographic
xylographical
xylographically
xylography
xyloid
xyloidin
xyloidine
xylol
xylogy
xylob
xyloma
xylomancy
xylomas
xylomata
xylometer
xylon
xylonic
xylonite
xylonitile
xylophagan
xylophage
xylophagid
xylophagous
xylophilous
xylophone
xylophones
xylophonic
xylophonist
xylophonists
xyloplastic
xylopolist
xylopyrographer
xylopyrography
xyloquinone
xylorcin
xylorcinol
xylose
xyloses
xylosid
xyloside
xylostroma
xylostromata
xylostromatoid
xylotile
xylotomic
xylotomical
xylotomies
xylotomist
xylotomous
xylotomy
xylotypographic
xylotypography
xyloyl
xyyl
xyylene
xyllic
xyllys
xyphoid
xyrid
xyridaceous
xyst
xyster
xysters
xysti
xystoi
xystos
xysts
xystum
xystus
xyz
y
y's
ya
yaba
yabber
yabbered
yabbering
yabbers
yabbi
yabbie
yabble
yabby
yaboo
yabu
yacal
yacare
yacata
yacca
yachan
yacht
yachtdom
yachted
yachter
yachters
yachting
yachtings
yachtist
yachtman
yachtmanship
yachtmen
yachts
yachtsman
yachtsmanlike
yachtsmanship
yachtsmen
yachtswoman
yachtswomen
yachty
yack
yacked
yacking
yacks
yad
yadayim
yade
yadim
yanacona
yancopin
yander
yang
yanggona
yangs
yangtao
yangtze
yank
yanked
yankee
yankees
yanker
yanking
yanks
yanky
yannam
yanolite
yanqui
yanquis
yantra
yantras
yaoort
yaourt
yaourtí
yap
yapa
yaply
yapness
yapock
yapocks
yapok
yapoks
yapon
yapons
yapp
yapped
yapper
yappers
yappiness
yappening
yappingly
yappish
yappy
yaps
yapster
yaqona
yar
yellowishness
yellowknife
yellowlegs
yellowly
yellowman
yellowness
yellowroot
yellowrump
yellows
yellowseed
yellowshank
yellowshanks
yellowshins
yellowstone
yellowtail
yellowtails
yellowthorn
yellowthroat
yellowtop
yellowware
yellowweed
yellowwood
yellowwort
yellowy
yells
yelm
yelmer
yelp
yelped
yelper
yelpers
yelping
yelps
yelt
yelver
yemeless
yemen
yemenite
yemenites
yeming
yemschik
yemsel
yen
yender
yengees
yeni
yenite
yenned
yenning
yens
yenta
yentas
yente
yentes
yentnite
yeo
yeom
yeoman
yeomaness
yeomanette
yeomanhood
yeomanlike
yeomanly
yeomanries
yeomanry
yeomanwise
yeomen
yeorling
yeowoman
yeowomen
yep
yepeleic
yepely
yephede
yeply
yer
yerb
yerba
yerbal
yerbales
yerbas
yercum
yerd
yere
yerga
yerk
yerked
yerking
yerks
yern
yertchuk
yerto
yerth
yerva
yes
yese
yeses
yeshiva
yeshivah
yeshivahs
yeshivas
yeshivot
yeshivoth
y eso
y essed
y esses
y essing
y esso
y est
y ester
y esterday
y esterdayness
y esterdays
y estereve
y estereven
y esterevening
y estermorn
y estermorning
y estern
y esternight
y esternoon
y esterweek
y esteryear
y esteryears
y estreen
y estreens
y esty
y et
y eta
y etapa
y eth
y ether
y ethhounds
y eti
y etis
y etlin
y etling
y ett
y etter
y etts
y etzer
y eu k
y eu ked
y eu kieness
y eu king
ytterbous
ytterite
yttria
yttrialite
yttrias
yttric
yttriferous
yttrious
yttrium
yttriums
ytrocerite
ytrocolumbite
ytrocrasite
ytrofluorite
yttroguinite
yttrotantalite
yu
yuans
yuca
yucatec
yuca
yuccas
yuch
yuch
yuck
yucked
yuckel
yucker
yuckier
yuckiest
yucking
yuckle
yucks
yucky
yuft
yug
yuga
yugada
yugas
yugoslav
yugoslavia
yugoslavian
yugoslavians
yugoslavs
yuh
yuk
yukata
yuke
zamarra
zamarras
zamarro
zamarros
zambac
zambezi
zambia
zambian
zambians
zambo
zambomba
zamboorak
zambra
zamia
zamias
zamindar
zamindari
zamindars
zamindary
zaminder
zamorin
zamorine
zamous
zampogna
zanana
zananas
zander
zanders
zandmole
zanella
zanier
zanies
zaniest
zanily
zaniness
zaninesses
zanjero
zanjon
zanjona
zant
zante
zantewood
zanthoxylum
zantiote
zany
zanyish
zanyism
zanyship
zanza
zanzas
zanze
zanzebar
zap
zapas
zapateado
zapateados
zapateo
zapateos
zapatero
zaphara
zaphrentid
zaphrentoid
zapota
zapote
zapped
zapping
zaps
zaptiah
zaptiahs
zaptieh
zaptiehs
zapupe
zaqqum
zar
zarabanda
zarathustrian
zaratite
zaratites
zareba
zarebas
zareeba
zareebas
zarf
zarfs
zariba
zaribas
zarnec
zarnich
zarp
zarzuela
zarzuelas
zastruga
zastruga
zat
zati
zattare
zax
zaxes
zayat
zayin
zayins
zazen
zazens
zea
zeal
zealand
zealander
zealanders
zealed
zealful
zealless
zeallessness
zealot
zealotic
zealotical
zealotism
zealotist
zealotries
zealotry
zealots
zealous
zealously
zealousness
zealousy
zealproof
zeals
zeatin
zeatins
zeaxanthin
zebec
zebeck
zebecks
zebecs
zebedee
zebra
zebra's
zebrafish
zebrafishes
zebraic
zebralike
zebras
zebrass
zebrasses
zebrawood
zelotypie
zeme
zemeism
zemi
zemiism
zemimdari
zemindar
zemindari
zemindars
zemindary
zemmi
zemni
zemstroist
zemstva
zemstvo
zemstvos
zen
zenaida
zenaidas
zenana
zenanas
zend
zendic
zendician
zendik
zendikite
zendo
zendos
zenick
zenith
zenithal
zeniths
zenithward
zenithwards
zenobia
zenocentric
zenographic
zenographical
zenography
zenonian
zentner
zenu
zenzuic
zeolite
zeolites
zeolitic
zeolitization
zeolitize
zeolitized
zeolitizing
zeoscope
zep
zephaniah
zepharovitchite
zephran
zephyr
zephyranth
zephyrean
zephyrian
zephyrless
zephyrlke
zephyrous
zephyrs
zephyrus
zephyry
zeppelin
zeppelin
zequilns
zequin
zer
zerda
zereba
zermahbub
zero
zeroaxial
zeroed
zeroes
zeroeth
zeroing
zeroize
zeros
zeroth
zerumbet
zest
zested
zestful
zestfully
zestfulness
zestier
zestiest
zestiness
zesting
zestless
zests
zesty
zeta
zetacism
zetas
zetetic
zeuctocelomatic
zeuctocelomic
zeugite
zeuglodon
zeuglodont
zeuglodontoid
zeugma
zeugmas
zeugmatic
zeugmatically
zeunerite
zeus
zeuxite
zeuzerian
zho
ziamet
ziara
ziarat
zibeline
zibelines
zibelline
zibet
zibeth
zibethone
zibeths
zibetone
zibets
zibetum
zac
ziega
zieger
zietrisikite
ziff
ziffs
zig
zigamorph
zigan
ziganka
zigged
zigger
zigging
ziggurat
ziggurats
zigs
zigzag
zigzagged
zigzaggedly
zigzaggedness
zigzagger
zigzaggery
zigzagging
zigzaggy
zigzags
zigzagways
zigzagwise
zihar
zikkurat
zikkurats
zikurat
zikurats
zila
zilch
zilches
zilchviticetum
zill
zillah
zillas
zillion
zillions
zillionth
zillionths
zills
zilpah
zimarra
zimb
zimbabwe
zimbalon
zimbaloon
zimbi
zimentwater
zimme
zimmi
zimmis
zimmy
zimocca
zinc
zincalo
zincate
zincates
zinced
zincenite
zincic
zincid
zincide
zinciferous
zincification
zincified
zincifies
zincify
zincifying
zincing
zincite
zincites
zincize
zincke
zincked
zinckenite
zincking
zincky
zinco
zincode
zincograph
zincographer
zincographic
zincographical
zincography
zincoid
zincolysis
zincotype
zincous
zincs
zincum
zincuret
zincy
zindabad
zindiq
zineb
zinebs
zinfandel
zing
zingana
zingani
zingano
zingara
zingare
zingaresca
zingari
zingaro
zinged
zingel
zinger
zingerone
zingers
zingiberaceous
zingiberene
zingiberol
zingiberone
zingier
zingiest
zinging
zings
zingy
zinnamonthropi
zinnamonthropus
zink
zinke
zinked
zinkenite
zinkiferous
zinkified
zinkifies
zinkify
zinkifying
zinky
zinnia
zinnias
zinnwaldite
zinober
zinsang
zinyamunga
ziniberaceous
zion
zionism
zionist
zionists
zip
ziphian
ziphoid
zipless
zipped
zippeite
zipper
zippered
zippering
zippers
zippiern
zippiest
zipping
zippingly
zippier
zoiatria
zoiatrics
zoic
zoid
zoidiophilous
zoidogamous
zoilus
zeisite
zeisites
zeisitization
zeism
zoist
zoistic
zokor
zolaesque
zolaiism
zoll
zolle
zollpfund
zollverein
zolotink
zolotnik
zombi
zombie
zombielike
zombies
zomiism
zombisms
zombis
zomotherapeutic
zomotherapy
zona
zonaesthesia
zonal
zonality
zonally
zonar
zonary
zonate
zonated
zonation
zonations
zonda
zone
zoned
zoneless
zonelet
zoneless
zoner
zoners
zones
zonesthesia
zontime
zontimes
zonic
zoniferous
zoning
zonite
zonitid
zonked
zonnar
zonochlorite
zonociliate
zonoid
zonolimnetic
zonoplacental
zonoskeleton
zonta
zonula
zonulae
zonular
zonulas
zonule
zonules
zonulet
zonure
zonurid
zonuroid
zoo
zoo's
zoobenthoic
zoobenthos
zooblast
zoocarp
zoocecidium
zoocyst
zoochem
zoochemical
zoochemistry
zoochem
zoochemy
zoochore
zoochores
zoocoenocyte
zoocultural
zooculture
zoocurrent
zoocyst
zoocystic
zoocytial
zoocytium
zoodendria
zoodendrium
zoodynamic
zoodynamics
zooecia
zooecial
zooecium
zooerastia
zooerythrin
zooflagellate
zoofulvin
zoogamete
zoogamous
zoogamy
zoogene
zoogenesis
zoogenic
zoogenous
zoogeny
zoogeog
zoogeographer
zoogeographic
zoogeographical
zoogeographically
zoogeographies
zoogeography
zoogeological
zoogeologist
zoogeology
zooglea
zooglea
zoogleal
zoogleas
zoogler
zooglobea
zooglobae
zooglobocal
zooglobecas
zoogloecic
zoogonic
zoogonidium
zoogonous
zoogony
zoografa
zoografting
zoographer
zoographic
zoographical
zoographically
zoographist
zoography
zoogrpahy
zoid
zooidal
zoidiophilous
zoids
zookers
zooks
zool
zoolater
zoolaters
zoolatria
zoolatries
zoolatrous
zoolatry
zoolite
zoolith
zoolithic
zoolitic
zoologer
zoologic
zoological
zoologically
zoologicarchaeologist
zoologicbotanical
zoologies
zoologist
zoologists
zoologize
zoologized
zoologizing
zoology
zoom
zoomagnetic
zoomagnetism
zoomancy
zoomania
zoomanias
zoomantic
zoomantist
zoomechanical
zoomechanics
zoomed
zoomelanin
zoometric
zoometrical
zoometries
zoometry
zoomimetic
zoomimic
zooming
zoomorph
zoomorphic
zoomorphism
zoomorphize
zoomorphs
zoomorphy
zooms
zoon
zoona
zoonal
zoonerythrin
zoonic
zoonist
zoonite
zoonitic
zoonomia
zoonomic
zoonomical
zoonomist
zoonomy
zoonoses
zoonosis
zoonosologist
zoonosology
zoonotic
zoons
zoonule
zoopaleontology
zoopantheon
zooparasite
zooparasitic
zoopathological
zoopathologies
zoopathologist
zoopathology
zoopathy
zooperal
zooperist
zoopery
zoophagan
zoophagous
zoophagus
zoopharmacological
zoopharmacy
zoophile
zoophiles
zoophilia
zoophilic
zoophilies
zoophilism
zoophilist
zoophilite
zoophilitic
zoophilous
zoophilic
zoophily
zoophilism
zoophobe
zoophobes
zoophobia
zoophobia
zoophobous
zoophori
zoophoric
zoophorous
zoophorus
zoophysical
zoophysicist
zoophysics
zoophysiology
zoophytal
zoophyte
zoophytes
zoophytic
zoophytical
zoophytrish
zoophytophraphy
zoophytoid
zoophytological
zoophytologist
zoophytology
zooplankton
zooplanktonic
zooplastic
zooplasty
zoopraxiscope
zoopsia
zoopsychological
zoopsychologist
zoopsychology
zoos
zooscopic
zooscopy
zoosis
zoosmosis
zoosperm
zoospermatic
zoospermia
zoospermium
zoosperms
zoospgia
zoosphere
zoosporange
zoosporangia
zoosporangial
zoosporangiophore
zoosporangium
zoospore
zoospores
zoosporic
zoosporiferous
zoosporocyst
zoosporous
zoosterol
zootaxonomist
zootax
zootecnic
zootchnical
zootechnician
zootchnics
zootchny
zooter
zoothecia
zoothecial
zoothecium
zootheism
zootheist
zootheistic
zootherapy
zoothome
zotic
zootomic
zootomical
zootonically
zootomies
zootomist
zootony
zygapophysial
zygapophysis
zygenid
zygion
zygite
zygnemaceous
zygnemataceous
zygobranch
zygobranchiate
zygodactyl
zygodactyle
zygodactylic
zygodactylism
zygodactylos
zygodont
zygogenesis
zygogenetic
zygoid
zygolabialis
zygoma
zygomas
zygomata
zygomatic
zygomaticaauricular
zygomaticaauricularis
zygomaticofacial
zygomaticofrontal
zygomaticomaxillary
zygomaticoorbital
zygomaticosphenoid
zygomaticotemporal
zygomaticum
zygomaticus
zygomaxillare
zygomaxillary
zygomorphic
zygomorphism
zygomorphous
zygomorphy
zygomycete
zygomycetes
zygomycetous
zygon
zygoneure
zygophore
zygophoric
zygophyceous
zygophyllaceous
zymogens
zymogram
zymograms
zymoid
zymologic
zymological
zymologies
zymologist
zymology
zymolyis
zymolysis
zymolytic
zymome
zymometer
zymomin
zymophore
zymophobic
zymophosphate
zymophyte
zymoplastic
zymosan
zymosans
zymoscope
zymoses
zymosimeter
zymosis
zymosterol
zymosthenic
zymotechnic
zymotechnical
zymotechnics
zymotechny
zymotic
zymotically
zymotize
zymotoxic
zymurgies
zymurgy
zythem
zythum
zyzzyva
zyzzyvas

Found in path(s):
No license file was found, but licenses were detected in source scan.
QUICK START

17 May 93

Copy all the files on all the disks to a folder on your hard disk (make sure you have at two (4) megabytes of free space on your hard disk for each disk of Moby product).

Change your current directory ('CD') to that folder, type BUILD and press (enter).

The files that are extracted may be viewed and edited by any capable text-editor, such as Microsoft Word 5.x.

Moby (tm) Words II Documentation Notes

This documentation, the software and/or database are:

Copyright (c) 1988-93, Grady Ward. All Rights Reserved.
3449 Martha Ct.
Arcata, CA 95521-4884 USA
(707) 826-7715 (voice/24-hr 7 day FAX)
grady@netcom.com

License Agreement

This documentation, software and/or database was developed and copyrighted by Grady Ward and is licensed, not sold, to you on a non-exclusive, non-transferable basis. The documentation, software and/or database and derivative works of this database may not be copied in whole or part except for archival purposes as provided by law. If you have purchased the commercial license, Grady Ward explicitly grants you the limited right to create and market data structures or knowledge bases derived this work without further payment of a license fee, as long as the purpose and effect of that data structure or knowledge base is other than re-distributing that Grady Ward data structure or database. (In other words, you can freely distribute data structures based upon any or all of this work as long as you take reasonable care to prevent unlicensed persons and organizations from accessing the ASCII source.)

Willful copyright violations are both a civil and a criminal offense [17USC500]

Disclaimer of Warranty

This documentation, software and/or database is sold "as is" and without express or implied warranties as to performance or merchantability for a particular purpose. The user is advised to test the documentation, software and/or database thoroughly before relying on it. The user assumes the entire risk of using
this documentation, software and/or database and any liability of seller or manufacturer will be limited to product replacement or refund of the license fee.

Moby (tm) Words II for the MSDOS operating system is compressed and distributed on two 1.4MB double-sided diskettes. After self-extraction, the vocabulary files included with this product are in ordinary ASCII format with CRLF (ASCII 13/10) delimiters.

MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.

256,772 compound words
Over 256,700 hyphenated or other entries containing more than one word as well as all capitalized words and acronyms. Phrases were considered 'common' if they or variations of them occur in standard dictionaries or thesauruses.

113,809 official crosswords
A list of words permitted in crossword games such as Scrabble(tm). Compatible with the first edition of the Official Scrabble Players Dictionary(tm). Since this list has all forms: -ing, -ed, -s, and so on of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the official crossword list compatible with the second edition of the Official Scrabble Players Dictionary. (Scrabble is a registered trademark of Milton-Bradley licensed to Merriam-Webster.)

74,550 common dictionary words
A list of words in common with two or more published dictionaries. This gives the developer of a custom spelling checker a good beginning pool of relatively common words.

21,986 names
This database contains the most common names used in the United States and Great Britain. Spelling checkers may want to supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used
English words from a wide variety of common texts listed
in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used
English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations

1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James
Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a

USA Constitution
The Constitution of the United States, including the Bill of Rights
and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'etude'
does not mark the accent on the initial 'e'.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810361_1591391354.1/0/words-3.0-28.el8.src.rpm-cosi-expand-archive-
8fdAoiao/mwords.tar.Z-cosi-expand-archive-uMQXM7Ye/mwords/readme.txt
No license file was found, but licenses were detected in source scan.

$100-a-plate dinner
'tween deck
'tween-decks
-'s
-a
-ability
-able
-ably
-ac
-acal
-acea
-decker
-derm
-derma
-dermatous
-dermis
-diene
-dom
-drome
-dromous
-ean
-ectomy
-ed
-ee
-een
-eer
-ein
-el
-els
-eme
-emia
-en
-ence
-enchyma
-ency
-end
-ene
-ent
-eous
-er
-ery
-es
-escence
-escent
-ese
-ess
-est
-et
-eth
-etic
-ette
-ey
-facient
-faction
-factive
-favoured
-featured
-fer
-hedron
-hemia
-hippus
-hood
-hydrfic
-i
-i-
-ia
-ial
-ian
-iana
-iasis
-iatric
-iatrics
-iatry
-ibility
-ible
-ic
-ical
-ically
-ice
-ician
-icity
-ics
-id
-idae
-idan
-ide
-idin
-idium
-ie
-ier
-iferous
-iform
-ify
-il
-ile
-ility
-in
-in-law
-ina
-inae
-ine
-ing
-ion
-ior
-iour
-ious
-is
-isation
-ise
-ish
-ism
-ison
-ist
-ister
-istic
-ite
-ition
-itious
-itis
-itol
-itous
-ity
-iurn
-ive
-ization
-ize
-izer
-jii
-kin
-kinesis
-kins
-lalia
-lashed
-later
-latry
-le
-lent
-lepsy
-less
-let
-lewe
-like
-ling
-lings
-lipped
-lite
-lith
-lithic
-lived
-lock
-log
-loger
-logian
-logic
-ped
-pede
-person
-petal
-petalous
-phage
-phagia
-phagous
-phagy
-phane
-phany
-phasia
-phil
-phile
-philia
-philic
-philous
-phobe
-phobia
-phobic
-phone
-phony
-phore
-phoresis
-phorous
-phrenia
-phyll
-phyllous
-phyle
-phyte
-phytic
-plasia
-plasm
-plast
-plastic
-plasty
-plegia
-ploid
-pnea
-pod
-poda
-podite
-podium
-podus
-poiesis
-poietic
-pole
-polis
-pounder
-prone
-proof
-pterous
-red
-rel
-rhine
-rhiza
-rhoea
-rigged
-right
-rights
-rrhagia
-rrhea
-rrhine
-rrhiza
-rrhoea
-ry
-s
-s'
-saur
-scape
-scope
-scopy
-sect
-sepalous
-shaped
-ship
-sided
-sider
-sis
-some
-somic
-sophy
-sperm
-spermy
-sphere
-sporous
-spory
-st
-stasis
-stat
-ster
-stichous
-stome
-stomous
-stomy
-stress
AAS
AAU
AAUP
AAUW
AAVSO
AAX
AB
ABA
ABATS
ABB
ABC
ABC Powers
ABC's
ABCs
ABEL
ABEPP
ABFM
ABHC
ABI
ABLS
ABM
ABO system
ABPC
ABS
ABSBH
AC
AC arc
AC motor
AC welder
AC-DC
AC/DC
ACAA
ACAS
ACAWS
ACB
ACBL
ACC
ACCRA
ACCS
ACCT
ACD
ACDA
ACE
ACE mixture
ACF
ACGI
ACH
ACHEFT
AE & P
AEA
AEC
AEF
AEGIS
AES
AET
AEU
AF
AF amplification
AF amplifier
AFA
AFACTS
AFADS
AFAM
AFATDS
AFB
AFC
AFC mixer
AFCAC
AFCC
AFGE
AFI
AFIPS
AFL
AFL-CIO
AFLCIO
AFM
AFNOR
AFP
AFS
AFSC
AFSCME
AFSK
AFT
AFTRA
AFUU
AG
AGC
AGCA
AGCA radar
AGCT
AGD
AGE
AGL
AGM
AGMA
AGN
ALGOL
ALI
ALIT
ALM
ALP
ALPO
ALRU
ALS
ALU
AM
AM broadcasting
AM receiver
AM signal
AM station
AM transmitter
AM tuner
AM-FM receiver
AM-FM tuner
AMA
AMACS
AMARC
AMASE
AMAT
AMATPS
AMBA
AMC
AMD
AMDG
AME
AMEDS
AMERITECH
AMEX
AMI
AMICE
AMIChemE
AMIMechE
AMLS
AMORC
AMP
AMPAS
AMPS
AMRAAM
AMROC
AMS
AMSAT
AMSW
AMT
AMU
APP
APPC
APR
APRA
APS
APSA
APSE
APT
APU
AQ
AQL
AR
ARA
ARAMIS
ARC
ARCM
ARCNET
ARCO
ARCS
ARE
ARENA
ARF
ARIS
ARM
ARO
ARP
ARPA
ARPANET
ARQ
ARRL
ARS
ARSA
ARSB
ARSM
ART
ARTCC
ARTEMIS
ARU
ARV
AS
ASA
ASA exposure index
ASA scale
ASA/BS
ASAIGAC
ASAP
ASC
ASCAP
ATIS
ATK
ATLAS
ATM
ATMS
ATN
ATO
ATOMS
ATP
ATP2
ATPCO
ATR
ATR box
ATR switch
ATRS
ATS
ATT
ATTC
ATTCOM
ATTIS
ATV
AU
AUA
AUC
AUDIX
AUEW
AUI
AUM
AUP
AURA
AUS
AUTODIN
AUTOVON
AUX
AUXF
AV
AVC
AVD
AVLIS
AVM
AW
AWACS
AWB
AWEA
AWG
AWK
AWL
AWOL
Abagtha
Abailard
Abakan
Abakunov
Abama
Abana
Abanic
Abantes
Abarambo
Abarbarea
Abaris
Abas
Abasgi
Abassieh
Abassin
Abate
Abatua
Abba
Abba Eban
Abbadide
Abbai
Abbasid
Abbassid
Abbasside
ABBATE
Abbe
Abbe condenser
Abbe number
Abbe’s sine condition
Abbevilean
Abbeville
Abbevillian
Abbe
Abbey
Abbey Theatre
Abbi
Abbie
Abbot
Abbot of Unreason
Abbotsen
Abbotsford
Abbotson
Abbotsun
Abbott
Abbott papyrus
Abbottson
Abbottstown
Abboud
Abbey
Abrahamsen
Abraham
Abram
Abramis
Abramo
Abrams
Abramson
Abran
Abranchiata
Abri audit culture
Abrocoma
Abroma
Abroms
Abronia
Abrus
Abruzzi
Absa
Absalom
Absalom and Achitophel
Absaraka
Absaroka
Absaroka Range
Absarokee
Absecon
Absent voting
Abshier
Absi
Absolote
Abysrtus
Abt system
Abu
Abu Alam
Abu Daoud
Abu Dhabi
Abu Egeila
Abu Iyad
Abu Jihad
Abu Nidal
Abu Rudeis
Abu Simbel
Abu-Bekr
Abucay
Abukir
Abul Abbas
Abulfeda
Abuna
Abundantia
Abury
Abuta
Abutilon
Abydos
Abyla
Abys
Abyssin
Abyssinia
Abyssinian
Abyssinian Church
Abyssinian banana
Abyssinian cat
Abyssinian well
Ac
Acacallis
Acacea
Acaceae
Acacia
Acacia Avenue
Acacian
Academic
Academus
Academy
Academy Award
Acadia
Acadia National Park
Acadian
Acadie
Acaena
Acaephia
Acaelephae
Acalia
Acalypha
Acalypterae
Acalyptrata
Acalyptratae
Acamar
Acamas
Acampo
Acanthaceae
Acantharia
Acanthia
Acanthocephala
Acanthocephali
Acanthocereus
Acanthodea
Acanthodei
Acanthodes
Acanthodidae
Acanthodii
Acanthodini
Acantholimon
Acanthomeridae
Acanthopanax
Acanthophis
Acanthopteri
Acanthopterygii
Acanthuridae
Acanthus
Acapulco
Acapulco de Juarez
Acapulco gold
Acarapis
Acarida
Acaridea
Acarina
Acaran
Acarus
Acastus
Acca larentia
Accad
Accadian
Accalia
Accipiter
Accipitres
Accius
Accokeek
Accomac
Accoville
Accra
Accrington
Accutron
Ace
Ace bandage
Ace elastic bandage
Aceldama
Acemetae
Acemetic
Acephala
Acephali
Acephalina
Acephalite
Acer
Aceraceae
Acerae
Acerata
Acerates
Aceratherium
Acerbas
Acesius
Acessamenus
Acestes
Acetabularia
Acetaminophen
Acetes
Acetobacter
Acey
Achab
Achad
Achaea
Achaean
Achaean League
Achaean league
Achaemenes
Achaemenian
Achaemenid
Achaemenidae
Achaemenides
Achaemenidians
Achaemenids
Achaenodon
Achaeta
Achaeus
Achagua
Achaia
Achaian
Achakzai
Achamoth
Achan
Achango
Achariaceae
Achariaceous
Acharians
Achates
Achatina
Achatinella
Achatinidae
Achaz
Achelous
Achen
Acherman
Achernar
Acheron
Acheronian
Acherontic
Acherontical
Acheson
Achetidae
Acheulean
Acheulian
Achill
Achill Island
Achille
Achille Lauro
Achillea
Achillean
Achilleid
Achilles
Achilles and Patroclus
Achilles heel
Achilles reflex
Achilles tendon
Achilles' heel
Achilles' reflex
Achilles' tendon
Achillize
Achimaas
Achimelech
Achimenes
Achinese
Achish
Achitophel
Achlamydeae
Achmed
Achmetha
Acholoe
Achomawi
Achordata
Achorion
Achor
Achras
Achroanthes
Achromatiaceae
Achromatium
Achromobacter
Achromobacteriaceae
Achromycin
Achsah
Achuas
Achyranthes
Achyronthes
Achyrodes
Acidalium
Acidanthera
Acidaspis
Acie
Acieral
Acilius
Acima
Acineta
Acinetae
Acinetaria
Acinetina
Acipenser
Acipenseres
Acipenseridae
Acipenseroidei
Acis
Ack Emma
Acker
Ackerley
Ackerly
Ackerman
Ackermanville
Ackler
Ackley
Ackworth
Aclemon
Acmaea
Acmaeidae
Acmispon
Acmon
Acnida
Acocanthera
Acoela
Acoelomata
Acoelomi
Acoemetae
Acoemeti
Acoemetic
Acol
Acolapissa
Acolhua
Acolhuan
Acoma
Aconcagua
Aconitum
Acontias
Acontius
Acorus
Acosta
Acousticon
Acquah
Acquaviva
Acra
Acrab
Acraea
Acraeinae
Acrania
Acraziaceae
Acraziiales
Acrasida
Acrasiae
Acraspedia
Acre
Acrea moth
Acredula
Acres
Acrididae
Acridiidae
Acridium
Acrilan
Acrisius
Acrita
Acroa
Acrobrates
Acrocarpi
Acrocera
Acroceraitidae
Acroceraunian
Acroceraidae
Acrochordidae
Acrochordinae
Acroclinium
Acrocomia
Acrocorinth
Acродus
Acrogynae
Acromyodi
Acronycta
Acropolis
Acropora
Acrostichaceae
Acrostichum
Acrothoracicca
Acrotreta
Acrotretidae
Acrux
Acrydium
Act of Parliament clock
Act of Toleration
Act of Uniformity
Act term
Acta
Acta Sanctorum
Actaee
Actaeaceae
Actaeon
Actaeonidae
Actiad
Actian
Actinia
Actiniaria
Actinidia
Actinidiaceae
Actiniomorpha
Actinistia
Actinobacillus
Actinocrinidae
Actinocrinus
Actinoidea
Actinoidea
Actinomyces
Actinomycetaceae
Actinomycetales
Actinomyxidia
Actinomyxidiida
Actinonema
Actinophrys
Actinopoda
Actinopteri
Actinopterygii
Actinophaerium
Actinozoa
Actipylea
Actis
Actium
Acton
Actor
Actoridae
Actors' Equity Association
Acts
Acts of the Apostles
Acuan
Acubens
Aculeata
Acus
Acushnet
Acutilinguae
Acworth
Ad
Ada
Adabel
Adabelle
Adachi
Adad
Adah
Adaha
Adai
Adaiha
Adair
Adairsville
Adairville
Adalyze
Adal
Adala
Adalai
Adalard
Adalbert
Adalheid
Adali
Adalia
Adaliah
Adalie
Adaline
Adall
Adallard
Adam
Adam tiler
Adam's Rib
Adam's ale
Adam's apple
Adam's fall
Adam's offspring
Adam's seed
Adam's wine
Adam's-needle
Adam-and-Eve
Adam-and-eve
Adama
Adamas
Adamastor
Adamawa
Adamawa-Eastern
Adamec
Adamek
Adamello
Adamhood
Addiel
Addievile
Addington
Addis
Addis Ababa
Addison
Addison's disease
Addisonian
Addisoniana
Address to the Deil
Addressograph
Addu
Addy
Addyston
Ade
Adebayo
Adee
Adel
Adel Hassaib
Adela
Adelaida
Adelaid
Adelaja
Adelanto
Adelartha
Adelarthromata
Adelbert
Adele
Adelea
Adeleidae
Adelges
Adelheid
Adelia
Adelice
Adelie Land
Adelie penguin
Adelina
Adelind
Adeline
Adeliza
Adell
Adella
Adelle
Adelochorda
Adelops
Adelphe
Adelphi
Adelphia
Adelphian
Adelpho
Adelphoi
Adelric
Aden
Adena
Adenanthera
Adenauer
Adenophora
Adenostoma
Adeodatus
Adeodatus I
Adeodatus II
Adeona
Adephaga
Ader
Adessenarian
Adest
Adey
Adger
Adhafera
Adham
Adhamh
Adhara
Adhern
Adi
Adi-buddha
Adiana
Adiantum
Adib
Adib Daoudi
Adicea
Adie
Adiel
Adiell
Adige
Adigei
Adighe
Adigranth
Adigun
Adila
Adim
Adin
Adina
Adine
Adinida
Adirondack
Adirondack Mountains
Adirondack chair
Adirondack skiff
Adirondacks
Adis
Aditya
Adivasi
Adjunct in Arts
Adjuntas
Adkins
Adlai
Adlar
Adlare
Adlay
Adlee
Adlei
Adler
Adlerian
Adlerian psychology
Adley
Adlie Coast
Adlumia
Adm
Admah
Admete
Admetus
Admirable Crichton
Admiral
Admiral of the Fleet
Admiral togo
Admiralties
Admiralty Board
Admiralty House
Admiralty Islands
Admiralty Range
Admiralty constants
Admiralty flag
Admiralty mile
Admission Day
Admission day
Adna
Adnah
Adnan
Adnan Hakim
Adnan Khashoggi
Adne
Adnopoz
Ado
Adolf
Aecidiaceae
Aecidiomycetes
Aedes
Aedilberct
Aedon
Aeetes
Aegadean Islands
Aegadian Islands
Aegacon
Aegates
Aegates Isles
Aegean
Aegean Islands
Aegean Sea
Aegeria
Aegeriidae
Aegesta
Aegeus
Aegia
Aegiale
Aegialeus
Aegialia
Aegialitis
Aegicores
Aegimius
Aegina
Aeginae
Aeginetan
Aeginetan marbles
Aeginetic
Aegiochus
Aegipan
Aegir
Aegisthus
Aegithalos
Aegithognathae
Aegium
Aegle
Aegopodium
Aegospotami
Aegyptus
Aekerly
Aelber
Aelbert
Aella
Aello
Aeluroidea
Aenea
Aeneas
Aeneas Silvius
Aeneas Sylvius
Aeneid
Aeneolithic
Aeneus
Aeniah
Aenius
Aenneea
Aeolia
Aolian
Aolian Islands
Aeolian mode
Aeolic
Aeolicism
Aelidae
Aeolides
Aeolididae
Aeolis
Aeolism
Aeolist
Aeolus
Aepycteros
Aepyornis
Aepyornithidae
Aepyornithiformes
Aepyntus
Aequi
Aequian
Aequiculi
Aequipalpia
Aeria
Aerides
Aerial
Aeriela
Aeriell
Aerobacter
Aerobranchia
Aerochaetidae
Aeroflot
Aerocoat
Aerol
Aeronautical and Space Sciences
Aerope
Aerosol
Aesacus
Aeschines
Aeschylean
Aeschylean tragedy
Aeschylus
Aeschynanthus
Aeschynomene
Aesculaceae
Aesculapiam
Aesclapius
Aesculus
Aesepus
Aeshma
Aesir
Aesop
Aesop prawn
Aesopian
Aesopian language
Aesopic
Aestatis
Aestii
Aesyetes
Aeterni Patris
Aethalides
Aethelbert
Aetheria
Aethionema
Aethra
Aethusa
Aethylla
Aetian
Aetna
Aetobatidae
Aetobatus
Aetolia
Aetolian
Aetolus
Aetomorphae
Aetosaurus
Af
Afar
Afars and Issas
Afars and the Issas
Afenil
Affer
Affra
Affrica
Afg
Afgh
Afghan
Afghan hound
Afghani
Afghanistan
Afifi
Aflex
Afr
Afra
Aframerican
Afrasia
Afrasian
Afric
Afric heat
Africa
Africah
African
African cherry-orange
African daisy
African dominoes
African elephant
African gray
African hunting dog
African lethargy
African lily
African mahogany
African marigold
African millet
African school
African sleeping sickness
African trypanosomiasi
African trypanosomiasis
African violet
African yellowwood
Africana
Africander
Africanderism
Africanism
Africanist
Africanization
Africanize
Africanized
Africanizing
Africanoid
Africanthropus
Afridi
Afrika
Afrikaans
Afrika
Afrikander
Afrikander bond
Afrikanderdom
Afrikanderism
Afrikaner
Afrikanerdom
Afrikanerize
Afro
Afro-
Afro-American
Afro-Asian
Afro-Asiatic
Afro-Cuban
Afro-american
Afro-asiatic
Afro-chain
Afro-comb
Afro-european
Afro-semitic
Afroasiatic
Afrogaea
Afrogean
Afshah
Afshar
Afternoon of a Faun, The
Afton
Aftonian
Afyon
Afzelia
Ag
AgE
Aga Khan
Aga Khan III
Aga Khan IV
Agabus
Agace
Agaces
Agacles
Agade
Agadir
Agadir incident
Agag
Agagianian
Agaliana
Agalenidae
Agalinis
Agama
Agamae
Agamede
Agamedes
Agbogla
Agdistis
Age of Anxiety
Age of Aquarius
Age of Reason
Age of Reason, The
Age of the Red-Hot Mamas
Agee
Agelacrinites
Agelacrinitidae
Agelaius
Agelaus
Agen
Agena
Agenais
Agence France-Presse
Agenois
Agenor
Agent Orange
Ager Chawan
Ageratum
Agesilaus II
Aggada
Aggadah
Aggadic
Aggadoth
Aggappe
Aggapper
Aggappora
Aggarwal
Aggeus
Aggi
Aggie
Aggregata
Aggregatae
Aggrí
Aggy
Agh
Agha Hilaly
Aghan
Aghlabite
Aghorapanthi
Aghori
Agialid
Agib
Agiel
Agin court
Agincourt
Agkistrodon
Aglaia
Aglaonema
Aglaophon of Thasos
Aglaos
Aglaspis
Aglauros
Aglaus
Agle
Agler
Aglianico del Vulture
Aglipayan
Aglipayano
Aglossa
Aglypha
Aglyphodonta
Aglipayan
Agnatha
Agnathostomata
Agnella
Agnes
Agnese
Agness
Agnesse
Agneta
Agnew
Agni
Agnoetae
Agnoete
Agnoetism
Agnòte
Agnola
Agnostus
Agnotozoic
Agnus Dei
Agnus scythicus
Agon
Agoniatites
Agonista
Agonostomus
Agoraea
Agoraeus
Agostini
Agostino
Agosto
Agra
Agraeus
Agram
Agrania
Agrapha
Agrauleum
Agraulos
Agraulos the Younger
Agretha
Agricola
Agriculture and Forestry
Agrigento
Agrilus
Agrimonia
Agrinion
Agriocheridae
Agriocherus
Agronia
Agrionidae
Agriope
Agriotes
Agriotypidae
Agriotypus
Agripina
Agrippa
Agrippina
Agrippina II
Agrius
Agromyza
Agromyzidae
Agropyron
Agrostemma
Agrostemma Githago
Agrostis
Agrotera
Agrotis
Agt
Aguacateca
Aguada
Aguadilla
Aguadulce
Aguanga
Aguas Calientes
Aguascalientes
Aguayo
Aguadath yisrael
Agudist
Agueda
Aguie
Aguijan
Ahmed Abdel Rahman
Ahmed Al Ghashmi
Ahmed Ben Bella
Ahmed Boucief
Ahmed Ghanahallah
Ahmed Hassan Al Bakr
Ahmed Hassan el Bakr
Ahmed Hassan el-Bakr
Ahmed Hussein
Ahmedabad
Ahmednagar
Ahmeek
Ahmose I
Ahnfelt's seaweed
Ahnfeltia
Ahola
Aholah
Aholla
Ahom
Ahoskie
Ahoufe
Ahouh
Ahouasaht
Ahrendahronon
Ahrendt
Ahrens
Ahriman
Ahrimanian
Ahron
Ahsahka
Aht
Ahtena
Ahura Mazda
Ahura-mazda
Ahuzzath
Ahvaz
Ahvenanmaa
Ahwahnee
Ahwaz
Aia
Aias
Aiawong
Aibonito
Aich metal
Aida
Aida canvas
Aidan
Aiden
Ait Ahmed Hocine
Aitken
Aitkenite
Aitkin
Aitutakian
Aius Locutius
Aix
Aix-en-Provence
Aix-la-Chapelle
Aix-la-chapelle
Aix-les-Bains
Aizoaceae
Aizoon
Ajaccio
Ajaja
Ajaman fir
Ajani
Ajanta
Ajatasatru
Ajax
Ajax the Lesser
Ajay
Ajit
Ajivika
Ajmer
Ajo
Ajdhyآ
Ajuga
Aka
Akaba
Akademi
Akal
Akali
Akamnik
Akan
Akanekunìk
Akania
Akaniaceae
Akanke
Akas-mukhi
Akaska
Akawai
Akbar
Akebia
Akeem Olajuwon
Akel
Akela
Akeldama
Akron
Aksel
Aksoyn
Aksum
Aktiengesellschaft
Aktistetae
Aktistete
Aktivismus
Aktivist
Aktyubinsk
Akure
Akutagawa
Akutan
Akwapim
Akyab
Al
Al Aqsa
Al Bianchi
Al Borak
Al Fatah
Al Geiberger
Al Grospiron
Al Hasa
Al Hgaboskey
Al Hillah
Al Hufuf
Al Husseini
Al Iafrate
Al Khoury
Al Koneytra
Al Madinah
Al Mansrah
Al Marj
Al Qantara
Al Rifaie Mosque
Al Ryadh
Al Said
Al Secord
Al Sirat
Al araf
Al bali
Al chiba
Al nasi
Al niyat
Al rischa
Al tais
Al tarf
Al-Gazel
Alan Kulwicki
Alan Paton
Alan-a-dale
Alana
Alannah
Alanbrooke
Aland
Alane
Alangiaceae
Alangium
Alanna
Alano
Alanreed
Alans
Alansen
Alanson
Alapaha
Alar
Alarbus
Alarcon
Alard
Alaria
Alaric
Alarice
Alarick
Alarise
Alarodian
Alas
Alaskan
Alasdair
Alaska
Alaska Day
Alaska Highway
Alaska Peninsula
Alaska Range
Alaska cedar
Alaska cod
Alaska cotton
Alaska current
Alaska king crab
Alaska pollock
Alaska sable
Alaska time
Alaskan
Alaskan crab
Alaskan malamute
Alaskan orchis
Alastair
Albert Edward
Albert Hakim
Albert Hofstede
Albert I
Albert Lea
Albert Martín Artajo
Alberta
Alberti
Alberti bass
Albertina
Albertine
Albertinian
Albertist
Albertlea
Alberto
Alberton
Albertson
Albertus Magnus
Albertville
Albi
Albia
Albian
Albie
Albigenses
Albigensian
Albigensianism
Albin
Albina
Albinoni
Albinus
Albion
Albion ware
Albireo
Albizu Campos
Albizzia
Albniz
Albococcus
Alboin
Alboran
Alborn
Albrecht
Albric
Albright
Albrightsville
Albruna
Albuca
Albuginaceae
Album elegans
Album graecum
Album grandiflorum
Albuna
Albunea
Albuquerque
Albur
Alburg
Alburga
Alburnett
Alburts
Albury
Alby
Albyn
Alca
Alcaaba
Alcae
Alcaeus
Alcaic
Alcaics
Alcaids
Alcalde
Alcaligenes
Alcalzar
Alcan Highway
Alcandre
Alcantara
Alcantarines
Alcathous
Alcatraz
Alcazar
Alcazar de San Juan
Alcedines
Alcedinidae
Alcedininae
Alcedo
Alcelaphus
Acles
Alceste
Alcester
Alcestis
Alchemilla
Alchemist, The
Alchornea
Alchuine
Alcibiadean
Alcibiades
Alcibiades Arosemena
Alcicornium
Aldarcie
Aldarcy
Aldas
Aldebaran
Alded
Alden
Aldenville
Alder
Alderman
Aldermaston
Alderney
Aldershot
Alderson
Aldhafara
Aldhafera
Aldie
Aldin
Aldine
Aldine book
Aldine edition
Aldington
Aldis
Aldis lamp
Aldm
Aldo
Aldon
Aldora
Aldos
Aldous
Aldred
Aldridge
Aldric
Aldrich
Aldridge
Aldridge-Brownhills
Aldrin
Aldrovanda
Alduino
Aldus
Aldus Manutius
Aldwin
Aldwon
Alea
Alerdi
Alebion
Alec
Alecia
Aleck
Alecto
Alectoridae
Alectoris
Alectoromorphae
Alectoropodes
Alectrian
Alectriidae
Alectryon
Aleda
Aledo
Aleece
Aleedis
Aleen
Aleetha
Alegre
Alegrete
Aleichem
Aleixandre
Alejandra
Alejandrina
Alejandro
Alejandro Pena
Alejo
Alejo Valdes
Alejoa
Alek
Alekhine
Aleknagik
Aleksander Fadeev
Aleksandr
Aleksandr Guryanov
Aleksandropol
Aleksandrov
Aleksandrova
Aleksandrovsk
Alekseyevska
Aleksin
Alem
Aleman
Alemanni
Alemannian
Alemanic
Alemannisch
Alembert
Alemite
Algren
Alguire
Algy
Alhagi
Alhambra
Alhambraic
Alhambresque
Alhazen
Alhena
Ali
Ali Agah
Ali Akbar Velayati
Ali Baba
Ali Currim Chagla
Ali Gailani
Ali Khamenei
Ali Pasha
Ali Saleh el Saadi
Alia
Aliacensis
Alibamu
Aliber
Alic
Alica
Alicant
Alicante
Alice
Alice Springs
Alice blue
Alice in Wonderland
Alice's Adventures in Wonderland
Alice's fern
Alice-in-Wonderland
Alicea
Aliceville
Alichino
Alicia
Alick
Alida
Alidia
Alidis
Alids
Alidus
Alie
Alief
Alifanfaron
Aligarh
Alik
Alikee
Alikuluf
Alikulufan
Alina
Aline
Alinna
Alioth
Aliquippa
Alis
Alisa
Alisan
Alisander
Alise Sainte Reine
Alisen
Alisha
Alisia
Alisma
Alismaceae
Alismales
Alismataceae
Aliso Beach
Alison
Alison Chadwick
Alissa
Alistair
Alister
Alisun
Alita
Alitalia
Alitha
Alithea
Alithia
Alitta
Alius
Alix
Aliza
Alka-Seltzer
Alkabo
Alkaid
Alkalurops
Alkanna
Alkaphrah
Alkes
Alkhimovo
Alkmaar
Alkol
Alkoran
Alkoranic
All Black
All Fools' Day
All Hallow Even
All Quiet on the Western Front
All Saints' Day
All Souls' Day
All for Love
All red
All the King's Men
All's Well That Ends Well
All-american
All-british
All-caucasian
All-father
All-fatherhood
All-fatherly
All-india
All-russia
All-russian
All-southern
Alla
Allah
Allahabad
Allain
Allamanda
Allamuchy
Allan
Allan Bristow
Allan-a-Dale
Allana
Allanson
Allantoidea
Allard
Allardt
Allare
Allasch
Allayne
Allbee
Allcot
Alle
Alledonia
Alleen
Alleene
Allegan
Allegany
Alleghanian
Alleghany
Alleghenian
Alli
Alliaceae
Alliance
Allianora
Alliaria
Alliber
Allie
Allied
Allier
Allies
Allin
Allina
Allionia
Allioniaceae
Allis
Allisan
Allison
Allissa
Allista
Allister
Allistir
Allium
Allix
Allmon
Alloa
Allobroges
Allock
Allons
Allophylus
Allosaurus
Allotheria
Allotriognathi
Allouez
Alloway
Ailport
Allred
Allrud
Allsopp
Allstate
Allston
Allsun
Allvar
Allveta
Allwein
Allworthy
Allx
Ally
Allyce
Allyn
Allyne
Allys
Allyson
Alma
Alma mater
Alma-Ata
Alma-Tadema
Almach
Almad
Almada
Almaden
Almagest
Almain
Almallah
Alman
Almanach de Gotha
Almanon
Almed Taibi Benhima
Almeda
Almeeta
Almeida
Almelo
Almena
Almera
Almeria
Almerian
Almeric
Almeta
Almida
Almighty
Almighty God
Almira
Almire
Almita
Almo
Almohad
Almohade
Almohades
Almon
Almond
Almont
Almoravid
Almoravide
Almoravides
Almund
Almuredin
Almyra
Alna
Alnaschar
Alnascharism
Alnico
Alnilam
Alnitak
Alnitham
Alnus
Alo
Aloadae
Alocasia
Alodee
Alodi
Alodie
Aloeus
Alogi
Alogian
Aloha
Aloidae
Aloin
Alois
Aloise
Aloisia
Aloisius
Aloe
Aloke
Alon
Alonso
Alonsoa
Alonzo
Alope
Alopecias
Alopecurus
Alopecus
Alopias
Alopiidae
Alorton
Alosa
Alost
Alost lace
Alouatta
Alouette
Alox-Corton
Aloxite
Aloys
Aloys
Aloysio Dias Gomide
Aloysius
Alpaugh
Altay Mountains
Altdorf
Altdorfer
Alten
Altenburg
Alternanthera
Alternaria
Altes
Altgeld
Altha
Althaea
Althaemenes
Althea
Althee
Altheimer
Altheta
Althing
Altica
Alticamelus
Altingiaceae
Altiplano
Altis
Altman
Altmann theory
Altmar
Alto Park
Alton
Altona
Altoona
Altrincham
Altro
Altura
Alturas
Altus
Aluco
Aluconidae
Aluconinae
Aludra
Aluin
Aluino
Alula australis
Alula borealis
Alulim
Alumbank
Alumel
Alumnol
Alundum
Alur
Alyose
Alyosha
Alys
Alysa
Alyse
Alysia
Alyson
Alysoun
Alyss
Alyssa
Alyssum
Alytes
Alyworth
Alzada
Alzheimer's disease
Am
AmMIEE
Ama
Amabel
Amabella
Amabelle
Amabil
Amadas
Amadeo
Amadeus
Amadi
Amadis
Amadis de Gaula
Amadis of Gaul
Amado
Amador
Amadus
Amaethon
Amafingo
Amagansett
Amagasaki
Amagon
Amahuaca
Amaigbo
Amakosa
Amal
Amalbena
Amalberga
Amalbergas
Amalburga
Amalea
Amalee
Amalek
Amalekite
Amaleta
Amalfian
Amalfitan
Amalia
Amalie
Amalings
Amalita
Amalle
Amalrician
Amalthaea
Amalthea
Amaltheia
Amampondo
Aman
Amana
Amana Church Society
Amana society
Amand
Amanda
Amandi
Amandie
Amando
Amandus
Amandy
Amanist
Amanita
Amanitopsis
Amann
Amap
Amapa
Amapondo
Amar
Amara
Amara-kosha
Amaral
Amarant
Amarantaceae
Amaranthaceae
Amaranthus
Amarantus
Amaras
Amarette
Amargo
Amari
Amarillas
Amarillis
Amarillo
Amburgey
Amby
Ambystoma
Ambystomidae
Amchitka
Ame
Ameagle
Amedeo
Ameiuridae
Ameiurus
Ameiva
Ameizoeira
Amelanchier
Amelia
Amelie
Amelina
Ameline
Amelita
Amen
Amen glass
Amen-Ra
Amen-ra
Amena
Amend
Amenhotep III
Amenhotep IV
Amenia
Amenism
Amenite
Amenophis III
Amenophis IV
Amenti
Amentiferae
Amer
Amer Picon
AmerInd
AmerSp
Amerada
America
America First party
America's Cup
American
American Beauty
American Civil War
American Depository Receipts
American Directoire
American Empire
American English
American Expeditionary Forces
American Farm Bureau Federation
American Federation of Labor
American Fork
American Indian
American Indian Movement
American Institute of Architects
American Interplanetary Society
American Judas tree
American Labor party
American Legion
American Library Association
American National Red Cross
American Party
American Revised Version
American Revolution
American Rocket Society
American Samoa
American Sign Language
American Spanish
American Standard Version
American Stock Exchange
American Tragedy, An
American abscessroot
American aloe
American antelope
American apple
American bison
American bittern
American blight
American bond
American brooklime
American buffalo
American chair
American chameleon
American cheese
American chestnut
American cloth
American cockroach
American copper
American cotton
American cowslip
American crab
American cranberry
American dream
American eagle
American elk
American elm
American flagfish
American football
American foxhound
American globeflower
American holly
American hornbeam
American ipecac
American ivy
American language
American leopard
American linden
American lion
American lotus
American lungwort
American marten
American mulberry
American organ
American ostrich
American plan
American quarter horse
American saddle horse
American senna
American smoke tree
American star
American trotter
American trypanosomiasis
American twist
American upland cotton
American water spaniel
American wayfaring tree
American white hellebore
American woodbine
American wormseed
American, The
Americana
Americanese
Americanisation
Americanise
Americanised
Americaniser
Americanising
Americanism
Americanist
Americanistic
Americanitis
Americanization
Americanize
Americanized
Americanizer
Americanizing
Americanly
Americano
Americano cocktail
Americano-european
Americanoid
Americanos
Americas cup
Americaward
Americawards
Americomania
Americophobe
Americus
Amerigo
Amerigo Vespucci
Amerika
Amerimnon
Amerind
Amerindian
Amerindic
Amero
Amersfoort
Amersham
Amery
Ames
Amesbury
Amesha Spentas
Ameslan
Amesville
Ametabola
Amethi
Amethyst
Amex
Amfortas
Amhara
Amharic
Amherst
Amherst papyrus
Amherstdale
Ami
Amia
Amianthium
Amias
Amice
Amici direct-vision prism
Amici prism
Amici prism system
Amick
Amida
Amidah
Amidism
Amidist
Amidol
Amidon
Amie
Amiel
Amiens
Amieva
Amigen
Amii
Amiidae
Amil
Amilcare
Amiles
Amiloun
Amin
Amin Gemayal
Amin Gemayel
Amin Hafez
Aminta
Amintor
Amintore
Amintore Fanfani
Amioidei
Amir
Amir Abbas Hoveida
Amir Drory
Amiram Nir Nisker
Amiranha
Amiret
Amis
Amish
Amish Mennonite
Amishgo
Amissville
Amistad
Amita
Amitabh
Amite
Amite City
Amite River
Amitie
Amitai
Amity
Amityville
Amizilis
Amleto Cicognani
Amlin
Amling
Amma
Ammadas
Ammadis
Ammamaria
Amman
Ammanati
Ammanite
Ammann
Ammerman
Ammi
Ammiaceae
Ammianus
Ammisaddai
Ammishaddai
Ammobium
Ammocoetidae
Ammodytes
Ammodytidae
Ammon
Ammonea
Ammonite
Ammonites
Ammonitess
Ammonitish
Ammonitoidea
Ammonius Saccas
Ammonoidea
Ammophila
Amnigenia
Amnionata
Amniota
Amo
Amoakuh
Amoco
Amoebaea
Amoebida
Amoebidae
Amoebobacter
Amoebobacteriaceae
Amoebogena
Amomales
Amomis
Amon
Amphicyonidae
Amphidamas
Amphidiscophora
Amphigaea
Amphigamae
Amphilochus
Amphimachus
Amphimarus
Amphinesian
Amphineura
Amphinome
Amphinomus
Amphion
Amphionic
Amphioxi
Amphioxidae
Amphioxides
Amphioxididae
Amphipleura
Amphipneusta
Amphipnous
Amphipoda
Amphirhina
Amphisbaenidae
Amphisile
Amphisilidae
Amphissa
Amphissus
Amphistoma
Amphistomum
Amphithemis
Amphitrite
Amphitruo
Amphitryon
Amphioma
Amphiumidae
Amphius
Amphizoidae
Amphoterus
Amphrysian
Ampullaria
Ampullariidae
Ampycides
Ampycus
Ampyx
Amr
Amram
Amratian
Amythaon
Amlie
An
An Duc
An old man in a dry season
Ana
Anabaena
Anabal
Anabantidae
Anabaptism
Anabaptist
Anabaptistic
Anabaptistical
Anabaptistically
Anabaptistry
Anabas
Anabase
Anabel
Anabella
Anabelle
Anablepidae
Anableps
Anacanthini
Anacardiaceae
Anacardium
Anaces
Anacharis
Anacin
Anaclete
Anacletus
Anaconda
Anacontes
Anacostia
Anacostia River
Anacreon
Anacreontic
Anacreontically
Anacrognaya
Anacyclus
Anadarko
Anadyomene
Anadyr
Anadyr Range
Anagallis
Anagni
Anagnos
Anagyris
Anaheim
Anaheim disease
Anahtia
Anahola
Anahuac
Anatis
Anakes
Anakim
Analects of Confucius
Analects of Confucius, The
Analgesidae
Analiese
Analise
Anallantoidea
Anallese
Anallise
Analomink
Anam
Anambra
Anamelech
Anamirta
Anamite
Anammelech
Anamnesia
Anamnia
Anamniata
Anamnionata
Anamniota
Anamoose
Anamosa
Anana
Anand
Ananda
Ananias
Ananism
Ananite
Ananna
Anansi
Ananta
Ananta
Anaphalis
Anaphe
Anaplasma
Anapolis
Anapsida
Anapterygota
Anaptomorphidae
Anaptomorphus
Anapurna
Anarcestes
Anarthropoda
Anaryan
Anas
Anasa
Anasazi
Anasazis
Anasco
Anasitch
Anaspida
Anaspidae
Anaspides
Anastas
Anastase
Anastasi papyri
Anastasia
Anastasian
Anastasie
Anastasio
Anastasius
Anastasius I
Anastassia
Anastatica
Anastatus
Anastice
Anastomus
Anastos
Anastrophia
Anat
Anatherum
Anatidae
Anatifae
Anatinacea
Anatinae
Anatol
Anatola
Anatole
Anatoli Berezovoy
Anatolia
Anatolian
Anatolic
Anatolio
Anatollo
Anatoly Dobrynin
Anatoly Filipchenko
Anatoly Karpov
Anatomy of Melancholy, The
Ancon
Ancon sheep
Ancona
Ancram
Ancramdale
Ancyloceras
Ancylocladus
Ancylocladula
Ancylopoidea
Ancylostoma
Ancylostomum
Ancyclus
Ancyrean
Ancyrene
And
Andale
Andalusia
Andalusian
Andalusian swirl
Andaman
Andaman Islander
Andaman Islands
Andaman Sea
Andaman and Nicobar Islands
Andamanese
Andaquí
Andaquian
Andarko
Andaste
Ande
Andean
Andean condor
Andean deer
Andee
Andeee
Andel
Andelea
Ander
Anderea
Anderegg
Anderer
Anderlecht
Anders
Anders Jarryd
Andersen
Andersen Nexo
Anderson
Anderson East Side
Andrographis
Andromache
Andromada
Andromaque
Andromeda
Andromede
Andron
Andronicus
Androphonos
Andropogon
Andros
Androsace
Androscoggin
Androuet
Androw
Andrsy
Andrus
Andryc
Andvar
Andvare
Andvari
Andy
Andy Benes
Andy Moog
Andy Risau
Andy-over
Aneale
Anemia
Anemonella
Anemopsis
Anemotis
Anesidora
Anestassia
Anet
Aneta
Aneth
Anethum
Aneto
Anett
Anetta
Anette
Aneurin
Aneurin Bevan
Aney
Anezeh
Anfuso
Angadreme
Angadresma
Angami
Angami-naga
Angang
Angara
Angarsk
Angarstroï
Angdistis
Ange
Angel
Angel Anibal Guevara
Angel Cordero
Angel Falls
Angela
Angele
Angeleno
Angelenos
Angeles
Angeli
Angelia
Angelic
Angelico
Angelika
Angelina
Angeline
Angelique
Angelis
Angelita
Angell
Angelle
Angelo
Angelo Drossos
Angelo Errichetti
Angelonia
Angelus
Angelus bell
Angelus, The
Angelyn
Angerboda
Angeronica
Angeronalia
Angeronia
Angers
Angetenar
Angevin
Anglo
Anglo-American
Anglo-Americanism
Anglo-Catholic
Anglo-Catholicism
Anglo-Egyptian Sudan
Anglo-French
Anglo-Gallic
Anglo-Indian
Anglo-Irish
Anglo-Norman
Anglo-Saxon
Anglo-Venetian glass
Anglo-abyssinian
Anglo-afghan
Anglo-african
Anglo-americana
Anglo-american
Anglo-americanism
Anglo-asian
Anglo-asiotic
Anglo-australian
Anglo-austrian
Anglo-belgian
Anglo-boer
Anglo-brazilian
Anglo-canadian
Anglo-catholic
Anglo-catholicism
Anglo-chinese
Anglo-danish
Anglo-dutch
Anglo-dutchman
Anglo-ecclesiastical
Anglo-ecuadorian
Anglo-egyptian
Anglo-french
Anglo-german
Anglo-greek
Anglo-ibernian
Anglo-indian
Anglo-irish
Anglo-irishism
Anglo-israel
Anglo-israelism
Anglo-israelite
Anglo-italian
Anglo-japanese
Anglo-jewish
Anglo-judaic
Anglo-latin
Anglo-maltese
Anglo-manx
Anglo-mexican
Anglo-mohammedan
Anglo-norman
Anglo-norwegian
Anglo-nubian
Anglo-persian
Anglo-portuguese
Anglo-russian
Anglo-saxon
Anglo-saxondom
Anglo-saxonic
Anglo-saxonism
Anglo-scottish
Anglo-serbian
Anglo-soviet
Anglo-spanish
Anglo-swedish
Anglo-swiss
Anglo-teutonic
Anglo-turkish
Anglo-venetian
AngloCatholicism
Anglogaea
Anglogaean
Angloman
Anglomane
Anglomania
Anglomaniac
Anglomaniacal
Anglophil
Anglophile
Anglophilia
Anglophiliac
Anglophilic
Anglophobe
Anglophobia
Anglophobiac
Anglophobic
Anglophobist
Anglophone
Anglos
Angola
Angolese
Angora
Angora cat
Angora goat
Angora rabbit
Angora wool
Angostura
Angostura bitters
Angouleme
Angoumian
Angoumois
Angoumois grain moth
Angoumois moth
Angra Mainyu
Angra do Heroismo
Angraecum
Angrbodha
Angrist
Angstrom
Angstrom unit
Anguidae
Anguier
Anguilla
Anguillaria
Anguillidae
Anguillula
Anguillulidae
Anguimorpha
Anguinidae
Anguis
Anguloa
Angurboda
Angus
Angus Og
Angwin
Angy
Anh
Anhalonium
Anhalt
Anhanganga
Anheuser
Anhimaes
Anhimidae
Anhwei
Ania
Aniak
Aniakchak
Aniakudo
Anna-Maria
Annaba
Annabal
Annabel
Annabel lee
Annabela
Annabell
Annabella
Annabelle
Annada
Annadiana
Annadiane
Annale
Annalee
Annalen
Annaliese
Annalise
Annam
Annam-Muong
Annam-muong
Annamaria
Annamarie
Annamese
Annamite
Annamitic
Annandale
Annapolis
Annapolis Royal
Annapurna
Annarbor
Annatol
Annawan
Anne
Anne Boleyn
Anne de Beaujeu
Anne de Bretagne
Anne of Austria
Anne of Bohemia
Anne of Brittany
Anne of Cleves
Anne of Denmark
Anne of France
Anne-Corinne
Anne-Marie
Annecorinne
Annecy
Annelida
Annelides
Anselmi
Anselmian
Anselmo
Anser
Anseres
Anseriformes
Anserinae
Ansermet
Ansgarius
Anshan
Anshar
Ansilma
Ansilme
Ansley
Anson
Ansonia
Ansonville
Ansted
Anstic
Anstus
Anta
Antabus
Antabuse
Antaea
Antaean
Antaeus
Antagoras
Antaimerina
Antaios
Antaiva
Antakiya
Antakya
Antal
Antalya
Antananarivo
Antanandro
Antar
Antara
Antarctica
Antarctalia
Antarctalian
Antarctic
Antarctic Archipelago
Antarctic Circle
Antarctic Continent
Antarctic Ocean
Antarctic Peninsula
Antarctic Zone
Antarctic barrier
Anthinae
Anthoceros
Anthocerotaceae
Anthocerotales
Antholyza
Anthomedusae
Anthomyia
Anthomyiidae
Anthon
Anthonin
Anthonomus
Anthony
Anthony Adverse
Anthony Giacalone
Anthony of Padua
Anthony's cross
Anthony's fire
Anthophila
Anthophora
Anthophoridae
Anthophyta
Anthospermum
Anthoxanthum
Anthozoa
Anthracomartia
Anthracomartus
Anthracosaurus
Anthracotheriidae
Anthracotherium
Anthrenus
Anthribidae
Anthriscus
Anthropidae
Anthropodus
Anthropoidea
Anthropomorpha
Anthropomorphidae
Anthropopithecus
Anthropos
Anthropozoic
Anthurium
Anthus
Anthyllis
Anti
Anti-Comintern Pact
Anti-Corn Law League
Anti-Lebanon
Anti-Mason
Anti-Masonic
Anti-Masonic Party
Anti-Masonic party
Anti-Masonry
Anti-Monopoly Party
Anti-Saloon League
Anti-allied
Anti-ally
Anti-american
Anti-americanism
Anti-anglican
Anti-arab
Anti-arian
Anti-aristotelian
Anti-armenian
Anti-arminian
Anti-arminianism
Anti-athanasian
Anti-athenian
Anti-austrian
Anti-babylonianism
Anti-bartholomew
Anti-biblic
Anti-biblical
Anti-birmingham
Anti-bohemian
Anti-bolshevik
Anti-bolshevist
Anti-bonapartist
Anti-british
Anti-britishism
Anti-caesar
Anti-calvinism
Anti-calvinist
Anti-calvinistic
Anti-calvinistically
Anti-cathedralist
Anti-catholic
Anti-christian
Anti-christianism
Anti-christianity
Anti-christianize
Anti-christianly
Anti-darwinian
Anti-darwinism
Anti-docetae
Anti-dreyfusard
Anti-english
Anti-entente
Anti-european
Anti-fascism
Anti-fascist
Anti-fascisti
Anti-fourierist
Anti-french
Anti-freudian
Anti-gallican
Anti-german
Anti-germanism
Anti-gnostic
Anti-gothicist
Anti-hanoverian
Anti-ibsenite
Anti-irishism
Anti-italian
Anti-jansenist
Anti-japanese
Anti-japanism
Anti-jesuit
Anti-jewish
Anti-judaic
Anti-judaism
Anti-klan
Anti-klanism
Anti-lamarckian
Anti-latin
Anti-laudism
Anti-liberal
Anti-macedonian
Anti-macedonianism
Anti-malthusian
Anti-messiah
Anti-mexican
Anti-mohammedan
Anti-mongoliam
Anti-mosaical
Anti-nationalist
Anti-nihilist
Anti-noahite
Anti-nordic
Anti-oriental
Anti-paul
Anti-pauline
Anti-pelagian
Anti-philippizing
Anti-platonic
Anti-polish
Anti-protestant
Anti-republican
Anti-roman
Anti-romanist
Anti-ruskinian
Anti-russian
Anti-sabattarian
Anti-sabian
Anti-saloon League of America
Anti-saxonism
Anti-scriptural
Anti-scripturism
Anti-scripturist
Anti-semite
Anti-semitic
Anti-semitically
Anti-semitism
Anti-serb
Anti-shelleyan
Anti-shemite
Anti-shemitic
Anti-shemitism
Anti-slav
Anti-slovene
Anti-socinian
Anti-soviet
Anti-spanish
Anti-teuton
Anti-teutonic
Anti-tribonian
Anti-trinitarian
Anti-turkish
Anti-unitarian
Anti-venizelist
Anti-volstead
Anti-volsteadian
Anti-whig
Anti-wycliffist
Anti-wycliffite
Anti-zionism
Anti-zionist
Anti-zwinglian
Antia
Antiarcha
Antiarchi
Antiari
Antibes
<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antiburgher</td>
</tr>
<tr>
<td>Antiburgher kirk</td>
</tr>
<tr>
<td>Antichrist</td>
</tr>
<tr>
<td>Anticlea</td>
</tr>
<tr>
<td>Anticosti</td>
</tr>
<tr>
<td>Anticosti group</td>
</tr>
<tr>
<td>Antidicomarian</td>
</tr>
<tr>
<td>Antidicomarianite</td>
</tr>
<tr>
<td>Antido</td>
</tr>
<tr>
<td>Antidorcas</td>
</tr>
<tr>
<td>Antietam</td>
</tr>
<tr>
<td>Antifederal party</td>
</tr>
<tr>
<td>Antifederalism</td>
</tr>
<tr>
<td>Antifederalist</td>
</tr>
<tr>
<td>Antígo</td>
</tr>
<tr>
<td>Antigone</td>
</tr>
<tr>
<td>Antígono</td>
</tr>
<tr>
<td>Antígonus</td>
</tr>
<tr>
<td>Antígonus I</td>
</tr>
<tr>
<td>Antígonus II</td>
</tr>
<tr>
<td>Antigua</td>
</tr>
<tr>
<td>Antiguan</td>
</tr>
<tr>
<td>Antikamnia</td>
</tr>
<tr>
<td>Antikythera</td>
</tr>
<tr>
<td>Antilia</td>
</tr>
<tr>
<td>Antillean</td>
</tr>
<tr>
<td>Antilles</td>
</tr>
<tr>
<td>Antilles Current</td>
</tr>
<tr>
<td>Antilocapra</td>
</tr>
<tr>
<td>Antilocapridae</td>
</tr>
<tr>
<td>Antilochus</td>
</tr>
<tr>
<td>Antilope</td>
</tr>
<tr>
<td>Antilopinae</td>
</tr>
<tr>
<td>Antimachus</td>
</tr>
<tr>
<td>Antimarian</td>
</tr>
<tr>
<td>Antimason</td>
</tr>
<tr>
<td>Antimasonic</td>
</tr>
<tr>
<td>Antimasonry</td>
</tr>
<tr>
<td>Antimerina</td>
</tr>
<tr>
<td>Antin</td>
</tr>
<tr>
<td>Antínos</td>
</tr>
<tr>
<td>Antínoos</td>
</tr>
<tr>
<td>Antioch</td>
</tr>
<tr>
<td>Antiochene</td>
</tr>
<tr>
<td>Antiochian</td>
</tr>
<tr>
<td>Antiochian Rite</td>
</tr>
<tr>
<td>Antiochianism</td>
</tr>
<tr>
<td>Antiochus</td>
</tr>
</tbody>
</table>
Antonie
Antonietta
Antonin
Antonin Scalia
Antonina
Antonino
Antoninus
Antoninus Pius
Antonio
Antonio Ramalho Eanes
Antonio Silvestre Guzman
Antonito
Antonius
Antonovich
Antons
Antony
Antony and Cleopatra
Antony-over
Antrim
Antrostomus
Antsirane
Antu
Antum
Antung
Antwerp
Antwerp blue
Antwerp hollyhock
Antwerpen
Anu
Anubis
Anukit
Anunaki
Anunnaki
Anura
Anuradhapura
Anurag
Anuska
Anvers
Anvik
Any
Anya
Anyah
Anyang
Anychia
Anystidae
Anza
Anzac
Anzac Day
Anzanian
Anzanite
Anzengruber
Anzio
Anzovin
Ao
Aoede
Aoide
Aoife
Aoki
Aomori
Aonian
Aorangi
Aorns
Aornum
Aosta
Aotea
Aotearoa
Aotes
Aotus
Aouellimiden
Aoul
Ap
Apache
Apache pine
Apache plume
Apache state
Apache yuma
Apaches
Apachette
Apalachee
Apalachee Bay
Apalachicola
Apalachin
Apama
Apanteles
Apantesis
Aparai
Apargia
Aparri
Apartheid
Apatela
Apathus
Apatornis
Apatosaurus
Apaturia
Apayao
Apeldoorn
Apelles
Apemantus
Apemius
Apemysne
Apennine
Apennine Mountains
Apennines
Apepi
Aperu
Apetalae
Apetel
Apfielstadt
Apgar
Apgar score
Aphanapteryx
Aphanes
Aphaniptera
Aphanomyces
Aphareus
Apharsathacites
Aphelandra
Aphelenchus
Aphelinus
Aphelops
Aphesius
Aphidas
Aphididae
Aphidiinae
Aphidius
Aphis
Aphodius
Aphoruridae
Aphra
Aphrodision
Aphrodistic
Aphrodiste
Aphrodiote of Melos
Aphrodictium
Aphroditidae
Aphrogeneia
Aphthartodocetae
Aphthartodocetic
Aphthartodocetism
Apia
Apiaca
Apiaceae
Apiales
Apianus
Apicella
Apician
Apidae
Apiezon
Apina
Apinae
Apinage
Apiaceridae
Apios
Apiosoma
Apis
Apison
Apium
Apl
Aplacentalia
Aplacentaria
Aplacophora
Aplanobacter
Aplectrum
Aplington
Aplodontia
Aplodontiidae
Aploappus
Apluda
Aplysia
Apneumona
Apo
Apoc
Apocalypse
Apocr
Apocrita
Apocrypha
Apocynaceae
Apocynum
Apoda
Apodes
Apodia
Apodidae
Apodis
Apogon
Apogon iris
Apogonidae
Apoidea
Apolista
Apolistan
Apolinaire
Apollinarian
Apollinarianism
Apollinaris
Apollinaris water
Apolline
Apollo
Apollo Belvedere
Apollo Musagetes
Apollon
Apollonia
Apollonian
Apollonic
Apollonistic
Apollonius
Apollon
Apolloship
Apollus
Apollyon
Apologetic Fathers
Apologia pro Vita Sua
Apologie for Poetrie
Apolysin
Apomyius
Aponogeton
Aponogetonaceae
Apophis
Apopka
Aporobranchia
Aporobranchiata
Aporocactus
Aporosa
Aporrhaidae
Aporrhais
Apostle pitcher
Apostle spoon
Apostles
Apostles' Creed
Apostolian
Apostolic
Apostolic Church
Apostolic Fathers
Apostolic See
Apostolic succession
Apostolici
Apostolos
Apostrophia
Apotactic
Apotactici
Apoxyomenos
Appalachenia
Appalachian
Appalachian Mountains
Appalachian Regional Commission
Appalachian tea
Appalachian trail
Appalachians
Appaloosa
Apparatus sculptoris
Appel
Appendicularia
Appendiculariidae
Appendiculata
Appenzell
Appenzell Ausser Rhoden
Appenzell Inner Rhoden
Appia
Appian
Appian Way
Appian way
Appii forum
Appius
Apple
Apple Isle
Appleby
Appledorf
Applegate
Apples of the Hesperides
Appleseed
Appleton
Appleton layer
Appling
Appointment in Samarra
Appolonia
Appomattox
Appomattoc
Appomattox
Appropriations
Apps
Apr
Apresoline
April
April Fools'
April Fools' Day
April fool
April fools day
April gentleman
April showers
April-gowk
Aprile
Aprilesque
Aprilette
Aprilline
Aprilis
Aprocta
Apsaras
Apsarasases
Apsu
Apsyrtus
Aptal
Aptenodytes
Aptera
Apteryges
Apterygidae
Apterygiformes
Apterygogenea
Apterygota
Apteryx
Apthorp
Aptian
Aptiana
Aptos
Apul
Apuleius
Apulia
Apulian
Apure
Apurimac
Apus
Aq
Aqaba
Aqua-Lung
Aquarian
Aquarid
Aquarii
Aquarius
Aquasco
Aquashicolia
Aquebogue
Aqueus
Aquifoliaceae
Aquila
Aquila degli Abruzzi
Aquilae
Aquilaria
Aquilegia
Aquileia
Aquilian
Aquilid
Aquilla
Aquilo
Aquinas
Aquini
Aquintaine
Aquitanian
Aquone
Ar
Ar Rimal
Ar-chang
ArM
Ara
Arab
Arab League
Arab Palestine
Arab Republic of Egypt
Arab bread
Arab-Israeli War
Arabic
Arabeil
Arabel
Arabela
Arabele
Arabelle
Arabesque
Arabi
Arabia
Arabia Deserta
Arabia Felix
Arabia Petraea
Arabian
Arabian Desert
Arabian Nights' Entertainment
Arabian Sea
Arabian camel
Arabian horse
Arabian jasmine
Arabian millet
Arabian primrose
Arabian red
Arabianize
Arabic
Arabic figures
Arabic numeral
Arabic numerals
Arabicism
Arabicize
Arabidopsis
Arabis
Arabism
Arabist
Arabize
Arabo-byzantine
Arabophil
Araby
Aracaj
Aracaju
Aracana
Aracatuba
Araceae
Arachis
Arachne
Archnida
Arachnites
Arachnoidea
Arachnomorphae
Arad
Aradidae
Arae
Arafat
Arafura
Arafura Sea
Aragallus
Aragats
Arago
Aragon
Aragon spar
Aragonese
Aragonian
Araguaia
Araguari
Araguaya
Arains
Arak
Arakan
Arakan Mountains
Arakan Yoma
Arakanese
Arakawa
Araks
Aral Sea
Aralac
Araldo
Arales
Aralia
Araliaceae
Araliaphyllum
Araliophyllum
Arallu
Aralu
Aram
Aramaean
Aramaic
Aramaicize
Aramaism
Aramanta
Aramburu
Aramean
Aramen
Aramenta
Aramidae
Araminta
Aramis
Aramitess
Aramu
Aramus
Aran
Aran Islands
Arand
Aranda
Arandas
Aranea
Araneae
Araneida
Araneiformes
Araneiformia
Araneina
Araneoidea
Aranha
Aransas Pass
Arantxa Sanchez
Arany
Aranyakad
Aranyapraphat
Arapaho
Arapaho formation
Arapahoe
Arapahoes
Arapahos
Arapesh
Arapeshes
Araquaju
Arara
Ararat
Aras
Arathorn
Aratus
Araua
Arauan
Araucan
Araucania
Araucanian
Araucano
Araucaria
Araucariaceae
Araucarioxylon
Araujia
Arauna
Arawa
Arawak
Arawakan
Arawakian
Arawaks
Arawn
Araxa
Araxes
Arbacia
Arbe
Arbeiter Zeitung
Arbela
Arbela-Gaugamela
Arber
Arbil
Arbitration, The
Arblay
Arboles
Arbon
Arbor Day
Arbor day
Arbovale
Arbroath
Arbuckle
Arbuthnot
Arbyrd
Arc de Triomphe
Arc de Triomphe de l'Etoile
Arc du carrousel
Arc of Lowitz
Arcaceae
Arcadia
Arcadian
Arcadian hind
Arcadian stag
Arcadianism
Arcadianly
Arcadic
Arcady
Arcana Caelestia
Arcangelo
Arcanum
Arcaro
Arcas
Arcata
Arce
Arcella
Arcesilaus
Arcesus
Arceuthobium
Arch
Arch of Triumph
Archaean
Archaeoceti
Archaeocysthid
Archaeocyathidae
Archaeocyathus
Archaeopithecus
Archaeopteris
Archaeopterygiformes
Archaeopteryx
Archaeornis
Archaeornithes
Archaeostomata
Archaeozoic
Archaic
Archaic Caucasoid race
Archaimbaud
Archambault
Archangel
Archangel cat
Archangelica
Archbald
Archbald
Archbp
Archcape
Archd
Archean
Archegetes
Ardeche
Ardeen
Ardeha
Ardehs
Ardeidae
Ardel
Ardelia
Ardelis
Ardell
Ardella
Ardelle
Arden
Ardene
Ardenia
Ardennes
Ardenvoir
Ardeth
Ardhamagadhi
Ardhanari
Ardi-ea
Ardie
Ardin
Ardine
Ardis
Ardisia
Ardisiaceae
Ardisj
Ardith
Ardme
Ardmore
Ardmoired
Ardoch
Ardolino
Ardra
Ardrey
Ardley
Ardussi
Ardy
Ardyce
Ardys
Ardyth
Arean
Areca
Arecaceae
Arecales
Arecibio
Arecuna
Aredale
Areithous
Areius
Arel
Arela
Arelia
Arella
Arelus
Arena Chapel
Arenaria
Arends
Arendt
Arendsville
Arene
Arenga
Arenicola
Arenig
Arensky
Arenzville
Areopagist
Areopagite
Areopagitic
Areopagitica
Areopagus
Arequipa
Ares
Areskutan
Aret
Areta
Arete
Aretha
Arethusa
Arethuse
Aretina
Aretinian
Aretino
Aretta
Arette
Aretus
Areus
Arezzini
Arezzo
Arg
Argades
Argall
Argand burner
Argand diagram
Argand lamp
Argand plane
Argostolion
Argovian
Argovie
Arguedas
Argulus
Argus
Argus-eyed
Argusianus
Arguslike
Argusville
Argyle
Argyle purple
Argyll
Argyll-robertson pupil
Argyll-robertson sign
Argyllshire
Argynnis
Argyra
Argyraspides
Argyres
Argyrol
Argyroneta
Argyropelecus
Argyrosomus
Argyrotoxus
Arhat
Arhatship
Arhauaco
Arhna
Ari
Aria
Ariadaeus
Ariadna
Ariadne
Ariadne auf Naxos
Arian
Ariana
Ariane
Arianie
Arianism
Arianistic
Arianistical
Arianize
Arianizer
Arianna
Arianne
Arianrhod
Aribold
Aric
Arica
Arica movement
Arician
Arick
Aridatha
Arided
Arie
Ariege
Ariel
Ariel Sharon
Ariela
Ariella
Arielle
Aries
Arietid
Arietis
Ariew
Ariidae
Arikara
Arimasp
Arimaspian
Arimaspians
Arimathaea
Arimathaean
Arimathaean
Arimathea
Arimathean
Ariminum
Arimo
Arin
Ario
Ariocarpus
Arioi
Arioian
Arion
Ariosto
Ariovistus
Aripeka
Arisaema
Arisbe
Arispe
Arissa
Arista
Aristaeus
Aristarch
Aristarchian
Aristarchus
Aristarchus of Samos
Aristarchus of Samothrace
Aristea
Aristes
Aristida
Aristide
Aristides
Aristides Calvani
Aristillus
Aristippus
Aristo
Aristodemus
Aristol
Aristo
Aristo
Aristolochia
Aristolochiaceae
Aristolochiales
Aristomachus
Aristophanes
Aristophanic
Aristotelean
Aristoteles
Aristotelian
Aristotelian form
Aristotelian logic
Aristotelian philosophy
Aristotelian sorites
Aristotelianism
Aristotelic
Aristotelism
Aristotle
Aristotle's lantern
Arita
Ariton
Arius
Arivaca
Arivaipa
Ariyalur group
Ariz
Arizona
Arizona cypress
Arizona ruby
Arizonan
Arizonian
Arjan
Arjay
Arjun
Arjuna
Ark
Ark of the Covenant
Arkab
Arkabutla
Arkadelphia
Arkansan
Arkansas
Arkansaw
Arkansawyer
Arkansian
Arkdale
Arkhangelsk
Arkie
Arkite
Arkoma
Arkport
Arkville
Arkwright
Arlan
Arlna
Arlna
Arlee
Arleen
Arlen
Arlena
Arlene
Arln
Arles
Arleta
Arlette
Arley
Arleyne
Arlie
Arliene
Arlin
Arlina
Arlinda
Arlene
Arlington
Arlington Heights
Arlington National Cemetery
Arhis
Arllis
Arlo
Arlon
Arluene
Arly
Arlyn
Arlyne
Arlynne
Arm
Arma
Armada
Armada chest
Armadillididae
Armadillidium
Armadillo
Armageddon
Armageddonist
Armagh
Armagnac
Armalda
Armalla
Armallas
Arman
Armand
Armanda
Armando
Armata
Armatoles
Armatoli
Armavir
Armbrecht
Armbrust
Armbruster
Armco
Armed Forces Day
Armed Services
Armelda
Armen
Armenia
Armenian
Armenian Church
Armenic
Armenize
Armeno-turkish
Armenoid
Armenti
Armentieres
Armeria
Armeriaceae
Armida
Armil
Armilda
Armilla
Armillaria
Armillases
Armillida
Arnegard
Arnel
Arnelle
Arnett
Arney
Arnhem
Arnhem Land
Arni
Arnie
Arnim
Arno
Arnold
Arnold Rafel
Arnold Raphel
Arnoldist
Arnoldo
Arnoldsburg
Arnoldson
Arnoldsville
Arnon
Arnoseris
Arnot
Arnst
Arnud
Arnulf
Arnulfo
Arnulfo Arias
Arnusian
Arny
Aro
Arock
Aroda
Aroides
Arola
Aromas
Aron
Arona
Arondel
Arondell
Aronia
Aronoff
Aronow
Aronson
Aroostook
Aroras
Arosaguntacook
Around the World in Eighty Days
Arp
Arpin
Arquit
Arracacia
Arragon
Arran
Arran chief
Arrangement in Black and Gray
Arras
Arratoon
Arrau
Arrephoria
Arrephoroi
Arrephoros
Arretine
Arretine ware
Arretium
Arrey
Arrhenatherum
Arrhenius
Arrephoria
Arri
Arria
Arriba
Arries
Arriet
Arrigny
Arrigo
Arrington
Arrio
Arron
Arrowsmith
Arroyo Grande
Arru Islands
Arruague
Arry
Arryish
Ars Amatoria
Ars Antiqua
Ars Nova
Arsaces I
Arsacid
Arsacidan
Arseny
Arshile
Arsinoe
Arsinoitherium
Arsinous
Arsippe
Arst
Art
Art Deco
Art Index
Art Kusnyer
Art Modell
Art Nouveau
Art of Love, The
Arta
Artacia
Artair
Artamas
Artamidae
Artamus
Artas
Artaud
Artaxerxes I
Artaxerxes II
Arte
Artema
Artemas
Artemia
Artemis
Artemisa
Artemisia
Artemision
Artemisium
Artemovsk
Artemus
Artesia
Artesian
Arteveld
Artevelde
Artful Dodger
Artgum
Artha
Arthaud
Arther
Arthrobacter
Arthrodira
Arthrodonteae
Arthrogastra
Arthropoda
Arthropomata
Arthrostraca
Arthrozoa
Arthur
Arthur Deakin
Arusha
Arutiunian
Aruwimi
ArvArva
Arvad
Arvada
Arval
Arval Brothers
Arvales
Arvell
Arverni
Arvicola
Arvicolinae
Arvid
Arvida
Arvidas Sabonis
Arvie
Arvilla
Arvin
Arvind
Arvo
Arvol
Arvonia
Arvonio
Arvy
Ary
Arya
Arya Samaj
Aryaman
Aryan
Aryanise
Aryanised
Aryanising
Aryanism
Aryanization
Aryanize
Aryanized
Aryanizing
Aryeh Naor
Aryn
Aryo-dravidian
Aryo-indian
Arzachel
Arzava
Arzawa
As
As You Like It
As-yakh
Asa
Asa bridge
Asabi
Asael
Asag
Asahel
Asahi
Asahigawa
Asahikawa
Asante
Asantehene
Asaph
Asaphic
Asaphidae
Asaphus
Asapurna
Asar
Asaraceae
Asare
Asarh
Asarum
Asat
Asben
Asbestosis
Ashjornsen
Ashbury
Ashbury Park
Asc
Ascabart
Ascalabota
Ascalabus
Ascalaphus
Ascanian
Ascanius
Ascapart
Ascaridae
Ascaridia
Ascaris
Ascella
Ascenez
Ascension
Ascension Day
Ascension day
Ascension lily
Ascensiontide
Ascetta
Asch
Aschaffenburg
Ascham
Aschelminthes
Aschheim-Zondek test
Aschim
Aschoff body
Aschoff nodule
Ascidia
Asciidae
Asciidae compositae
Asciidae simplices
Ascidioidea
Ascidioidea
Ascidiozoa
Asclepi
Asclepiad
Asclepiadaceae
Asclepiidae
Asclepiade
Asclepiadean
Asclepiadic
Asclepian
Asclepias
Asclepieion
Asclepius
Asco
Ascochyta
Ascoli Piceno
Ascolichenes
Ascomycetes
Ascones
Ascophyllum
Ascot
Ascothoracica
Ascupart
Ascus
Ascutney
Ascyrum
Ase
Asel
Aselli
Asellidae
Aselline
Asellus
Asellus australis
Asellus borealis
Asenath
Aseneth
Aser
Aseyev
Asgard
Asgardhr
Asgarth
Asgeir
Asgeirsson
Ash
Ash Can School
Ash Wednesday
Ash wednesday
Asha
Ashab
Ashangsos
Ashantee
Ashanti
Ashanti pepper
Asharasi
Ashaway
Ashbaugh
Ashberry metal
Ashbey
Ashburn
Ashburnham
Ashburton
Ashbury metal
Ashby
Ashcan School
Ashcan school
Ashchenaz
Ashcroft
Ashdod
Ashdown
Ashe
Asheboro
Ashelman
Ashely
Asher
Asherah
Asherahs
Asherim
Asherite
Asherites
Asherton
Ashes
Asheville
Ashfield
Ashford
Asia Major
Asia Minor
Asian
Asian and Pacific Council
Asian cholera
Asian flu
Asian influenza
Asianic
Asianism
Asiarch
Asiarchate
Asiatic
Asiatic beetle
Asiatic buffalo
Asiatic cholera
Asiatic flu
Asiatic globeflower
Asiatic influenza
Asiatical
Asiatically
Asiatican
Asiaticism
Asiaticization
Asiaticize
Asiatize
Asilidae
Asilomar
Asilus
Asimina
Asine
Asio
Asir
Asius
Ask
Askari
Askelon
Askja
Asklepios
Askov
Askr
Askwith
Aslam
Asmara
Asmodeus
Asmonaean
Asmonean
Asni
Asnieres
Aso
Asoka
Asopus
Asosan
Asotin
Asp
Aspa
Aspalax
Aspartame
Aspasia
Aspatia
Aspen
Asperges
Aspergillaceae
Aspergillales
Asperifoliae
Aspermont
Aspern Papers, The
Aspers
Asperugo
Asperula
Asphalius
Asphodel Fields
Asphodelaceae
Asphodeline
Asphodelus
Aspia
Aspidiotus
Aspidiske
Aspidistra
Aspidobranchia
Aspidobranchiata
Aspidocephali
Aspidochirota
Aspidoganoidei
Aspidosperma
Aspinwall
Asplenieae
Asplenium
Aspredinidae
Aspredo
Asquith
Asroc
Assad
Assam
Assam States
Assam rubber
Assam silk
Assama
Assamese
Assamites
Assaracus
Assaria
Assassin
Assassination plot
Assawoman
Assembly
Assembly of the Notables
Assen
Asser
Asshur
Assidaean
Assidean
Assiniboin
Assiniboine
Assiniboins
Assisan
Assisi
Assiut
Assmannshausen
Assmannshauser
Assn
Associate Justice
Associate of Arts
Associated Press
Association Football
Assonet
Assonia
Assouan
Assuan
Assuerus
Assumption
Assumptionist
Assur
Assurbanipal
Assurnasirpal II
Assyr
Assyria
Assyrian
Assyrianize
Assyriological
Assyriologist
Assyriologue
Assyriology
Assyro-Babylonian
Assyro-babylonian
Assyroid
Assyut
Asta
Astacidae
Astacus
Astaire
Astakiwi
Astarte
Astartian
Astartidae
Astatula
Astera
Asteraceae
Asterales
Asterella
Asteria
Asterias
Asteriidae
Asterina
Asterinidae
Asterion
Asterionella
Asterius
Asternata
Asterochiton
Asterodia
Asteroidea
Asterolepidae
Asterolepis
Asteropaeus
Asterope
Asterophyllites
Asterospondyli
Asteroxylaceae
Asteroxylon
Asterozoa
Asti
Asti Spumante
Astian
Astilbe
Astispumante
Astolat
Aston
Aston dark space
Astor
Astoria
Astra
Astrabacus
Ata
Atabalipa
Atabrine
Atabyrian
Atacama Desert
Atacaman
Atacamian
Atacameno
Ataentsic
Atahualpa
Ataigal
Ataiyal
Atakapa
Atakapas
Atal
Atalan
Atalanta
Atalante
Atalanti
Atalaya
Atalayah
Atalee
Atalie
Atalissa
Atalya
Atamosco
Atarax
Atascadero
Atascosa
Atat
Ataturk
Atbara
Atcheson
Atchison
Atcliffe
Atco
Ate
Ateba
Ateles
Atellan
Aten
Atenism
Atenist
Aterian
Ateste
Ateste
Atfalati
Atglen
Athabasca
Athabascan
Athabaska
Athabaskan
Athal
Athalee
Athalia
Athaliah
Athalie
Athalla
Athallia
Athamantid
Athamas
Athanaskan
Athanasi Creed
Athanasianism
Athanasiolist
Athanasius
Athapascan
Athapaskan
Atheva-Veda
Atharvan
Athecae
Athe cata
Atheł
Athełbert
Athełred
Athełstan
Athełstane
Athena
Athenaea
Athenaeum
Athenaeus
Athenaeus of Attaleia
Athenagoras
Athenagoras I
Athenai
Athene
Athenian
Athenianly
Athenienne
Athens
Athericera
Atherinidae
Atheriogaea
Atheriogae ans
Atheris
Atherosperma
Atherton
Atherurus
Athey
Athie
Athiste
Athol
Athos
Athyridae
Athyris
Athyrium
Ati
Atiana
Atik
Atikokania
Atila
Atka
Atka mackerel
Atkins
Atkinson
Atlanta
Atlante
Atlantean
Atlantic
Atlantic Charter
Atlantic City
Atlantic Highlands
Atlantic Intracoastal Waterway
Atlantic Ocean
Atlantic Pact
Atlantic Provinces
Atlantic Standard Time
Atlantic croaker
Atlantic puffin
Atlantic time
Atlantica
Atlantid
Atlantides
Atlantis
Atlanto-mediterranean
Atlantosaurus
Atlas
Atlas Mountains
Atlas cedar
Atlas-Agena
Atlas-Centaur
Atlas-Score
Atlasburg
Atlaslike
Atlee
Atli
Atman
Atmore
Atmos clock
Atnah
Atoka
Atoll Eniwetak
Atomic Age
Atomic Energy Authority
Atomic Energy Commission
Aton
Atonsah
Atophan
Atorai
Atossa
Atoxyl
Atractaspis
Atragene
Atrahasis
Atrax
Atrebutes
Atremata
Atreus
Atrice
Atridae
Atridean
Atriplex
Atronna
Atropa
Atropatene
Atropidae
Atropos
Atrypa
Atsugi
Att Gen
Atta
Atacapan
Attacus
Attah
Attalanta
Attalea
Attalid
Attalie
Attalla
Attalus I
Aube
Auber
Auberbach
Auberge
Auberon
Auberry
Aubert
Auberta
Aubervilliers
Aubigny
Aubin
Aubine
Aubre
Aubreir
Aubrette
Aubrey
Aubrie
Aubrieta
Aubry
Auburn
Auburndale
Auburntown
Auburta
Aubusson
Aubusson rug
Aubyn
Auca
Aucan
Aucaner
Aucanian
Aucassin and Nicolette
Aucassin et Nicolette
Auchenia
Auchincloss
Auchinleck
Auckland
Auckland Islands
Aucuba
Audaean
Aude
Auden
Audette
Audhumla
Audhumla
Audi
Audian
Audibertia
Audie
Aunt Sally
Aunt jericho
Aura
Aural
Aurangzeb
Aurantiaceae
Aurantium
Aurea
Aurel
Aurel Cornea
Aurelea
Aurelia
Aurelian
Aurelie
Aurelio
Aurelius
Aureocasidium
Aureomycin
Aures
Auria
Auric
Auricula
Auricularia
Auriculariaceae
Auriculariales
Auriculidae
Aurie
Auriga
Aurigae
Aurigid
Aurignac
Aurignacian
Aurilia
Auriol
Aurita
Aurlie
Auroora
Aurora
Aurora 7
Aurore
Aurorian
Aurthur
Aurum
Aurungzeb
Aus
Ausuble
Auschwitz
Auscultoscope
Ause
Ausgleich
Ausgleiche
Aushar
Auslander
Auslese
Ausones
Ausonian
Ausonius
Aussie
Aust
Austafrikan
Austell
Austen
Auster
Austerlitz
Austin
Austin Friar
Austin's summer
Austria
Austenburg
Austine
Austinville
Auston
Austral
Austral Islands
Austral-english
Australanthropus
Australasia
Australasian
Australe
Australia
Australia Day
Australian
Australian Alps
Australian Antarctic Territory
Australian Capital Territory
Australian English
Australian Rules
Australian aborigine
Australian ballot
Australian bent grass
Australian bluebell creeper
Australian crane
Australian crawl
Australian fan palm
Australian pea
Australian rye grass
Australian seal
Australian tea tree
Australian terrier
Australian-oak
Australian-oak family
Australiana
Australianism
Australianize
Australic
Australioid
Australis
Australoid
Australoid race
Australopithecinae
Australopithecine
Australopithecus
Australorp
Austrasia
Australasian
Austreng
Austria
Austria-Hungary
Austrian
Austrian brier
Austrianize
Austric
Austro-
Austro-Asiatic
Austro-Hungarian
Austro-Prussian War
Austro-columbia
Austro-columbian
Austro-hungarian
Austro-malayan
Austro-swiss
Austroasiatic
Austrogaea
Austrogaean
Austronesia
Austronesian
Austrophil
Austrophile
Austrophilism
Austroriparian
Austwell
Autarchoglossa
Autaugaville
Auteuil
Avestan
Aveyron
Avi
Avice
Avicebron
Avicenna
Avicennia
Avicenniaceae
Avicennism
Avictor
Avicula
Avicularia
Aviculariidae
Avicularimorphae
Aviculidae
Avie
Aviemore
Avigdor
Avignon
Avignonese
Avikom
Avila
Avila Camacho
Avilion
Avilla
Avinger
Avis
Avisco
Aviston
Avitzur
Aviv
Aviva
Avivah
Avlona
Avner
Avo
Avoca
Avogadro
Avogadro constant
Avogadro number
Avogadro's law
Avogadro's number
Avon
Avon Lake
Avondale
Avonmore
Avonne
Avra
Ayden
Aydendron
Aydin
Aydtett
Ayer
Ayers
Ayers Rock
Ayesha
Ayina
Aylesbury
Aylett
Aylmar
Aylmer
Aylsworth
Aylward
Aym
Aymara
Aymaran
Aymaras
Ayme
Aymer
Aymoro
Ayn
Aynat
Aynor
Ayntab
Ayo
Ayr
Ayres
Ayrshire
Ayrton Senna
Aythya
Ayub Kalule
Ayub Khan
Ayubite
Ayudhya
Ayurveda
Ayurvedic
Ayuthea
Ayuthia
Ayutthaya
Ayyubid
Azal
Azalea
Azaleah
Azalia
Azan
Azana
Azande
Azar
Azarcon
Azaria
Azariah
Azarria
Azazel
Azbine
Azeglio
Azeito
Azelea
Azelfafage
Azerbaidzhan
Azerbaijan
Azerbaijanesi
Azerbaijani
Azerbaijanian
Azerbaijanis
Azeredo da Silveira
Azeria
Azha
Azide
Azikiwe
Azilian
Azilian-tardenoisian
Azimech
Aziz Aldhab
Aziza
Azle
Aznavour
Azof
Azolla
Azophi
Azor
Azores
Azores high
Azorian
Azorin
Azotobacter
Azotobacteriaceae
Azotos
Azov
Azpurua
Azrael
Azral
Azriel
Aztec
Aztec marigold
Azteca
Aztecan
Azuela
Azuero
Azusa
Azygobranchia
Azygobranchiata
Azzedine Bey
B
B Special
B and B
B battery
B board
B complex
B horizon
B major
B mi
B minor
B natural
B powder
B power supply
B quadrum
B rotundum
B supply
B'naï B'rith
B's
B-
B-axes
B-axis
B-flat
B-flat major
B-flat minor
B-girl
B-scope
B-shaped
B-type
B/B
B/C
B/D
B/E
B/F
B/L
B/O
B/P
B/R
B/S
B/W
B/o
B911
BA
BAA
BACH
BAE
BAEd
BAFO
BAJour
BAL
BALPA
BALUN
BAM
BAMAF
BAMusEd
BANCS
BAO
BAOR
BAPCO
BAPCT
BAR
BARRNET
BAS
BASH
BASIC
BASc
BATSE
BAU
BAcc
BAdmEng
BAg
BAgE
BAgSc
B Agr
BAppArts
BAr
BArch
BArchE
BB
BB gun
BB shot
BBA
BBB
BBC
BBL
BBN
BBXRT
BC
BCBS
BCC
BCD
BCDIC
BCE
BCG vaccine
BCL
BCM
BCP
BCPL
BCR
BCS
BCWP
BCWS
BCerE
BCh
BChE
BCom
BComSc
BD
BDA
BDC
BDD
BDF
BDS
BDSA
BDT
BDes
BE
BEA
BEAV
BED
BEE
BEF
BELLCORE
BEM
BEMA
BENELUX
BEP
BER
BERT
BES
BEST
BETRS
BEW
BEd
BEng
BF
BFA
Babesia
Babette
Babeuf
Babhan
Babi
Babiana
Babiism
Babine
Babinski reflex
Babinski sign
Babinski's reflex
Babinski's sign
Babism
Babist
Babita
Babite
Babits
Babol
Babongo
Babouvisim
Babouvist
Babrak Karmal
Babs
Bahson
Babua
Babuma
Babungera
Babur
Babuyan Islands
Baby-bouncer
Baby-walker
Babylon
Babylonia
Babylonian
Babylonian captivity
Babylonian sibyl
Babylonian splendor
Babylonic
Babylonish
Babylonism
Babylonite
Babylonize
Bac
Bacardi
Bacau
Bacchae
Bacchae, The
Bacchanalia
Bacchanalias
Bacchelli
Bacchic
Bacchical
Bacchides
Bacchus
Bacchuslike
Bacchylides
Baccio
Bach
Bach trumpet
Bacharach
Bache
Bacheller
Bachelor of Arts
Bachelor of Divinity
Bachelor of Science
Bachichi
Bachman
Bacillaceae
Bacillariaceae
Bacillariales
Bacillarieae
Bacillariophyta
Bacis
Back Bay
Back River
Back bay
Backer
Backhaus
Backler
Backs
Backstein
Backus
Bacliff
Baco
Bacolod
Bacon
Bacon's Rebellion
Baconian
Baconian method
Baconian theory
Baconianism
Baconic
Baconism
Baconist
Baconton
Bacopa
Bacova
Bacteriaceae
Bacteroidae
Bacteroides
Bactra
Bactria
Bactrian
Bactrian camel
Bactris
Bactrites
Baculites
Bad Axe
Bad Godesberg
Bad Kreuznach
Bad Lands
Badacsonyi
Badaga
Badajoz
Badakhshan
Badalona
Badarian
Badawi
Badaxe
Badb
Baden
Baden-Baden
Baden-Powell
Baden-Wtemberg
Badger
Badger State
Badger state
Badin
Badoeng
Badoglio
Badon
Badr
Baduhenna
Baecher
Baeda
BAedeker
BAedeker raid
BAedekerian
BAekeland
Bael
Baelbeer
Baer
Baeria
Baerl
Baerman
Baese
Baeyer
Baez
Bafemi Awolowo
Baffin
Baffin Bay
Baffin Island
Baffin Land
Bafyot
Baganda
Bagatha
Bagaudae
Bagdad
Bagdad boil
Bagdi
Bagehot
Baggara
Bagger
Baggett
Baggott
Baggs
Baghdad
Baghdad Pact
Bagheera
Bagheli
Baghlan
Baginda
Bagirmi
Bagley
Bagnes
Bagobo
Bagpuize
Bagram
Bagritski
Baguio
Bagwell
Baha Blanca
Baha'i
Baha'ullah
Bahai
Bahaism
Bahaist
Baham
Bahama
Bahama Islands
Bahama bay rush
Bahama fiber
Bahama grass
Bahama hemp
Bahama mahogany
Bahama redwood
Bahama tea
Bahama whitewood
Bahamas
Bahamian
Bahasa Indonesia
Bahaullah
Bahawalpur
Bahia
Bahia de los Cochinos
Bahia grass
Bahia piassava
Bahia powder
Bahima
Bahmani
Bahmanid
Bahner
Bahr
Bahrain
Bahrein
Bahrudin Bijedic
Bahuma
Bahutu
Bai
Baia de Lourenco Marques
Baiæ
Baianism
Baidya
Baiel
Baiera
Baikal
Baikonur
Bail
Bail court
Bailar
Baile ath
Bailey
Bailey bridge
Bailey's beads
Baileyton
Baileyville
Bailie
Bailaud
Baillie
Baillieu
Baillonella
Bailly
Baily
Baily's beads
Bain
Bainbridge
Bainbridge
Baining
Bains
Bainter
Bainville
Bairam
Baird
Baird Mountains
Bairdford
Baire category theorem
Bairnsfather
Bairoil
Bais
Baisakh
Baisden
Baiss
Baja
Baja California
Baja California Sur
Bajadero
Bajaj
Bajan
Bajardo
Bajau
Bajer
Bajocian
Bak
Bakairi
Bakalai
Bakalei
Bakatan
Bakelite
Bakeman
Bakemeier
Baker
Baker Island
Baker tent
Baker-Nunn camera
Bakerman
Bakersfield
Bakerstown
Bakersville
Bakerton
Bakes
Bakewell
Bakewell pudding
Bakewell tart
Bakhmut
Bakhtiari
Bakke
Bakki
Bakongo
Bakshaish
Bakst
Baku
Bakuba
Bakunda
Bakunin
Bakuninism
Bakuninist
Bakutu
Bakwiri
Bal
Bala
Balaam
Balaamite
Balaamitical
Balac
Balaclava
Balaclava helmet
Balaena
Balaenicientes
Balaenidae
Balaenoidea
Balaenoptera
Balaenopteridae
Balaic
Balak
Balakirev
Balaklava
Balan
Balance
Balanchine
Balanga
Balanidae
Balanites
Balanoglossida
Balanoglossus
Balanophora
Balanophoraceae
Ballentine
Ballhausplatz
Ballico
Balliett
Ballign
Ballinger
Ballington
Balliol
Ballistite
Ballman
Ballota
Ballou
Ballouville
Ballplatz
Ballston Spa
Ballwin
Bally
Ballylumford
Balmain
Balmarcodes
Balmat
Balmawhapple
Balmer series
Balmont
Balmoral
Balmoral Castle
Balmorhea
Balmunc
Balmung
Balmuth
Balmbarbi
Baloch
Balochi
Balochis
Baloglia
Balolo
Balopticon
Balor
Baloskion
Baloskionaceae
Balough
Balsam
Balsam wool
Balsamea
Balsameaceae
Balsaminaceae
Balsamodendron
Balsamorrhiza
Balshem
Balt
Balta
Baltassar
Balthasar
Balthazar
Balti
Baltic
Baltic Exchange
Baltic Sea
Baltic Shield
Baltic States
Baltic leopard
Baltic tiger
Baltimore
Baltimore belle
Baltimore bird
Baltimore catechism
Baltimore chop
Baltimore clipper
Baltimore heater
Baltimore oriole
Baltimore shilling
Baltimore truss
Baltimore yellow
Baltimorean
Baltis
Balto-Slavic
Balto-Slavonic
Balto-slav
Balto-slavic
Balto-slavonic
Baluba
Baluch
Baluchi
Baluchis
Baluchistan
Baluchistan Province
Baluchistan States
Baluchitherium
Baluga
Balunda
Balzac
Balzadian
Bamako
Bamalip
Bamangwato
Bambara
Bambara groundnut
Bamberg
Bamberg bible
Bamberger
Bambi
Bambie
Bamboo books
Bambos
Bambuba
Bambusa
Bambuseae
Bambute
Bamby
Bamford
Bamian
Bamian Province
Bamileke
Ban
Ban Me Thout
Bana
Banach
Banach space
Banana bender
Bananaland
Bananalander
Banande
Banaras
Banares
Banat
Banate
Banba
Banbury
Banbury bun
Banbury cake
Banbury tart
Banco
Bancroft
Bancus regis
Band-Aid
Banda
Banda Sea
Bandana
Bandar Abbas
Bandar Lahngeh
Bandar Seri Begawan
Bandar-log
Bandaranaike
Bandeen
Banjermasin
Banjul
Bank
Bank of England
Bank of France
Bank stock
Banka
Bankalachi
Bankhead
Banking
Banks
Banks Island
Banks' rose
Banksa Bystrica
Banksia
Banksian
Bankside
Bankston
Banky
Banlon
Bann
Banna
Bannasch
Banner
Bannerman
Banning
Bannister
Bannock
Bannockburn
Bannon
Banon
Banquer
Banquete
Banquo
Banstead
Bantam
Bantam work
Banthine
Banti's syndrome
Banting
Bantingism
Bantoid
Bantry
Bantu
Bantus
Bantustan
Banville
Banwell
Banyai
Banyoro
Banyuls
Bao Dai
Bap
Baphia
Baphomet
Baphometric
Bapt
Baptanodon
Baptisia
Baptist
Baptista
Baptiste
Baptistic
Baptistown
Baptista
Baptornis
Bar
Bar Cochba
Bar Cocheba
Bar Harbor
Bar Kokba
Bar Le Duc
Bar-le-duc
Bara
Barabas
Barabbas
Baraboo
Baraboo quartzite
Barabra
Barac
Baraca
Baracoa
Baraga
Barahona
Baraithas
Barajas
Barak
Baralipton
Baram
Baramika
Baranof Island
Baranov
Barany
Baras
Barashit
Barataria
Baray
Barayon
Barb
Barbabas
Barbabra
Barbacoa
Barbacoan
Barbadian
Barbados
Barbados aloe
Barbados aloe
Barbados aloe
Barbados cabbage tree
Barbados cherry
Barbados cotton
Barbados earth
Barbados flower fence
Barbados gooseberry
Barbados leg
Barbados lily
Barbados liquor
Barbados maidenhair
Barbados nut
Barbados pride
Barbados royal palm
Barbados sour grass
Barbados tar
Barbados trumpet flower
Barbados water
Barbados yam
Barbados-cherry family
Barbara
Barbara-Anne
Barbaraanne
Barbarea
Barbaresco
Barbarese
Barbaresi
Barbarian
Barbarossa
Barbary
Barbary Coast
Barbary States
Barbary ape
Barbary buttons
Barbary corn
Barbary dove
Barbary ducat
Barbary fig
Barbary horse
Barbary mastic
Barbary oak
Barbary pepper
Barbary pigeon
Barbary sheep
Barbary thorn
Barbe
Barbeau
Barbee
Barber
Barber of Seville
Barbera
Barberton
Barberville
Barbette
Barbey
Barbeyaceae
Barbi
Barbica
Barbie
Barbiere di Siviglia II
Barbirolli
Barbizon
Barbizon School
Barbizon school
Barbour
Barboursville
Barbourville
Barboza
Barbra
Barbuda
Barbula
Barbur
Barbusse
Barbuto
Barby
Barca
Barcan
Barce
Barcellona
Barcelona
Barcelona chair
Barcelona nut
Barceloneta
Barchester Towers
Barclay
Barclay de Tolly
Barco
Barcoo
Barcoo River
Barcoo grass
Barcoo salute
Barcoo vomit
Barcot
Barcroft
Barcus
Bard
Barde
Bardeen
Barden
Bardesanism
Bardesanist
Bardesanite
Bardia
Bardo
Bardolater
Bardolatry
Bardolino
Bardolph
Bardolphian
Bardot
Bardstown
Bardulph
Bardwell
Bare
Barea
Barefoot
Barefoot Boy
Bareilly
Bareli
Barenboim
Barents
Barents Sea
Barfuss
Barger
Bargersville
Barhamsville
Bari
Bari delle Puglie
Bariloche
Barimah
Barina
Barinas
Baring
Barisal guns
Barnsdall
Barnsley
Barnstable
Barnstead
Barnstock
Barnum
Barnumesque
Bannumism
Barnumize
Barnwell
Banny
Barocchio
Barocius
Baroco
Baroda
Baroja
Barolet
Barolo
Barolang
Baron
Baron Munchausen
Baron of the Exchequer
Baronga
Barons' War
Baroque
Barosma
Barosma camphor
Barotse
Barotseland
Barouni
Barozzi
Barquero
Barquisimeto
Barr
Barra
Barrack-Room Ballads
Barrackville
Barrada
Barram
Barrancabermeja
Barranquilla
Barranquitas
Barrault
Barraza
Barre
Barred Plymouth Rock
Barree
Barren
Barren Grounds
Barren Lands
Barren ground bear
Barren ground caribou
Barren grounds
Barres
Barret
Barrett
Barretts of Wimpole Street, The
Barri
Barrie
Barrientos
Barrington
Barringtonia
Barrios
Barris
Barron
Barronett
Barros
Barrow
Barrow Point
Barrow-in-Furness
Barrowist
Barrus
Barry
Barry Mcguigan
Barry Minkow
Barry Mountains
Barrymore
Barryton
Barrytown
Barryville
Barsac
Barsky
Barstow
Bart
Bart Giamatti
Barta
Bartel
Bartelso
Bartered Bride, The
Barth
Barthel
Barthelemy
Barthian
Barthianism
Barthol
Barthold
Bary
Bary Bowdach
Barye
Baryram
Barzani
Bas-Rhin
Bascio
Basco
Bascology
Bascom
Bascomb
Base
Basehor
Basel
Basel-Land
Basel-Mulhouse
Basel-Stadt
Baseler
Basella
Basellaceae
Basenji
Basham
Bashan
Bashee
Bashemath
Bashemeth
Bashilange
Bashir Azmeh
Bashir Gemayel
Bashkir
Bashkiria
Bashmuric
Basho
Bashuk
Basia
Basibracteolate
Basic
Basic English
Basidiolichenes
Basidiomycetes
Basie
Basil
Basilan
Basilarchia
Basildon
Basile
Basilian
Basilica
Bassenthwaite
Basses-Alpes
Basses-Pyrénées
Basset
Basseterre
Bassett
Bassetts
Bassfield
Bassia
Basso
Bassora gum
Bast
Bastaard
Bastad
Bastard
Bastia
Bastian
Bastien
Bastien et Bastienne
Bastille
Bastille Day
Bastille day
Bastogne
Bastrop
Basuto
Basutoland
Basutos
Basye
Bat
Bat indian
Bataan
Bataan-Corregidor
Batak
Batan
Batan Islands
Batanes
Batangas
Batatas
Batavi
Batavia
Batavia cassia
Batavian
Batchelder
Batchelor
Batchtown
Bate
Bateau Ivre, Le
Batekes
Bateman
Baten
Baten kaitos
Bates
Batesburg
Batesian mimicry
Batesland
Batesville
Batetela
Bath
Bath Oliver
Bath brick
Bath bun
Bath chair
Bath chap
Bath coating
Bath coup
Bath king-of-arms
Bath metal
Bath note
Bath oliver
Bath stone
Bath-sheba
Batha
Bathala
Bathelda
Bathesda
Bathildia
Bathilde
Bathinette
Batholomew
Bathonian
Bathsheb
Bathsheba
Bathsheeb
Bathulda
Bathurst
Bathurst bur
Batia
Batidaceae
Batilda
Batis
Batish
Batista
Batley
Batman
Batna
Batocrinidae
Batocrinus
Batodendron
Batoidei
Batoka
Baton
Baton Rouge
Batonga
Bator
Batory
Batrachia
Batrachidae
Batrachium
Batrachoididae
Batrachophidia
Batrachospermum
Batruk
Batsheva
Batson
Batta
Battak
Battakhin
Battambang
Battat
Battelle
Battelmatt
Battenberg lace
Battenburg
Battersea
Battery
Battery Park
Batticaloa
Battiest
Battipaglia
Battista
Battiste
Battle Creek
Battle of Britain
Battle of New Orleans Day
Battle of San Romano, The
Battle of the Books, The
Battle of the Bulge
Battle-Ax culture
Battleboro
Battletown
Battus
Batty
Batum
Batumi
Batussi
Baxie
Baxley
Baxter
Baxter Springs
Baxter print
Baxterian
Baxterianism
Baxy
Bay
Bay Minette
Bay Psalm Book
Bay State
Bay Stater
Bay Street
Bay of Dews
Bay of Pigs
Bay state
Baya
Bayam
Bayamo
Bayamon
Bayar
Bayard
Bayboro
Bayda
Bayeau
Bayer
Bayer process
Bayern
Bayesian
Bayeux tapestry
Bayfield
Bayh
Bayle
Bayless
Bayley
Baylis
Baylor
Bayly
Bayminette
Baynebridge
Bayogoula
Bayonne
Bayou La Batre
Bayou state
Bayougoingla
Baypines
Bayport
Beaufort Sea
Beaufort myrtle
Beaufort scale
Beauharnais
Beaujolais
Beaujolaises
Beaulieu
Beaumarchais
Beaumont
Beaumontia
Beaune
Beaupre de Roybon
Beauregard
Beauvais
Beauvais tapestry
Beauvoir
Beaux Arts
Beaux' Stratagem, The
Beaux-Arts
Beaver
Beaver Falls
Beaver State
Beaver state
Beaverboard
Beaverbrook
Beaverdale
Beaverkill
Beaverlett
Beaverton
Beavertown
Beaverville
Bebe
Bebel
Beberg
Bebington
Bebryces
Bebung
Becca
Beccaria
Becchi test
Beche-de-Mer
Bechet
Bechler
Bechner funnel
Becht
Bechtel
Bechtelsville
Bechtler
Bechuana
Bechuanaland
Bechuanas
Beck
Becka
Becke test
Beckemeyer
Becker
Beckerman
Becket
Beckett
Beckford
Becki
Beckie
Beckley
Beckman
Beckmann
Beckmann rearrangement
Beckmann thermometer
Beckville
Beckwith
Becky
Becquer
Becquerel
Becquerel ray
Becquerel rays
Bedad
Bedaux plan
Bedaux system
Beddoes
Bede
Bedelia
Bedell
Bedford
Bedford Heights
Bedford cord
Bedford limestone
Bedford shale
Bedfordshire
Bedias
Bedivere
Bedlam let loose
Bedlamic
Bedlington
Bedlington terrier
Bedlingtonshire
Bedloe Island
Bedloe's Island
Bedminster
Bedouin
Bedouinism
Bedouins
Bedrich Geminder
Bedrich Hosticka
Beds
Beduin
Beduins
Bedwell
Bedworth
Bee
Beeb
Beebe
Beecham
Beechbottom
Beecher
Beechmont
Beeck
Beedeville
Beedon
Beehive
Beehive state
Beehouse
Beekman
Beekmantown
Beeler
Beelzebub
Beelzebubian
Beelzebul
Beemer
Beer
Beera
Beerbohm
Beernaert
Beerothite
Beers
Beersheba
Beersheeba
Beesley
Beeson
Beethoven
Beethovenian
Beethovenish
Beethovenian
Beetner
Beetown
Beeville
Belknap
Bell
Bell Gardens
Bell purchase
Bell system
Bell's palsy
Bell's purchase
Bell's tackle
Bella
Bellabella
Bellacoola
Bellaghy
Bellaghy County
Bellaire
Bellamy
Bellanca
Bellartur
Bellatrix
Bellaude
Bellay
Bellbrook
Bellbuckle
Belida
Belldame
Belldas
Belle
Belle Dame Sans Merci, La
Belle Fourche
Belle Isle
Belle Meade
Belle Plaine
Belle isle cress
Belleau Wood
Bellechasse
Belleek
Belleek ware
Bellefonte
Belelay
Bellemead
Bellemina
Belleplaine
Beller
Bellerive
Bellerophon
Bellerophon limestone
Bellerophonites
Bellerophobic
Bellerophontic
Bellerophontic letter
Belorussia
Belorussian
Belostok
Belostoma
Belostomatidae
Belostomidae
Belovo
Belpre
Belsano
Belsen
Belshazzar
Belshazzaresque
Belshin
Belsky
Belt Mountains
Belt series
Beltane
Belted Galloway
Beltene
Belter
Belteshazzar
Beltian
Beltir
Beltis
Belton
Beltrami
Beltran
Beltsville
Beltu
Beluchi
Belucki
Belus
Belva
Belvedere
Belverdian
Belvia
Belvidere
Belview
Belvue
Bely
Belzoni
Bemba
Bembas
Bembecidae
Bemberg
Bembex
Bemelmans
Bement
Benedetto
Benedetto Croce
Benedic
Benedicite
Benedick
Benedict
Benedict Arnold
Benedict I
Benedict II
Benedict III
Benedict IV
Benedict IX
Benedict V
Benedict VI
Benedict VII
Benedict VIII
Benedict XI
Benedict XII
Benedict XIII
Benedict XIV
Benedict XV
Benedict's solution
Benedict's test
Benedicta
Benedictine
Benedictinism
Benedicto
Benedictus
Benedikt
Benedikta
Benediktov
Benedix
Benelux
Benemid
Benenson
Benes
Benet
Benet-Mercie
Benetnasch
Benetta
Beneventan
Beneventana
Benevento
Benezett
Benfleet
Beng
Bengal
Bengal catechu
Bengal gram
Bengal grass
Bengal heat
Bengal hemp
Bengal isinglass
Bengal kino
Bengal light
Bengal lily
Bengal madder
Bengal monkey
Bengal quince
Bengal root
Bengal rose
Bengal sage
Bengal silk
Bengal stripes
Bengal tiger
Bengalese
Bengali
Bengalic
Bengasi
Benge
Benghazi
Bengkalis
Bengola
Bengt
Bengt Gustafsson
Benguela
Benguella Current
Benguella current
Benham
Benham disk
Benhur
Beni
Beni Hasan
Beni abbas
Beni amer
Beni-israel
Benia
Beniamino
Benicia
Benigno Aquino
Benil
Benilda
Benildas
Benildis
Benin
Benin City
Beranger
Berar
Berard
Berardo
Berber
Berbera
Berberi
Berberian
Berberidaceae
Berberis
Berchemia
Berchta
Berchtesgaden
Berck
Berclair
Bercovici
Bercy
Bercy sauce
Berdichev
Berdyaev
Berdyayev
Berea
Berea grit
Berea sandstone
Berean
Berecynthia
Berengaria
Berengarian
Berengarianism
Berenice
Berenice's Hair
Berenices
Berenson
Beresford
Beresith
Beret
Beretta
Berey
Berezina
Berezniki
Berfield
Berg
Berg damara
Berga
Bergama
Bergamask
Bergamee
Bergamo
Berkefeld filter
Berkeleian
Berkeleianism
Berkeley
Berkeleyism
Berkeleyite
Berkey
Berkie
Berkin
Berkley
Berkly
Berkman
Berkow
Berkowitz
Berks
Berkshire
Berkshire Hills
Berkshires
Berky
Berl
Berlauda
Berlen
Berlichingen
Berlin
Berlin black
Berlin blue
Berlin canvas
Berlin glove
Berlin green
Berlin iron
Berlin kettle
Berlin papyri
Berlin porcelain
Berlin shop
Berlin wall
Berlin ware
Berlin warehouse
Berlin wool
Berlin work
Berlinda
Berliner
Berlinguer
Berlinize
Berlioz
Berlitz
Berlon
Berlyn
Berlyne
Berman
Bermejo
Bermuda
Bermuda arrowroot
Bermuda berry
Bermuda buttercup
Bermuda catfish
Bermuda cedar
Bermuda chub
Bermuda cress
Bermuda cutter
Bermuda flag
Bermuda grass
Bermuda high
Bermuda iris
Bermuda juniper
Bermuda lily
Bermuda maidenhair
Bermuda mulberry
Bermuda olivewood bark
Bermuda onion
Bermuda palmetto
Bermuda petrel
Bermuda potloo-cedar
Bermuda rig
Bermuda shilling
Bermuda shorts
Bermuda snowberry
Bermuda-lily disease
Bermudan
Bermudan rig
Bermudas
Bermudian
Bermudian rig
Bern
Bern bureau
Berna
Bernadene
Bernadette
Bernadette of Lourdes
Bernadina
Bernadine
Bernadotte
Bernal
Bernalillo
Bernanos
Bernard
Bernard of Clairvaux
Bernardi
Bernardin de Saint-Pierre
Bernadina
Bernardine
Bernardino
Bernardo
Bernardo Benes
Bernardston
Bernardsville
Bernarr
Bernat
Berne
Bernelle
Berner
Berners
Bernese
Bernese Alps
Bernese mountain dog
Bernet
Berneta
Bernete
Bernetta
Bernette
Bernhard
Bernhard Langer
Bernhardi
Bernhardt
Berni
Bernice
Bernicia
Bernie
Bernie Federko
Berniece
Bernina
Bernina Pass
Berninesque
Bernini
Bernis
Bernita
Bernj
Bernkasteler
Bernoulli
Bernoulli
Bernoulli distribution
Bernoulli effect
Bernoulli equation
Bernoulli trials
Bernoulli’s lemniscate
Bernoulli's principle
Bernoulli's theorem
Bernoullian
Bernreuter personality inventory
Berns
Bernstein
Bernstorff
Bernt
Bernville
Berny
Beroe
Beroida
Beroidae
Berosos
Berosus
Beroun
Berra
Berrellez
Berres Luis Batlle
Berri
Berrie
Berriman
Berry
Berryman
Berrysburg
Berryton
Berryville
Bersag horn
Bersiamite
Bersil
Berstine
Bert
Bert Pena
Berta
Bertalan Farkas
Bertasi
Bertat
Bertaud
Berte
Bertelli
Bertero
Berteroa
Bertha
Bertha von
Berthe
Berthold
Bertholletia
Berthoud
Berti
Bertie
Bertila
Bertilla
Bertillon
Bertillon system
Bertina
Bertine
Bertle
Bertoia
Bertold
Bertolde
Bertolonia
Bertolt
Bertolucci
Berton
Bertram
Bertrand
Bertrand curves
Bertrand lens
Bertrando
Bertrant
Bertsche
Berty
Berwick
Berwick-upon-Tweed
Berwickshire
Berwind
Berwyn
Berycidae
Berycoidea
Berycoidei
Berycomorphi
Beryl
Beryle
Berytidae
Beryx
Berzelius
Bes
Besancon
Besant
Beseleel
Beshore
Besier
Besnard
Bess
Bessarabia
Bessarabian
Bhaga
Bhagalpur
Bhagavad-Gita
Bhai
Bhairava
Bhairavi
Bhaktapur
Bhar
Bharat
Bharat Natyam
Bharata
Bharatiya
Bhatpara
Bhatt
Bhaunagar
Bhavabhuti
Bhavani
Bhave
Bhavnagar
Bhayani
Bhikku
Bhikkuni
Bhikshu
Bhil
Bhili
Bhima
Bhojpuri
Bhola
Bhoodan
Bhopal
Bhotia
Bhotiya
Bhowani
Bhubaneswar
Bhutan
Bhutan cypress
Bhutan pine
Bhutanese
Bhutani
Bhutatathata
Bhutia
Bhutto
Bi
Bia
Biblia Pauperum
Biblic
Biblical
Biblical Aramaic
Biblical Hebrew
Biblical Latin
Bibicality
Biblically
Biblicism
Biblicist
Biblicistic
Biblicolegal
Biblicoliterary
Biblicopsychological
Bibliography Index
Bibliotheque Nationale
Biblism
Biblist
Bibulus
Bicakci
Bice
Bice blue
Bichat
Biche-la-mar
Bichelamar
Bichon Frise
Bick
Bickart
Bickford fuse
Bickleton
Bickmore
Bicknell
Bicol
Bicols
Bicorn
Bida
Bidault
Biddeford
Biddelian
Biddick
Biddie
Biddle
Biddulphia
Biddulphiaceae
Biddy
Bidens
Bidget
Bidle
Bilin
Bill
Bill Doran
Bill Fralic
Bill Frieder
Bill Fusco
Bill Hanzlik
Bill Laimbeer
Bill Sikes
Bill Yeoman
Bill chamber
Bill of Rights
Bill of Rights Day
Billat
Billbergia
Bille
Billen
Billerica
Billi
Billie
Billiken
Billings
Billingsgate
Billingsley
Billiton
Billjm
Bilmyre
Billows
Billroth
Bills
Billy
Billy Budd
Billy Gallegos
Billy blind
Billy brighteye
Billy clipper
Billy the Kid
Billy webb
Billey
Biloculina
Bilow
Biloxi
Bilski
Bilskirnir
Biltmore
Biltmore ash
Biltmore stick
Bim
Bimana
Bimbisara
Bimble
Bimbli hemp
Bimini
Bimini Islands
Biminis
Bimmeler
Bina
Bina
Binalonen
Binche lace
Binchois
Bindman
Binet
Binet age
Binet scale
Binet test
Binet-Simon scale
Binet-Simon test
Binetta
Binette
Binford
Bing
Bing cherry
Bingen
Binger
Bingham
Binghamton
Bingley terrier
Binh Dinh
Binh Gia
Binh Tuy
Binh Xuyen
Binhdinh
Bini
Binitarian
Binitarianism
Bink
Binky
Binni
Binnie
Binnings
Binny
Bint Jbail
Binyon
Binzuru
Biola
Birkenhead
Birkenia
Birkeniidae
Birket Karun
Birkett
Birkhoff
Birkle
Birkner
Birmingham
Birmingham caucus
Birmingham economists
Birmingham school
Birmingham wire gauge
Birminghamize
Birnamwood
Birney
Biro
Biobidzhan
Biobijan
Biobizhan
Birome
Biron
Birrell
Birt
Birth of Tragedy, The
Birth of Venus, The
Birthday honours
Birtwhistle
Birzai
Bisaltae
Bisayan
Bisayans
Bisayas
Bisbee
Biscanism
Biscay
Biscay green
Biscayan
Biscayanism
Biscayne Bay
Biscayne
Biscoe
Bish
Bishareen
Bishari
Bisharin
Bishop
Bishop Auckland
Bizen
Bizerta
Bizerte
Bizet
Bizonia
Biztha
Bjarni Benediktsson
Bjart
Bjeneborg
Bjoerling
Bjork
Bjorn
Bjorn Borg
Bjornson
Bk
Blacher
Blachly
Black
Black Beauty
Black Bess
Black Country
Black Death
Black Forest
Black Friar
Black Friday
Black Hand
Black Hawk
Black Hills
Black Hole of Calcutta
Black Magellanic Cloud
Black Maria
Black Mass
Black Monk
Black Mountains
Black Muslim
Black Muslimism
Black Panther
Black Pope
Black Power
Black Prince
Black River Falls
Black Rod
Black Russian
Black Saladin
Black Sampson
Black Sampson
Black Sash
Black Sea
Black Shirt
Black Stream
Black Volta
Black Watch
Black and Tan
Black and Tans
Black cayuga
Black code
Black country
Black current
Black hand
Black shirt
Black-faced highland
Blackbeard
Blackburn
Blackburnian warbler
Blackduck
Blackett
Blackey
Blackfeet
Blackfoot
Blackford
Blackfriars
Blackhander
Blackhawk
Blackington
Blacklick
Blackman
Blackmore
Blackmun
Blackmur
Blackpool
Blacksburg
Blackshear
Blackshirt
Blackstock
Blackstone
Blacksville
Blackville
Blackwall frigate
Blackwall hitch
Blackwater
Blackwater state
Blackwell
Blackwells Island
Blackwood
Bladen
Bladenboro
Bladensburg
Bland-Allison Act
Blandburg
Blandford
Blandfordia
Blandina
Blanding
Blandinsville
Blandon
Blandville
Blandy-les-Tours
Blane
Blanford
Blank
Blanka
Blankenship
Blanket indian
Blanket
Blanks
Blanquette de Limoux
Blantyre
Blantyre-Limbe
Blarina
Blarney Stone
Blarney stone
Blas
Blasco Ib
Blasdell
Blase
Blaseio
Blasia
Blasien
Blasius
Blastoidea
Blastomyces
Blastomycetes
Blastophaga
Blatman
Blatt
Blatta
Blattariae
Blattidae
Blattodea
Blattoidea
Blatz
Blau
Blaue Reiter
Blaugas
Blauvelt
Blavatsky
Blawenburg
Blaydon
Blayne
Blayze
Blaze
Blcher
BldgE
Bleak House
Blechnum
Bledsoe
Bleeker
Bleiblerville
Bleier
Blemmyes
Blen
Blencoe
Blenda
Blenheim
Blenheim spaniel
Blenker
Blenniidae
Blenniiformes
Blennioidea
Blephariglottis
Blepharocera
Blepharoceridae
Blephillia
Bleriot
Blessed Damozel, The
Blessed Sacrament
Blessed Trinity
Blessed Virgin
Blessing
Blessington
Bletia
Bletilla
Bleu d’Auvergne
Bleu de Bassilac
Bleu de Salers
Bleuler
Blevins
Blla
Bligh
Blighia
Blight
Blighty
Blim
Blimp
Blind Freddie
Blind Leading the Blind, The
Blindheim
Blinn
Blinni
Blinnie
Blinny
Bliss
Blisse
Blissfield
Blithe
Blitum
Blitz
Blitzstein
Blixen
Bloch
Block
Block Island
Blocker
Blocksburg
Blockton
Blockus
Bodenwedde
Blodgett
Blodgett
Bloem
Bloemfontein
Blois
Blok
Blomberg
Blomkest
Bloomquist
Blondel
Blondell
Blondelle
Blondie
Blondy
Blood
Blood Wedding
Bloodless Revolution
Bloody Mary
Bloom
Bloomberg
Bloomdale
Bloomer
Bloomeria
Bloomery
Bloomfield
Bloomfieldian
Bloomingburg
Bloomingdale
Bloomingrose
Bloomington
Bloomsburg
Bloomsburian
Bloomsbury
Bloomsbury Group
Bloomsbury group
Bloomsdale
Bloomville
Blossburg
Blossom
Blossvale
Blount
Blountstown
Blountsville
Blountville
Blow
Bloxberg
Bloxom
Briot
Blucher
Blucher boots
Blucher shoes
Blue
Blue Ash
Blue Boy
Blue Cross
Blue Dorset
Blue Earth
Blue Island
Blue Mantle
Blue Mountains
Blue Nile
Blue Ribband
Blue Rider
Blue Ridge
Blue Ridge Mountains
Blue Rod
Blue Scout
Blue Shield
Blue Springs
Blue Vinny
Blue shirt
Blueball
Bluebeard
Bluebeardism
Bluebell
Blueeye
Bluefarb
Bluefield
Bluefields
Bluegrass Region
Bluegrass state
Bluehole
Bluejay
Bluemont
Bluenoser
Bluet
Bluewater
Bluey
Bluffdale
Bluffs
Bluffton
Bluford
Bluh
Bluhm
Blum
Bluma
Blumea
Blumenfeld
Blumenthal
Blunderbore
Blunk
Blunt
Blus
Blvd
Bly
Blynn
Blyth
Blythe
Blythe process
Blythedale
Blytheville
Blythewood
Bme
Bn
Bo
Bo Schembechler
Bo-Bo
Bo-peep
BoT
Boa Vista
Bobby Czyz
Bobby Dernier
Bobby Rahal
Bobby Joe
Bobbye
Bobette
Bobina
Bobine
Robinet
Bobker
Bobo
Bobo-Dioulasso
Bobseine
Bobtown
Bobwhite
Boca
Boccaccio
Boccherini
Boccioni
Bocconia
Boche
Bochism
Bochum
Bock
Bockstein
Bocock
Bodanzky
Bodas de Sangre
Bodb
Bode
Bodega
Boden See
Bodenheim
Bodensee
Bodfish
Bodgo Gegen
Bodh Gaya
Bodhidharma
Bodhisattva
Bodi
Bodine
Bodkin
Bodleian
Bodleian Library
Bodley
Bodmin
Bodnar
Bodo
Bodoni
Bodrogi
Bodwell
Body
Body brussels
Body of Christ
Boebera
Boece
Boedromion
Boedromius
Boehike
Boehm system
Boehme
Boehmenism
Boehmenist
Boehmenite
Boehmer
Boehmeria
Boehmian
Boehmian
Boehmian
Boehmite
Boeing
Boeke
Boelter
Boelus
Boeotia
Boeotian
Boeotic
Boeotus
Boer
Boer War
Boerdom
Boerhavia
Boerne
Boesch
Boeschen
Boethian
Boethius
Boethusian
Boetius
Boettiger
Boff
Boffa
Bofors
Bofors gun
Bogalusa
Bogan
Bogard
Bogarde
Bogart
Bogata
Bogey
Boggers
Boggs
Boggstown
Boghazkeui
Boghazkoy
Boghead coal
Bogie
Bogijiab
Bognor Regis
Bogo
Bogoch
Bogodo lama
Bogomil
Bogomile
Bogomilian
Bogomilism
Bogor
Bogosian
Bogot
Bogota
Bogue
Boguechitto
Boguslawsky
Bogusz
Bohairic
Bohannon
Bohaty
Bohea
Bohemia
Bohemia-Moravia
Bohemian
Bohemian Brethren
Bohemian Forest
Bohemian ruby
Bohemian waxwing
Bohemian-tartar
Bohemianism
Bohi
Bohlen
Bohlin
Bohm
Bohman
Bohme
Bohmerwald
Bohnenberger
Bohner
Bohol
Bohon
Bohr
Bohr atom
Bohr magneton
Bohr theory
Bohrer
Bohs
Bohun
Bohuslav
Boiardo
Boice
Boiceville
Boidae
Boieldieu
Boigie
Boii
Boiko
Boileau
Boiney
Bois
Bois de Boulogne
Bois-le-Duc
Boisdarc
Boise
Boissevain
Boito
Bojardo
Bojer
Bojig-ngiji
Bok
Bokassa I
Bokchito
Bokeelia
Bokhara
Bokhara clover
Bokharan
Bokm'
Bokushe
Bokoto
Bol
Bolag
Bolan
Bolan Pass
Boland
Bolanger
Bolboxalis
Bolckow
Bolderian
Boldu
Bolelia
Bolen
Boles
Bolesław
Bolesław Bierut
Boleslaw Jaszczuk
Boletaceae
Boletus
Boley
Boleyn
Bolger
Boligee
Bolinas
Boling
Bolingbroke
Bolinger
Bolitho
Bolivar
Bolivia
Bolivian
Boll
Bolland
Bollandist
Bollandus
Bollay
Bolle poplar
Bollen
Bolling
Bollinger
Bolme
Bolo
Bologna
Bologna flask
Bologna phosphorus
Bologna sausage
Bologna stone
Bolognan
Bologne
Bolognese
Boloism
Bolovens Plateau
Bolshevik
Bolsheviki
Bolshevikian
Bolshevikism
Bolsheviks
Bolshevism
Bolshevist
Bolshevistic
Bolshevistically
Bolshevization
Bolshevize
Bolshevized
Bolshevizing
Bolsheie
Bolshies
Bolshoi
Bolshy
Bolt
Bolte
Bolten
Bolton
Bolton counts
Bolton sheeting
Boltonia
Boltzmann
Boltzmann constant
Boltzmann's constant
Bolyai
Bolyaian
Bolzano
Bolzano-Weierstrass theorem
Boma
Bomarc
Bomarea
Bombacaceae
Bombax
Bombax cotton
Bombay
Bombay arrowroot
Bombay catechu
Bombay ceiba
Bombay duck
Bombay furniture
Bombay hemp
Bombay mace
Bombay mastic
Bombay merchant
Bombay seed
Bombay senna
Bombay sumbul
Bomber Command
Bombidae
Bombinae
Bombus
Bombycidae
Bombycilla
Bombycillidae
Bombycina
Bombyliidae
Bombyx
Bomke
Bomont
Bomoseen
Bomu
Bon
Bon Secours
Bon ami limestone
Bon silene
Bona
Bona Dea
Bonacci
Bonodoxin
Bonair
Bonaire
Bonanza state
Bonaparte
Bonapartean
Bonapartism
Bonapartist
Bonaqua
Bonar
Bonasa
Bonaventura
Bonaventure
Bonaventurism
Bonaveria
Bonbo
Boncarbo
Bond
Bondelswarts
Bondes
Bondie
Bondon
Bondsville
Bonduel
Bondurant
Bondville
Bondy
Bone
Bonellia
Bone steel
Boneville
Boney
Bonfield
Bongo
Bonham
Bonheur
Bonhoeffer
Bonhomme
Boni
Boniface
Boniface I
Boniface II
Boniface III
Boniface IV
Boniface IX
Boniface V
Boniface VI
Boniface VII
Boniface VIII
Bonifay
Bonilla
Bonin Islands
Bonina
Bonine
Bonington
Bonis
Bonita
Bonlee
Bonn
Bonnard
Bonnaz
Bonne
Bonne Terre
Bonneau
Bonnee
Bonnell
Bonner
Bonner Springs
Bonnerdale
Bonnes
Bonnesbosq
Bonnet
Bonneterre
Bonneterre limestone
Bonnette
Bonneville
Borer
Bores
Boreum
Boreus
Borg
Borger
Borgerhout
Borges
Borgeson
Borghese
Borghild
Borgholm
Borgia
Borglum
Bori
Boring
Borinqueno
Boris
Boris Godunov
Boris III
Boris Nikolayevich
Borislav
Borje Salming
Bork
Borlase
Borlow
Borman
Born
Borna disease
Bornean
Borneo
Borneo camphor
Borneo rubber
Borneo tallow
Bornholm
Bornholm disease
Bornie
Bornstein
Boru
Boro
Borocaine
Borodankov
Borodin
Borodino
Borongan
Borongan
Boronia
Bororo
Bororoan
Borotno
Borough-english
Borras
Borrelia
Borrell
Borrelomyctaceae
Borreri
Borreria
Borrichia
Borries
Borroff
Borromeian
Borromini
Borroughs
Borrovian
Borrow
Bors
Borsalino
Borstal system
Borszcz
Bortman
Bortz
Boru
Boruca
Borup
Borussian
Borzicactus
Bos
Bosanquet
Bosc
Bosch
Bosch process
Boschneger
Boscobel
Boscovich
Bose
Bose-Einstein statistics
Boselaphus
Boser
Boshas
Bosjesman
Boskop
Boskop skull
Bosler
Bosnia
Bosnia and Herzegovina
Bosniac
Bosniak
Bosnian
Bosnisch
Bosone
Bosphorus
Bosphoran
Bosphoranic
Bosphorian
Bosporus
Bosque
Bossier City
Bosson
Bossons Maceres
Bossuet
Bostic
Boston
Boston Massacre
Boston Tea Party
Boston arm
Boston bag
Boston baked beans
Boston brown bread
Boston bull
Boston crab
Boston cream pie
Boston fern
Boston hip
Boston hooker
Boston ivy
Boston lettuce
Boston ridge
Boston rocker
Boston terrier
Boston type
Bostonese
Bostonian
Bostonians, The
Bostow
Bostrychidae
Bostwick
Boswall
Boswell
Boswellia
Boswellian
Boswelliana
Boswellism
Boswellize
Bosworth
Bosworth Field
Botany Bay
Botany bay
Botany bay greens
Botany bay gum
Botany card
Botany wool
Botaurinae
Botaurus
Botein
Botes
Botha
Bothe
Bothell
Bothnia
Bothnian
Bothnic
Bothriocephalus
Bothriocidaris
Bothriolepis
Bothrodendron
Bothrops
Bothwell
Botkin
Botkins
Botnick
Botocudo
Botrychium
Botrydiurn
Botryllidae
Botryllus
Botryomyces
Botryopterianaee
Botryopteris
Botrytis
Botsares
Botsford
Botswana
Bottali
Bottger
Botti
Botticelli
Botticellian
Bottineau
Bottrop
Botvinnik
Botzow
Bouak
Bouake
Bourbon
Bourbon biscuit
Bourbon cotton
Bourbon lily
Bourbon red
Bourbonesque
Bourbonian
Bourbonic
Bourbonism
Bourbonist
Bourbonnais
Bourdon gauge
Bourdon tube
Bourdon-tube gauge
Bourg
Bourgeois
Bourgeois Gentilhomme, Le
Bourges
Bourget
Bourgogne
Bourguiba
Bourguignononne sauce
Bourignian
Bourignianism
Bourignianist
Bourignonism
Bourignonist
Bourke
Bourn
Bourne
Bournemouth
Bourneville
Bourout
Bourque
Boursault rose
Bourse
Boursin
Bouse
Boussingault
Boussingaultia
Bouteloua
Boutis
Bouton
Bouton dor
Boutte
Boutwell
Bouvard
Bouvardia
Boyne
Boynton
Boyoma Falls
Boys
Boys' Brigade
Boyse
Boystown
Boyt
Boz
Bozcaada
Bozeman
Bozen
Bozman
Bozoo
Bozovich
Bozrah
Bozuwa
Bozzaris
Br
Bra
Braasch
Brabancon
Brabant
Brabant rose
Brabanter
Brabantine
Brabazon
Brabejum
Braca
Bracci
Brace
Braceville
Bracey
Brachelytra
Brachiata
Brachinus
Brachioganoidei
Brachiopoda
Brachiosaurus
Brachycera
Brachycome
Brachyura
Brachyphyllum
Brachystegia
Brachystomata
Brachyura
Brachyurus
Brackely
Brava
Bravais lattice
Bravais space lattice
Bravar
Brave New World
Bravin
Brawley
Brawner
Braxton
Bray
Brayley
Braymer
Braynard
Brayton
Braz
Brazeau
Brazee
Brazil
Brazil current
Brazil nut
Brazil red
Brazil wax
Brazil-nut
Brazil-nut oil
Brazilian
Brazilian chrysolite
Brazilian emerald
Brazilian guava
Brazilian morning-glory
Brazilian pepper tree
Brazilian peridot
Brazilian rhatany
Brazilian rosewood
Brazilian ruby
Brazilian sapphire
Brazoria
Brazos
Brazos River
Brazzaville
Bre
Brea
Breaks
Bream
Breana
Breanne
Brear
Breasted
Breathalyzer
Breathitt
Breaux Bridge
Breban
Breben
Brecht
Brechtel
Breckenridge
Breckenridge Hills
Breckinridge
Brecknockshire
Brecksville
Brecon
Breconshire
Bred
Breda
Bree
Breech
Breed
Breed's Hill
Breeden
Breeding
Breedsville
Breen
Breena
Breese
Breesport
Breeze
Breezewood
Bregenz
Breger
Breiningsville
Breislak
Breithablik
Breije
Bremble
Bremen
Bremen blue
Bremen green
Bremer
Bremerhaven
Bremerton
Bremia
Bremond
Bremser
Bren
Bren gun
Brena
Brenan
Brenda
Brendan
Brendan Began
Brendel
Brenden
Brendin
Brendis
Brendon
Brengun
Brenham
Brenk
Brenn
Brenna
Brennan
Brennen
Brenner
Brenner Pass
Brennschluss
Brent
Brent Scowcroft
Brentano
Brentford
Brethnis
Breton
Brentt
Brentwood
Brenza
Bres
Brescia
Brescian
Bresee
Breshkovsky
Breskin
Breslau
Bress
Bresson
Brest
Brest Litovsk
Bret
Bretagne
Brethren of the Common Life
Breton
Breton lace
Bretonian
Bretonne sauce
Brechtschneideraceae
Briggsdale
Briggian
Briggsian logarithm
Briggsville
Brigham
Brigham tea
Brighella
Brighid
Brighouse
Bright
Bright's disease
Brighteyes
Brightman
Brighton
Brightwaters
Brightwood
Brigid
Brigida
Brigit
Brigitta
Brigitte
Brigittine
Brihaspati
Brill
Brill's disease
Brillat-Savarin
Brilliant
Brillion
Brillouin
Brimfield
Brimhall
Brimley
Brimo
Brimson
Brina
Brindell
Brindisi
Brindle
Brine
Brinell hardness number
Brinell machine
Brinell number
Brinell tester
Briney
Bring
Bringhurst
Brinje
Brink
British Commonwealth
British Commonwealth of Nations
British East Africa
British Empire
British English
British Guiana
British Honduran
British Honduras
British India
British Indian Ocean Territory
British Indian gum
British Interplanetary Society
British Isles
British Israeliite
British Legion
British Malaya
British Museum
British New Guinea
British North America
British North Borneo
British Shorthair
British Somaliland
British Standard Time
British Standards Institution
British Summer Time
British Union of Fascists
British Virgin Islands
British West Africa
British West Indies
British anti-lewisite
British antilewisite
British candle
British dollar
British gallon
British gum
British imperial dry measure
British imperial liquid measure
British money
British thermal unit
British warm
British-israel
Britisher
Britishhood
Britishism
Britishly
Britishness
Britney
Britni
Broadwater
Broadway
Broadway musical
Broadwayite
Broadwell
Brobdingnag
Brobdingnagian
Broca
Broca's area
Broca's convolution
Broca's gyrus
Broccio
Brock
Brocken
Brocken bow
Brocken specter
Brocket
Brockie
Brocklin
Brockport
Brockton
Brockway
Brockwell
Brocky
Brocot escapement
Brocot suspension
Brocton
Brod
Broddie
Broddy
Brodehurst
Brodench
Broder
Broderic
Broderick
Brodeur
Brodhead
Brodheadsville
Brodiaea
Brodie
Brodnax
Brodsky
Brody
Broeder
Broederbond
Broek
Broeker
Brogan
Brontotherium
Brontozoum
Bronwen
Bronwood
Bronwyn
Bronx
Bronx cheer
Bronx cocktail
Bronxite
Bronxville
Bronze Age
Bronze Age man
Bronze Star Medal
Bronzino
Brook
Brook Farm
Brook Jacoby
Brookdale
Brooke
Brooke Steppe
Brookeland
Brooker
Brookes
Brookesmith
Brookeville
Brookfield
Brookhaven
Brookhouse
Brooking
Brookings
Brookland
Brooklandville
Brooklawn
Brooklet
Brooklin
Brookline
Brooklyn
Brooklyn Bridge
Brooklyn Center
Brooklynes
Brooklynite
Brookneal
Brookner
Brookport
Brooks
Brooks Range
Brookshire
Brookston
Brown Swiss
Brown personality inventory
Brown's Descent
Browne
Brownell
Brownfield
Brownian
Brownian motion
Brownian movement
Brownie
Brownie Guide
Browning
Browning automatic rifle
Browning machine gun
Browningesque
Brownism
Brownist
Brownistic
Brownistical
Brownlee
Brownlee Park
Brownley
Browns
Brownsboro
Brownsburg
Brownsdale
Brownson
Brownstown
Brownsville
Brownton
Browntown
Brownville
Brownwood
Broxton
Broz
Brozak
Bruant
Brubaker
Brubeck
Bruce
Bruce Caputo
Bruce Lietzke
Bruce Sutter
Brucella
Bruceton
Brucetown
Bruceville
Bruch
Bruchidae
Bruchus
Brucie
Bruckner
Bructeri
Bruegel
Brueghel
Bruell
Bruges
Brugge
Bruhn
Bruin
Bruington
Bruis
Brule
Brumaire
Brumalia
Brumidi
Brunley
Brummagem
Brummell
Brunnie
Brunanburh
Brundidge
Brundisium
Bruneau
Bruni
Brunel
Brunell
Brunella
Brunelle
Brunelleschi
Brunellesco
Brunellia
Brunelliaceae
Bruner
Brunetiere
Brunfelsia
Brunhild
Brunhilda
Brunhilde
Bruni
Bruning
Brunistic
Brunk
Brunn
Brunner
Bryce
Bryce Canyon National Park
Bryceland
Bryceville
Bryn
Bryna
Brynathyn
Bryner
Brynhold
Brynmawr
Brynn
Bryonna
Brynne
Brynza
Bryon
Bryonia
Bryophyllum
Bryophyta
Bryozoa
Bryson
Brython
Brythonic
Bryum
Brzegiem
Bs/L
Bt
Btu
Bu
Bu Dop
BuAer
Buatti
Bub
Bubalis
Bubalo
Bubastid
Bubastite
Bubb
Bubba
Bube
Buber
Bubo
Bubona
Bubonidae
Bucaramanga
Buccellarius
Buccinidae
Buccinum
Bucco
Buccinidae
Buccininae
Bucculatrix
Bucelas
Bucella
Bucephala
Bucephalus
Buceros
Bucerotes
Bucerotidae
Bucerotinae
Buch
Buchalter
Buchan
Buchanan
Buchanite
Bucharest
Buchbinder
Buchwald
Bucher
Buchheim
Buchloe
Buchman
Buchmanism
Buchmanite
Buchner
Buchner funnel
Buchnera
Buchtel
Buchwald
Buck
Buckatunna
Buckden
Buckels
Buckeye State
Buckeystown
Buckfield
Buckhannon
Buckhead
Buckholts
Buckie
Buckingham
Buckingham Palace
Buckinghamshire
Buckland
Buckle
Buckler
Buckley
Bunceton
Bunch
Bunche
Buncombe
Bund
Bunda
Bundaberg
Bundahish
Bunde
Bundeli
Bundelkhand
Bunder
Bundesrat
Bundesrath
Bundestag
Bundist
Bundoora
Bundu
Bundy
Bunga
Bungarus
Bunge Corporation
Bunia
Bunin
Buninahua
Bunker
Bunker Hill
Bunker Hill Day
Bunkerville
Bunkie
Bunky
Bunn
Bunnell
Bunni
Bunnie
Bunns
Bunny
Bunodontia
Bunola
Bunomastodontidae
Bunow
Bunsen
Bunsen burner
Bunter
Bunting
Bunuel
Bunus
Bunyan
Bunyanesque
Bunyoro
Buonaparte
Buonarroti
Buonomo
Buononcini
Buote
Buphaga
Buphagus
Buphonia
Buphthalmum
Bupleurum
Buprestidae
Buprestis
Bur
Burack
Buran
Buraq
Buras
Burayan
Buraydah
Burbage
Burbank
Burbankism
Burberries
Burberry
Burch
Burchard
Burchett
Burchfield
Burck
Burckhardt
Burd
Burdelle
Burdett
Burdette
Burdick
Burdigalian
Burdine
Bure
Bureau of Aeronautics
Bureau of Customs
Bureau of Customs and Excise
Bureau of Internal Revenue
Bureau of the Budget
Bureau of the Census
Burford
Burfordville
Burg
Burgas
Burgaw
Burgener
Burgenland
Burger
Burgess
Burget
Burgettstown
Burghley
Burgin
Burgooon
Burgos
Burgoyne
Burgundian
Burgundies
Burgundy
Burgundy sauce
Burgundy trefoil
Burgundy violet
Burgwell
Burhans
Burhinidae
Burhinus
Buri
Burial at Ornans
Burial of Count Orgaz, The
Buriat
Burk
Burkburnett
Burke
Burke's Peerage
Burkesville
Burket
Burkett
Burkettsville
Burkeville
Burkhard
Burkhardt
Burkhart
Burkitt
Burkitt's lymphoma
Burkittsville
Burkle
Burkley
Burkville
Burl
Burleigh
Buttermere
Butters
Butterworth
Button
Buttonwillow
Buttrick
Buttzville
Butung
Butyl
Butyl rubber
Butyn
Butzbach
Buxaceae
Buxbaumia
Buxbaumiaceae
Buxtehude
Buxton
Buxus
Buyer
Buyers
Buyides
Buys Ballot's Law
Buys-Ballot's law
Buyse
Buzz
Buzzard
Buzzard's Bay
Buzzell
Byam
Byars
Bybee
Byblidaceae
Byblis
Byblos
Bydgoszcz
Byelgorod-Dnestrovski
Byelorussia
Byelorussian
Byelostok
Byelovo
Byers
Byesville
Byfield
Byhalia
Bylas
Byler
Byng
Bynin
CAC
CACM
CAD
CADD
CADV
CAE
CAF
CAFE
CAGR
CAI
CAIS
CALRS
CALS
CAM
CAMA
CAMAC
CAMM
CAMP
CAMRA
CAN
CAP
CAPP
CAPTAIN
CAR
CARE
CARIFTA
CAROT
CART
CAS
CASE
CASSIS
CASU
CAT
CATIS
CATLAS
CATV
CAU
CAV
CAVU
CB
CB radio
CBC
CBD
CBDS
CBE
CBEL
CBEMA
CBI
CDO
CDP
CDPR
CDR
CDROM
CDS
CDSF
CTD
CDU
CE
CEA
CEC
CED
CEERT
CEF
CEGB
CEI
CELSS
CEN
CENS
CENTO
CEO
CEQ
CERMET
CERN
CERT
CET
CEV
CEVI
CF
CFA
CFB
CFC
CFCA
CFD
CFE
CFF
CFHT
CFI
CFL
CFO
CFP
CFR
CG
CGA
CGCT
CGE
CGI
Cacie
Cacilia
Cacilie
Cacka
Cactaceae
Cactales
Cactus
Cacus
Cad
Cadal
Caddaric
Caddie
Caddo
Caddoan
Caddric
Cade
Cadel
Cadell
Cadena
Cadence
Cadenza
Cades
Cadet
Cadillac
Cadiz
Cadman
Cadmann
Cadmar
Cadmarr
Cadmean
Cadmean victory
Cadmopone
Cadmus
Cadogan
Cadogan teapot
Cadorna
Cadott
Caducibranchiata
Cadwal
Cadwallader
Cadwell
Cady
Cadyville
Cadzand
Caecilia
Caeciliae
Caeciliidae
Caedmon
Cage
Cagle
Cagliari
Cagliostro
Cagn
Cagney
Cagoulard
Cagoulards
Caguas
Cahan
Cahenslyism
Cahill
Cahill quill
Cahilly
Cahita
Cahn
Cahnite
Cahokia
Cahokia Mounds
Cahokia mound
Cahone
Cahors
Cahra
Cahuapan
Cahuilla
Cai
Caia
Caiphas
Caicos
Caicos Islands
Cailean
Cailleac
Cailly
Cain
Cain and Abel
Cain-colored
Caine
Caines
Caingang
Caingangs
Caingua
Cainian
Cainish
Cainism
Cainite
Cainitic
Cainozoic
Cainsville
Cairba
Caird
Caird Coast
Cairene
Cairistiona
Cairn terrier
Cairnbrook
Cairngorm Mountains
Cairngorm stone
Cairns
Cairo
Caitanyas
Caite
Caithness
Caitlin
Caitrin
Catus
Cajan
Cajan
Cajun
Cakavci
Cakchikel
Cakile
Cal
Calabar
Calabar bean
Calabar ebony
Calabari
Calabasas
Calabrese
Calabresi
Calabria
Calabrian
Calabrian manna
Caladium
Calah
Calais
Calakmul
Calama
Calamagrostis
Calamariaceae
Calamariales
Calamintha
Calamites
Calamodendron
Calamopitys
Calamospermae
Calamostachys
Calan
Calandra
Calandria
Calandridae
Calandrinae
Calandrinia
Calantha
Calanthe
Calapan
Calappa
Calappidae
Calas
Calathea
Calatrava
Calaveras skull
Calaveras warbler
Calbert
Calcaire grossier
Calcarea
Calcasieu River
Calceolaria
Calchaqui
Calchaquian
Calchas
Calciferous
Calcispongiae
Calculagraphe
Calcutta
Calcutta ginger
Calcutta hemp
Calcutta pool
Calcydon
Caldecott award
Caldeira
Calder
Caldera
Calderca
Calderon
Calderon Guardia
CaldoraCaldwell
Caldwell
Cale
Caleb
Calebite
Caledonia
Caledonian
Caledonian Canal
Calemes
Callippus
Callipus
Callirrhoe
Callisaurus
Callista
Calliste
Calliste green
Callistemon
Callistephus
Callisto
Callistus I
Callistus II
Callistus III
Callithrix
Callitrichaceae
Callitriche
Callitrichidae
Callitris
Callorhynchidae
Callorhynchus
Callot
Callovian
Calloway
Callum
Calluna
Calluori
Cally
Callynteria
Calmar
Calmas
Calmette's vaccine
Calocarpum
Calochortaceae
Calochortus
Calon-segar
Calondra
Calonecctria
Calonyction
Caloosa grape
Calophyllum
Calopogon
Calor gas
Calore
Calorie
Calorite
Calosoma
Calotermes
Calotermididae
Calothrix
Calpe
Calpurnia
Caltanissetta
Caltech
Caltha
Calumet
Calumet Park
Calusa
Calv
Calva
Calvados
Calvano
Calvaries
Calvary
Calvary clover
Calvary cross
Calvatia
Calve
Calvert
Calverton
Calvin
Calvina
Calvinian
Calvinism
Calvinist
Calvinistic
Calvinistical
Calvinistically
Calvinize
Calvinna
Calvo
Calvo doctrine
Calycanthaceae
Calycanthus
Calyce
Calyceraceae
Calycocarpum
Calycophora
Calycophorae
Calycozoa
Calydon
Calydonian
Calydonian boar
Calydonian hunt
Calymene
Calypso
Calypsos
Cambrian
Cambrian Mountains
Cambric
Cambridge
Cambridge City
Cambridge Platonism
Cambridge Platonist
Cambridge School
Cambridge blue
Cambridgeport
Cambridgeshire
Cambro-briton
Cambs
Cambscan
Camby
Cambyses
Cambyskan
Camden
Camdenton
Came
Camel
Camelid
Camelidae
Camelina
Camella
Camellia
Cameliaceae
Camellus
Cameloidea
Camelopardalis
Camelopardid
Camelopardidae
Camelopardus
Camelot
Camelus
Camembert
Camembert cheese
Camena
Camenaee
Camenes
Cameo
Camerata
Camerina
Camerinidae
Cameron
Cameronian
Cameroon
Cameroons
Cameroun
Camestres
Camey
Camfort
Cami
Camiguin
Camila
Camile
Camilia
Camilla
Camille
Camille Chamoun
Camillo
Camillus
Camilo
Camino
Camirus
Camisard
Camm
Cammaerts
Cammal
Cammarum
Cammi
Cammie
Cammy
Camoens
Camorist
Camorra
Camorism
Camorrist
Camorrista
Camp
Camp Hill
Camp fire
Campa
Campagna
Campagna di Roma
Campagne
Campania
Campanian
Campanula
Campanula blue
Campanula purple
Campanula violet
Campanulaceae
Campanulales
Campanularia
Campanulariae
Campanularidae
Campanulatae
Campanus
Campari
Campspe
Campbell
Campbell
Campbell-Bannerman
Campbell-Stokes recorder
Campbellism
Campbellite
Campbellsburg
Campbellsville
Campbellton
Campbelltown
Cambeltown
Campe
Campeche
Campephagidae
Campephilus
Camperdown elm
Campignian
Campina Grande
Campinas
Campspe
Campine
Campion
Campman
Campney
Campo
Campo Formio
Campo Grande
Campobello
Campodea
Campodeidae
Campoformido
Camponotus
Camporeale
Campos
Campti
Campton
Camptonville
Camptosorus
Camptown
Campwood
Campy
Campyloneuron
Camus
Camuy
Can
Can Tho
CanF
Cana
Canaan
Canaanite
Canaanitess
Canaanic
Canaanish
Canace
Canacee
Canad
Canada
Canada anemone
Canada balsam
Canada barberry
Canada bluegrass
Canada crookneck
Canada goose
Canada jay
Canada lily
Canada lynx
Canada moonseed
Canada potato
Canada thistle
Canada turpentine
Canadensis
Canadian
Canadian French
Canadian River
Canadian Shield
Canadian bacon
Canadian football
Canadian hemlock
Canadian pondweed
Canadian whiskey
Canadianism
Canadianization
Canadianize
Canadianized
Canadianizing
Canady
Canajoharie
Canakkale
Canal Zone
Canale
Canaletto
Canalou
Cann
Canna
Cannabinaceae
Cannabis
Cannaceae
Cannae
Cannanore
Cannelburg
Cannell
Cannelton
Cannes
Cannice
Canning
Canning Basin
Cannizzaro
Cannock
Cannon
Cannonism
Cannonsburg
Cannonville
Cannstatt
Cannulate
Canoeiro
Canoga
Canon
Canones
Canonization, The
Canonsburg
Canopic
Canopic jar
Canopic vase
Canopus
Canossa
Canotas
Canova
Canovanas
Canrobert
Canso
Cant
Cantab
Cantabri
Cantabrian
Cantabrian Mountains
Cantabrigian
Cantabrise
Cantacuzene
Cantal
Cantate
Canter
Canterburian
Canterburianism
Canterbury
Canterbury Tales, The
Canterbury bell
Canterbury gallop
Canterbury lamb
Canterbury palm
Canterbury tale
Cantharellus
Cantharidae
Canthus
Canticle of Canticles
Canticles
Cantigny
Cantil
Cantillon
Cantlon
Canton
Canton River
Canton crepe
Canton flannel
Canton linen
Cantone
Cantonese
Cantonment
Cantar
Cantor
Cantor set
Cantor ternary set
Cantorian
Cantos
Cantrall
Cantril
Cantu
Cantuar
Canty
Canuck
Canum Venaticorum
Canute
Canutillo
Canyon
Canyonville
Cao Bang
Cao Dai
Caodaism
Caodaist
Cap Gris Nez
Cap Manitou
Cap’n
Cap-Haitien
Capablanca
Capac
Capaneus
Cape
Cape Blanco
Cape Breton
Cape Breton Island
Cape Canaveral
Cape Cod
Cape Cod Bay
Cape Cod Canal
Cape Cod cottage
Cape Colony
Cape Colored
Cape Coloured
Cape Dutch
Cape Flats
Cape Girardeau
Cape Horn
Cape Horn fever
Cape Kennedy
Cape May
Cape Peninsula
Cape Province
Cape Skagen
Cape Town
Cape Verde
Cape Verde Islands
Cape Wrath
Cape York
Cape York Peninsula
Cape aloe
Cape anteater
Cape armadillo
Cape buffalo
Cape cart
Cape cod lighter
Cape cod turkey
Cape codder
Cape cowslip
Cape doctor
Cape dutch
Cape elk
Cape flyaway
Cape forget-me-not
Capitonidae
Capitoninae
Capiz
Caplan
Capnodium
Capnooides
Capodacqua
Capon
Capone
Caporetto
Capote
Capp
Cappadocia
Cappadocian
Cappagh brown
Capparidaceae
Capparis
Cappella
Cappello
Cappotas
Capps
Capra
Caprella
Caprellidae
Capreolus
Capri
Capri blue
Capri pants
Caprice
Capricorn
Capricorni
Capricornid
Capricornus
Caprifoliaceae
Caprifolium
Caprimulg
Caprimulgidae
Caprimulgiformes
Caprimulgus
Capriola
Capriote
Capris
Capromys
Capron
Capsella
Capshaw
Capsian
Capsicum
Capsidae
Capt
Captain Bobadil
Captain Hicks
Captain Hook
Captain Kidd
Captain's Daughter, The
Captaincook
Captiva
Capua
Capuan
Capuanus
Capuchin
Capuchin cross
Capuchin nun
Capulet
Capulin
Caputa
Caputo
Caputto
Capuzzo
Capwell
Capys
Caquet
Caquetio
Car
Car Nicobar
Cara
Carabancel
Carabidae
Carabini
Carabus
Caracalla
Caracas
Caracas kino
Caractacus
Caradoc
Caradon
Caragana
Caraguata
Caraho
Carajpa
Caraja
Carajas
Caralie
Caramuel
Carandas
Caranga
Carangidae
Carangus
Caranx
Carapa
Carapache
Carapacho
Carapidae
Carapus
Carara
Casas
Caratinga
Caratunk
Caravaggio
Caravette
Caraviello
Carayan
Caraz
Carberry
Carbo
Carbolineum
Carboloy
Carbona
Carbonado
Carbonari
Carbonarism
Carbonarist
Carbonaro
Carboncliff
Carbondale
Carbone
Carboni
Carboniferous
Carbonnieux
Carborundum
Carboxydomonas
Carbrey
Carcas
Carcassonne
Carcavelhos
Carce
Carcel lamp
Carcharhinus
Carcharias
Carcharidae
Carcharodon
Carchemish
Carcinocorpus
Card
Cardale
Cardamine
Cardan joint
Cardanic
Cardanus
Cardea
Cardenas
Carder
Cardew
Cardicae
Cardiazol
Cardie
Cardiff
Cardiff giant
Cardiga
Cardigan
Cardigan Bay
Cardiganshire
Cardiidae
Cardijn
Cardin
Cardinal
Cardinal camerlingo
Cardinalis
Cardinalis datarius
Cardinas
Cardington
Cardiospermum
Cardito
Cardium
Cardium clay
Cardon
Cardozo
Carduaceae
Carducci
Carduelis
Carduus
Cardville
Cardwell
Care
Careaga
Careers Officer
Carel
Caren
Carena
Carencro
Carenton
Caresa
Carina
Carinaria
Carinatae
Carine
Caring sunday
Cariniana
Carinthia
Carinthian
Carioca
Cariocan
Cariotta
Caripuna
Cariri
Caririan
Carisa
Carissa
Carissimi
Carita
Caritta
Carius
Cariyo
Carl
Carl Channell
Carl Icahn
Carl XVI Gustaf
Carl Yastrzemski
Carla
Carland
Carlee
Carleen
Carlen
Carlene
Carleta
Carleton
Carleton Gajdusek
Carley
Carli
Carlick
Carlie
Carlile
Carlin
Carlina
Carline
Carling
Carling float
Carling sunday
Carlini
Carlinville
Carlisle
Carlism
Carlist
Carlita
Carlo
Carlo Alberto Dalla Chiesa
Carlo Confalonieri
Carlock
Carlos
Carlos Arana Osorio
Carlos Castillo Armas
Carlos Coimbra Daluz
Carlos Duque
Carlos Luis Araque
Carlos Salinas de Gortari
Carlos Tunnermann
Carlota
Carlotta
Carlovingian
Carlow
Carlsbad
Carlsbad Caverns
Carlsborg
Carlson
Carlstadt
Carlstrom
Carlton
Carlton House desk
Carlton House table
Carlton table
Carludovica
Carly
Carlye
Carlyle
Carlylean
Carlyleian
Carlylese
Carlylesque
Carlylian
Carlylism
Carlyn
Carlyne
Carlynn
Carlyne
Carma
Carman
Carmania
Carmanians
Carmanor
Carmarthen
Carmarthenshire
Carme
Carmel
Carmela
Carmelia
Carmelina
Carmelita
Carmelite
Carmelitess
Carmella
Carmelle
Carmelo
Carmen
Carmena
Carmencita
Carmenta
Carmenita
Carmi
Carmichael
Carmichaels
Carmina
Carmine
Carmine beauty
Carmita
Carmon
Carn
Carnac
Carnacian
Carnahan
Carnap
Carmarina
Carnarvon
Carnarvon arch
Carnarvonshire
Carnatic
Carnation
Carnay
Carneades
Carnegie
Carnegie hero's medal
Carnegiea
Carnes
Carnesville
Carneus
Carney
Carniola
Carniolan
Carnival
Carnivora
Carnot
Carnot cycle
Carnot engine
Carnot principle
Carnot refrigerator
Carnot's theorem
Carnoustie
Carnovsky
Carnus
Carny
Caro
Caro's acid
Caroid
Carol
Carol II
Carol-Jean
Carola
Carolan
Carolann
Carole
Carolean
Carolee
Caroleen
Carolyn
Carol
Carolina
Carolina allspice
Carolina anemone
Carolina ash
Carolina bay
Carolina chickadee
Carolina jasmine
Carolina jessamine
Carolina lily
Carolina moonseed
Carolina parakeet
Carolina rail
Carolina rhododendron
Carolina vanilla
Carolina wren
Caroline
Caroline Islands
Caroling
Carolingian
Carolinian
Carolle
Carols Menem
Carolus
Carolus dollar
Carolyn
Carolyne
Carolynn
Carolynne
Caron
Carona
Carony bark
Carothers
Carpaccio
Carpathia
Carpathian
Carpathian Mountains
Carpathians
Carpatho-Ukraine
Carpatho-russian
Carpatho-ruthenian
Carpeaux
Carpentaria
Carpenter
Carpenteria
Carpentersville
Carpentier
Carper
Carpet
Carphiophiops
Carphophis
Carpinteria
Carpinus
Carpio
Carpioodes
Carpo
Carpocapsa
Carpocratian
Carpodacus
Carpodetus
Carpoeidea
Carpophaga
Carpophorus
Carr
Carrabelle
Carracci
Carranza
Carrara
Carrara marble
Carraran
Carrboro
Carree
Carrel
Carrelli
Carrere
Carrew
Carri
Carrick
Carrickmacross applique
Carrickmacross guipure
Carrickmacross lace
Carrie
Carrie Chapman Lane
Carrier
Carrier Aircraft Service Unit
Carriere
Carrillo
Carrington
Carriess
Carrizo
Carrizo Springs
Carrizozo
Carrnan
Carrobili
Carrol
Carroll
Carrolls
Carrollton
Carrolltown
Carrothers
Carrsville
Carruthers
Carry
Carson
Carson City
Carsonville
Carstensz
Cart
Cartagena
Cartagena bark
Cartagena ipecac
Cartago
Cartan
Carte
Carter
Carter grass
Carter process
Carteret
Cashmirian
Cashton
Cashtown
Casi
Casia
Casie
Casilda
Casilde
Casimir
Casimire
Casimiroa
Cask of Amontillado, The
Caslon
Caslon Old Style
Casmalia
Casmey
Casnovia
Cason
Caspar
Casparian
Casparian strip
Casper
Caspian
Caspian Sea
Cass
Cassadaga
Cassady
Cassander
Cassandra
Cassandra-like
Cassandran
Cassandre
Cassandrian
Cassandy
Cassatt
Cassandra
Casscoe
Cassegrian
Cassegrian telescope
Cassegrianian
Cassegrianian telescope
Cassel
Cassel brown
Cassel earth
Cassel yellow
Casselberry
Cassell
Cassella
Castalia
Castalian
Castalides
Castalio
Castana
Castanea
Castanopsis
Castanospermum
Castara
Casteau
Casteel
Castel Gandolfo
Castell
Castella
Castellammare di Stabia
Castellanos
Castelli Romani
Castellina
Castelnuovo-Tedesco
Castelo Branco
Castelvetro
Caster
Castera
Castiglione
Castile
Castile earth
Castile soap
Castilian
Castilian Spring
Castilian brown
Castilla
Castilla la Vieja
Castilla rubber
Castilleja
Castillo
Castillo de Montjioch
Castilloa
Castine
Castle
Castle of Otranto, The
Castle walk
Castle, The
Castleberry
Castledale
Castleford
Castleford ware
Castlereagh
Castleton
Cato
Catocala
Catoclin
Catodon
Catoism
Caton
Catonian
Catonic
Catonically
Catonism
Catonsville
Catoosa
Catoquina
Catostomidae
Catostomus
Catreus
Catrina
Catriona
Catron
Catskill
Catskill Mountains
Catskills
Catt
Cattan
Cattaraugus
Cattegat
Cattell
Catti
Cattier
Cattima
Cattle damara
Cattleya
Catto
Catton
Catty
Catullian
Catullus
Caty
Cauca
Caucasia
Caucasian
Caucasian lily
Caucasian race
Caucasian rug
Caucasic
Caucasoid
Caucasoid race
Caucasus
Caucasus Mountains
Caucete
Cauchy
Cauchy integral formula
Cauchy integral theorem
Cauchy sequence
Cauchy's inequality
Cauchy-Riemann equations
Cauchy-Schwarz inequality
Caucon
Caudata
Caudefbec
Caudillo
Caudine Forks
Caughey
Cauhnawaga
Caulerpa
Caurerpaceae
Caulfield
Caulite
Caulonia
Caulophyllum
Caulopteris
Caundra
Caunos
Caunus
Cauquenes
Cauqui
Caurus
Causeries du Lundi
Causey
Causus
Cauthornville
Cauvery
Cav
Cavafy
Cavalerius
Cavalier
Cavalier poets
Cavalieri
Cavallaro
Cavan
Cavanagh
Cavenagh
Cave
Cavell
Cavendish
Cavendish banana
Cavendish experiment
Caves
Caves du Vatican
Cavetown
Cavia
Cavicornia
Cavidae
Cavil
Cavill
Cavina
Caviness
Cavit
Cavite
Cavour
Cavuoto
Cawdrey
Cawley
Cawnpore
Cawood
Caxias
Caxton
Caxtonian
Cayapa
Cayapo
Cayce
Caye
Cayenne
Cayenne cherry
Cayenne incense
Cayes
Cayey
Cayla
Cayley
Cayleyan
Caylor
Cayman Islands
Cayser
Cayubaba
Cayubaban
Cayucos
Cayuga
Cayuga Heights
Cayuga Lake
Cayuga duck
Cayugan
Cayugas
Cayuse
Cayuta
Celebes
Celebes Sea
Celebesian
Celebrazze
Celene
Celeomorphae
Celeski
Celesta
Celeste
Celestia
Celestial City
Celestial Empire
Celestina
Celestina, La
Celestine
Celestine I
Celestine II
Celestine III
Celestine IV
Celestine V
Celestinian
Celestyn
Celestyna
Celeuthea
Celia
Celie
Celik
Celin
Celina
Celinda
Celine
Celinka
Celio
Celisse
Celka
Celle
Cellepora
Cellfalcicula
Cellini
Cellini's halo
Cellite
Cello
Cellucotton
Celluloid
Celluloid filter
Cellulomonadeae
Cellulomonas
Cellvibrio
Cenci, The
Cendre Champenois
Cendre d'Aizy
Cendre de La Brie
Cendre des Riceys
Cenis
Cenomanian
Cenozoic
Censorinus
Centaurea
Centauri
Centaurid
Centauridium
Centaurium
Centaurus
Centenary
Centennial State
Centeno
Center
Center Moriches
Centerville
Centerville-Dublin Gulch
Centetes
Centetidae
Centiloquy
Centimani
Centonze
Centrahoma
Central African Empire
Central African Federation
Central African Republic
Central America
Central American
Central American Common Market
Central Bay
Central Committee
Central European Time
Central Falls
Central India
Central India Agency
Central Indian Agency
Central Intelligence Agency
Central Park
Central Powers
Central Provinces and Berar
Central Region
Central Standard Time
Central Treaty Organization
Central time
Centrales
Centralia
Centranthus
Centrarchidae
Centraxonia
Centre
Centrechinoida
Centrehall
Centreville
Centricae
Centricidae
Centriscus
Centrolepidaceae
Centropomidae
Centropomus
Centroserma
Centrosoyus
Centrosporae
Centrotus
Centunculus
Centuria
Century
Cephaelis
Cephalacanthidae
Cephalacanthus
Cephalanthus
Cephalaspis
Cephalata
Cephealeuros
Cephalina
Cephalobranchiata
Cephalocereus
Cephalochorda
Cephalochordata
Cephalodiscida
Cephalodiscus
Cephalonia
Cephalophas
Cephalopoda
Cephalopterus
Cephalosporium
Cephalotaceae
Cephalotaxus
Cephalotus
Cephalus
Cephas
Cephei
Cepheid
Cepheid variable
Cepheus
Cepheidae
Cephus
Cepolidae
Ceporah
CerE
Cerallua
Ceram
Ceramibus
Cerambycidae
Ceramiaceae
Ceramium
Cerastium
Cerasus
Ceratiidae
Ceratites
Ceratitidae
Ceratitidis
Ceratotoidea
Ceratium
Ceratobatrachinae
Ceratodidae
Ceratodontidae
Ceratodus
Ceratonia
Ceratophrys
Ceratophyllaceae
Ceratophyllum
Ceratophyta
Ceratops
Ceratopsia
Ceratopsidae
Ceratopteridaceae
Ceratopteris
Ceratosa
Ceratosaurus
Ceratospongiae
Ceratostomataceae
Ceratostomella
Ceratozamia
Cerbberi
Cerberean
Cerberi
Cerberic
Cerberus
Cerberuses
Cercidiphyllaceae
Cercis
Cercocebus
Cercolabes
Cercolabidae
Cercomonadidae
Cercomonas
Cercopes
Cercopidae
Cercopithecidae
Cercopithecoid
Cercopithecus
Cercospora
Cercosporella
Cercyon
Cerdonian
Cerebratulus
Ceredo
Cerelia
Cerell
Cerellia
Cerelly
Cerenkov
Cerenkov counter
Cerenkov radiation
Ceres
Ceresco
Cereus
Cerf
Cerialia
Cerianthidae
Cerianthus
Cerigo
Cerinthe
Cerinthian
Ceriomyces
Cerion
Cerionidae
Ceriornis
Cerithiidae
Cerithium
Cern
Cernauti
Cernuda
Ceroxylon
Cerracchio
Cerrillos
Cerritos
Cerro
Cerro Gordo
Cerro de Pasco
Cerrogordo
Cert Ed
Certhia
Certhiidae
Certie
Cervantes
Cervantist
Cerveny
Cervicapra
Cervidae
Cervin
Cervinae
Cervulus
Cervus
Cery
Cerynean
Cerynean hind
Cerynean stag
Ceryneian stag
Cerys
Ceryx
Cesar
Cesar Chavez
Cesare
Cesarean
Cesaria
Cesarian
Cesaro
Cesaro sum
Cesaro summability
Cesena
Cessna
Cestar
Cesti
Cestida
Cestidae
Cestmir Cisar
Cestoda
Cestodaria
Cestoidea
Cestracion
Cestraciontidae
Cestrian
Cestrinus
Cestrum
Cesya
Ceta
Cetacea
Cetatea Alb
Cete
Ceti
Cetid
Cetinje
Cetiosa
Cetiosaurus
Ceto
Cetomorpha
Cetonia
Cetoniides
Cetoniinae
Cetorhinidae
Cetorhinus
Cetraria
Cetura
Cetus
Ceuta
Cevdet
Cevennes
Cevennian
Cevenol
Cevenole
Cevenole race
Ceylon
Ceylon cinnamon
Ceylon gooseberry
Ceylon morning-glory
Ceylon moss
Ceylonese
Ceyx
Cezanne
Cezannesque
Cf
Ch
Ch'an
Ch'an Buddhism
Ch'ang Ch'un
Ch'eng Huang
Ch'eng-Chu school
Ch'ien Lung
Ch'in
Ch'ing
Ch'ing-yan
Ch'i'u Ch'u-chi
ChB
ChE
ChM
Cha
Cha'ah
Cha-cha
Chabichou
Chablis
Chabot
Chabrier
Chabrol
Chac
Chac-mool
Chace
Chachapuya
Chackchiuma
Chaco
Chacon
Chad
Chadabe
Chadbourn
Chadbourne
Chadburn
Chadd
Chadderton
Chaddie
Chaddsford
Chaddy
Chader
Chadic
Chadli Benjedid
Chadron
Chadwick
Chadwicks
Chae
Chaenactis
Chaenolobus
Chaenomeles
Chaeronea
Chaetangiaceae
Chaetangium
Chaetetes
Chaetetidae
Chaetitera
Chaetites
Chaetitidae
Chaetochloa
Chal
Chalastogastra
Chalcedon
Chalcedonian
Chalcidian
Chalcidic
Chalcidice
Chalcididae
Chalcidoidea
Chalcioecus
Chalciope
Chalcis
Chalcolithic
Chald
Chaldae-pahlavi
Chaldaei
Chaldaic
Chaldaical
Chaldaism
Chaldea
Chaldean
Chaldee
Chaldee church
Chaldee paraphrase
Chaldei Benjedid
Chalfont
Chaliapin
Chalicotheriidae
Chalicotherium
Chalina
Chalinidae
Chalinitis
Challis
Chally
Chalmer
Chalmers
Chalmette
Chalon-sur-Sa
Chalonnais
Chalons
Chalons Sur Marne
Chalons-sur-Marne
Chalukya
Chalukyan
Chalybean
Chalybes
Cham
Cham-selung
Chama
Chamacea
Chamacoco
Chamaebatia
Chamaecistus
Chamaecrista
Chamaecyparis
Chamaedaphne
Chamaeleo
Chamaeleon
Chamaeleontidae
Chamaeleontis
Chamaelfirium
Chamaenerion
Chamaepericlymenum
Chamaerops
Chamaesaura
Chamaeisphon
Chamaesiphonaceae
Chamaesiphonaceous
Chamaesiphonales
Chamaesyce
Chamar
Chamber of Deputies
Chamber of Nations
Chamber of Notables
Chamber of Representatives
Chamber of the People
Chamberino
Chamberlain
Chamberlin
Chambers
Chambersburg
Chambersville
Chambertin
Chambery
Chambioa
Chamblee
Chambord
Chamby
Chamdo
Chamian
Chamicuro
Chamidae
Chaminade
Chamisal
Chamite
Chamizal
Chantilly lace
Chantilly sauce
Chants de Maldoror Les
Chanukah
Chanute
Chany
Chao
Chao K'uang-yin
Chao Phraya
Chaoan
Chaochow
Chaochowfu
Chaan
Chaos and old Night
Chaouia
Chaource
Chap
Chapa
Chapacura
Chapacuran
Chapanec
Chapei
Chapel
Chapel Hill
Chapple
Chapen
Chapin
Chapland
Chaplin
Chapman
Chapmansboro
Chapmanville
Chapnick
Chappaqua
Chappaquiddick
Chappelka
Chappell
Chappells
Chappie
Chappy
Chaptico
Chapultepec
Char
Chara
Characeae
Characinidae
Charadrii
Charadriidae
Charlo
Charlot
Charlotta
Charlotte
Charlotte Amalie
Charlotte Russe
Charlottenburg
Charlottesville
Charlottetown
Charlottesville
Charlton
Charlton white
Charlye
Charlyn
Charlyne
Charmain
Charmaine
Charmane
Charmco
Charmouse
Charmian
Charminar
Charmine
Charmion
Charo
Charolais
Charollais
Charon
Charonian
Charonic
Charontas
Charophyta
Charops
Charpentier
Charron
Charruan
Charruas
Charry
Charta
Charta charitatis
Charter boy
Charter school
Charterhouse
Charterhouse of Parma, The
Charterhouses
Charteris
Charterist
Charters
Chartism
Chartist
Chartley
Chartres
Chartreuse
Chartreux
Charvaka
Charybdian
Charybdis
Charyl
Chas
Chase
Chaseburg
Chaseley
Chasid
Chasidic
Chasidim
Chasidism
Chaska
Chasles
Chasse
Chasselas
Chassell
Chassin
Chastacosta
Chastain
Chastity
Chataignier
Chatav
Chatawa
Chateau
Chateau ausone
Chateau brane-cantenac
Chateau d'Yquem
Chateau dyquem
Chateau hautbrion
Chateau lafite
Chateau-Thierry
Chateaubriand
Chateaugay
Chateauneuf-du-Pape
Chateauroux
Chatfield
Chatham
Chatham Island
Chatham Islands
Chatillon
Chatino
Chatom
Chatot
Chatsworth
Chattahoochee
Chattahoochee formation
Chattanooga
Chattanooga
Chattanooga
Chattaroy
Chatterjee
Chatterton
Chattertonian
Chatti
Chatwin
Chaucer
Chaucerian
Chauceriana
Chaucerianism
Chaucerism
Chauchat
Chaudoin
Chau
Chauliodes
Chaumont
Chaumont-en-Bassigny
Chauna
Chaunce
Chauncey
Chausson
Chautauqua
Chautauquan
Chautemps
Chauvin
Chavannes
Chavante
Chavantean
Chavaree
Chaves
Chavey
Chavez
Chavies
Chavignol
Chavin
Chawia
Chaworth
Chayefsky
Chayma
Chayota
Chena River
Chenab
Chenay
Chenee
Cheney
Cheneyville
Cheng
Cheng Heng
Cheng Wu
Chengchow
Chengteh
Chengtu
Chenier
Chenin blanc
Chennault
Chenoa
Chenopodiaceae
Chenopodiales
Chenopodium
Chenoweth
Cheops
Chepachet
Chephren
Chequers
Cher
Chera
Cheraw
Cherbourg
Cherche Midi
Chere
Cheremis
Cheremiss
Cheremissian
Cheremkhovo
Cherenkov
Cherenkov radiation
Cherey
Cheri
Cheria
Cherian
Cherianne
Cheribon
Cherice
Cherida
Cherie
Cheries
Cherif Hamia
Cherilyn
Cheshire
Cheshire cat
Cheshire cheese
Cheshunt
Cheshvan
Cheslie
Chesna
Chesnee
Chesney
Chesnut
Chessa
Chessy
Chester
Chester White
Chesterfield
Chesterfieldian
Chesterland
Chesterton
Chestertown
Chesterville
Cheston
Cheswick
Cheswold
Chet
Chetek
Chetnik
Chetopa
Chetumal
Cheung
Cheux
Chev
Chevak
Cheval blanc
Chevalier
Chevalier-Montrachet
Chevallier
Cheverly
Cheves
Cheviot
Cheviot Hills
Chevret
Chevrier
Chevrolet
Chevrotin
Chevy
Chevy Chase
Chew
Chewa
Chewalla
Chewelah
Chewings fescue
Chewsville
Cheyenne
Cheyenne River
Cheyennes
Cheyne
Cheyne-Stokes breathing
Cheyne-Stokes respiration
Cheyney
Chhnang
Chi
Chi Chi Rodriguez
Chi-Rho
Chi-Rhos
Chi-lin
Chi-rho monogram
Chi-tse
Chi-tzu
Chia-Chia
Chiaki
Chiam
Chian
Chian turpentine
Chiang
Chiang Ch'ing
Chiang Ching-kuo
Chiang Kai-shek
Chiangling
Chiangmai
Chiante
Chiante classico
Chiao Kuan-hua
Chiapanec
Chiapanecan
Chiapas
Chiaretto
Chiari
Chiarra
Chiasmodon
Chiasmodontidae
Chiasso
Chiayi
Chiba
Chibcha
Chibchan
Chibchas
Chic
Chicago
Chicago Heights
Chicago Ridge
Chicago style
Chicagoman
Chicano
Chicanos
Chicha
Chichagof Island
Chichen Itz
Chichester
Chichester elm
Chichewa
Chichi Jima
Chichihaerh
Chichihar
Chichimec
Chichivache
Chick
Chickahominy
Chickamauga
Chickasaw
Chickasaws
Chickasha
Chicken Itsa
Chickie
Chicky
Chiclayo
Chico
Chicoine
Chicomecoatl
Chicopee
Chicora
Chicota
Chidester
Chief Education Officer
Chief Executive
Chief Justice
Chief Rabbi
Chief Secretary
Chief of Staff
Chiefeland
Chiemsee
Chien
Chien ware
Chiengmai
Chiengrai
Chiffney bit
Chifley
Chignik
Chigwell
Chihli
Chihuahua
Chihuahua pine
Chikamatsu
Chikmagalur
Chil
Chilcat
Chilcats
Chilcoot
Chilcote
Child
Child's Garden of Verses, A
Childe
Childe Harold's Pilgrimage
Childermas
Childers
Childersburg
Children of Hercules
Children's Crusade
Children's Day
Children's Hour, The
Childress
Childs
Childwold
Chile
Chile hazel
Chile pine
Chile saltpeter
Chile saltpetre
Chilean
Chilean arborvitae
Chilean bellflower
Chilean guava
Chilean tarweed
Chilean wine
Chileanization
Chileanize
Chiles
Chilhowee
Chilhowie
Chilina
Chilinidae
Chilion
Chilkat
Chilkats
Chilkoot Pass
Chill
Chillan
Chillicothe
Chilliwack
Chillon
Chilmark
Chilo
Chilo Island
Chilognatha
Chilomastix
Chilomonas
Chilon
Chilopoda
Chilopsis
Chiloquin
Chilostoma
Chilostomata
Chilpancingo
Chilson
Chilt
Chiltern
Chiltern Hills
Chiltern Hundreds
Chilton
Chilung
Chimacum
Chimaeridae
Chimaeroidi
Chimakuan
Chimakum
Chimalakwe
Chimalapa
Chimane
Chimaphila
Chimarikan
Chimariko
Chimayo
Chimbrazo
Chimbote
Chinene
Chinique
Chinkent
Chimmesyan
Chimonanthus
Chimu
Chinus
Chin
Chin Hills
Chin-Chou
Chin-Hsien
China
China Sea
China aster
China grass
China grass cloth
China ink
China oil
China plate
China rose
China silk
China tree
China wood oil
Chinagraph
Chinaman
Chinamen
Chinan
Chinantecan
Chinanteecs
Chinatown
Chinchasuyu
Chinchilla cat
Chincoteague
Chindit
Chindwin
Chinee
Chinese
Chinese Chippendale
Chinese Empire
Chinese Revolution
Chinese Turkestan
Chinese Wall
Chinese artichoke
Chinese banana
Chinese block
Chinese blue
Chinese boxer
Chinese boxing
Chinese cabbage
Chinese calendar
Chinese checkers
Chinese chequers
Chinese cinnamon
Chinese copy
Chinese crescent
Chinese date
Chinese eddo
Chinese evergreen
Chinese fan palm
Chinese fire drill
Chinese fleece-vine
Chinese forget-me-not
Chinese gelatin
Chinese glue
Chinese gooseberry
Chinese hibiscus
Chinese house
Chinese ink
Chinese isinglass
Chinese jujube
Chinese juniper
Chinese lacquer
Chinese landing
Chinese lantern
Chinese lantern plant
Chinese lug
Chinese pavilion
Chinese pistachio
Chinese potato
Chinese primrose
Chinese puzzle
Chinese quince
Chinese red
Chinese remainder theorem
Chinese rug
Chinese sacred lily
Chinese scholar tree
Chinese snowball
Chinese tag
Chinese tree wax
Chinese trumpet creeper
Chinese vermilion
Chinese wall
Chinese water torture
Chinese watermelon
Chinese waterplant
Chinese wax
Chinese white
Chinese windlass
Chinese wisteria
Chinese wood oil
Chinese yam
Chinese-houses
Chinesery
Ching
Ching ming
Ching-t'u
Ching-t'u Buddhism
Ching-tu
Chinghai
Chingpaw
Chingtao
Chinhwan
Chink
Chinkiang
Chinle
Chinle formation
Chinnampo
Chino
Chino-
Chino-japanese
Chinook
Chinook Jargon
Chinook licorice
Chinook salmon
Chinookan
Chinooks
Chinua
Chiococca
Chiogenes
Chionanthus
Chionaspis
Chione
Chionididae
Chionis
Chionodoxa
Chios
Chiot
Chiou
Chip
Chipewyan
Chipley
Chipman
Chippendale
Chippewa
Chippewas
Chippeway
Chippeways
Chiquia
Chiquinquiria
Chiquita
Chiquitan
Chiquito
Chir River
Chirac
Chiran
Chiraú
Chireno
Chiriana
Chiricalhua
Chirico
Chiriguano
Chirikof
Chirino
Chiriqui
Chirlin
Chiromantis
Chiromyidae
Chiromys
Chiron
Chironomidae
Chironomus
Chiroptera
Chirotes
Chirotherium
Chisedec
Chishima
Chisholm
Chisholm Trail
Chisimaio
Chisin
Chita
Chitimacha
Chitimachan
Chitina
Chitkara
Chitrargupta
Chitrali
Chittagong
Chittagong wood
Chittenango
Chittenden
Chiusi
Chivers
Chivington
Chiwere
Chkalov
Chladek
Chladni
Chlamydia
Chlamydotheliae
Chlamydobacteriales
Chlamydomonadaceae
Chlamydomonadidae
Chlamydomonas
Chlamydosaurus
Chlamydoselachidae
Chlamydoselachus
Chlamydozoa
Chlamyphorus
Chleuh
Chlidanope
Chlo
Chlodwig
Chloe
Chloette
Chlons-sur-Marne
Chlor-Trimeton
Chloranthaceae
Chloranthus
Chloras
Chlorella
Chlorellaceae
Chlores
Chlori
Chloridella
Chloridellidae
Chlorion
Chlorioninae
Chloris
Chlorococcaceae
Chlorococcales
Chlorococcum
Chlorococcus
Chloromycetin
Chlorophora
Chlorophyceae
Chmielewski
Chnier
Chnuphis
Cho
Cho Lin
Cho Lon
Choanephora
Choanoflagellata
Choanoflagellida
Choanoflagellidae
Chopin
Chopsticks
Chopunnish
Chor
Chor Chungjin
Chora
Chorai
Chorasmian
Chordaceae
Chordata
Chordeiles
Chorioptes
Choripetalae
Chorley
Chorotega
Choroti
Chorti
Chorwat
Chorwon
Chorz
Chorzow
Chosen
Chosn
Chosunilbo
Chota Nagpur
Choteau
Chou
Chou En-Lai
Chou En-lai
Chouan
Chouanize
Choudrant
Chouest
Choukoutien
Chouteau
Choveve zion
Chow
Chowanoc
Chowchilla
Chozar
Chr
Chrestien de Troyes
Chretien
Chriesman
Chris
Chris Chelios
Chris Heunis
Chris Kotsopolous
Chris Nilan
Chris Spielman
Chris Welp
Chrisman
Chrisney
Chrisoula
Chrissa
Chrisse
Chriissie
Chrissy
Christ
Christ Jesus
Christ Within
Christ and the beloved disciple
Christ child
Christ follower
Christ in Majesty
Christ row
Christ's thorn
Christ's-thorn
Christ-borne
Christ-confessing
Christ-given
Christ-hymning
Christ-imitating
Christ-inspired
Christ-professing
Christ-taught
Christa
Christabel
Christabella
Christabelle
Christadelphian
Christadelphianism
Christal
Christalle
Christian
Christanna indian
Christchurch
Christdom
Christ eleison
Christean
Christed
Christel
Christen
Christendie
Christendom
Christenmas
Christensen
Christenson
Christhood
Christi
Christiaan
Christiad
Christian
Christian Action
Christian Brethren
Christian Brother
Christian Brothers
Christian Dior
Christian Endeavor
Christian Era
Christian Fouchet
Christian IX
Christian Reformed
Christian Ruutuu
Christian Science
Christian Science Practitioner
Christian Scientist
Christian Socialism
Christian Socialist
Christian X
Christian charity
Christian denominations
Christian ethics
Christian existentialism
Christian existentialist
Christian healer
Christian healing
Christian humanism
Christian love
Christian name
Christian science
Christian scientist
Christian sectarians
Christian year
Christian-socialize
Christiana
Christiana standard
Christiane
Christiana
Christiania epoch
Christiania standard
Christianiaideal
Christianisation
Christianise
Christianised
Christianiser
Christianising
Christianism
Christianities
Christianity
Christianization
Christianize
Christianized
Christianizer
Christianizing
Christianlike
Christianly
Christianna
Christianness
Christiano
Christiano-platonic
Christianogentilism
Christianography
Christianomastix
Christianopaganism
Christiansand
Christiansburg
Christiansen
Christianson
Christiansted
Christicide
Christie
Christies
Christiform
Christin
Christina
Christine
Christine Bonnet
Christis
Christless
Christlessness
Christlike
Christlikeness
Christliness
Christly
Christmann
Christmas
Christmas Carol, A
Christmas Day
Christmas Eve
Christmas Island
Christmas beetle
Church of Scotland
Church of the Brethren
Church of the New Jerusalem
Church slavic
Church, the
Churchill
Churchill Falls
Churchillian
Churchman
Churchton
Churchville
Churdan
Churoya
Churoyan
Churiguieresque
Churubusco
Chute
Chute La
Chuter Ede
Chuu
Chuvash
Chuvashi
Chvostek's sign
Chwana
Chwang-tse
Chyou
Chytridiaceae
Chytridiales
Chytridium
Chytrroi
Ci
Cia
Ciales
Ciampino
Cianca
Ciano
Ciapas
Ciapha
Ciaphus
Ciardi
Cibber
Cibis
Cibola
Cibolan
Cibolo
Ciboney
Cicadellidae
Cicadidae
Cillus
Cilo
Cilurzo
Cima
Cimabue
Cimah
Cimarosa
Cimarron
Cimbri
Cimbrian
Cimbric
Cimbura
Cimicidae
Cimicifuga
Cimmeria
Cimmerian
Cimmerian darkness
Cimmerian sibyl
Cimmerianism
Cimmerium
Cimon
Cinchona
Cinchonaceae
Cinchoro
Cincinnati
Cincinnatia
Cincinnatian
Cincinnatus
Cinclidae
Cinclidotus
Cinclus
Cinco de Mayo
Cinda
Cindee
Cindelyn
Cinderella
Cindi
Cindie
Cindra
Cindy
Cindylou
Cinebar
Cinelli
CinemaScope
CinemaScopic
Cinemascope
Cinerama
Cineraria
Cingalese
Cingulum veneris
Cini
Cinna
Cinnamodendron
Cinnamomum
Cinnamon
Cinque Ports
Cinque port
Cinura
Cinyras
Cinzano
Cioban
Cioffred
Cipango
Ciprian
Cipus
Circaea
Circaeaceae
Circaean
Circaetus
Circassia
Circassian
Circassic
Circe
Circean
Circensian
Circini
Circinus
Circleville
Circlorama
Circosta
Circum-arean
Circum-cytherean
Circum-jovial
Circum-mercurial
Circum-neptunian
Circum-saturnal
Circum-saturnian
Circum-uranian
Circumcellion
Circumcision style
Circus Maximus
Cirenaica
Cirencester
Ciri
Ciriaco de Mita
Cirilla
Cirillo
Cirilo
Ciro
Cirone
Cirratulidae
Cirratulus
Cirrhopetalum
Cirri
Cirripedia
Cirrostomi
Cirrium
Cis
Cis-reformation
Cisalpine
Cisalpine Gaul
Cisalpinism
Ciscaucasia
Cisco
Ciskei
Cismontane
Cismontanism
Cisne
Cissaea
Cissampelos
Cissie
Cissiee
Cissus
Cissy
Cistaceae
Cistercian
Cistercianism
Cistudo
Cistus
Ciszek
Cita
Citarella
Citation
Citellus
Cithaeron
Cithaeronian
Citharexylum
Citigradae
Citizens' Band
Citizenship Day
Citlaltepetl
Citlaltpetl
Cito Gaston
Citra
Citroen
Citromyces
Citron
Citronelle
Citropsis
Citullus
Citrus
Citticano
City
City Celestial
City Company
City Dionysia
City and Guilds Institute
City of Brotherly Love
City of David
City of God
City of God, The
City of Light
City of Seven Hills
City of Westminster
Ciudad
Ciudad Acuna
Ciudad Bolvar
Ciudad Jurez
Ciudad Madero
Ciudad Mante
Ciudad Real
Ciudad Trujillo
Ciudad Victoria
Ciudad del Carmen
Civia
Civil Aeronautics Administration
Civil Aeronautics Board
Civil Air Patrol
Civil Defense Warning System
Civil War
Civil Wars
Civilian Conservation Corps
Civitan
Civitas Dei
Cixiidae
Cixo
CI
Clabo
Clackama
Clackamas
Clackmannan
Clackmannanshire
Clardy
Clare
Clare of Assisi
Clare of Assisi Saint
Claremont
Claremore
Clarence
Clarence Huebner
Clarenceux
Clarenceux King of Arms
Clarenceuxship
Clarenceieux
Clarendon
Clarendon Code
Clarendon Hills
Claresta
Claret
Claretian
Claretta
Clarette
Clarey
Clarhe
Clari
Claribel
Clarice
Clarie
Clarinda
Clarine
Clarington
Clarion
Clarisa
Clarise
Clarissa
Clarisse
Clarist
Clarita
Clark
Clark cell
Clark nutcracker
Clark's crow
Clark's nutcracker
Clarkdale
Clarke
Clarke beam
Clarke's gazelle
Clarkedale
Clarkesville
Clarkfield
Clarkia
Clarkin
Clarks
Clarks Summit
Clarksboro
Clarksburg
Clarksdale
Clarkson
Clarkston
Clarksville
Clarkton
Claramontane
Claramontanus
Clary
Claryville
Clashing Rocks
Class Mammalia
Clathraceae
Clathraria
Clathrina
Clathrinidae
Clathrus
Clatonia
Clatskanie
Clatsop
Claud
Claudetta
Claude
Claude Brinegar
Claude Cheysson
Claude Duval
Claude Lemieux
Claude Loiselle
Claude Lorrain
Claude tint
Clausel
Claudell
Claudelle
Claudetta
Claudette
Claudia
Claudia Leister
Claudian
Claudianus
Claudie
Claudina
Claudine
Claudio
Cleantha
Cleanthes
Clear Lake
Clearbrook
Clearchus
Clearfield
Clearmont
Clearsite
Clearview
Clearville
Clearwater
Clearwater Mountains
Cleary
Cleasta
Cleaton
Cleave
Cleaves
Cleavland
Cleburne
Cleelum
Cleethorpes
Cleghorn
Clein
Cleisthenes
Cleistotheocopsis
Clela
Cleland
Clelio Darida
Clellan
Clem
Clematis
Clemclemalats
Clemen
Clemence
Clemenceau
Clemency
Clemens
Clemens Kapuuo
Clement
Clement I
Clement II
Clement III
Clement IV
Clement IX
Clement V
Clement VI
Clement VII
Clement VIII
Clement X
Clement XI
Clement XII
Clement XIII
Clement XIV
Clement of Alexandria
Clement of Rome
Clementas
Clemente
Clementi
Clementia
Clementina
Clementine
Clementis
Clementius
Clementon
Clements
Clemmie
Clemmons
Clemmy
Cleon
Clemons
Clemson
Clendenin
Cleo
Cleobis
Cleobulus
Cleodaeus
Cleodal
Cleodel
Cleodell
Cleome
Cleomenes III
Cleon
Cleone
Cleopatra
Cleopatra's Needle
Cleopatre
Cleostratus
Cleota
Cleothera
Clepsine
Clerc
Clercq
Clere
Cleres
Cleridae
Clerissa
Cline
Clingan
Clingmans Dome
Clinis
Clinopodium
Clint
Clint Malarchuk
Clintock
Clinton
Clintondale
Clintonia
Clintonville
Clintwood
Clio
Cliona
Clione
Clippard
Clisiocampa
Clisthenes
Clistogastra
Clite
Clitherall
Clitocybe
Clitoria
Clitus
Clive
Clivia
Cllr
Clo
Cloanthus
Clockville
 Cloe
Cloelia
Cloete
Clois
Cloisonnisme
Cloisonnist
Cloister and the Hearth, The
Clonorchis
Clonothrix
Clontarf
Cloots
Clopton
Cloquet
Clorinda
Clorinde
Cloris
Cloox
Clos de Vougeot
Close
Closplint
Closter
Closterium
Clostridium
Clothilda
Clothilde
Clotho
Clotilda
Clotilde
Cloud-cuckoo-land
Cloudcroft
Cloudcuckooland
Clouds
Clouds, The
Clouet
Clough
Clougher
Cloutierville
Cloutman
Clova
Clovah
Clover
Cloverdale
Cloverport
Clovis
Clovis I
Clower
Clubb
Clubionidae
Cluj
Clune
Cluniac
Cluniacensian
Clunisian
Clunist
Cluny
Cluny guipure
Cluny lace
Clupea
Clupeidae
Clupeodei
Clurman
Clusia
Clusiaceae
Clusium
Clute
Clutier
Clwyd
Cly
Clyde
Clyde Barrow
Clyde Lovellette
Clydebank
Clydesdale
Clydesdale terrier
Clydeside
Clydesider
Clyman
Clymene
Clymenia
Clymenus
Clymer
Clynes
Clyo
Clypeaster
Clypeastridea
Clypeastrina
Clypeastroida
Clypeastroidea
Clytaemnesra
Clyte
Clytennestra
Clytia
Clytie
Clytius
Clyve
Clywd
Cm
Cmdr
Cmon
Cnemidophorus
Cneoraceae
Cneorum
Cnicus
Cnidaria
Cnidean
Cndia
Cnidian
Cnidoscolus
Cnidus
Cnossian
Cnossus
Cnut
Co
Co-hong
CoComanchean
Coachella
Coad
Coade stone
Coady
Coahoma
Coahuila
Coahuiltecan
Coal Grove
Coal Measures
Coal Sack
Coaldale
Coalfield
Coalgood
Coaling
Coalinga
Coalisland
Coalite
Coalmont
Coalport
Coalsack
Coalton
Coalville
Coalwood
Coamo
Coan
Coanda
Coarsegold
Coast Artillery Corps
Coast Guard
Coast Mountains
Coast Range
Coast of Labrador
Coast salish
Coastal Command
Coastguard
Coatbridge
Coates
Coatesville
Coats
Coatsburg
Coatsville
Coatsworth
Cob
Coban
Cobb
Cobbett
Codd
Coddington
Code Napoleon
Code Napolon
Code of Hammurabi
Coded
Codell
Codex Juris Canonici
Codi
Codiacae
Codiaeum
Codiales
Codie
Codium
Codorus
Codrus
Cody
Coeburn
Coelacanthidae
Coelacanthini
Coelastraceae
Coelastrium
Coelata
Coelebogyne
Coelelminthes
Coelentera
Coelenterata
Coelicola
Coelicolidae
Coello
Coelococcus
Coeloglossum
Coelogyne
Coelomata
Coelomocoela
Coendidae
Coendou
Coerebidae
Coeur d'Alene
Coeur de Lion
Coeus
Coeymans
Cofane
Coff's Harbour
Coffea
Coffee
Coffeen
Coffeeville
Coffeng
Coffey
Coffeyville
Coffin
Coffman
Cofield
Cofsky
Cogan
Cogen
Coggan
Coggon
Cognac
Cognitum
Cogswell
Cogswell chair
Cogswellia
Coh
Cohagen
Cohan
Cohanim
Cohasset
Cohbath
Cohberg
Cohbert
Cohby
Cohdwell
Cohe
Coheman
Cohen
Cohens
Cohette
Cohin
Cohl
Cohla
Cohleen
Cohlette
Cohlier
Cohligan
Cohn
Cohoctah
Cohocton
Cohoes
Cohutta
Coibita
Coleman lantern
Colen
Colene
Coleochaetaceae
Coleochaete
Coleophora
Coleophoridae
Coleoptera
Coleosporiaceae
Coleosporium
Colerain
Coleraine
Coleridge
Coleridge-Taylor
Coleridgian
Coles
Colesburg
Colet
Coleta
Coletta
Colette
Coles
Coleus
Coleville
Colfax
Colfin
Colgate
Colias
Colier
Coligni
Coligny
Coliidae
Coliiformes
Colima
Colin
Colinette
Colinson
Colinus
Colis
Coliseum
Colius
Colla
Collar
Collayer
Collbaith
Collbran
Colle Sannita
Collect
Colleen
Colorado Desert
Colorado Plateau
Colorado Springs
Colorado beetle
Colorado blue spruce
Colorado potato beetle
Colorado red cedar
Colorado spruce
Coloradoan
Colorum
Colossae
Colosseum
Colossian
Colossians
Colossochelys
Colossus of Rhodes
Colossuswise
Colour index
Coloured
Colp
Colpin
Colpoda
Colquitt
Colrain
Colson
Colston
Colstrip
Colt
Colt revolver
Coltee
Coltin
Colton
Coltrane
Coltson
Coltun
Coltwood
Coluber
Colubridae
Colubriiformes
Colubriiformia
Colubrina
Colubrinae
Colum
Columba
Columba Noae
Columbae
Columban
Columbanian
Columbatz fly
Columbella
Columbia
Columbia Heights
Columbia formation
Columbia lava plateau
Columbian
Columbian red
Cumbrian
Columbiaville
Cumbid
Cumbidae
Cumbiformes
Cumbine
Columbus
Columbus Day
Columbus day
Columbyne
Columellia
Columelliaceae
Columna bellica
Colusa
Colutea
Colver
Colvert
Colville
Colvin
Colwell
Colwen
Colwich
Colwin
Colwyn
Colwyn Bay
Colyer
Colymbidae
Colymbiformes
Colymbus
Com
Com Ver
Coma Berenices
Coma berenices
Coma berenicid
Comae Berenices
Comaetho
Coman
Comanche
Comanchean
Comanches
Complutensian
Compoboard
Composaline
Compositae
Compostela
Compsilura
Compsoa
Compsognathus
Compsothlypidae
Comptche
Compte
Comptean
Comptom
Comptometer
Compton
Compton effect
Compton-Burnett
Compton-Debye effect
Comptonia
Comptroller of the Currency
Computer Age
Comr
Comras
Comsat
Comsomol
Comstock
Comstock Lode
Comstock Silver Lode
Comstock lode
Comte
Comte de Monte-Cristo, Le
Comtesse
Comtian
Comtism
Comtist
Comus
Comyns
Con
Conah
Conakry
Conal
Conall
Conan
Conan Doyle
Conant
Conard
Conasauga
Conaway
Conestoga wagon
Conesus
Conesville
Conetoe
Coney
Coney Island
Confed
Confederacy
Confederate
Confederate Memorial Day
Confederate States of America
Confederate rose
Confederate vine
Confederate violet
Confederation
Conferva
Confervaceae
Confervales
Confervoideae
Confiteor
Confluence
Confucian
Confucianism
Confucianist
Confucius
Cong
Congdon
Conger
Congers
Congerville
Congo
Congo Free State
Congo brown
Congo color
Congo dye
Congo red
Congo rubine
Congoese
Congolese
Congoleum
Congonhas
Congregation of the Oratory
Congregational Church
Congregationalism
Congregationalist
Congregationer
Congreso
Congress
Congress Party
Congress of Vienna
Congressional Medal of Honor
Congressional Record
Congressional district
Congressman
Congresso
Congreve
Congreve match
Congreve rocket
Congridae
Coniacian
Coniah
Conias
Conidae
Coniferæ
Conilurus
Coniogramme
Coniophobia
Coniopterygidae
Conioselimum
Coniothyrium
Conirostres
Coniston Water
Conium
Conjugales
Conjugatae
Conklin
Conlan
Conlee
Conlen
Conley
Conlin
Conlon
Conn
Connacht
Connally
Connaraceae
Connarus
Connaught
Conneaut
Conneaut Lake
Conneautville
Connecticut
Connecticut chest
Connecticut warbler
Connee
Connel
Conservatism
Conservative
Conservative Baptist
Conservative Jew
Conservative Judaism
Conservative Party
Consett
Conshohocken
Consistory court
Consolamentum
Consolata
Consolation of Philosophy, The
Consolato
Consolato del Mare
Consolidated Fund
Const
Constable
Constableville
Constance
Constancia
Constancy
Constans I
Constant
Constanta
Constantia
Constantin
Constantina
Constantine
Constantine Caramanlis
Constantine Chapralis
Constantine I
Constantine II
Constantine Kollias
Constantine Mitsotakis
Constantine XI
Constantinian
Constantino
Constantinople
Constantinopolitan
Constantinopolitan Creed
Constantinopolitan rite
Constituent Assembly
Constitution Day
Constitution clock
Constitution mirror
Constitution state
Constitution, The
Constitutional Convention
Constitutional Democratic party
Constitutional Union Party
Constructivism
Constructivists
Consuela
Consuelo
Consus
Cont
Conte
Conti
Continent
Continental
Continental Celtic
Continental Congress
Continental Divide
Continental System
Continentaler
Continentalize
Contoocook
Contortae
Contraposaune
Conularia
Conuopsis
Conurus
Convair
Convallaria
Convallariaceae
Conventicle acts
Convention parliament
Convendual
Convendual Mass
Converse
Convery
Convoluta
Convolvulaceae
Convolvulus
Conway
Cony
Conyers
Conyngham
Coo
Cooch Behar
Coe
Coohee
Cook
Cook Inlet
Cook Islands
Cook Strait
Corbeil
Corbet
Corbett
Corbettsville
Corbie
Corbin
Corbusier
Corby
Corchorus
Corcoran
Corcovado
Corcovado Peak
Corcyra
Corcyræan
Cord
Cordaitaceae
Cordaitales
Cordaites
Cordialia
Corday
Corday d'Armont
Cordeau
Corded culture
Cordeelia
Cordele
Cordelia
Cordelie
Cordelier
Cordeliers
Cordeley
Cordell
Corder
Cordery
Cordesville
Cordey
Cordi
Cordia
Cordial Medoc
Cordie
Cordier
Cordilleran
Cordilleras
Cordle
Cordoba
Cordova
Cordovan
Cordula
Cordy
Cordyceps
Cordylanthus
Cordyline
Core
Corea
Coree
Coreen
Coregonidae
Coregonus
Coreidae
Corel
Corell
Corella
Corelli
Corema
Corena
Corenda
Corene
Coreopsis
Coresus
Coretta
Corette
Corey
Corey Pavin
Corfam
Corfiote
Corflambo
Corfu
Cori
Coriandrum
Coriaria
Coriariaceae
Coricidin
Coridon
Corie
Corilla
Corimelaena
Corimelaenidae
Corin
Corina
Corine
Corineus
Corinna
Corinne
Corinth
Corinthian
Corinthianesque
Corinthianism
Corinthianize
Cornish pasty
Cornish split
Cornish stone
Cornish wrestling
Cornishman
Cornishmen
Cornland
Cornlea
Corno
Cornopion
Cornstalk
Cornucopiae
Cornulites
Cornus
Cornville
Cornwall
Cornwallis
Cornwallville
Cornwell
Corny
Coro
Coroado
Coroebus
Corolla
Coromandel Coast
Coromandel work
Corona Australis
Corona Borealis
Corona borealis
Coronado
Coronae Australis
Coronae Borealis
Coronel
Coronilla
Coronis
Coronopus
Coronus
Coropo
Corot
Corotto
Corozal
Corp
CorpI
Corporal
Corporation act
Corporative Chamber
Corpus Christi
Corpus Christi Bay
Corpus Juris Canonici
Corpus Juris Civilis
Corpus christi
Corpus domini
Corr
Corrado
Corrado Barazzutti
Corrales
Correa
Correctionville
Correggio
Corregidor
Correll
Cornena
Correy
Correze
Corri
Corrianne
Corrie
Corriedale
Corrientes
Corrigan
Corriganville
Corrighola
Corrigolaceae
Corrina
Corrinal
Corrinne
Corrodenia
Corron
Corry
Corryton
Corse
Corsetti
Corsica
Corsican
Corsican sandwort
Corsicana
Corsier Sur Vevey
Corsiglia
Corso
Corson
Cort
Cortaderia
Cortaillod
Cortaro
Corte Madera
Cortegiano II
Corylopsis
Corylus
Corynebacterium
Corynetes
Coryneum
Corynne
Corynocarpaceae
Corynocarpus
Corypha
Corypha palm
Coryphaea
Coryphaena
Coryphaenidae
Coryphaenoididae
Coryphasia
Coryphodon
Corythus
Cos
Cosa Nostra
Cosby
Coscinodiscaceae
Coscinodiscus
Coscob
Cosenza
Cosetta
Cosette
Cosgrave
Cosgrove
Coshocton
Coshow
Cosimo
Cosma
Cosmati
Cosme
Cosmetas
Cosmo
Cosmopolis
Cosmos
Cosmotron
Cossack
Cossack post
Cossaean
Cossayuna
Cossidae
Cost
Costa
Costa Brava
Costa Mesa
Costa Rica
Costa Rica nightshade
Costa Rican
Costa rican
Costaea
Costain
Costanoan
Costanza
Costanzia
Costata
Coste-Floret
Costello
Costen
Coster
Costermansville
Costigan
Costilla
Costin
Cosyra
Cot
Cotabato
Cotati
Cote
Cote Rotie
Cote d'Or
Cote de Nuits
Coteau
Cotes de Provence
Cotes du Rhone
Cotesfield
Cotesian
Cotherstone
Cotinga
Cotinga purple
Cotingidae
Cotinus
Cotman
Cotolaurel
Cotonam
Cotoneaster
Cotonou
Cotopaxi
Cotoxo
Cotsen
Cotswold
Cotswold Hills
Cotswolds
Cotsworth calendar
Cott
Cottage Grove
Cottageville
Cottbus
Cottekill
Cottenham
Cotter
Cotter's Saturday Night, The
Cotterell
Cottian Alps
Cottidae
Cottle
Cottleville
Cotton
Cotton State
Cottondale
Cottonian
Cottonopolis
Cottonport
Cottonton
Cottontown
Cottrell
Cottus
Cotuit
Cotulla
Coturnix
Coty
Cotyleus
Cotylophora
Cotylosauria
Cotys
Cotyttia
Coucher
Couchman
Couderay
Coudersport
Coue
Coueism
Couette flow
Coug Wickenheiser
Coughlin
Coulomb
Coulomb field
Coulomb's law
Coulombe
Culommiers
Coulson
Coulter
Coulter pine
Coulters
Coulterville
Coumarouna
Coumas
Counce
Council Bluffs
Council Grove
Council of Economic Advisers
Council of Economic Advisors
Council of Europe
Council of Nationalities
Council of Nicaea
Council of States
Council of Ten
Council of Trent
Council of the Reich
Council of the Union
Council of the Valleys
Council on Environmental Quality
Count
Count Folke Bernadotte
Count of Monte Cristo, The
Countee
Counter Reformation
Counter-Reformation
Counterfeiters, The
Countess
Counting of the Omer
Couperin
Couperus
Coupeville
Coupland
Courantyne
Courbet
Courbevoie
Courcy
Courier
Courland
Courmand
Cours
Court
Court of Appeal
Court of Appeals
Court of Arches
Court of Awards
Court of Common Bank
Court of Common Council
Coventry
Coventry bell
Coverdale
Coverley
Covesville
Coviello
Covillea
Covina
Covington
Cowan
Cowanesque
Cowansville
Coward
Cowarts
Cowden
Cowdrey
Cowell
Cowen
Cower
Cowes
Coweta
Cowey
Cowgill
Cowichan
Cowichan sweater
Cowiche
Cowie
Cowl
Cowles
Cowlesville
Cowley
Cowlitz
Cown
Cowper
Cowper's gland
Cowper's glands
Cowperian
Cox
Cox's Orange Pippin
Coxey
Coxsackie
Coxsackie virus
Coxwell chair
Coxye
Coy
Coyanosa
Coyle
Coyolxauhqui
Coyote State
Coyotero
Coysevox
Coyville
Cozad
Cozens
Cozmo
Cozumel
Cozza
Cozzens
Cpl
Cr
Crab
Crab Nebula
Crab cactus
Crab nebula
Crabb
Crabbe
Craborchard
Crabtree
Cracca
Cracidae
Cracinae
Cracker State
Cracow
Craddock
Craddockville
Cradock
Craftint
Crafton
Craftsbury
Craftype
Crag
Cragford
Craggie
Craggy
Cragsmoor
Craig
Craig Biggio
Craig Ehlo
Craig Laughlin
Craig Wolanin
Craigavon
Craige
Craigmont
Craigs ville
Craigville
Crai k
Crailsheim
Crain
Craiova
Craley
Crag
Cram
Crambe
Crambidae
Crambinae
Crambus
Cramer
Cramer's rule
Cramerton
Cran
Cranach
Cranaus
Cranbury
Crandale
Crandall
Crandell
Crandon
Crane
Craner
Cranesville
Cranford
Crania
Craniata
Craniota
Cranko
Cranks
Crammer
Cranston
Cranwell
Crapo
Crary
Craryville
Crashaw
Crasedota
Crassina
Crassula
Crassulaceae
Crassus
Crataegus
Crataeis
Crataeva
Crater
Crater Lake
Crater Lake National Park
Crater Mound
Craterellus
Craterid
Crateris
Cratinean
Cratus
Craven
Cravenette
Cravenetted
Cravenetting
Craw
Crawford
Crawfordsville
Crawfordville
Crawley
Crawthumper
Crax
Crayne
Craynor
Crey
Creamer
Crean
Creath
Creation
Creation epic
Creation of the World
Creator
Creator of all things
Crece
Credit Mobilier
Credit Suisse
Credo
Credo play
Cree
Cree potato
Creede
Creedmoor
Creedon
Creek
Creeks
Creel
Crees
Crefeld
Creigh
Creight
Creighton
Creil
Crelin
Crellen
Crema Danica
Crema de Lima
Creme des Vosges
Cremer
Cremet Nantais
Cremini
Cremnitz white
Cremona
Crenothrix
Crenshaw
Creodonta
Creola
Creole
Creolin
Creon
Crepidula
Crepin
Crepis
Crepy
Cres
Cresa
Cresbard
Crescantia
Crescas
Crescen
Crescendo
Crescent
Crescentia
Crescin
Crescint
Cresco
Cresida
Cresius
Cresphontes
Crespi
Crespo
Cressey
Cressi
Cressida
Cressie
Cresskill
Cressler
Cresson
Cressona
Cressy
Crest Hill
Crestline
Creston
Crestone
Crestview
Crestwood
Creswell
Creta
Cretaceous
Cretacic
Cretan
Cretan bear's-tail
Cretan bull
Cretan dittany
Cretan mullein
Cretan spikenard
Crete
Cretheis
Cretheus
Cretic
Cretism
Creto-mycenaean
Creusa
Creuse
Creusois
Creusot
Creusot Loire
Creve Coeur
Crevecoeur
Crewe
Crex
Cricetidae
Cricetus
Crichton
Crick
Cricotus
Crider
Crifasi
Crile
Crim
Crim tatar
Crime and Punishment
Crimea
Crimean
Crimean War
Crimora
Crimpless
Crin
Criniger
Crinoidea
Critique of Pure Reason
Critta
Crittenden
Critz
Crius
Crivitz
Cro-Magnon
Cro-Magnon man
Cro-magnon
Cro-magnon race
Croaker
Croat
Croatan
Croatan indian
Croatia
Croatian
Crocanthemum
Croce
Croceatas
Crocheron
Crocidura
Crocker
Crockett
Crocketville
Crockford
Crocodile River
Crocodilia
Crocodilidae
Crocodilus
Crocosmidae
Crocosylus
Crocosmia
Crocus
Croesi
Croesus
Croesuses
Croesusi
Crofoot
Croft
Crofton
Croghan
Crohn's disease
Croix
Croix de Feu
Croix de Guerre
Crokinole
Crom
Cromer
Cromerian
Crommelin
Crommyonian sow
Cromona
Crompton
Cromwell
Cromwell Current
Cromwellian
Cromwellian chair
Cronartium
Crone
Cronia
Cronian
Cronin
Cronos
Cronus
Cronyn
Crookes
Crookes dark space
Crookes lens
Crookes radiometer
Crookes space
Crookes tube
Crooks
Crookston
Crooksville
Croom
Croomia
Cropsey
Cropseyville
Cropwell
Crosby
Crosbyton
Crosley
Cross
Cross River
Crossbow
Crosse
Crossed Friar
Crossett
Crossnore
Crossopterygii
Crossosoma
Crossosomataceae
Crossroads
Crossville
Crosswicks
Crosswell
Cruikshank
Crum
Crummock Water
Crumpler
Crumpton
Crumrod
Crusades
Crusca
Crusoe
Crustacea
Crutched Friar
Crutched friar
Crutcher
Crux
Cruyff
Cruz
Cruz Alta
Cryan
Crypteronia
Crypteroniaceae
Crypto-calvinism
Crypto-calvinist
Crypto-calvinistic
Crypto-catholic
Crypto-catholicism
Crypto-christian
Crypto-fenian
Crypto-jesuit
Crypto-jew
Crypto-jewish
Crypto-protestant
Crypto-royalist
Crypto-socinian
Cryptobranchia
Cryptobranchiata
Cryptobranchidae
Cryptobranchus
Cryptocarya
Cryptocepha
Cryptocerata
Cryptocleidus
Cryptococcus
Cryptodira
Cryptogamia
Cryptoglaux
Cryptogramma
Cryptomeria
Cryptomonadales
Cub Scout
Cuba
Cuba Libre
Cuba libre
Cubage
Cuban
Cuban heel
Cuban lily
Cuban pine
Cuban royal palm
Cubanize
Cubelium
Cubero
Cubism
Cubomedusae
Cubrun
Cuchan
Cuchillo
Cuchulain
Cuchulainn
Cuchullain
Cucujid
Cucujidae
Cucujus
Cuculi
Cuculidae
Cuculiformes
Cuculus
Cucumaria
Cucumariidae
Cucumis
Cucurbita
Cucurbitaceae
Cucuta
Cuda
Cudahy
Cuddebackville
Cuddy
Cudlip
Cuenca
Cuenca bark
Cuernavaca
Cuero
Cuervo
Cueva
Cueva
Cufic
Cui
Cuiaba
Cumaean sibyl
Cuman
Cumana
Cumanagoto
Cumar
Cumberland
Cumberland Gap
Cumberland Mountains
Cumberland Plateau
Cumberland wrestling
Cumbernauld
Cumbola
Cumbria
Cumbrian
Cumbrian Mountains
Cumby
Cumine
Cumings
Cummaquid
Cummine
Cumming
Cummings
Cummington
Cummins
Cumulative Book Index
Cuna
Cunan
Cunard
Cunarder
Cunas
Cunaxa
Cundiff
Cunene River
Cuneo
Cuney
Cung
Cunina
Cunningham
Cunninghamia
Cunonia
Cunoniaceae
Cunza
Cuon
Cup Final
Cupania
Cupavo
Cupertino
Cuphea
Cupid
Cupid's arrows
Cupid's bow
Cupid's itch
Cupid's-dart
Cupo
Cupressaceae
Cupressinoxylon
Cupressus
Cupuliferae
Curacao
Curacao
Curare
Curavecan
Curcio
Curculio
Curculionidae
Curcuma
Curdsville
Curetes
Curhan
Curia
Curia Regis
Curia Romana
Curiatii
Curie
Curie point
Curie temperature
Curie's law
Curie-Weiss law
Curitiba
Curitis
Curityba
Curkell
Curley
Curllsville
Curnin
Curr
Curran
Curren
Currency and Housing
Curren
Currey
Currie
Currier
Currier and Ives
Currituck
Curry
Cutch
Cutcheon
Cutchogue
Cutcliffe
Cuterebra
Cuthbert
Cuthbertson
Cuthbert
Cutler
Cutleria
Cutleriaceae
Cutleriiales
Cutlerr
Cutlip
Cutlor
Cutshin
Cutack
Cutter
Cuttie
Cuttingsville
Cuttler
Cutty
Cutty Sark
Cuttyhunk
Cutuno
Cuvier
Cuvierian
Cuxhaven
Cuyab
Cuyaba
Cuyahoga Falls
Cuyama
Cuyapo
Cuyler
Cuyp
Cuzceno
Cuzco
Cuzzart
Cvennes
Cwikielnik
Cwth
Cwmbran
Cy
Cyamus
Cyanamid
Cyanastraceae
Cyanastrum
Cyane
Cyanea
Cyanee
Cyanocitta
Cyanophyceae
Cyanospiza
Cyathaspis
Cyathea
Cyatheaceae
Cyathophyllidae
Cyathophyllum
Cyb
Cybebe
Cybele
Cybil
Cybill
Cybister
Cycadaceae
Cycadales
Cycadeoidea
Cycadofilicales
Cycadofilices
Cycadophyta
Cycas
Cychosz
Cychreus
Cyclades
Cycladic
Cyclamycin
Cyclanthaceae
Cyclanthales
Cyclanthus
Cycliae
Cyclobothra
Cycloconium
Cycloganoidei
Cycloidei
Cycloloma
Cyclomyaria
Cyclone fence
Cyclopean
Cyclopes
Cyclophorus
Cyclopic
Cyclops
Cycloptera
Cyclorrhapha
Cyclospondyli
Cyclosporales
Cyclosporeae
Cyclosporinae
Cyclostoma
Cyclostomata
Cyclostomatidae
Cyclostomes
Cyclostomi
Cyclostomidae
Cyclotella
Cyclothurus
Cyclotosaurus
Cycnus
Cyd
Cydippe
Cydippida
Cydnus
Cydonia
Cydonian
Cygnet
Cygni
Cygnid
Cygnae
Cygnus
Cykana
Cyler
Cylindrella
Cylindrophis
Cylindrosporium
Cyllene
Cyllenian
Cyllenius
Cylvia
Cym
Cyma
Cymbalaria
Cymbeline
Cymbella
Cymbium
Cymbopogon
Cymbre
Cymodoce
Cymodoceaceae
Cymodoidium
Cymraeg
Cymric
Cymry
Cyn
Cyna
Cynanchum
Cynar
Cynara
Cynarrach
Cynde
Cyndi
Cyndia
Cyndie
Cyndy
Cynera
Cynewulf
Cynias
Cynic
Cynical
Cynicism
Cynipidae
Cynipoidea
Cynips
Cynocrambaceae
Cynocrambe
Cynodon
Cynodontia
Cynogale
Cynoglossum
Cynognathus
Cynoidea
Cynomoriaceae
Cynomorium
Cynomorpha
Cynomys
Cynopterigidae
Cynortes
Cynosarges
Cynoscephalae
Cynoscion
Cynosura
Cynosurus
Cynoxylon
Cynth
Cynthaea
Cynthia
Cynthian
Cynthiana
Cynthie
Cynthiidae
Cynthus
Cynthia
Cynthy
Cynurus
Cynwulf
Cynwyd
Cyparissia
Cyparissus
Cyperaceae
Cyperus
Cyphomandra
Cypraea
Cypraeidae
Cypressinn
Cypria
Cyprian
Cyprian of Carthage
Cyprididae
Cypridina
Cypridinidae
Cyprina
Cyprinidae
Cyprinodontes
Cyprinodontidae
Cyprinoidea
Cyprinus
Cyprio
Cypriot
Cyriote
Cyriote syllabary
Cyripedium
Cyris
Cypro
Cypro-Minoan
Cypro-phoenician
Cyprus
Cyprus earth
Cyprus umber
Cypseli
Cypselid
Cypselidae
Cypseliformes
Cypselomorphae
Cypselus
Cyra
Cyrano
Cyrano de Bergerac
Cyrena
Cyrenaic
Cyrenaic hedonism
Cyrenaica
Cyrenaicism
Cyrene
Cyrenian
Cyrie
Cyril
Cyril of Alexandria
Cyril of Jerusalem
Cyrill
Cyrilla
Cyrillaceae
Cyrille
Cyrillian
Cyrillianism
Cyrillic
Cyrillus
Cyrtandraceae
Cyrtidae
Cyrtoceras
Cyrtomium
Cyrus
Cysatus
Cystidea
Cystignathidae
Cystoflagellata
Cystoidea
Cystonecetae
Cystophora
Cystopteris
Cystopus
Cythera
Cytherea
Cytherean
Cytherella
Cytherellidae
Cytinaceae
Cytinus
Cytissorus
Cytisus
Cytophaga
Cytospora
Cytosporina
Cyzicene
Cyzicus
Czajer
Czanne
Czarra
Czech
Czechic
Czechish
Czechization
Czecho-Slovak
Czecho-Slovakia
Czecho-Slovakian
Czechosl
Czechoslovak
Czechoslovakia
Czechoslovakian
Czelwaw Kacmarex
Czerniak
Czerniakov
Czernowitz
Czerny
Czeslaw Kiszczak
Czstochowa
Czur
D
D Bib
D and C
D day
D layer
D major
D minor
D natural
D net
D ration
D region
D splice
D string
D trap
D uxxelles sauce
D'Aeth
D'Alembert Mountains
D'Amboise
D'Amour
D'Andre
D'Annunzio
D'Arcy
D'Arrest
D'Arsonval galvanometer
D'Attoma
D'Avenant
D'Entrecasteaux Islands
D'Iberville
D'Ignazio
D'Inzeo
DGA
DGP
DGSC
DH
DHHS
DHL
DHSS
DI
DIA
DIAD
DIAL
DIAS
DIB
DIC
DID
DIF
DIFMOS
DIL
DILOG
DIM
DIMS
DIN
DIN number
DIP
DIR
DIRE
DIRT
DIS
DISA
DISOSS
DIU
DIV
DIX
DIY
DJ
DJS
DJT
DK
DLA
DLC
DLCU
DLE
DLG
DLI
DLL
DLO
DLP
DLS
DLTU
DLUPG
DLitt
DM
DM display
DMA
DMD
DMDT
DME
DMI
DMK
DML
DMOS
DMS
DMSO
DMSP
DMT
DMU
DMV
DMZ
DMus
DN
DNA
DNA double helix
DNB
DNC
DNCRI
DNHR
DNI
DNIC
DNL
DNR
DNS
DNX
DO
DOA
DOB
DOC
DOCS
DOD
DOE
DOHC
DOJ
DOM
DOMAIN
DOP
DORAN
DORE
DSM
DSN
DSO
DSP
DSR
DSRI
DSS
DSSI
DST
DSTN
DSU
DSW
DSX
DSc
DT
DT's
DT's, the
DTAS
DTB
DTC
DTE
DTF
DTG
DTI
DTIF
DTL
DTMF
DTP
DTR
DTSS
DTU
DTh
DU
DUA
DUATS
DUI
DUKW
DUT
DUV
DV
DVC
DVM
DVMA
DVMRP
DVMS
DVOP radar
DVS
DVX
Dacus
Dacy
Dada
Dadaism
Dadaist
Dadaistic
Dadayag
Daddah
Daddy Warbucks
Dade
Dadeville
Dadoxylon
Dadra and Nagar Haveli
Dadu
Dadupanthi
Daedal
Daedafa
Daedalea
Daedalean
Daedalian
Daedalic
Daedalid
Daedalidae
Daedalion
Daedalist
Daedalus
Daegal
Dael
Daemonelix
Daffi
Daffie
Daffodil
Daffy
Dafla
Dafna
Dafodil
Dafter
Dag
Dag Hammarskjold
Dagall
Dagan
Dagbanha
Dagbane
Dagda
Dagenham
Dagestan
Dagger ale
Daggett
Daiquiri
Daira
Dairen
Dairy shorthorn
Dairylea
Daisetsu Mountain
Daisetta
Daisey
Daisi
Daisie
Daisy
Daisy Miller
Daisytown
Daitzman
Dak
Dak Song
Dak To
Dakar
Dakhini
Dakhla
Dakin's solution
Dakota
Dakotan
Daksha
Dakshincharin Hinduism
Daktyi
Daktyl
Daktyli
Daktyls
Dal
Daladier
Dalai Lama
Dalai lama
Dalarnian
Dalat
Dalbergia
Dalbo
Dalcassian
Dalcroze
Dale
Dale Mohor cic
Dale Sveum
Dalea
Dalecarlian
Dalen
Dalenna
Dales
Daleville
Daley
Dalhart
Dalhousie
Dali
Dalia
Dalibarda
Dalila
Dalilie
Dalis
Dall
Dall's sheep
Dallan
Dallapiccola
Dallardsville
Dallas
Dallas Comegys
Dallastown
Dalli
Dallin
Dallis
Dallis grass
Dallman
Dallon
Dalmenia
Dalmanites
Dalmatia
Dalmatian
Dalmatian dog
Dalmatic
Dahy
Daloris
Dalpe
Dalradian
Dalrymple
Dalston
Dalt
Dalton
Dalton System
Dalton plan
Dalton's law
Daltonian
Daltonic
Daltonism
Daltonist
Dalury
Daly
Dalyce
Dalymore
Dalzell
Dam
Damal
Damalas
Damales
Damali
Damalis
Damalus
Daman
Damanh
Damanhur
Damar
Damara
Damaraland
Damaris
Damariscotta
Damarra
Damas
Damasce
Damascened
Damascening
Damascus
Damascus steel
Damascus ware
Damastes
Damasus I
Damasus II
Damayanti
Dambro
Dame
Dame Fortune
Dame Nature
Damek
Dameron
Damgalnunna
Damia
Damian
Damiani
Damianist
Damiano
Damick
Damicke
Damien
Damietta
Damita
Dankina
Damle
Dammara
Damnation of Faust, The
Damnii
Damnonii
Damoclean
Damocles
Damodar
Damoetas
Damon
Damon and Pythias
Damour
Dampier
Damrosch
Damysus
Dan
Dan Daoust
Dan Finnane
Dan Majerle
Dan Marois
Dan Plesac
Dan Schayes
Dan tucker
Dana
Dana Murzyn
Danaan
Danae
Danagla
Danaher
Danai
Danaid
Danaidae
Danaidean
Danaides
Danaids
Danainae
Danais
Danakil
Danang
Danas
Danaus
Danava
Danboro
Danbury
Danby
Danciger
Dancing chancellor
Danczyk
Dandie
Dandie Dinmont
Dandie Dinmont terrier
Dandie dinmont terrier
Dandy
Dane
Daneball
Daneen
Daneflower
Danegeild
Danegeilt
Danelage
Danelagh
Danelaw
Danell
Danella
Danelle
Danene
Danese
Danete
Danette
Danevang
Daneweed
Danewort
Daney
Danford
Danforth
Danforth anchor
Dang
Dani
Dania
Daniala
Danialah
Danian
Danic
Danica
Danice
Danie
Daniel
Daniel Berthiaume
Daniel Bolich
Daniel Inouye
Daniel Poudrier
Daniel de Luce
Daniela
Daniele
Danielic
Daniell
Daniell cell
Daniella
Danielle
Danielle Ammaccapane
Danielle Darrieux
Daniels
Danielson
Danielsville
Danieu
Daniglacial
Danika
Danila
Danilo
Danilova
Danish
Danish Virgin Islands
Danish West Indies
Danish balance
Danish blue
Danish loaf
Danish pastry
Danism
Danit
Danita
Danite
Daniyal
Danization
Danize
Dankali
Danl
Danmark
Dann
Danna
Dannebrog
Dannel
Dannemora
Danni
Dannica
Dannie
Dannon
Danny
Danny Ainge
Danny Vranes
Dannye
Dano-Norwegian
Dano-eskimo
Dano-norwegian
Dansk Schweizerost
Dansville
Dante
Dante Caputo
Dante Fascell
Dante chair
Dantean
Dantesca chair
Dantesque
Danthonia
Dantist
Dantology
Dantomania
Danton
Dantonesque
Dantonist
Dantophilist
Dantophily
Danu
Danube
Danube rudder
Danubian
Danuloff
Danuri
Danuta
Danvers
Danville
Danya
Danyelle
Danyette
Danyuk
Danzig
Danzig brandy
Danziger
Danziger Goldwasser
Dao
Dapedium
Dapedius
Daph
Daphene
Daphie
Daphna
Daphnaceae
Daphnaea
Daphne
Daphne du Maurier
Daphnean
Daphnephoria
Daphnia
Daphnis
Daphnis and Chloe
Darrel
Darrell
Darrelle
Darren
Darren Daye
Darren Veitch
Darrey
Darrick
Darrill
Darrin
Darrin Cahill
Darrington
Darrouzet
Darrow
Darry
Darryl
Darryn
Darsey
Darsham fern
Darsie
Darsonval
Darsonvalism
Dart
Dartagnan
Dartford
Dartmoor
Dartmouth
Dartmouth college case
Darton
Darvon
Darvon Compound
Darwen
Darwin
Darwin tulip
Darwin's finches
Darwinian
Darwinian theory
Darwinical
Darwinically
Darwinism
Darwinist
Darwinistic
Darwinite
Darwinize
Darya
Daryl
Daryle
Daryn
Daubentonia
Daubentoniidae
Daubigny
Daucus
Daudet
Daugava
Daugavpils
Daugherty
Daughter of heaven and earth
Daughter
Daukas
Daulias
Dauvier
Daun stage
Daune
Daunii
Dauphin
Dauphine
Daur
Dauri
Dav
Davallia
Davant
Davao
Dave
Dave Andreychuk
Dave Babych
Dave Concepcion
Dave Corzine
Dave Feitl
Dave Fenyves
Dave Poulin
Dave Richter
Dave Semenko
Dave Stieb
Dave Valle
Daveda
Daveen
Daven
Davena
Davenant
Davene
Davenport
Daventa
Davey
David
David Abshire
David Begelman
David Bonior
David Bonoir
David Croudip
David Doty
David Gerstein
David I
David Lange
David Obey
David Ruder
David and Jonathan
Davida
Davidde
Davide
Davidian
Davidic
Davidical
Davidist
Davidoff
Davidson
Davidsonville
Davidsville
Davie
Davies
Daviesia
Davilla
Damilan
Davin
Davina
Davine
Davis
Davis Cup
Davis Strait
Davis' Birthday
Davis's quadrant
Davisboro
Davisburg
Davison
Davisson
Daviston
Davissville
Davita
Davon
Davos
Davout
Davy
Davy Crockett
Davy Jones
Davy Jones's locker
Davy lamp
Davys
Dawes
Dawes plan
Dawkins
Dawmont
Dawn
Dawn man
Dawna
Dawson
Dawson Creek
Dawson Springs
Dawsonia
dawsoniaceae
Dawsonville
Dax
Day
Day of Atonement
Day of Christ
Day of Jesus Christ
Day of Judgment
Day of Yahweh
Day of the Lord
Day-Glo
Day-Lewis
Dayak
Dayakker
Dayaks
Dayan
Daye
Dayhoit
Daykin
Dayle
Dayna
Days and Nights
Daysie
Dayton
Daytona
Daytona Beach
Dayville
Daz de Bivar
Daza
Dazey
Dbh
Ddene
Ddenise
De
De Civitate Dei
De Consolatione Philosophiae
De Forest
De Graffenried
De Hostos' Birthday
De Imitatione Christi
De La Warr
De Lattre de Tassigny
De Mille
De Morgan's Laws
De Quincey
De Ruyter
De Soto
De Stijl
De Vries
De Vries theory
De Witt
De gaullism
De gaullist
De la Mare
De vinne
De-americanization
De-americanize
De-anglicization
De-anglicize
De-calvinize
De-celticize
De-germanize
De-hellenize
De-italianize
De-jansenize
De-judaize
De-nazify
De-protestantize
DeBolt
DeFalco
DeForest
DeHoff
DeKalb
DeKoven
DeLacey
DeLayre
DeLong
DeMaio
DeMartini
DePew
DePree
DeRosa
DeSantis
DeSimone
DeWayne
Dea
Dea Dia
Dea Marica
Dea dia
Dea tacita
Deach
Deacon
Dead Heart
Dead Sea
Dead Sea Scrolls
Dead Sea fruit
Dead Souls
Dead borneo
Dead sea apple
Dead sea fruit
Deadman
Deadwood
Deakin
Deale
Dean
Dean of Faculty
Deana
Deane
Deaner
Deanna
Deanne
Deansboro
Deanville
Dear John
Dear John letter
Dearborn
Dearden
Dearing
Dearman
Dearmanville
Dearr
Deary
Death
Death Be Not Proud
Death Comes for the Archbishop
Death Valley
Death in Venice
Death knocks at the door
Death of General Wolfe, The
Death of Ivan Ilyich, The
Death of a Salesman
Death stares you in the face
Deatsville
Deauville
Deaver
Deb
Deb Richard
Debarath
Debar
Debby
Debee
Debeque
Debera
Deberry
Debes
Debi
Debir
Debor
Debora
Deborah
Deborah Kerr
Deborath
Debord
Debra
Debrecen
Debs
Debussy
Debussyan
Debussyanize
Debye
Dec
Decadron
Decaisnea
Decalin
Decalogist
Decalogue
Decameron
Decameron, The
Decamerononic
Decamp
Decapoda
Decapolis
Decato
Decatur
Decaturville
Decay
Decca
Deccan
Deccan hemp
Deccan trap
December
Decemberish
Decemberly
Decembrist
Dechen
Decherd
Dechlog
Decian
Deciduata
Decima
Decimus
Decius
Decize
Deck
Decker
Deckert
Deckerville
Declan
Declaration of Independence
Declaration of Indulgence
Declaration of Right
Declaration of the Rights of Man
Deelo
Declomycin
Decodon
Decorah
Decorated
Decorated style
Decoration Day
Decoration day
Decretals
Decretum gratiani
Decuma
Decumaria
Dedagach
Dedan
Dedanim
Dedanite
Dede
Dede Agach
Dedekind
Dedekind cut
Deden
Dedham
Dedication festival
Dedie
Dedra
Dedric
Dedrick
Dee
Dee Dee
DeeAnn
Deeann
Deeanne
Deedee
Deedsville
Deegan
Deems
Deena
Deenya
Deep South
Deepfreeze
Deephaven
Deeping
Deepwater
Deer
Deer Lodge
Deer park
Deerbrook
Deerdre
Deere
Deerfield
Deerfield Beach
Deering
Deerslayer, The
Deersville
Deerton
Deerwood
Deery
Deeth
Deeyn
Defant
Defence of Poesie
Defence of Poetry
Defender of the Faith
Defenders' Day
Deferiet
Defiance
Defoe
Deford
Delft
Delgado
Delhi
Delia
Delian
Delian League
Delian problem
Delibes
Delichon
Delicia
Delicious
Delight
Delija
Delila
Delilah
Delinda
Delisle
Delium
Delius
Dell
Della
Delle
Dellora
Dellroy
Dellslow
Delly
Delma
Delmar
Delmarva
Delmarva Peninsula
Delmer
Delmita
Delmont
Delmor
Delmore
Delmotte
Delnorte
Delobranchiata
Delogu
Deloit
Delong
Delora
Delorean
Delorenzo
Delores
Deloria
Deloris
Delorme
Demogorgon
Demon
Demon, the
Demona
Demonassa
Demonax
Demophon
Demophoon
Demopolis
Demorest
Demos
Demospongeai
Demossville
Demosthenean
Demosthenes
Demosthenian
Demosthenic
Demotic
Demotika
Demott
Demotte
Demp
Dempsey
Dempster
Dempstor
Demus
Demuth
Demy
Den
Den Bosch
Den Haag
Den Helder
Dena
Denae
Denair
Denatura deorum
Denbigh
Denbighshire
Denbo
Denbrook
Denby
Dendraspis
Dendrites
Dendrium
Dendrobates
Dendrobatinae
Dendrobium
Dendrocalamus
Dermatophagus
Dermatoptera
Dermestes
Dermestidae
Dermobranchia
Dermochelys
Dermoptera
Dermorhynchi
Dermot
Dermott
Derna
Deron
Deroo
Derotrema
Derotremata
Derounian
Derr
Derrek
Derrel
Derrick
Derrick Chievous
Derrick Meadoo
Derrick Rostagno
Derriey
Derrik
Derril
Derris
Derron
Derry
Derte
Deruyter
Derward
Derwent
Derwentwater
Derwin
Derwon
Derwood
Deryl
Derzon
Des
Des Moines
Des Peres
Des Plaines
Des Pror Deprez
Desai
Desaix de Veygoux
Desarc
Desargues
Desargues's theorem
Desberg
Descanso
Descartes
Descartes' law
Descendant
Descent from the Cross
Deschamps
Deschampsia
Deschutes
Descombes
Desdamona
Desdamonna
Desde
Desdee
Desdemona
Deseilligny
Deserted Villate, The
Desha
Deshler
Desi
Desiderii
Desiderius
Desimone
Desirae
Desire Under the Elms
Desirea
Desireah
Desiree
Desiri
Deslacs
Deslandres
Desma
Desmanthus
Desmarestia
Desmarestiaceae
Desmatippus
Desmet
Desmidiae
Desmidales
Desmodactyli
Desmodium
Desmodontidae
Desmodus
Desmognathae
Desmoines
Desmomyaria
Desmona

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 10594
Desmoncus
Desmond
Desmontes
Desmoscoleidae
Desmoscolex
Desmothoraca
Desmoulins
Desmund
Desoto
Despenser
Despiau
Despoena
Despoina
Despotes
Dessalines
Dessau
Dessma
Desta
Deste
Desterro
Destin
Destinee
Destiny
Destrehan
Desulfovibrio
Deth
Detlef Schrempf
Detmold
Detroit
Detroit Lakes
Detroiter
Dett
Detta
Dettmer
Deucalion
Deuno
Deurne
Deus
Deus Fidius
Deus Misereatur
Deus Ramos
Deus vobiscum
Deus vult
Deusdedit
Deut
Deutero-nicene
Deuteromycetes
Deuteronomic
Devona
Devondra
Devonian
Devonic
Devonna
Devonne
Devonport
Devonshire
Devonshire cream
Devonshire split
Devora
Devy
Dew
Dewain
Dewali
Dewar
Dewar flask
Dewar vessel
Dewart
Dewayne
Dewayne Buice
Dewees
Deweese
Dewey
Dewey decimal system
Deweyan
Deweyville
Dewhurst
Dewhurst
Dewi
Dewie
Dewitt
Dewittville
Dewsbury
Dewyrose
Dex
Dexamenus
Dexamyl
Dexamyl pill
Dexedrine
Dexedrine pill
Dexter
Dextra
Dey
Deyoung
Dezaley
Dezful
Dezhnev
Dias
Diascia
Diasia
Diaspidinae
Diaspinae
Diaspora
Diatoma
Diatomaceae
Diatomales
Diatomeae
Diatryma
Diatrymiformes
Diatype
Diau
Diaz
Dib
Diba
Dibai
Dibatis
Dibb
Dibbell
Dibbrun
Dibelius
Diboll
Dibothriocephalus
Dibranchia
Dibranchiata
Dibri
Dibrin
Dibru
Dicaeidae
Diccon
Dice
Dicentra
Diceras
Diceratidae
Dich
Dichapetalaceae
Dichapetalum
Dichelyma
Dichondra
Dichondraceae
Dichorisandra
Dichter
Dichterliebe
Dichy
Dick
Dick Cheney
Dicumarol
Dicyclica
Dicyema
Dicyemata
Dicyemida
Dicyemidae
Dicynodon
Dicynodontia
Dicynodontidae
Didache
Didachist
Didachographer
Didelphia
Didelphidae
Didelphis
Didelphyidae
Diderot
Didi
Dididae
Didier
Didinium
Didlove
Dido
Dido and Aeneas
Dido's problem
Didot point system
Didrikson
Didunculidae
Didunculinae
Didunculus
Didus
Didymaea
Didynamia
Die
Die Brucke
Die Dreigroschenoper
Die Verwandlung
Dieball
Diebold
Diefenbaker
Dieffenbachia
Diego
Diego Martinez Barrio
Diego Suarez
Diegueno
Diehl
Dieho Asencio
Diella
Dielle
Diels
Diels-Alder reaction
Dielu
Dielytra
Dien Bien Phu
Dien Byen Phu
Diena
Dienbienphu
Dieppe
Dieppe lace
Dierdre
Dier
Dierks
Dierolf
Diervilla
Dies
Dies Irae
Diesel
Diet
Dieter
Dieterich
Dietrich
Dietsche
Dietz
Dieu
Dieu avec nous
Dieu et mon droit
Dieu vous garde
Dieyerie
Drfda
Diffugia
Digambara
Digby
Digenea
Digenetica
Digest
Digger
Digger Indian
Digger indian
Diggers
Diggins
Diggs
Dighton
Digiorgio
Digitaria
Digitigrada
Digo-Suarez
Digor
Digynia
Diipolia
Dijon
Dike
Dikelocephalus
Dikmen
Dilan
Dilantin
Dilaudid
Dilemi
Dilemite
Diley
Dili
Diligenti Quints
Dilisio
Dilks
Dill
Dillard
Dille
Dillenia
Dilleniaceae
Diller
Dilley
Dillie
Dilliner
Dilling
Dillingham
Dillon
Dillonvale
Dillsboro
Dillsburg
Dilltown
Dillwyn
Dilly
Dilolo
Dilthey
Dilworth
Dimaris
Dimashq
Dimatis
Dimebox
Dimer
Dimiter Ganev
Dimitri
Dimitri Djordjadze
Dimitri Goryunov
Dimitris
Dimitrov
Dimitrovo
Dimitry
Dimittis
Dimmick
Dimmitt
Dimna
Dimock
Dimond
Dimondale
Dimorphotheca
Dimphia
Dimyaria
Din
Dina
Dinah
Dinan
Dinantian
Dinard
Dinaric
Dinaric Alps
Dinarzade
Dincolo
Dindymene
Dindymus
Dine
Dinerman
Dinesen
Dinesh
Ding an sich
Ding-Dong
Dingaan
Dingbelle
Dingell
Dingelstadt
Dingess
Dingle
Dingman
Dingus
Dingwall
Dinh Ba Thi
Dinichthys
Dinin
Dinka
Dinkas
Dinkum
Dinnage
Dinnie
Dinny
Dino
Dino Ciccarelli
Dino Radja
Dinobryon
Dinoceras
Dinocerata
Dinoceratidae
Dinoflagellata
Dinoflagellatae
Dinoflagellida
Dinomys
Dinophilea
Dinophilus
Dinophyceae
Dinornis
Dinornithes
Dinornithidae
Dinornithiformes
Dinosauria
Dinotheres
Dinotheriidae
Dinotherium
Dinsdale
Dinse
Dinsmore
Dinuba
Dinwiddie
Dio Cassius
Dioecetian
Diocletian window
Diocophyme
Diodia
Diodon
Diodontidae
Diodorus Siculus
Dioecia
Diogenean
Diogenes
Diogenic
Diomede
Diomede Islands
Diomedea
Diomedeidae
Diomedes
Diomedes and Sthenelus
Dion
Dionaea
Dionaeaceae
Dione
Dionis
Dionisio
Dionne
Dionysia
Dionysiac
Dionysiaca
d
Dionysiacally
Dionysian
Dionysius
Dionysius Exiguus
Dionysius of Alexandria
Dionysius of Alexandria Saint
Dionysius of Halicarnassus
Dionysius the Areopagite
Dionysos
Dionysus
Dioon
Diophantine
Diophantine equation
Diophantus
Diopsidae
Diopsis
Dioptidae
Dior
Diores
Dioscorea
Dioscoreaceae
Dioscuri
Dioscurian
Diosdado
Diosma
Diospyraceae
Diospyros
Diotocardia
Dip Ed
Dipala
Diphyes
Diphylia
Diphyleia
Diphyllobothrium
Diphysite
Diphysitism
Diplacanthidae
Diplacanthus
Dipladenia
Diplocarpon
Diplodia
Diplodocus
Diplodus
Diploglossata
Diplomatic Service
Diplopoidea
Diploptera
Diplopteryga
Diplospondyli
Diplotaxis
Diplozoa
Dipneumona
Dipneumones
Dipneusti
Dipnoi
Dipodidae
Dipodomynae
Dipodomys
Dipolia
Dippold
Diprotodon
Diprotodontia
Dipsacaceae
Dipsaceae
Dipsacus
Dipsadinae
Dipsosaurus
Diptera
Dipteracea
Dipterocarpaceae
Dipterocarpus
Dipteryx
Dipus
Dipylon vase
Dira
Dirac
Dirac atom
Dirac constant
Dirac delta function
Dirac function
Dirac theory
Dirae
Dirca
Dircaean
Dirck
Directoire
Directory
Diredawa
Dirian
Dirichlet
Dirichlet integral
Dirichletian
Dirk
Dirk Minniefield
Dis
Dis pater
Disa
Disamis
Disario
Disciflorae
Discina
Disciple of Christ
Disciples of Christ
Discoglossidae
Discoidea
Discoideae
Discomedusae
Discomycetes
Disconantheae
Disconectae
Discophora
Discoplacentalia
Discordia
Discourse on Method
Discoverer
Discovery Bay
Discovery Day
Discovery Inlet
Discus Thrower, The
Disharoon
Dishley
Dishley merino
Disini
Diskin
Disko
Diskson
Dismal Swamp
Dismissal
Disney
Disneysque
Disneyland
Dispersion
Disporum
Disputanta
Disraeli
Dissenter
Divisionism
Divisionist
Divvers
Diwali
Dix
Dixfield
Dixiana
Dixie
Dixie Cup
Dix land
Dixiecrat
Dixiecratic party
Dixiecratic
Dixieland
Dixielander
Dixil
Dixmont
Dixmoor
Dixon
Dixonsville
Diyarbakir
Diyarbekir
Dizney
Djagatay
Djailolo
Djaja
Djajapura
Djakarta
Djambi
Djebel Kafzeh man
Djeloulala
Djemasa
Djerba
Djibouti
Djilas
Djokjakarta
Djuka
Dle
Dli
Dlo
Dm
Dmitrevsk
Dmitri
Dmitri Donskoy
Dmitriev
Dmitrov
Dmitrovka
Dnaburg
Dolichosauria
Dolichosaurus
Dolichosoma
Doliidae
Dolin
Doliolidae
Doliolum
Dolius
Doll
Doll's House, A
Dollar
Dolley
Dolfuss
Dolli
Dollie
Dollinger
Doliver
Dolloff
Dollond
Dolly
Dolly Varden
Dolly Varden pattern
Dolly Varden trout
Dolmetsch
Dolomedes
Dolomite Alps
Dolomites
Dolon
Dolophine
Dolora
Dolores
Dolores Ibarurri
Dolorita
Doloritas
Dolph
Dolphin
Dolphus
Dolton
Dom
Domaci Beli Sir
Domagk
Domash
Dombeya
Dombrowski
Domdaniel
Domel
Domela
Domella
Don Juanism
Don Majerle
Don Quixote
Don juan
Don juanism
Dona
Dona Marilyn
Donaana
Donacidae
Donadee
Donaghue
Donahoe
Donahue
Donal
Donald
Donald Ephlin
Donald Gomes
Donald Grenesko
Donald Hodel
Donalda
Donalds
Donaldson
Donaldsonville
Donall
Donalsonville
Donalt
Donar
Donata
Donatelli
Donatello
Donati
Donatiaeae
Donation of Constantine
Donatism
Donatist
Donatistic
Donatistical
Donato
Donatus
Donau
Donaugh
Donavon
Donbass
Doncaster
Dondi
Dondia
Doneck
Donegal
Donegal tweed
Donegan
Donela
Donell
Donella
Donelle
Donelson
Donelu
Doner
Donet
Donets
Donets Basin
Donetsk
Donetta
Dong
Dong Xoai
Dongola
Dongola kid
Dongola leather
Dongola process
Dongola race
Dongoleso
Donia
Donica
Donie
Donielle
Doniphan
Donizetti
Donmeh
Donn
Donna
Donnamarie
Donne
Donnell
Donnellson
Donnelly
Donnelsville
Donnenfeld
Donner
Donni
Donnie
Donny
Donny Lalone
Donnybrook Fair
Donnybrook fair
Donoghue
Donoho
Donohue
Donora
Donough
Donovan
Donus
Doodia
Doole
Dooley
Doolittle
Doomsday
Doomsday Book
Doon
Doone
Doorn
Doornik
Doostoevsky
Dopp
Doppelganger
Doppelger
Doppelgnger
Doppelmayer
Dopper
Doppler
Doppler effect
Doppler radar
Doppler shift
Doppler signal
Dor
Dora
Doradidae
Dorado
Doralia
Doralice
Doralin
Doralyn
Doralynn
Doralyne
Doralyne
Doran
Dorask
Doraskean
Dorati
Doraville
Dorca
Dorcas
Dorcas society
Dorcatherium
Dorcea
Dorchester
Dorcia
Dorcopsis
Dorcus
Dorcy
Dordogne
Dordrecht
Dore
Doreen
Dorelia
Dorella
Dorelle
Dorena
Dorene
Doretta
Dorette
Dorey
Dorfman
Dori
Doria
Dorian
Dorian mode
Dorian tetrachord
Doric
Dorical
Dorice
Doricism
Doricize
Doriden
Dorididae
Dorie
Dorin
Dorina
Dorinda
Dorine
Dorion
Doris
Dorisa
Dorise
Dorism
Dorison
Dorita
Doritis
Dorize
Dorkas
Dorking
Dorkus
Dorlisa
Dorloo
Dorman
Dresden china
Dresden porcelain
Dresden ware
Dressel
Dresser
Dressler
Drew
Drewett
Drewryville
Drews
Drewsey
Drexel
Drexel, Burnham, Lambert
Drexler
Dreyer
Dreyer's New General Catalog
Dreyfus
Dreyfusard
Dreyfusism
Dreyfusist
Dreyfuss
Dric
Drice
Drida
Drifting
Drifting Cloud, The
Drifton
Driftwood
Driggs
Drimys
Drin
Drina
Drinkwater
Dripps
Driscoll
Driskill
Drisko
Drislane
Drobman
Drogheda
Drogin
Drokpa
Drolet
Dromaeognathae
Dromaeus
Drome
Dromiacea
Dromiceiidae
Drusilla
Drusus
Drusy
Druze
Dry
Dry Ice
Dry Mass
Dry Salvages, The
Dry Tortugas
Dry ice
Dryas
Dryden
Drydenian
Drydenic
Drydenism
Drye
Dryfoos
Drygalski
Drynaria
Dryobalanops
Dryope
Dryopes
Dryophyllum
Dryopians
Dryopithecinae
Dryopithecus
Dryops
Dryopteris
Dryprong
Drysdale
Ds
Dschoruba
Dseldorf
Du
Du Barry
Du Gard
Du Guesclin
Du Maurier
Du Pont
Du Quoin
Du-barry
DuBois
DuBose
DuPont
Dual Alliance
Dual Monarchy
Duala
Dualmutef
Duane
Duanesburg
Duarte
Duax
Dubach
Dubai
Dubberly
Dubbo
Dubcek
Dubenko
Dubhe
Dubhgal
Dubinsky
Dublin
Dublin Bay prawn
Dubliners
Dubna
Dubois
Duboisia
Dubonnet
Dubonnet cocktail
Dubre
Dubrovnik
Dubuffet
Dubuque
Duc
Duc Co
Ducal
Ducan
Ducasse
Duccio di Buoninsegna
Duce
Duchamp
Duchesne
Duchesnea
Duchess
Duchess of Malfi, The
Duck
Ducktown
Duckwater
Duclos
Duco
Ducommun
Ducor
Ducula
Duculinae
Dud
Dudden
Dukie
Duky
Dulac
Dulaney
Dulanganes
Dulat
Dulce
Dulcea
Dulci
Dulcia
Dulciana
Dulcibelle
Dulcie
Dulcin
Dulcene
Dulcinea
Dulciniest
Dulcitone
Dulcle
Dulcy
Duleba
Dulla
Dulles
Dulles International Airport
Dulong’s constant
Dulsea
Duluth
Dulzura
Duma
Dumaguete
Dumah
Dumanian
Dumarao
Dumas
Dumbarton
Dumbarton Oaks
Dumbartonshire
Dumfries
Dumfries and Galloway
Dumfries and Galloway Region
Dumfriesshire
Dumm
Dumond
Dumont
Dumontia
Dumontiaceae
Dumonts blue
Dumpty
Dumuzi
Dumyat
Dun
Dun Laoghaire
Dun and Bradstreet rating
Duna
Dunaburg
Dunaj
Dunant
Dunarea
Dunaville
Dunbar
Dunbarton
Dunc
Duncan
Duncan I
Duncan Phyfe
Duncannon
Duncansville
Duncanville
Dunciad
Dunciad, The
Duncombe
Dundalk
Dundas
Dundee
Dundee cake
Dunedin
Dunellen
Dunfermline
Dungan
Dungannon
Dungeness
Dungeness crab
Dunham
Dunkard
Dunker
Dunkerque
Dunkerton
Dunkin
Dunkirk
Dunkirk
Dunkirker
Dunkirque
Dunlap
Dunlavy
Dunleary
Dunlevy
Dunlo
Dunlop
Dunlow
Dunnor
Dunmore
Dunn
Dunn anchor
Dunne
Dunnegan
Dunnell
Dunnellon
Dunnigan
Dunning
Dunsville
Dunnville
Dunois
Dunoon
Dunreith
Duns
Duns Scotus
Dunsany
Dunseath
Dunseith
Dunsinane
Dunsmuir
Dunson
Dunstable
Dunstan
Dunstable
Dunton
Dunthorne
Dunton
Duntroon
Dunston
Dunwoody
Duong
Duong Van Minh
Dupaix
Duparc
Duperrault
Dupin
Dupleix
Duplessis
Duplessis-Mornay
Duplicitata
Dupo
Dupont
Dupr
Dutch Reformed Church
Dutch West Indies
Dutch auction
Dutch barn
Dutch bond
Dutch cap
Dutch chair
Dutch cheese
Dutch circle
Dutch clover
Dutch courage
Dutch cupboard
Dutch doll
Dutch door
Dutch elm
Dutch elm disease
Dutch foil
Dutch foot
Dutch gold
Dutch hoe
Dutch lap
Dutch leaf
Dutch lottery
Dutch metal
Dutch orange
Dutch oven
Dutch pink
Dutch rush
Dutch settle
Dutch stove
Dutch straight
Dutch treat
Dutch uncle
Dutch white
Dutch wife
Dutch-gabled
Dutch-process
Dutch-ware-blue
Dutcher
Dutchify
Dutchman
Dutchman's land
Dutchman's log
Dutchman's-breeches
Dutchman's-pipe
Dutchmen
Dutchtown
Dutchy
Dycusburg
Dyer
Dyersburg
Dyersville
Dyess
Dyfed
Dygal
Dygall
Dygert
Dyke
Dyl
Dylan
Dylana
Dylane
Dymas
Dymaxion house
Dymoke
Dympha
Dymphia
Dyna
Dynah
Dynastes
Dynastides
Dynastinae
Dynel
Dyophysite
Dyophysitic
Dyophysitical
Dyophysitism
Dyothelete
Dyotheletian
Dyotheletic
Dyotheletical
Dyotheletism
Dyothelism
Dyothelite
Dyothelitism
Dysart
Dyson
Dyssodia
Dytiscidae
Dytiscus
Dyula
Dyun
Dyushmanbe
Dzaudzhikau
Dzemal Bijedic
Dzerzhinsk
ECDO
ECE
ECF
ECG
ECL
ECLA
ECLSS
ECM
ECMA
ECN
ECO
ECOM
ECOSOC
ECOWAS
ECPA
ECPT
ECR
ECS
ECSA
ECSC
ECT
ECU
ECV
ED
EDA
EDAC
EDC
EDD
EDES
EDF
EDGAR
EDI
EDIF
EDO
EDP
EDS
EDSX
EDT
EDTA
EDTCC
EE
EEC
EECT
EEDP
EEE
EEG
EEHO
EEI
EEL
EEM
EEO
EEOC
EEPROM
EF
EFD
EFI
EFIS
EFRAP
EFS
EFTA
EG
EGA
EGO
EGP
EGREP
EGRET
EGmc
EHF
EHFA
EHP
EI
EIA
EIB
EIN
EINE
EIS
EISA
EISB
EISS
EITS
EJASA
EKG
EKTS
EL
ELAS
ELC
ELDO
ELF
ELLE
ELM
ELO
ELP
ELT
ELV
EM
EMA
EMACS
EMAIL
EMC
EMF
EMI
EML
EMP
EMPRESS
EMR
EMS
EMT
EMU
EMet
END
ENE
ENEA
ENET
ENFIA
ENIAC
ENS
ENT
EO
EOD
EOE
EOF
EOM
EOS
EOT
EOIT
EP
EPA
EPD
EPL
EPNS
EPOS
EPSS
EPRI
EPROM
EPS
EPSCS
EPSF
EPSI
EPT
EPTS
EPUB
EPW
EQ
EQUEL
Eagleville
Eaineant
Eakins
Eakly
Eal
Ealasaid
Ealing
Eames chair
Eamon
Eamon de Valera
Eamonn Coghlan
Eanes
Eanore
Eardley
Earhart
Earl
Earl Cureton
Earl Marshal
Earl of Coventry
Earla
Earle
Earleen
Earlene
Earleton
Earleville
Earley
Earlham
Earlie
Earlimart
Earline
Earling
Earlington
Earlsboro
Earlton
Earlville
Early
Early American
Early Bird
Early Christian
Early English
Early Hebrew
Early Modern English
Early Renaissance
Earlysville
Earnings Related Supplement
Earp
Earth
Earth Mother
Earth insertion
Earth
Earthshaker
Earvin
Easley
East
East Africa
East African Community
East Alton
East Anglia
East Anglian
East Aurora
East Bengal
East Berlin
East Brewton
East Cape
East Chicago
East Chicago Heights
East China Sea
East Cleveland
East Coast
East Coker
East Conemaugh
East Detroit
East End
East Flanders
East Gary
East German
East Germanic
East Germany
East Goth
East Grand Forks
East Ham
East Hartford
East Haven
East Hills
East India Company
East Indiaman
East Indian
East Indian lotus
East Indian rose-bay
East Indian rug
East Indian walnut
East Indies
East Kilbride
East Lansdowne
East Lansing
East Liverpool
East Liverpudlian
East London
East Londoner
East Los Angeles
East Lothian
East McKeesport
East Meadow
East Moline
East Northport
East Orange
East Pakistan
East Palestine
East Paterson
East Pittsburgh
East Point
East Prairie
East Providence
East Prussia
East Prussian
East Punjab
East Punjabi
East Ridge
East Riding
East River
East Rochester
East Rutherford
East Side
East Stroudsburg
East Suffolk
East Sussex
East Syracuse
East Williston
East greenlander
East indiaman
East side
East-ender
East-insular
East-sider
Eastbourne
Easter
Easter Day
Easter Island
Easter Monday
Easter Saturday
Easter Sunday
Easter anemone
Easter bell
Easter bonnet
Easter candle
Easter daisy
Easter egg
Easter lily
Easter sepulcher
Easter sepulchre
Easter sunday
Easter-giant
Easter-ledges
Easterly
Eastern
Eastern Aden Protectorate
Eastern Christianity
Eastern Church
Eastern Empire
Eastern Ghats
Eastern Hemisphere
Eastern Hindi
Eastern Orthodox
Eastern Orthodox Christianity
Eastern Orthodox Church
Eastern Orthodoxy
Eastern Question
Eastern Rites
Eastern Roman Empire
Eastern Sea
Eastern Slavs
Eastern Standard Time
Eastern Thrace
Eastern Townships
Eastern Turkestan
Eastern rite
Eastern shore
Eastern time
Eastern-Rite Christian
Easterner
Easternism
Easternly
Eastertide
Eastlake
Eastland
Eastleigh
Eastman
Easton
Eastre
Eastside
Eastwood
Easy Street
Eddas
Eddi
Eddic
Eddie
Eddie Delahoussaye
Eddina
Eddington
Edda
Eddy
Eddy kite
Eddystone
Eddystone Rocks
Eddyville
Ede
Edea
Edee
Edeline
Edelman
Edelson
Edelstein
Edelsten
Eden
Edenic
Edenization
Edenize
Edentata
Edenton
Edenville
Ederle
Edessa
Edessan
Edessene
Edestosaurus
Edette
Edgar
Edgar Atheling
Edgar Lee
Edgard
Edgardo
Edgarton
Edgartown
Edge
Edge act
Edgefield
Edgehill
Edgeley
Edgell
Edgemont
Edgemoor
Edgerton
Edgewater
Edgewood
Edgeworth
Edhessa
Edholm
Ed
Edict of Nantes
Edie
Edik
Edin
Edina
Edinboro
Edinburg
Edinburgh
Edirne
Edison
Edison effect
Edita
Edith
Editha
Edithe
Ediva
Ediya
Edla
Edley
Edlin
Edlun
Edlyn
Edman
Edmanda
Edme
Edmea
Edmead
Edmee
Edmeston
Edmon
Edmond
Edmonda
Edmonde
Edmondo
Edmonds
Edmondson
Edmonson
Edmonton
Edmore
Edmund
Edmund Dinis
Edmund I
Edmund II
Edmund Szoka
Edmunda
Edna
Ednas
Edneyville
Ednie
Edny
Edo
Edom
Edomite
Edomitic
Edomitish
Edon
Edoni
Edora
Edouard
Edouard Ghorra
Edouard-Jean Empain
Edra
Edrea
Edrei
Edriasteroidea
Edric
Edrick
Edroasteroid
Edrioasteroidea
Edriopthalmalma
Edris
Edrock
Edroi
Edroy
Edsel
Edson
Eduard
Eduard Benes
Eduard Shevardnadze
Eduardo
Eduardo Cortinas
Eduardo Frei Montalva
Educabilia
Education
Education Index
Education and Labor
Education of Henry Adams, The
Eduino
Eduskunta
Edva
Edward
Edveh
Edwall
Edward
Edward Babiuch
Edward DeBartolo
Edward Diprete
Edward Djerejian
Edward Gierek
Edward Gignoux
Edward I
Edward II
Edward III
Edward IV
Edward Koch
Edward V
Edward VI
Edward VII
Edward VIII
Edward Vrdolyak
Edward the Confessor
Edwardean
Edwardeanism
Edwardian
Edwardianism
Edwardine
Edwards
Edwards Plateau
Edwardsburg
Edwardsia
Edwardian
Edwardsonian
Edwardsonianism
Edwardsiidae
Edwardsport
Edwardsville
Edwin
Edwin Nunez
Edwina
Edwine
Edwyna
Edy
Edyie
Edyth
Edythe
Ek
Eerotema
El Aaiun
El Alamein
El Arish
El Auja
El Cajon
El Capitan
El Chinchonal
El Cid Campeador
El Dorado
El Faiy
El Faiyum
El Ferrol
El Giza
El Gizeh
El Greco
El Gza
El Khalil
El Kunteila
El Mansura
El Minya
El Misti
El Obeid
El Paso
El Paso de Robles
El Pensador Mexicano
El Salvador
El Senussi
El Sombrero de Tres Picos
El Themed
El dorado
El koprah
El nath
El-beth-el
El-lil
Ela
Elachista
Elachistaceae
Elaeagnaceae
Elaeagnus
Elaeis
Elaeocarpaceae
Elaeocarpus
Elaeococca
Elaeodendron
Elagabalus
Elah
Elaina
Elaine
Elais
Elam
Elamite
Elamitic
Elamitish
Elana
Eland
Elane
Elanus
Elaphe
Elaphebolia
Elaphebolion
Elaphodus
Elaphoglossum
Elaphomyces
Elaphomycetaceae
Elaphrium
Elaphurus
Elapidae
Elapinae
Elaps
Elapsoidea
Elara
Elasmobranchii
Elasmosaurus
Elasmothterium
Elastoplast
Elat
Elata
Elateridae
Elath
Elatha
Elatia
Elatinaceae
Elatine
Elatus
Elayne
Elazaro
Elazig
Elba
Elbart
Elbassan
Elbe
Elberfeld
Elberon
Elbert
Elberta
Elbertina
Elbertine
Elberton
Elbie
Elbing
Elbio Anaya
ElbI
Elblag
Elboa
Elbridge
Elbring
Elbrus
ElbruZ
Elburn
Elburr
Elburt
Elburtz
Elburz Mountains
Elche
Elcho
Elco
Elconin
Elda
Elden
Eldena
Elder
Elder Edda
Elder edda
Elderon
Eldersville
Elderton
Eldin
Eldo
Eldon
Eldora
Eldorado
Eldorado Springs
Eldoree
Eldoria
Eldred
Eldreda
Eldredge
Eldreeda
Eldrid
Eldrida
Eldridge
Eldwen
Eldwin
Eldwon
Eleusinian mysteries
Eleusinianism
Eleusinion
Eleusis
Eleut
Eleutheran
Eleuthera
Eleutheri
Eleutheria
Eleutherian
Eleutherios
Eleutherius
Eleutherococcus
Eleutherodactyl
Eleutherodactylus
Eleutherozoa
Eleva
Elevation of the Host
Elevator shoe
Elevs
Elexa
Elf
Elfers
Elfie
Elfont
Elfreda
Elfrida
Elfrieda
Elfstan
Elga
Elgan
Elgar
Elgenia
Elger
Elgin
Elgin marbles
Elgon
Eli
Elia
Elia Kazan
Eliades
Eliahu Ben-Elissar
Elian
Elianic
Elianora
Elianore
Elias
Elias Freij
Eliason
Eliasville
Eliath
Eliathan
Eliathas
Elicia
Elicius
Elida
Elidad
Elie
Elie Hobeika
Elie Wiesel
Eliezer
Elija
Elihu
Elijah
Elijah Muhammad
Elijah's chair
Elijah's cup
Elik
Eliki Bomani
Elinor
Elinore
Elinvar
Eliot
Eliott
Eliphalet
Eliphaz
Elis
Elisa
Elisabet
Elisabeth
Elisabethville
Elisabetta
Elsavetgrad
Elsavetpol
Elise
Elisee
Eliseo
Eliseus
Elish
Elisha
Elishah
Elisia
Elison
Elissa
Elista
Elita
Elite Guard
Elliottville
Ellis
Ellis Island
Ellisburg
Ellison
Ellissa
Elliston
Ellisville
Ellita
Ellmyer
Ellon
Ellora
Ellord
Elloree
Ellsinore
Ellston
Ellswerth
Ellsworth
Ellwood
Elly
Ellyn
Ellynn
Elma
Elmajian
Elmaleh
Elman
Elmaton
Elmdale
Elmendorf
Elmer
Elmhall
Elmhurst
Elmina
Elmira
Elmmott
Elmo
Elmo’s fire
Elmo’s light
Elmont
Elmonte
Elmora
Elmore
Elmsford
Elmwood
Elmwood Place
Elna
Elnar
Elnora
Elnore
Elo
Eloah
Elodea
Elodeaceae
Elodes
Elodia
Elodie
Elohim
Elohimic
Elohimism
Elohist
Elohistic
Eloisa
Eloisa to Abelard
Eloise
Elon
Elon Moreh
Elonite
Elonore
Elopidae
Elora
Elotherium
Eloy
Eloy Gutierrez Menoyo
Eloyse
Elpenor
Elreath
Elrica
Elrod
Elroy
Els
Elsa
Elsah
Elsan
Elsass
Elsass-Lothringen
Elsberry
Elsbeth
Elsdon
Else
Elsene
Elset
Elsevier
Elsey
Elsholtzia
Elsi
Elsie
Embrica
Embry
Embryophyta
Embryophyta asiphonogama
Embryophyta siphonogama
Embudo
Eden
Eme-sal
Emee
Emeigh
Emelda
Emelen
Emelia
Emelin
Emelina
Emeline
Emelita
Emelle
Emelun
Emelyne
Emera
Emerado
Emerald
Emerald Isle
Emergency Broadcast System
Emeric
Emerick
Emerita
Emersen
Emerson
Emerson Fittipaldi
Emersonian
Emersonianism
Emery
Emeryville
Emesa
Emesidae
Emie
Emigsville
Emil
Emil Gilels
Emile
Emile Biayenda
Emilee
Emili
Emilia
Emilia-Romagna
Emiliano
Emilie
Emiline
Emilio
Emilio Garratazu Medici
Emily
Emim
Emina
Eminence
Eminescu
Emington
Emiscan
Emison
Emitron
Emlen
Emleton
Emlin
Emlyn
Emilynn
Emlynne
Emm
Emma
Emmalee
Emmaleena
Emmaline
Emmalyn
Emmalynn
Emmalynne
Emmanuel
Emmaus
Emmeleen
Emmelene
Emmelina
Emmeline
Emmen
Emmental
Emmentaler
Emmental
Emmenthal
Emmenthaler
Emmenthaler cheese
Emmer
Emmeram
Emmerich
Emmerie
Emmery
Emmet
Emmetsburg
Emmett
Emmey
Endoceras
Endoceratidae
Endogenae
Endomyces
Endomycesaceae
Endoparasitica
Endophyllaceae
Endophyllum
Endoprocta
Endopterygota
Endor
Endora
Endothia
Endothia canker
Endothrix
Endotrophi
Endres
Endromididae
Endromis
Endymion
Eneas
Enemy of the People, An
Enenstein
Eneolithic
Enesco
Enescu
Enewetak
Enfants Terribles, Les
Enfield
Enfield rifle
Eng
Engadine
Engdahl
Engeddi
Engedi
Engedus
Engel
Engel's law
Engelbert
Engelberta
Engelhard
Engelhart
Engelmann spruce
Engelmannia
Engels
Engen
Engenia
English
Engineer corps
England
Englander
Engle
Englebert
Engleman
Engler
Englerophoenix
Englewood
Englifier
Englify
Englis
English
English Canadian
English Channel
English Civil War
English Mail-Coach, The
English Pale
English Revolution
English as it is spoken
English bond
English bulldog
English cavalry saddle
English cocker spaniel
English daisy
English elm
English flute
English foxhound
English gooseberry
English holly
English horn
English iris
English ivy
English laurel
English literature
English muffin
English pink
English primrose
English red
English riding saddle
English rye grass
English saddle
English sennit
English setter
English sonnet
English sparrow
English springer spaniel
English system
English system of measurement
English toy spaniel
English walnut
English yew
English-born
English-bred
English-built
English-hearted
English-made
English-manned
English-minded
English-rigged
English-setter
English-speaking
Englishable
Englisher
Englishhood
Englishism
Englishize
Englishly
Englishman
Englishman's tie
Englishmen
Englishness
Englishry
Englishtown
Englishwoman
Englishwomen
Engracia
Engraulidae
Engraulis
Engud
Engvall
Engystomatidae
Enhydra
Enhydrinae
Enhydris
Enicuridae
Enid
Enif
Eniopeus
Eniwetok
Enka
Enki
Enkido
Enkimdu
Enlightenment
Enlil
Eolic
Eoline
Eolitic
Eomecon
Eopaleozoic
Eopaleozoic
Eos
Eosaurus
Eozoic
Ep
Epacridaceae
Epacris
Epaminondas
Epaminondas and Pelopidas
Epanagoge
Epanorthidae
Epaphus
Eparchean
Epeans
Epeira
Epeiridae
Epeirot
Eperua
Epes
Epeus
Eph
Ephedra
Ephedraceae
Ephemera
Ephemera
Ephemeroptera
Ephes
Ephesian
Ephesians
Ephesine
Ephesus
Ephialtes
Ephraemi Rescriptus
Ephraemi Syri
Ephraim
Ephraim Eldar
Ephraim Evron
Ephraim Katzir
Ephraimitic
Ephraimitish
Ephraitec
Ephram
Ephrata
Ephrathite
Ephrayim
Ephrem
Ephrem Syrus
Ephthalite
Ephthianura
Ephydra
Ephydridae
Epibacterium
Epibaterius
Epicaridea
Epicarides
Epicaste
Epicauta
Epiceratodus
Epichristian
Epicoela
Epicrates
Epictetian
Epictetus
Epicurean
Epicureanism
Epicurism
Epicurize
Epicurus
Epidaurus
Epidemiarum
Epidendron
Epidendrum
Epidermophyton
Epifano
Epigaea
Epigenes
Epigoni
Epigonichthyidae
Epigonichthys
Epigonus
Epihippus
Epikourois
Epilachna
Epilachnides
Epilobiaceae
Epilobium
Epimachinae
Epimedium
Epimenidean
Epimenides
Epimetheus
Epinephelidae
Epinephelus
Epione
Epipactis
Epipaleolithic
Epiph
Epiphania
Epiphanes
Epiphanian of Salamis
Epiphany
Epiphegus
Epiphyllum
Epipsychidion
Epirete
Epirote
Epirotic
Epirus
Epis
Episc
Episcopal
Episcopal Church
Episcopalian
Episcopalianism
Episcopalianize
Episcopally
Epist
Epistle
Epistle side
Epistles
Epistylis
Epitoniidae
Epitonium
Epizoa
Epner
Epoisses
Epomophorus
Epona
Epp
Epperson
Eppes
Eppie
Epping
Epping Forest
Epps
Eppy
Eproboscidea
Erlina
Erline
Erlinna
Erlond
Erma
Ermalinda
Ermanaric
Ermani
Ermanno
Ermanrich
Erme
Ermeena
Ermengarde
Ermentrude
Erney
Ermin
Ermina
Ermine
Erminia
Erminie
Erminna
Ern
Erna
Ernald
Ernaldus
Ernaline
Erne
Ernest
Ernesta
Ernestine
Ernesto
Ernesto Civardi
Ernesto Dihigo
Ernesto Geisel
Ernestus
Ernestyne
Ernie
Ernst
Ernul
Erny
Erodium
Eroica Symphony
Eros
Erotes
Erotyliidae
Erpetoichthys
Errantia
Errecart
Errhephoria
Errick
Errol
Erroll
Ersar
Erse
Erskine
Ertebolle
Ertha
Eruca
Eruclus
Erund
Erv
ErvIn
Ervin
Ervine
Erving
Erviapiame
Ervum
Ervy
Erwin
Erwinia
Erwinna
Erwinville
Ervcina
Erymanthian
Erymanthian boar
Erymanthos
Erymanthus
Eryn
Eryngium
Eryon
Eryops
Erysibe
Erysichthon
Erysimum
Erysipelothrix
Erysiphaceae
Erysiphe
Erythea
Erytheis
Erythrea
Erythrean
Erythrean sibyl
Erythraeidae
Erythraeum
Erythrina
Erythrinidae
Erythrinus
Erythrochaeote
Erythronium
Erythroxylaeeae
Erythroxylon
Erythroxylum
Eryx
Erz Mountains
Erzerum
Erzgebirge
Erzurum
Es
Esa Tikkanen
Esaki diode
Esau
Esbensen
Esbenshade
Esbjerg
Esbon
Esc
Escalante
Escalator
Escallonia
Escalloniaceae
Escalon
Escanaba
Escatawpa
Escaut
Esch
Escherichia
Eschescholtzia
Eschwege soap
Eschweger soap
Escoffier
Escoheag
Escondido
Escorial
Escudero
Esculapian
Escorial
Esd
Esdraelon
Esdras
Esdud
Esebrias
Esenin
Eshelman
Esher
Eshi-kongo
Eshkol
Eshman
Esidrix
Esk
Eskdale
Eskil
Eskill
Eskilstuna
Eskimaauan
Eskimo
Eskimo Pie
Eskimo curlew
Eskimo dog
Eskimo purchase
Eskimo-Aleut
Eskimoan
Eskimoic
Eskimoid
Eskimoized
Eskimologist
Eskimology
Eskimos
Eskisehir
Eskishehir
Esko
Eskualdun
Eskuara
Esky
Eslie
Esma
Esmarch bandage
Esmaria
Esmark
Esme
Esmeralda
Esmeraldan
Esmeraldas
Esmerelda
Esmerolda
Esmond
Esmont
Esocidae
Esopus
Esopus grit
Esox
Espana
Espanola
Essie
Essig
Essinger
Essington
Essonne
Essy
Est Est Est
Esta
Estaban de Jesus
Established Church
Establishment
Establishment, the
Estacada
Estaging
Estancia
Estas
Estates General
Este
Esteban
Esteban Dejesus
Estel
Estele
Esteli
Estell
Estella
Estelle
Estelline
Esten
Ester
Esterhazy
Estero
Estes
Estes Kefauver
Estes Park
Estevan
Estey
Esth
Esthacyte
Esther
Estheria
Estheriidae
Estherville
Estherwood
Esthonia
Esthonian
Estienne
Estill
Estis
Estonia
Estonian
Estotiland
Estournelles de Constant
Estrada Cabrera
Estrella
Estrellita
Estremadura
Estren
Estrin
Estron
Estus
Eszencia
Esztergom
Eszterhazy
Et
Eta
Etam
Etamin
Etan
Etana
Etas
Etchareottine
Etchimin
Etet
Eteocles
Eteclus
Etecretan
Etecretes
Etecreton
Eternal City
Eternal City, The
Eth
Ethan
Ethanim
Ethban
Ethben
Ethbin
Ethbinium
Ethbun
Ethhe
Ethel
Ethelbert
Ethelda
Ethelée
Ethelene
Ethelette
Ethelin
Ethelind
Ethelinda
Etheline
Ethelred
Ethelred II
Ethelstan
Ethelsville
Ethelyn
Ethelynne
Etheneldeli
Etheostoma
Etheostomidae
Etheostominae
Etherege
Etheria
Etheriidae
Ethical Culture
Ethics of the Fathers
Ethiop
Ethiope
Ethiopia
Ethiopian
Ethiopian Church
Ethiopic
Ethlyn
Ethyl
Ethyle
Etienne
Etiwanda
Eika
Etlan
Etna
Etmean
Etoile
Etom
Eton
Eton College
Eton blue
Eton cap
Eton collar
Eton crop
Eton game
Eton jacket
Etonian
Etowah
Etowah mound
Etr
Etra
Etrem
Etruria
Etruria ware
Etrurian
Etruscan
Etruscan ware
Etrusco-roman
Etruscologist
Etruscology
Etta
Etabeth
Etari
Ettarre
Etters
Etterville
Etti
Ettie
Ettinger
Ettore
Ettrick
Etty
Etz
Etel
Euel
Eu
Euachne
Euahlayi
Euascomycetes
Eubacteriales
Eubank
Eubasidii
Euboea
Euboean
Euboic
Eubranchipus
Eubuleus
Eucalyptus
Eucarida
Eucha
Eucharis
Eucharis mite
Eucharist
Eucharistic
Eucharistic rites
Eucharistical
Eucharistically
Eucharitidae
Euchenor
Euchite
Euchlaena
Euchlorophyceae
Euchorda
Eucirripedia
Eucken
Euclea
Eucleidae
Euclid
Euclidean
Euclidean algorithm
Euclidean domain
Euclidean geometry
Euclidean group
Euclidean space
Euclideanism
Euclides
Euclidian
Eucnemidae
Eucommia
Eucommiaceae
Euconjugatae
Eucopepoda
Eucosia
Eucosmidae
Eucryphia
Eucryphiaceae
Euctemon
Eudemian
Eudendrium
Eudeve
Eudist
Eudo
Eudoca
Eudocia
Eudora
Eudorina
Eudorus
Eudosia
Eudoxia
Eudoxian
Eudoxus
Eudoxus of Cnidus
Eudromias
Eudyptes
Euell
Euemerus
Euergetes
Eufaula
Euphorbia sphinx
Euphorbiaceae
Euphorbus
Euphorion
Euphrasia
Euphratean
Euphrates
Euphremia
Euphrosyne
Euphues
Euphyllopoda
Euplectella
Euplexoptera
Euplocomi
Euplochinae
Euplotes
Eupolidean
Eupolidean meter
Eupolyzoa
Eupomatia
Eupomatiaceae
Eupora
Euprepia
Euproctis
Euoptelea
Eupterotidae
Eur
Eur-
Eurafric
Eurafrican
Euramerican
Euraquilo
Eurasia
Eurasian
Eurasian landmass
Eurasianism
Eurasiatic
Euratom
Eure
Eure-et-Loir
Eureka
Eureka Stockade
Euridice
Euridyce
Eurindic
Euripidean
Euripidean tragedy
Euripides
Eurippa
Euro-
Euro-American
Euro-american
Euroaquilo
Euroclydon
Eurocommunism
Eurocrat
Eurodollar
Eurodollars
Euromarket
Euromart
Europa
European
Europasian
Europe
European
European Atomic Energy Community
European Economic Community
European Free Trade Association
European Recovery Program
European Recovery Programme
European beech
European bird cherry
European bison
European blastomycosis
European chestnut
European corn borer
European cranberry
European elder
European fan palm
European fly honeysuckle
European globeflower
European goldenrod
European larch
European letter telegram
European linden
European mallow
European plan
European raspberry
European spruce sawfly
European white hellebore
Europeanisation
Europeanise
Europeanised
Europeanising
Europeanism
Europeanization
Europeanize
Europeanized
Europeanizing
Europeanly
Europeo-american
Europeo-asiatic
Europeo-siberian
Europeward
Europocentric
Europoort
Eurotas
Eurovision
Eurus
Euryalae
Euryale
Euryaleae
Euryalida
Euryalus
Eurybates
Eurybia
Eurycerotidae
Euryclea
Eurycleia
Eurydamas
Eurydice
Eurygaea
Eurygaean
Euryganea
Eurylaimi
Eurylaimidae
Eurylaimus
Eurylochus
Eurymachus
Eurymede
Eurymedon
Eurymus
Eurynome
Eurypelma
Eurypharyngidae
Eurypharynx
Eurypterida
Eurypteroidea
Eurypterus
Eurypyga
Eurypygae
Eurypygidae
Eurypygulus
Eurysaces
Euxine Sea
Ev
Eva
Eva Gabor
Eva Gschopf
Eva Pfaff
Evacuation Day
Evadale
Evadne
Evadnee
Evaleen
Evalyn
Evan
Evan Mecham
Evander
Evang
Evangelia
Evangelical
Evangelical Congregationalist
Evangelicalism
Evangelin
Evangelina
Evangelene
Evangelist
Evangelists
Evangels
Evangelos Averoff
Evania
Evaniidae
Evanne
Evannia
Evans
Evansdale
Evansport
Evanston
Evansville
Evant
Evante
Evanthe
Evanthia
Evarglice
Evaristus
Evars
Evart
Evarts
Evatt
Eve
Eve's pudding
Evea
Evehood
Evel Knievel
Eveleen
Eveless
Eveleth
Evelin
Evelina
Eveline
Evelinn
Evelunn
Evelyn
Evelynne
Evemerus
Even
Even-christian
Evendale
Evening Prayer
Evening With Monsieur Teste, An
Eveningshade
Evensville
Eventognathi
Eventus
Evenus
Everara
Everard
Everdur
Eveready
Evered
Everes
Everest
Everett
Everetts
Everettville
Everglade state
Everglades
Everglades National Park
Evergood
Evergreen
Evergreen Park
Evergreen State
Everhart
Everick
Everly
Evernia
Everrs
Evers
Eversole
Everson
Evert
Evertebrata
Everton
Every Man Out of His Humour
Every Man in His Humour
Everyman
Evesham
Evetta
Evette
Evey
Evian-les-Bains
Evie
Evil One
Evin
Evington
Ewinston
Evipal
Evita
Evius
Evniissyen
Evodia
Evonne
Evonymus
Evora
Evoy
Evreux
Evros
Evslin
Evtushenko
Evva
Evvie
Evvoia
Evvy
Evy
Evyleen
Evyn
Ewa
Ewald
Ewall
Ewan
Ewan Clague
Eward
Ewart
Ewe
Ewell
Ewen
Ewens
Exogyra
Exon
Exon domesday
Exonian
Exopterygota
Exostema
Expectation Week
Expectation sunday
Expectation week
Explorer
Export-Import Bank
Expressionism
Expressionismus
Expressionist
Expressionistic
Expressionistically
Extasie
Extasie, The
Extasiie
Exton
Extra-american
Extra-christian
Extra-judical
Extra-league
Extra-neptunian
Extravagantes
Extremadura
Exultet
Exuma
Exxon
Exxon Valdez
Eyck
Eyde
Eydie
Eyeish
Eyeleen
Eyetie
Eyla
Eyota
Eyre
Eyre Peninsula
Eyre's Peninsula
Eysenck
Eysk
Eyskens
Ez
Ezana
Ezar
Ezara
Ezarri
Ezarra
Ezzarri
Ezeychas
Ezechiel
Ezek
Ezekiel
Ezel
Ezequiel
Ezer Weizman
Eziama
Eziechiele
Ezmeralda
Ezr
Ezra
Ezri
Ezzard
Ezzo
F
F clef
F distribution
F horn
F layer
F major
F minor
F natural
F region
F star
F's
F-display
F-flat
F-head cylinder
F-hole guitar
F-scope
F-shaped
F-sharp
F-sharp major
F-sharp minor
F-state
F-stop system
F-type star
FA
FA Cup
FAA
FAAAS
FAB
FACD
FEA
FEAF
FEB
FEC
FED
FEDSIM
FEHQ
FEM
FEMA
FEMF
FEP
FEPC
FEPS
FERA
FERS
FET
FEV
FF
FFA
FFC
FFI
FFRDC
FFS
FFT
FFV
FFVs
FGA
FGB
FGC
FGD
FGREP
FGS
FGSA
FHA
FHLBA
FHLMC
FHMA
FHST
FI
FIB
FICA
FIDE
FIDO
FIFA
FIFO
FILO
FIIMS
FIN
FINE
FIO
FIOC
FIP
FIPS
FIR
FIRMR
FIT
FITS
FL
FLACC
FLB
FLN
FLOP
FLOPS
FLRA
FLS
FLT
FM
FM antenna
FM band
FM broadcasting
FM cyclotron
FM detector
FM receiver
FM signal
FM station
FM transmitter
FM tuner
FMAC
FMB
FMC
FMCS
FMEA
FMN
FMR
FMS
FMk
FNC
FNMA
FNPA
FO
FOAC
FOB
FOC
FOE
FOIA
FOIMS
Fair deal
Fair dealer
Fairbank
Fairbanks
Fairborn
Fairburn
Fairbury
Fairchance
Fairchild
Fairdale
Faires
Fairfax
Fairfield
Fairhope
Fairland
Fairlawn
Fairlee
Fairleigh
Fairley
Fairlie
Fairman
Fairmont
Fairmount
Fairoaks
Fairplay
Fairport
Fairton
Fairview
Fairwater
Fairway
Fairweather
Faisal
Faisal Husseini
Faisal I
Faisal II
Faison
Faith
Faith 7
Fairyum
Faizabad
Fajardo
Fakieh
Fakofo
Falak al aflak
Falange
Falangism
Falangist
Falasha
Farmville
Farnam
Farnborough
Farner
Farnese
Farnham
Farnhamville
Farnovian
Farnsworth
Farny
Faro
Faroe Islands
Faroeish
Faroes
Faroese
Farouk
Farouk I
Farouk Kaddoumi
Farquhar
Farquhar Islands
Farr
Farra
Farragut
Farrah
Farrand
Farrandsville
Farrar
Farrel
Farrell
Farrica
Farrington
Farris
Farrish
Farrison
Farro
Farron
Farrow
Fars
Farsang
Farsi
Farson
Farther India
Faruk I
Faruq
Farver
Farwell
Fasano
Fascio
Fasciolaria
Fasciolaridiae
Fasciolidae
Fascism
Fascist
Fascista
Fascisti
Fashing
Fashoda
Faso
Fassbinder
Fassold
Fast
Fast of Av
Fast of Esther
Fast of Gedaliah
Fasta
Fasten tuesday
Fasto
Fata
Fata Morgana
Fatagaga
Fatah
Fates
Father
Father Christmas
Father Hugo's rose
Father Time
Father of Lies
Father's Day
Father, Son, and Holy Ghost
Father, The
Fatherhood
Fathers and Children
Fathers and Sons
Fathometer
Fatiha
Fatima
Fatimah
Fatimid
Fatimite
Fatma
Fatshan
Fattal
Faubert
Faubion
Faubush
Faucett
Feast of Tabernacles
Feast of Weeks
Feast of the Dedication
Feast of the Unleavened Bread
Featherstone
Feb
Febe
Febronian
Febronianism
Febraries
Februarius
February
February Revolution
Fechner
Fechner fraction
Fechnerian
Fechter
Fecunditatis
Fed
Fedak
Fedayeen
Fedders
Federal
Federal Agency bond
Federal Assembly
Federal Aviation Administration
Federal Aviation Agency
Federal Bureau of Investigation
Federal Capital Territory
Federal Constitution
Federal Court of Claims
Federal District
Federal Energy Administration
Federal Home Loan Bank Board
Federal Land Bank
Federal Maritime Commission
Federal National Assembly
Federal Parliament
Federal Power Commission
Federal Register
Federal Republic of Cameroon
Federal Republic of Germany
Federal Reserve Bank
Federal Reserve Board
Federal Reserve System
Federal Reserve bank
Federal Reserve district
Federal Reserve note
Felic
Felicidad
Felice
Felichthys
Felicia
Feliciana
Felicidad
Felie
Felicio
Felicita
Felicity
Felicle
Felidae
Felike
Feliks
Felinae
Felipa
Felipe
Felipe Gonzales
Felippe
Felis
Felise
Felisha
Felita
Felix
Felix Bloch
Felix Fermin
Felix Houphouet-Boigny
Felix I
Felix III
Felix IV
Feliza
Felizio
Fellani
Fellata
Fellatah
Feller
Fellentin tapestry
Felling
Fellini
Fellner
Fellow
Fellows
Fellsmere
Felske
Felt
Feltten
Feltie
Fidole
Fiedler
Fiedling
Field
Fieldale
Fielding
Fieldon
Fields
Fields of Mourning
Fieldton
Fiend
Fierabras
Fierasfer
Fierasferidae
Fierebras
Fiertz
Fiesole
Fiester
Fife
Fifeshire
Fifi
Fifield
Fifine
Fifinella
Fifth Amendment
Fifth Monarchy Men
Fifth Republic
Fifth of May
Figge
Fighting French
Figitidae
Figl
Figone
Figuieres
Figueroa
Fiji
Fiji Islands
Fiji arrowroot
Fiji chestnut
Fijian
Filago
Filaria
Filariiidae
Filbert
Filbert Bayi
Filberte
Filberto
Filemon
Financier, The
Finbar
Finbur
Finchley
Finchville
Findlay
Findley
Fine
Fine Champagne
Fine Gael
Fineberg
Fineen
Finegan
Finella
Fineman
Finer
Fineview
Fingal
Fingal's Cave
Fingall
Fingallian
Finger Lakes
Fingerville
Fingo
Fingu
Fini
Finiglacial
Finist
Finistere
Finisterre
Fink
Fink truss
Finkelstein
Finksburg
Finland
Finlander
Finlandia
Finlay
Finlayson
Finletter
Finley
Finleyville
Finly
Finmark
Finn
Finnbarea
Finnegan
Finnegans Wake
Finney
Finnic
Finnicize
Finnie
Finnigan
Finnish
Finnish bath
Finnmark
Finno-Russo War
Finno-Ugrian
Finno-Ugric
Finno-hungarian
Finno-slav
Finno-slavonic
Finno-tatar
Finno-turki
Finno-turkish
Finno-ugrian
Finno-ugric
Finny
Fino
Finsen
Finsen lamp
Finsen light
Finstad
Finsteraarhorn
Finzer
Fiona
Fionn
Fionna
Fionnuala
Fionnula
Fiora
Fiore
Fiorello
Fiorenza
Fiorenze
Fioretti
Fiot
Fir domnann
Firbank
Firbauti
Firbolg
Firbolgs
Fircrest
Firdausi
Firdousi
Firdusi
Fire and Ice
Firebaugh
Firebee
Firebird, The
Firebrick
Firenze
Firesteel
Firestone
Firman
Firmicus
Firmin
Firmisternia
Firmismalerei
Firoloida
Firooc
First Balkan War
First Chamber
First Empire
First Families of Virginia
First International
First Lord
First Lord of the Admiralty
First Lord of the Treasury
First Presidency
First Reader
First Reich
First Republic
First Secretary of State
First World War
First day
Firstborn, The
Firth
Fisch
Fischbein
Fischer
Fischer-Dieskau
Fischer-Tropsch process
Fish
Fishback
Fishein
Fisher
Fisheries and Food
Fishers
Fishersville
Fishertown
Fisherville
Fishes
Fishkill
Flann
Flanna
Flannery
Flasher
Flat River
Flat Rock
Flathead
Flatlick
Flatonia
Flatto
Flatwoods
Flaubert
Flaubertian
Flaveria
Flavia
Flavian
Flavio
Flavius
Flavobacterium
Flaxman
Flaxton
Flaxville
Fleck
Flecker
Fleda
Fledermaus Die
Fleece
Fleeman
Fleet
Fleet Air Arm
Fleet Prison
Fleet Street
Fleet-book evidence
Fleeta
Fleetville
Fleetwood
Fleetwood Mac
Fleischer
Fleischmanns
Fleisher
Fleisig
Flem
Fleming
Fleming valve
Fleming's rules
Flemings
Flemingsburg
Flemington
Flemish
Flemish bob
Flemish bond
Flemish coil
Flemish fake
Flemish horse
Flemish knot
Flemish school
Flemish scroll
Flemish-coil
Flemming
Flensburg
Flessel
Fleta
Fletch
Fletcher
Fletcherise
Fletcherised
Fletcherising
Fletcherism
Fletcherite
Fletcherize
Fletcherized
Fletcherizing
Flettner control
Fleur
Fleur de Decauville
Fleurette
Fleurs du Mal, Les
Fleury
Flewelling
Flexner
Flexography
Flexowriter
Flexowriter typewriter
Flickertail state
Flicksville
Flieger
Fliegerabwehrkanone
Flight
Flin
Flin Flon
Flinders Island
Flinders Range
Flinders bar
Flindersia
Flinn
Flint
Florette
Florey
Florham Park
Flori
Floria
Florian
Floriano
Florianolis
Florianopolis
Florida
Florida Current
Florida Keys
Florida Strait
Florida cat's-claw
Florida gold
Florida moss
Florida velvet bean
Florida water
Floridan
Florideae
Florida
Floridian
Florie
Florien
Florin
Florina
Florinda
Florine
Florio
Floris
Florisbad man
Florissant
Floriston
Floro
Florri
Florrie
Florry
Flory
Floscularia
Flosculariidae
Flosi
Floss
Flosser
Flossi
Flossie
Flossmoor
Flossy
Flotow
Flourtown
Flovilla
Flower
Flower Hill
Flowering Judas
Flowers
Flowers of Evil
Floy
Floyce
Floyd
Floyd Holzapfel
Floydada
Floyddale
Flls
Flugelhorn
Fluker
Flushing
Flustra
Flutidae
Fluvanna
Fly River
Flying Dutchman
Flyingh
Flyn
Flynn
Flysch
Fm
Fnen
Fo
FoC
Foah
Foaming Sea
Foamite
Foao Neves da Fontoura
Foch
Focolare Movement
Fodientia
Foecunditatis
Foeniculum
Foerstner bit
Fogarty
Fogel
Fogelsville
Fogertown
Fogg
Foggia
Foism
Foist
Foreland
Forelli
Foreman
Forest
Forest Acres
Forest Grove
Forest Heights
Forest Hill
Forest Hills
Forest Negro
Forest Park
Forest city
Forest of Dean
Forest service
Forestburg
Forestburgh
Forestdale
Forester
Forestian
Forestiera
Foreston
Forestport
Forestville
Forfar
Forficula
Forficulidae
Forgan
Foristell
Forkey
Forkland
Forks
Forksville
Forkunion
Forkville
Forl
Forland
Forli
Forlini
Form
Formalin
Forman
Formenti
Formica
Formicariae
Formicariidae
Formicidae
Formicina
Formicinae
Formicivora
Formicoidea
Formol
Formosa
Formosa Strait
Formosa oolong
Formosan
Formoso
Formosus
Fornacalia
Fornacis
Fornax
Forney
Forneys
Fornof
Forras
Forrer
Forrest
Forrest's Birthday
Forrestal
Forrester
Forreston
Fors fortuna
Forsan
Forsete
Forseti
Forssman
Forst
Forsta
Forsta kammaren
Forster
Forstner bit
Forsyte Saga, The
Forsyth
Forsythe
Forsythia
Fort
Fort Atkinson
Fort Bragg
Fort Casper
Fort Chaffee
Fort Dearborn
Fort Detrick
Fort Dodge
Fort Donelson
Fort Duchesne
Fort Duquesne
Fort Fairfield
Fort Henry
Fort Jefferson
Fort Kearney
Fort Kent
Fort Knox
Fort Lamy
Fort Laramie
Fort Lauderdale
Fort Lee
Fort Madison
Fort McHenry
Fort Meade
Fort Meigs
Fort Mill
Fort Mims
Fort Monroe
Fort Morgan
Fort Moultrie
Fort Myers
Fort Orange
Fort Payne
Fort Peck
Fort Pickens
Fort Pierce
Fort Plain
Fort Pulaski
Fort Scott
Fort Smith
Fort Stockton
Fort Sumter
Fort Valley
Fort Wayne
Fort William
Fort Worth
Fort ancient
Fort pierre
Fort union
Fort-Lamy
Fort-de-France
Forta
Fortaleza
Fortas
Fortescue
Forth
Fortier
Fortin
Fortin barometer
Fortisan
Fortna
Fortran
Fortuna
Fortunate Islands
Fortunate Isles
Fortunato
Fortunatus's cap
Fortune
Fortune's wheel
Fortunella
Fortunia
Fortunio
Fortunna
Forty Days of Musa Dagh, The
Forty Fort
Forty Thieves, The
Forty-Eight, The
Forty-Five
Forty-five
Forum
Forward
Fosbury flop
Foscalina
Fosdick
Foshan
Fosite
Foskett
Fosque
Foss
Fosse Way
Fossores
Fossoria
Fosston
Foster
Fosters
Fosterville
Fostoria
Fothergilla
Fotheringhay
Fotina
Fotinas
Fotomatic
Fotosetter
Fototronic
Foucault
Foucault current
Foucault pendulum
Foucquet
Fougere
Fougerolles
Foujita
Fouke
Foulbecc
Foulk
Foulness
Foundation Day
Foundation day
Fount
Fountain Hill
Fountainhead, The
Fountaintown
Fountaintown
Fountainville
Fouqu
Fouque
Fouquet
Fouquier-Tinville
Fouquieria
Fouquieriaceae
Four
Four Horsemen
Four Hundred
Four Hundred, the
Four Noble Truths
Four Quartets
Four Saints in Three Acts
Four Temperaments, The
Four-H Club
Four-h
Four-power
Fourdrinier
Fourier
Fourier analysis
Fourier series
Fourier transform
Fourierian
Fourierism
Fourierist
Fourieristic
Fourierite
Fourme d'Ambert
Fourme de Montbrison
Fourme de Salers
Fourmile
Fournier
Fouroaks
Fourteen Points
Frager
Fragilaria
Fragilariaaceae
Fragonard
Frakes
Fraktur
Fram
Frame
Frametown
Framingham
Fran
Francaix
France
Francene
Frances
Francesca
Francescatti
Francesco
Francesco Cossiga
Francesco Crucitti
Francesco Damiani
Francestown
Francesville
Franche-Comt
Franchot
Franci
Francic
Francie
Francine
Francis
Francis I
Francis II
Francis Joseph I
Francis Xavier
Francis of Assisi
Francis of Paula
Francis of Sales
Francisca
Franciscan
Franciscan nightshade
Franciscanism
Franciscka
Francisco
Francisco Aguirre
Francisco Fiallos Navarro
Franciscus
Franciska
Franciskus
Frasier
Frasquito
Fratercula
Fraticelli
Fraticellian
Fratres arvales
Fratres praedicatores
Fraticelli
Frau
Frau ohne Schatten Die
Frauen
Frauenfeld
Frauenliebe und Leben
Fraulein
Fraunhofer
Fraunhofer lines
Fraus
Fravashi
Fraxinus
Fraya
Frayda
Frayne
Fraze
Frazee
Frazer
Frazysburg
Frazier
Frear
Freberg
Frecciarossa
Frech
Frechet
Frechette
Fred
Fred Gehrke
Fred Ikle
Fred Manrique
Fred Moosally
Freda
Freddi
Freddie
Freddy
Fredek
Fredel
Fredela
Fredelia
Fredella
Fredenburg
Free
Free Church
Free French
Free Kirk
Free Kirker
Free Soil Party
Free State
Free Stater
Free Territory of Trieste
Free World
Free and Accepted Masons
Free kirk
Free-soil party
Free-soilism
Freeborn
Freeburg
Freeburn
Freechurchism
Freed
Freedman
Freedom
Freedom 7
Freedomites
Freehold
Freekirker
Freeland
Freelandville
Freeman
Freemanspur
Freemason
Freemasonry
Freemon
Freeport
Freer
Freesia
Freesoil
Freestone State
Freetown
Freeunion
Freeville
Freewater
Fregata
Fregatae
Fregatidae
Frege
Fregger
Frei
Frei's disease
French bread
French bulldog
French chalk
French chop
French coach horse
French cricket
French cuff
French curve
French disease
French door
French doors
French doughnut
French drain
French dressing
French endive
French fake
French flat
French foot
French fried potatoes
French fries
French gray
French harp
French heel
French honeysuckle
French horn
French ice cream
French kid
French kiss
French knickers
French knot
French leave
French letter
French lilac
French literature
French lug
French marigold
French mulberry
French mustard
French navy
French nettle
French nude
French pancake
French pastry
French pitch
French plague
French pleat
French police
French polish
French pox
French roll
French roof
French rose
French school
French seam
French shroud knot
French sixth
French stick
French stick loaf
French system
French tab
French tamarisk
French telephone
French toast
French truss
French twist
French vermouth
French window
French windows
French-born
French-bred
French-built
French-educated
French-fashion
French-grown
French-heeled
French-kiss
French-looking
French-loving
French-made
French-manned
French-minded
French-polish
French-speaking
Frenchboro
Frenchburg
Frenchier
Frenchies
Frenchiest
Frenchification
Frenchified
Frenchify
Frenchifying
Frenchily
Frenchiness
Frenchism
Frenchize
Fri
Fria
Friant
Friar Minor
Friar Minor Capuchin
Friar Minor Conventual
Friar Preacher
Friar Tuck
Friar minor
Friar preacher
Friars Minor
Friars Minor Capuchin
Friars Minor Conventual
Friars Preachers
Friars minor
Friars preachers
Fribourg
Frick
Fricke
Frida
Friday
Friday the thirteenth
Fridays
Fridell
Fridila
Fridley
Fridlund
Fridtjof
Fridtjof Nansen Land
Fried
Frieda
Friedberg
Friede
Friedel-Crafts reaction
Friedens
Friedensburg
Frieder
Friederike
Friedheim
Friedland
Friedlander
Friedly
Friedman
Friedrich
Friedrichshafen
Friedrichstrasse
Friedrick
Friend
Fucoideae
Fuegian
Fuehrer
Fuertes
Fuerteventura
Fugate
Fugazy
Fugere
Fuget
Fugger
Fuhrer
Fuhrman
Fiiren
Fujen University
Fuji
Fuji-san
Fujio
Fujisan
Fujitsu
Fujiwara
Fujiyama
Fukien
Fukuda
Fukuoka
Fukushima
Ful
Fula
Fulah
Fulah-zandeh
Fulahs
Fulani
Fulanis
Fulas
Fulbert
Fulbright
Fulbright Act
Fulcher
Fuld
Fulda
Fulfulde
Fulgencio
Fulgencio Batista
Fulgora
Fulgoridae
Fulgoroidea
Fulgur
Fulham
Fulica
Futurism
Futurist
Fuzzy Zoeller
Fyodorova
Fyffe
Fylde
Fyn
Fyodor
Fyzabad
G
G clef
G star
G string
G suit
G's
G-flat
G-flat major
G-man
G-men
G-note
G-shaped
G-sharp
G-sharp minor
G-string
G-strophanthin
G-suit
G-type
G-type star
GA
GAAP
GAAS
GAB
GADO
GAIA
GAN
GAO
GAR
GARIOA
GAS
GATED
GATT
GATV
GAW
GB
GBA
GBE
GBG
GBH
GBIP
GBJ
GBM
GBS
GBT
GBZ
GC
GCA
GCA radar
GCB
GCC
GCD
GCE
GCF
GCI
GCI radar
GCL
GCM
GCMG
GCR
GCS
GCT
GCVO
GCVS
GD
GDB
GDP
GDR
GDS
GE
GECOS
GECR
GEE navigation
GEIS
GEISCO
GEM
GEMS
GEO
GFCI
GFTU
GG
GGP
GH
GHA
GHQ
GHRS
GHZ
GHz
GI
GI Joe
GI bride
GI can
GI shits
GI'd
GI'ing
GI's
GID
GIF
GIGO
GIN
GISS
Gl
GKS
GKSM
GLC
GLOMR
GM
GM counter
GMB
GMBH
GMC
GMRT
GMT
GMW
GN
GND
GNMA
GNP
GNU
GO
GOC
GOES
GOK
GOP
GOS
GOSIP
GOX
GP
GPC
GPCI
GPD
GPI
GPIB
GPL
GPM
GPO
Galeorhinidae
Galeorhinus
Galer
Galesaurus
Galesburg
Galesville
Galeton
Galeus
Galga
Galgal
Galgulidae
Galibi
Galibis
Galicia
Galician
Galictis
Galidia
Galidictis
Galien
Galik
Galilean
Galilean satellites
Galilean telescope
Galilean transformation
Galilee
Galileo
Galili
Galina
Galinsoga
Galinthias
Galion
Galitea
Galium
Gall
Gall's serrated type
Galla
Gallager
Gallagher
Gallard
Gallas
Gallatin
Gallaudet
Gallaway
Galle
Gallegan
Gallegos
Gallenz
Galleria
Galleriidae
Galley Hill man
Galli
Galli-Curci
Gallia
Gallian
Galliano
Gallic
Gallic Wars
Gallican
Gallican liberties
Gallicanism
Galliccally
Gallice
Gallicisation
Gallicise
Gallicised
Galliciser
Gallicising
Gallicism
Gallicization
Gallicize
Gallicized
Gallicizer
Gallicizing
Gallico
Gallicolae
Gallienus
Galliett
Gallification
Galliformes
Gallify
Galligan
Galligantus
Gallina
Gallinaceae
Gallinacei
Gallinae
Gallinago
Gallinas
Gallinas Point
Gallinula
Gallinulinae
Gallion
Gallipoli
Gallipoli Peninsula
Gallipolis
Gallirallus
Gallitzin
Gallman
Gallo-
Gallo-Rom
Gallo-Romance
Gallo-briton
Gallo-grecian
Gallo-roman
Galloman
Gallomania
Gallomaniac
Galopperdix
Galophile
Galophilism
Galophobe
Galophobia
Gallovian
Galloway
Gallup
Gallup Poll
Gallup poll
Gallupville
Gallus
Gally
Galofalo
Galois
Galois field
Galois theory
Galoisian
Galpagos Islands
Galworthy
Galt
Galton
Galtonia
Galtonian
Galtonian theory
Galuppi
Galusha
Galuth
Galva
Galvan
Galvani
Galven
Galveston
Galveston Bay
Galveston plan
Galvin
Galway
Galways
Galwegian
Gama
Gamages
Gamal
Gamali
Gamaliel
Gamasidae
Gamasoidea
Gamay
Gambart
Gambell
Gamber
Gambetta
Gambi
Gambia
Gambier
Gambier Islands
Gamble
Gambrell
Gambrill
Gambrills
Gambrinus
Gambusia
Gambut
Gamelion
Gamin
Gamma
Gammaridae
Gammarus
Gammelost
Gammexane
Gamolepis
Gamopetalae
Gamp mrs sairey
Gan
Ganado
Ganapati
Gance
Gand
Ganda
Gandeeville
Gander
Gandhara
Gandharan
Gandharva
Gandharva rite
Gandhi
Gandhi cap
Gandhian
Gandhiism
Gandhiist
Gandhism
Gandhist
Gandzha
Ganesa
Ganesha
Gang of Four
Ganga
Ganga jal
Gangamopteris
Ganges
Ganges dolphin
Gangetic
Gangtok
Ganguela
Ganiats
Ganley
Gannes
Gannett
Gannie
Gannon
Gannonga
Ganny
Ganocephala
Ganodonta
Ganodus
Ganoidei
Ganowanian
Gans
Gansevoort
Gant
Gantrisin
Gantt
Ganymeda
Ganymede
Ganymedes
Gao
Gaon
Gaonate
Gaonic
Gaons
Gapa
Gaperon
Gapin
Gapland
Gapville
Gar
Garald
Garamas
Garamond
Garand
Garand rifle
Garardsfort
Garate
Garaway
Garbe
Garber
Garbers
Garberville
Garbo
Garca Lorca
Garceau
Garcia
Garcia-Godoy
Garcia-Inchaustegui
Garciasville
Garcinia
Garcon
Gard
Garda
Gardal
Gardas
Gardel
Gardell
Garden
Garden State
Garden of Eden
Garden state
Gardena
Gardendale
Gardener
Gardenia
Gardenville
Gardia
Gardie
Gardiner
Gardner
Gardners
Gardnerville
Gardol
Gardy
Gare
Garek
Gareri
Gareth
Garett
Garey
Garfield
Garfield Heights
Garfinkel
Gargalianoi
Gargan
Gargantua
Gargantuan
Gargaphia
Garges
Garhwali
Gari
Garibald
Garibaldi
Garibaldian
Garibold
Garibull
Gariepy
Garifalia
Garik
Garin
Garita
Garlaand
Garlan
Garland
Garland sunday
Garlanda
Garlen
Garlic sunday
Garlinda
Garling
Garm
Garmaise
Garment Center
Garment District
Garmisch-Partenkirchen
Garmr
Garmavillo
Garneau
Garner
Gamerville
Garnes
Garnet
Garnett
Garnette
Garo
Garofalo
Garold
Garolde
Garonne
Garoua
Garrard
Garratt
Garratts ville
Garrek
Garret
Garreth
Garrettson
Garrett
Garretsville
Garrick
Garrigues
Garrick
Garris
Garrison
Garrison finish
Garrisonian
Garrisonism
Garrisonville
Garrity
Garrot
Garrott
Garrulinae
Garrulus
Garry
Garry Bjorklund
Garrya
Garryaceae
Garshuni
Garson
Gart
Garter
Garter King of Arms
Garth
Garthrod
Gartner
Garuda
Garv
Garvey
Garvin
Garvy
Garwin
Garwood
Gary
Gary Busey
Gary Gaetti
Gary Redus
Gary Suter
Gary Vitti
Garysburg
Garyville
Garzon
Gasan
Gasburg
Gascogne
Gascoigne
Gascon
Gasconade
Gasconism
Gascony
Gaskell
Gaskill
Gaskin
Gaskins
Gasmata
Gaspar
Gaspard
Gasparo
Gaspe
Gaspe series
Gaspee
Gasper
Gasperi
Gasperoni
Gaspinsula
Gasport
Gasquet
Gass
Gassaway
Gassendi
Gasser
Gasserman
Gassman
Gassville
Gastechoires
Gasterolichenes
Gasteromycetes
Gasterophilus
Gasteropoda
Gasterosteidae
Gasterosteus
Gasterotricha
Gav
Gavan
Gaven
Gavette
Gavia
Gaviæ
Gavialis
Gaviiformes
Gavin
Gavini
Gavle
Gavra
Gavrah
Gavriella
Gavrielle
Gavrila
Gavrilæ
Gaw
Gawain
Gawen
Gawlas
Gawra
Gay
Gay Gordons
Gay Nineties
Gay-Lussac
Gay-Lussac's law
Gay-Pay-Oo
Gay-lussac
Gay-pay-oo
Gaya
Gaye
Gayel
Gayelord
Gayl
Gayla
Gayle
Gayleen
Gaylene
Gayler
Gaylesville
Gaylor
Gaylord
Gaylordsville
Gaylussacia
Gayn
Gayner
Gaynor
Geckotidae
Ged
Gedaliah
Gedankenexperiments
Gemma gum
Geddes
Gederathite
Gederite
Gee
Geechee
Geehan
Geelong
Geelvink Bay
Geer
Geerts
Geesey
Geez
Gefell
Gefen
Geff
Geffner
Gegenschein
Geheimrat
Gehenna
Gehlbach
Gehman
Gehrig
Geibel
Geidar Aliev
Geier
Geiger
Geiger counter
Geiger threshold
Geiger tube
Geiger-Klemperer counter
Geiger-Muller counter
Geiger-counter telescope
Geigertown
Geigy
Geikia
Geikie
Geilich
Geis
Geisel
Geisenheimer
Geismar
Geiss
Geissler tube
Geissoloma
Geissolomataceae
Geissolomataceous
Geissorhiza
Geist
Geistesgeschichte
Geistown
Geithner
Gekko
Gekkones
Gekkonidae
Gekkota
Gel
Gela
Gelanor
Gelasia
Gelasian
Gelasias
Gelasimus
Gelias
Gelaius I
Gelaius II
Gelastocoridae
Gelb
Geldens
Gelderland
Gelechia
Gelechiidae
Gelee
Gelene
Gelett
Gelfomino
Gelhar
Gelibolu
Gelidiaceae
Gelidium
Geller
Gellert
Gellert green
Gelligaer
Gellman
Gelman
Gelonus
Gelsemium
Gelsenkirchen
Gelugpa
Gelya
Gemara
Genetrix
Genetta
Genetyllis
Geneura
Geneva
Geneva Convention
Geneva bands
Geneva bands Geneva cloak
Geneva cross
Geneva gown
Geneva nomenclature
Geneva-cross
Geneva-cross movement
Genevan
Geneve
Genevese
Genevi
Genevieve
Genevois
Genevra
Genf
Genfersee
Geng Biao
Genghis Khan
Gengkow
Genia
Genie
Genipa
Genisia
Genista
Genitrix
Genk
Genl
Genna
Gennaro
Gennevilliers
Genni
Gennie
Gennifer
Genny
Geno
Genoa
Genoa cake
Genoa jib
Genoese
Genoese lottery
Genolla
Genova
Genovera
Genovese
Genoveva
Gensan
Genseric
Gensler
Gensmer
Gent
Gentes
Gentiana
Gentianaceae
Gentianales
Gentile
Gentilis
Gentille
Gentleman Usher of the Black Rod
Gentoo
Gentooes
Gentry
Gentryville
Genucius
Genvieve
Genyophrynidae
Geo
Geococcyx
Geof
Geoff
Geoff Bodine
Geoff Huston
Geoffrey
Geoffrey of Monmouth
Geoffry
Geoglossaceae
Geoglossum
GeolE
Geometridae
Geometrina
Geometroidea
Geomyidae
Geomys
Geon
Geonic
Geonim
Geonoma
Geonoma
Geophilia
Geophilidae
Geophilus
Geophone
Georgette
Georgette crepe
Georgi
Georgi Dimitrov
Georgia
Georgia bark
Georgia pine
Georgian
Georgian Bay
Georgiana
Georgianna
Georgianne
Georgics, The
Georgie
Georgina
Georgine
Georgius
Georgiana
Georgy
Georgy Arbatov
Georgy Beregovoy
Georgy Dobrovolsky
Geospiza
Geoteuthis
Geothlypis
Gepeoo
Gephyrea
Gepidae
Gepp
Ger
Gera
Geraint
Gerald
Gerald Baliles
Geralda
Geraldina
Geraldine
Geraldton
Geraniaceae
Geraniales
Geranium
Geranomorphae
Gerar
Gerard
Gerardo
Gerasene
Geraud
Gerbatka
Gerber
Gerbera
Gerberia
Gerbillinae
Gerbillus
Gerbold
Gerd
Gerd Heidemann
Gerda
Gerdeen
Gerdi
Gerdie
Gerdy
Gerdye
Gere
Gerek
Gerelde
Gereron
Gerfen
Gerge
Gerger
Gerhan
Gerhard
Gerhard Aigner
Gerhard Gesell
Gerhard Jahn
Gerhardine
Gerhardt
Gerhardus
Gerhart
Gerhart Eisler
Geri
Gerianna
Gerianne
Gericault
Gerick
Gerik
Gering
Gerita
Gerius
Gerkmann
Gerlac
Gerlach
Gerlacovka
Gerladina
Gerlaw
Germain
Germaine
German
German Africa
German Baptist
German Baptist Brethren
German Democratic Republic
German East Africa
German Ocean
German Riesco
German band
German camomile
German catchfly
German coach horse
German cockroach
German ivy
German knot
German lapis
German measles
German police dog
German shepherd
German shepherd dog
German short-haired pointer
German siding
German silver
German sixth
German text
German tinder
German wire-haired pointer
German-american
German-built
German-english
German-french
German-hungarian
German-italian
German-jewish
German-made
German-owned
German-palatine
German-speaking
German-swiss
Germana
Germanesque
Germanhood
Germania
Germanic
Germanic deities
Germanical
Germanically
Germanics
Germanicus Caesar
Germanification
Germanify
Germanisation
Germanise
Germanised
Germaniser
Germanish
Germanising
Germanism
Germanist
Germanistic
Germanity
Germanization
Germanize
Germanized
Germanizer
Germanizing
Germanly
Germann
Germanness
Germano
Germanocentric
Germanomania
Germanomaniac
Germanophile
Germanophiliast
Germanophobe
Germanophobia
Germanophobic
Germanophobist
Germansville
Germanton
Germantown
Germany
Germaun
Germayne
Germin
Germinal
Germiston
Gernhard
Gerome
Gera
Geronimo
Geronomite
Gerousia
Gerrald
Gerrard
Gerrardstown
Gerres
Gerrhosauridae
Gerri
Gerridae
Gerrie
Gerrilee
Gerrit
Gerry
Gers
Gersam
Gersham
Gershom
Gershon
Gershwin
Gerson
Gerstein
Gerstner
Gert
Gerta
Gerti
Gertie
Gerton
Gertrud
Gertruda
Gertrude
Gertrude Elion
Gertrudis
Gerty
Gerusalemme Liberata
Gerusia
Gervais
Gervas
Gervase
Gery
Gerygone
Geryon
Geryoneo
Geryones
Geryonia
Geryonidae
Geryoniidae
Gerzean
Ges
Gesan
Gesell
Gesell's development schedule
Gesellschaft
Geshurites
Gesner
Gesnera
Gesneraceae
Gesneria
Gesneriaceae
Gesnerian
Gessen
Gessner
Gesta Romanorum
Gestalt
Gestalt psychology
Gestalt school
Gestapo
Gesualdo
Getae
Geth
Gethsemam
Gethsemam cheese
Gethsemamonic
Getic
Getraer
Getsul
Getter
Gettings
Getty
Gettysburg
Gettysburg Address
Getzville
Geulincx
Geullah
Geum
Gev
Gevaert
Gewirtz
Gewrztaminer
Gex
Geyserville
Gezer
Gezira
Ggora y Argote
Ghan
Ghana
Ghanaian
Ghanian
Ghardaia
Ghassan
Ghassanid
Ghats
Ghazali
Ghaznevid
Ghazzah
Ghazzali
Gheber
Ghedda
Ghedda wax
Gheen
Gheens
Gheg
Ghegish
Ghelderode
Ghent
Gheorghe
Gherardi
Gherardo
Gherlein
Ghibelline
Ghibellinism
Ghiberti
Ghilzai
Ghiordes
Ghiordes knot
Ghirlandaio
Ghirlandajo
Ghiselin
Gholam Reza Azhari
Ghosts
Ghuz
Gi
Gia Lam
Gia Nghia
Giacamo
Giacinta
Giacobo
Giacometti
Giacomo
Giacomuzzo
Giacopo
Giai
Giaimo
Giamo
Gian
Giana
Gianina
Gianna
Gianni
Giannini
Giansar
Giant hunter
Giant killer
Giant's Causeway
Giardia
Giarla
Giauque
Giavani
Gib
Gibb
Gibbeon
Gibberella
Gibbi
Gibbie
Gibbon
Gibbons
Gibbonsville
Gibbs
Gibbs free energy
Gibbs function
Gibbsboro
Gibbstown
Gibby
Gibe
Gibeon
Gibeonite
Gibert
Gibil
Giboulee
Gibraltar
Gibran
Gibrian
Gibsland
Gibson
Gibson Desert
Gibson girl
Gibsonburg
Gibsonia
Gibsonton
Gibsonville
Gibun
Giddings
Gide
Gideon
Gideon Bible
Gideon Society
Gillenia
Gilleod
Gilles
Gilles Meloche
Gillespie
Gillett
Gilletta
Gillette
Gilley
Gillham
Gilli
Gilliam
Gillian
Gillian
Gillie
Gillie callum
Gilliette
Gilligan
Gillingham
Gillman
Gillmore
Gillray
Gillsville
Gilly
Gilman
Gilmanton
Gilmer
Gilmore
Gilmour
Gilolo
Gilpin
Gilroy
Gilson
Golsonite
Gilsum
Giltner
Giltzow
Gilud
Gilus
Gimbel
Gimble
Gimirra
Gimpel
Gina
Ginder
Gine
Ginelle
Ginevra
Ginevra
Ginglymodi
Ginglymostoma
Gingras
Ginkgo
Ginkgoaceae
Ginkgoales
Ginn
Ginni
Ginnie
Ginnie Mae
Ginnifer
Ginnungagap
Ginny
Gino
Gino Cavallini
Ginsberg
Ginsburg
Gintz
Ginza
Ginzberg
Ginzburg
Gio
Gioconda
Gioconda La
Giono
Giordano
Giorgi
Giorgi system
Giorgia
Giorgio
Giorgio Amendola
Giorgio Borghetti
Giorgio de Chirico
Giorgione
Giornale d'Italia
Giottesque
Giotto
Giovanna
Giovanni
Giovanni Arnolfini and His Bride
Giovanni Benelli
Giovannida
Gipps
Gippsland
Gippy
Gipsies
Gipson
Gipsy
Girafano
Giraffa
Giraffidae
Giralda
Giraldo
Giraldus Cambrensis
Girand
Girard
Girardi
Girardo
Giraud
Giraudoux
Girdler
Girdletree
Girdwood
Girella
Girellidae
Girgashite
Girgasite
Girgenti
Girhiny
Girish
Girl Guide
Girl Scout
Girl of the Golden West, The
Girolamo
Gironde
Girondin
Girondism
Girondist
Girovard
Girru
Girtin
Giruwa
Girvin
Girzfelden
Gisborne
Giscard d'Estaing
Gisela
Giselbert
Gisele
Gisella
Giselle
Gish
Gish Bar
Gishzida
Gisser
Gissing
Glad Tidings
Gladbeck
Gladbrook
Gladdie
Gladdy
Gladeville
Gladewater
Gladi
Gladine
Gladis
Gladsheim
Gladstone
Gladstone bag
Gladstone claret
Gladstone wine
Gladstonian
Gladstonianism
Gladwin
Gladwyne
Glad
Gladys
Glafercos Clerides
Glagol
Glagolic
Glagolitic
Glagolitsa
Glaisher
Glamorgan
Glamorganshire
Glan-Thompson prism
Glandorf
Glaniostomi
Glint
Glanz
Glanville
Glareola
Glareolidae
Glarum
Glarus
Glasco
Glaser
Glaserian
Glasford
Glasgo
Glasgow
Glaspell
Glass
Glass Menagerie, The
Glassboro
Glassco
Glasser
Glassite
Glassman
Glassport
Glasston
Glastonbury
Glastonbury chair
Glaswegian
Glaithsheim
Glaithsheimr
Glauber salt
Glauber's salt
Glauc
glaucia
glaucidium
Glaucionetta
Glaucium
Glaucomys
Glaucocystes
Glaucocystidae
Glaucopsis
Glaucus
Glaudia
Glauke
Glau
Glavin
glazunoff
Glazunov
Gld
Gle
Gleason
Glecoma
Gleda
Gleditsia
Glee
Gleeson
Gleich
Gleipnir
Gleiwitz
Gleizes
Glek Bogaz
Glen
Glen Albyn
Glen Beall
Glen Cove
Glen More
Glenmorgan
Glenn
Glenna
Glenallen
Glenndale
Glennie
Glennie
Glennon
Glennville
Glenolden
Glenoma
Glenpool
Glenrio
Glenrose
Glenrothes
Glens Falls
Glenshaw
Glenside
Glenspey
Glentana
Glenullin
Glenus
Glenvock
Glengil
Glencastle
Glencolmcille
Glencruan
Glencullen
Glencullen
Glencullish
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencullen
Glencull
Glivare
Gliewice
Globe
Globe Theatre
Globicephala
Globigerina
Globigerinidae
Globiocephalus
Globularia
Globulariaceae
Gloeocapsa
Gloeosporium
Glogau
GloiopeLTis
Gloiosiphonia
Gloiosiphoniaceae
Glomerella
Glomma
Glooscap
Glori
Gloria
Gloria Patri
Gloria in Excelsis
Gloria in Excelsis Deo
Gloriana
Gloriane
Gloriann
Glorianna
Glorie
Glorieta
Gloriosa
Glorious Revolution
Glorious Twelfth
Glory
Glos
Glossa
Glossata
Glossina
Glossiphonia
Glossiphonidae
Glossophaga
Glossophora
Glossopteris
Glossotherium
Gloster
Gloucester
Gloucester cheese
Gloucestershire
Gobioidea
Gobioidei
Gobler
Gobles
Goclenian
Goclenian sorites
Goclenius
God
God Almighty
God bless
God bless me
God bless you
God damn it
God forbid
God grant
God knows
God knows where
God only knows
God save
God the Father
God the Holy Ghost
God the Son
God tree
God willing
God's Word
God's acre
God's board
God's country
God's eldest daughter
God's first creature
God's handwriting
God's image
God's kingdom
God's mark
God's penny
God's plenty
God's presence
God's residence
God's second mistake
God's throne
God's truth
God's will
God-adoring
God-awful
God-begot
God-begotten
God-beloved
God-bless
God-built
God-conscious
God-consciousness
God-created
God-cursed
God-descended
God-empowered
God-enlightened
God-entrusted
God-fearing
God-fearing man
God-forbidden
God-forgetting
God-forgotten
God-given
God-inspired
God-loved
God-loving
God-made
God-man
God-manhood
God-men
God-ordained
God-seeing
God-sent
God-sped
God-taught
God-wrought
Goda
Goddard
Godart
Godavari
Godbeare
Godber
Goddam
Goddard
Goddart
Godden
Godderd
Godding
Goddord
Godefroy
Godefroy de Bouillon
Godel
Godel’s proof
Goderich
Godesberg
Godetia
Godewyn
Godey
Godforsaken
Godfree
Godfrey
Godfrey Binaisa
Godfry
Godful
Godhead
Godin
Godiva
Godley
Godliman
Godolias
Godolphin
Godowsky
Godred
Godric
Godrich
Gods
Godsake
Godspeed
Godthaab
Godunov
Godward
Godwards
Godwin
Godwin Austen
Godwine
Godwinian
Goebbels
Goebel
Goeger
Goehner
Goemagot
Goemot
Goer
Goering
Goerke
Goerlitz
Goes
Goeselt
Goessel
Goetae
Goethals
Goethe
Goethean
Goethian
Goetz
Goetzville
Goff
Goffstown
Gog
Gog and Magog
Goggin
Gogh
Goglidze
Gogo
Gogol
Gogra
Gohel rajput
Gohila
Goiania
Goias
Goibniu
Goico
Goidel
Goidelic
Goines
Going
Gokey
Gokuraku
Gola
Golanka
Golaseccan
Golconda
Gold
Gold Bug, The
Gold Coast
Gold Stick
Golda
Goldarina
Goldbach conjecture
Goldbach's conjecture
Goldbar
Goldberg
Goldberg Variations
Goldbird
Goldbond
Golden
Golden Age
Golden Ass, The
Golden Bough
Golden Bough, The
Golden Bowl, The
Golden Bull
Golden Delicious
Golden Fleece
Golden Gate
Golden Gate Bridge
Golden Horde
Golden Horn
Golden Legend
Golden State
Golden Twenties
Goldenberg
Goldendale
Goldenmouth
Goldfarb
Goldfield
Goldfinch
Goldi
Goldia
Goldic
Goldie
Goldin
Goldina
Golding
Goldman
Goldmark
Goldner
Goldoni
Goldonian
Goldonna
Goldovsky
Goldrun
Goldsboro
Goldschmidt
Goldshell
Goldshlag
Goldsmith
Goldstein
Goldstein-Sheerer test
Goldstine
Goldston
Goldsworthy
Goldthwaite
Goldvein
Goldwasser
Goldwater
Goldwin
Goldwyn
Goldwynism
Goldy
Goles
Goleta
Golf Manor
Golfe du Lion
Golgi
Golgi apparatus
Golgi body
Golgotha
Goliad
Goliard
Goliardic verse
Goliath
Golightly
Goll
Gollin
Golliner
Golo
Golschmann
Golter
Goltry
Golts
Goltz
Golub
Golva
Goma
Gomar
Gomarian
Gomarist
Gomarite
Gombach
Gomberg
Gombosi
Gomeisa
Gomel
Gomer
Gomez
Gomontia
Gomorrah
Gomorrean
Gomorrrha
Gomorrhean
Gompers
Gomphocarpus
Gompholobium
Gomphrena
Gomulka
Gona
Gonagle
Good
Good Book
Good Book, the
Good Earth, The
Good Friday
Good Hope
Good King Henry
Good Neighbor Policy
Good News
Good Samaritan
Good Shepherd
Good Tidings
Good conduct medal
Good friday
Good-King-Henries
Good-King-Henry
Good-friday grass
Good-king-henry
Goodacre
Goodard
Goodden
Goode
Goodell
Goodenia
Goodeniaceae
Goodenoviaceae
Goodfield
Goodhen
Goodhope
Goodhue
Goodill
Gooding
Goodkin
Goodland
Goodlettsville
Goodman
Goodrich
Goodrow
Goodson
Goodspeed
Goodview
Goodville
Goodwater
Goodway
Goodwell
Goodwin
Goodwin Sands
Goodwine
Goody
Goodyear
Goodyera
Googins
Goole
Goop
Goose Bay
Goossens
Gopher State
Gor
Gora
Gorakhpur
Goran
Goran Ivanisevic
Goraud
Gorbals
Gorboduc
Gorchakov
Gord
Gord Kluzak
Gordan
Gorden
Gordiacea
Gordian
Gordian knot
Gordie
Gordiidae
Gordioidea
Gordius
Gordo
Gordon
Gordon setter
Gordonia
Gordonsville
Gordonville
Gordy
Gordyaean
Gore
Goree
Goren
Goreville
Gorey
Gorga
Gorgas
Gorges
Gorgias
Gorgon
Gorgon-headed
Gottfried
Gottfried von Strassburg
Gotthard
Gotthelf
Gottingen
Gottland
Gottlander
Gottlieb
Gottschalk
Gottward
Gottwald
Gotz
Goucher
Gouda
Gouda cheese
Goudeau
Goudy
Gough
Goujon
Gould
Gouldbusk
Goulden
Goulder
Goulds
Gouldsboro
Goulet
Goulette
Gounod
Goura
Gourdine
Gourinae
Gourmont
Gournay
Gournia
Gouverneur
Gov
Gove
Governador Valadares
Government Operations
Government Printing Office
Governor Winthrop desk
Governors Island
Govt
Gow
Gowanda
Gowen
Gower
Gowon
Gowrie
Goya
Goyana
Goyen
Goyetian
GpE
Gr
Graaf
Graaff de Villiers
Graffian
Graffian follicle
Grabill
Gracchus
Grace
Gracemont
Graces
Graces, the
Graceville
Graceywood
Gracey
Gracia
Gracie
Gracilaria
Graciliariidae
Graculus
Gracey
Grade A
Grade B movie
Gradeigh
Gradey
Gradgrind
Gradgrindian
Gradgrindish
Gradgrindism
Gradientia
Grados
Gradual
Grady
Gradyville
Grae
Graeae
Graecia Magna
Graecise
Graecised
Graecising
Graecism
Graecize
Graecized
Grammontine
Grammos
Gramont
Gramophone
Grampian
Grampian Hills
Grampian Mountains
Grampian Region
Grampians
Gran
Gran Canaria
Gran Chaco
Gran Paradiso
Gran chimu
Grana
Grana Lombardo
Grana Reggiano
Granada
Granadine
Granados
Granbury
Granby
Grand
Grand Army of the Republic
Grand Bahama
Grand Bank
Grand Banks
Grand Canal
Grand Canary
Grand Canyon
Grand Canyon National Park
Grand Champagne
Grand Coulee
Grand Duchy of Moscow
Grand Duchy of Muscovy
Grand Duke Jean
Grand Falls
Grand Fine Champagne
Grand Forks
Grand Guignol
Grand Island
Grand Lama
Grand Ledge
Grand Manan
Grand Marais
Grand Marnier
Grand Master
Grand Mufti
Grand National
Grand National Assembly
Grand Old Party
Grand Penitentiary
Grand Pr
Grand Prairie
Grand Prix
Grand Prixes
Grand Rapids
Grand Remonstrance
Grand River
Grand Teton National Park
Grand Turk
Grand guignol
Grand-guignolism
Grande
Grande Chartreuse, La
Grande Jatte, La
Grande Prairie
Grande-Terre
Grandgent
Grandisonian
Grandisonianism
Grandma Moses
Grandmontine
Grands Prix
Grandview
Grandview Heights
Grandville
Grane
Graner
Granese
Grange
Grangemouth
Granger
Grangerville
Grangousier
Grani
Grania
Graniah
Granicus
Granicus River
Graniela
Granite State
Granite city
Graniteville
Granjon
Granlund
Grannia
Grannah
Grannias
Grannie
Grannis
Granny
Granny Smith
Granoff
Granolith
Granollers
Grant
Grant Fuhr
Grant Gondrezick
Grant Sahib
Granta
Granth
Grantha
Grantham
Granthem
Grantia
Grantiidae
Grantland
Grantley
Granton
Grantorto
Grants
Grants Pass
Grantsboro
Grantsburg
Grantsdale
Grantsville
Granttown
Grantville
Granville
Granville-Barker
Grapeland
Grapes of Wrath, The
Grapeview
Grapeville
Grapevine
Graphalloy
Graphidiaceae
Graphiola
Graphis
Graphium
Graphophone
Graphotype
Grappelli
Grapsidæ
Grapsus
Grapta
Graptolitha
Graptolithida
Graptolithina
Graptolithoidea
Graptoloidea
Grahamere
Grasonville
Grass
Grasse
Grassi
Grassman
Grassman's law
Grassmann's law
Grasston
Grata
Grath
Grati
Gratia
Gratia dei
Gratiae
Gratian
Gratiana
Gratianna
Gratiano
Gratiola
Gratiot
Graton
Gratt
Grattan
Gratz
Grau San Martin
Graubden
Graubert
Graubunden
Graustark
Graustarkian
Gravanter
Gravelly
Gravenhage
Gravenstein
Graves
Graves' disease
Gravesend
Gravette
Gravettian
Gravigrada
Gravity
Gravolet
Grawn
Gray
Gray Friar
Gray Lady
Gray code
Gray's Inn
Graybill
Grayce
Graycourt
Graydon
Grayland
Grayling
Graymont
Grayslake
Grayson
Grayson lily
Graysville
Graytown
Grayville
Graz
Grazia
Greabe
Grearson
Great
Great Abaco
Great Ajax
Great Australian Bight
Great Awakening
Great Barrier Reef
Great Barrington
Great Basin
Great Bear
Great Bear Lake
Great Belt
Great Bend
Great Britain
Great Daedala
Great Dane
Great Depression
Great Divide
Great Dividing Range
Great Dog
Great Entrance
Great Expectations
Great Falls
Great Gatsby, The
Great Glen
Great God Brown, The
Great Idaean Mother
Great Indian Desert
Great Karoo
Great Khingan
Great Lakes
Great Leap Forward
Great Miami
Great Mogul
Great Mother
Great Neck Estates
Great Neck Plaza
Great Ouse
Great People's Khural
Great Plague
Great Plains
Great Power
Great Pyrenees
Great Rebellion
Great Rift Valley
Great Russian
Great Salt Desert
Great Salt Lake
Great Sandy Desert
Great Sanhedrin
Great Schism
Great Scott
Great Slave Lake
Great Slave River
Great Smokies
Great Smoky Mountains
Great Society
Great Spirit
Great St Bernard Pass
Great Sunday
Great Synagogue
Great Trek
Great Unwashed
Great Victoria Desert
Great Vowel Shift
Great Wall of China
Great War
Great Week
Great White Father
Great White Way
Great Yarmouth
Great and General Council
Great sunday
Great-Power
Greater
Greater Antilles
Greater London
Greater Manchester
Greater Sunda Islands
Greats
Greb
Grebenau
Grebo
Grecia
Grecian
Grecian bend
Grecian profile
Grecianize
Grecise
Grecised
Grecising
Grecism
Grecize
Grecized
Grecizing
Greco
Greco-
Greco-Italic
Greco-Persian Wars
Greco-Roman
Greco-Roman wrestling
Greco-american
Greco-asiatric
Greco-buddhist
Greco-bulgarian
Greco-cretan
Greco-egyptian
Greco-hispanic
Greco-iberian
Greco-latin
Greco-macedonian
Greco-mohammedan
Greco-oriental
Greco-persian
Greco-phoenician
Greco-phrygian
Greco-punic
Greco-roman
Greco-sicilian
Greco-trojan
Greco-turkish
Grecomania
Grecomaniac
Grecophil
Gredel
Greece
Greek
Greek Anthology, The
Greek Catholic
Greek Church
Greek Corinthian
Greek Ionic
Greek Kalends
Greek Orthodox
Greek Orthodox Church
Greek Revival
Greek Revivalism
Greek Revivalist
Greek bread
Greek calends
Greek cross
Greek fire
Greek gods
Greek juniper
Greek lace
Greek modes
Greek point
Greek rite
Greek theater
Greek to one
Greek tragedy
Greek valerian
Greek-cross plan
Greek-letter fraternity
Greek-letter society
Greek-letter sorority
Greekdom
Greekery
Greckess
Greckish
Greekism
Greekist
Greekize
Greekless
Greckling
Greeley
Greeleyville
Greenland
Greenland Sea
Greenland whale
Greenland's icy mountains
Greenlander
Greenlandic
Greenlandish
Greenlandman
Greenlane
Greenlawn
Greenleaf
Greenlee
Greenman
Greenock
Greenough
Greenport
Greenquist
Greensboro
Greensburg
Greensea
Greenstein
Greentown
Greentree
Greenup
Greenvale
Greenview
Greenville
Greenville North
Greenwald
Greenway
Greenwell
Greenwich
Greenwich Mean Time
Greenwich Time
Greenwich Village
Greenwich civil time
Greenwich hour angle
Greenwich mean time
Greenwich stars
Greenwich time
Greenwich village
Greenwood
Greer
Greerson
Greeson
Greife
Grefer
Greff
Gregory XII
Gregory XIII
Gregory XIV
Gregory XV
Gregory XVI
Gregory of Nazianzus
Gregory of Nyssa
Gregory of Tours
Gregory
Gregson
Greig
Greimmerath
Greiner
Grekin
Grenache
Grenada
Grenadian
Grenadier Guards
Grenadines
Grendel
Grenelle
Grenelle man
Grenet battery
Grenfell
Grenier
Grenloch
Grenoble
Grenola
Grenora
Grenville
Grenz ray
Gresham
Gresham's law
Gressoria
Greta
Gretal
Gretchen
Grete
Gretel
Grethel
Gretta
Gretelna
Gretelna Green
Gretelna Green wedding
Gretelna green
Gretelna green marriage
Gretry
Gretta
Greuze
Grosse Tete
Grosseile
Grosset
Grosseteste
Grossetete
Grossman
Gossularia
Gossulariaceae
Grosswardein
Grosvenor
Grosvenor Square
Grosvenordale
Grosz
Grote
Grotesk
Grotewohl
Grotian
Grotianism
Grotius
Groton
Grottoes
Grouchyl
Ground Observer Corps
Groundhog Day
Grounds
Grous
Grove
Groveland
Grovesman
Grover
Grovertown
Groves
Groveton
Grovetown
Grow
Growth of the Soil
Grozy
Grub Street
Grub Street writer
Grub street
Grubb
Grubbs
Grube
Gruber
Grubman
Grubrus
Grubstreet
Grubville
Gtersloh
Gtingen
Guachanama
Guacho
Guacico
Guadagnini
Guadalajara
Guadalcanal
Guadalquivir
Guadalupe
Guadalupe Hidalgo
Guadalupe Mountains
Guadalupe palm
Guadalupita
Guadeloup
Guadeloupe
Guadiana
Guafo
Guage
Guaharibo
Guahiban
Guahibo
Guahivo
Guaira
Guajira Peninsula
Gualaca
Gualala
Gualterio
Gualtiero
Guam
Guamanian
Guana
Guanabara
Guanajuato
Guanche
Guanica
Guantanamo
Guantanamo
Guapot
Guapoto
Guaque
Guarani
Guaranian
Guaranies
Guaranis
Guaraunan
Guarauno
Guardafui
Guardi
Guardia
Guardia Calderon
Guards
Guarea
Guarini
Guarino
Guarneri
Guarnerius
Guarneriuses
Guarnieri
Guarrau
Guaruan
Guastalline
Guasti
Guat
Guatemala
Guatemala City
Guatemalan
Guatemaltecan
Guato
Guatoan
Guatusan
Guatuso
Guauaenok
Guayama
Guayaniil
Guayanilla
Guayaqui
Guayaquil
Guaycuru
Guaycuruan
Guaymas
Guaymie
Guaynabo
Guayule
Guazuma
Gubbin
Gubbrud
Gude
Gudea
Gudermannian
Gudmundsson
Gudren
Gudrin
Gudrun
Gudrun Ensslin
Guedalla
Guelders
Guelf
Guelfic
Guelfism
Guelph
Guelphic
Guelphish
Guelphishm
Guendolen
Guenevere
Guenna
Guenther
Guenzi
Guerche
Gueret
Guericke
Guerickian
Guerin
Guerinet
Guerneville
Guernica
Guernsey
Guernsey lily
Guernseys
Guerra
Guerrant
Guerrero
Guesde
Guesdism
Guesdist
Guest
Guestling
Guetar
Guetare
Gueux
Guevara
Guevarist
Gueydan
Guffey
Guggenheim
Guggenheim Museum
Guglielma
Guglielmo
Guha
Guhayna
Gui
Guiana
Guiana current
Guinn
Guinna
Guinness
Guion
Guipuzcoa
Guiraldes
Guisard
Guiscard
Guise
Guisian
Guitry
Guittonian
Guizot
Gujar
Gujarat
Gujarat States
Gujarati
Gujerat
Gujral
Gujranwala
Gujrati
Gula
Gulag
Gulanganes
Gulbenkian
Gulf
Gulf Intracoastal Waterway
Gulf States
Gulf Stream
Gulf Stream system
Gulf Stream, The
Gulf of Aegina
Gulf of Campeche
Gulf of Chohli
Gulf of Lepanto
Gulf of Tatary
Gulf stream
Gulfhammock
Gulfport
Gulgee
Gulick
Gullah
Gulliver
Gulliver's Travels
Gullstrand
Gulo
Gulston
Gulzari Lal Nanda
Gum
Gum gedda
Gumberry
Gumbo
Gumpoldskirchner
Gun
Gunar
Gunas
Gunderson
Gundry
Gunilla
Gunite
Gunlock
Gunn
Gunnar
Gunner
Gunnera
Gunneraceae
Gunning
Gunnison
Gunpowder Plot
Guntar
Gunter
Gunter's chain
Gunter's scale
Guntersville
Gunthar
Gunther
Guntown
Guntur
Gunz
Gunz-mindel
Gunzburg
Gunzian
Gupta
Gur
Gurabo
Guran
Gurango
Gurdon
Gurevich
Guria
Gurian
Gurias
Guric
Gurish
Gurjara
Gurkha
Gurkhali
Gurkhas
Gurl
Gurley
Gurmukhi
Gurnee
Gurney
Gurneyite
Gurolinick
Gursel
Gurtner
Gus
Gusba
Gusella
Gush Emunim
Gusher
Guss
Gussi
Gussie
Gussman
Gussy
Gusta
Gustaf
Gustaf V
Gustafson
Gustafsson
Gustav
Gustav V
Gustav VI
Gustave
Gustavo
Gustavo A Madero
Gustavo Cartagena
Gustavo Dias Ordaz
Gustavus
Gustavus Adolphus
Gustavus I
Gustavus II
Gustavus III
Gustavus IV
Gustavus V
Gustavus VI
Gusti
Gustie
Gustin
Gustine
Guston
Gusttav Husak
Gustus
Gusty
Gut
Gut of Canso
Gutenberg
Gutenberg Bible
Guthrey
Guthrie
Guthrun
Guthry
Guti
Gutium
Gutnic
Gutnish
Gutow
Guttenberg
Guttera
Guttery
Guttiferae
Guttiferales
Guy
Guy Carbonneau
Guy Fawkes Day
Guy Forget
Guy Lafleur
Guy Lapointe
Guyana
Guyandot
Guyenne
Guyer
Guymon
Guyon
Guys
Guysville
Guyton
Guzel
Guzman
Guzmania
Guzmco
Guzul
Gw
Gwalior
Gwari
Gwaris
Gwawl
Gwelo
Gwen
Gwenda
Gymnoblastea
Gymnocalyctium
Gymnocerata
Gymnocladus
Gymnoconia
Gymnoderinae
Gymnodinium
Gymnodontes
Gymnoglossa
Gymnogyps
Gymnolaema
Gymnolaemata
Gymnonoti
Gymnopaeides
Gymnorhina
Gymnorhininae
Gymnospermeae
Gymnospermous
Gymnosporangium
Gymnostomata
Gymnostomina
Gymnothorax
Gymnotidae
Gymnotoka
Gymnotus
Gymnura
Gymnurinae
Gynaecothoenas
Gynandria
Gynergen
Gynemium
Gynura
Gyor
Gypaetus
Gyppaz
Gyppo
Gyps
Gypsie
Gypsies
Gypsophila
Gypsy
Gyracanthus
Gyrencephala
Gyrinidae
Gyrinus
Gyro Flux Gate
Habib Bourguiba
Habib Chatti
Habiri
Habiru
Habronema
Habsburg
Hach
Hachem Bey el Atassi
Hachijo Jima
Hachiman
Hachita
Hachman
Hachmann
Hachmin
Hackathorn
Hackensack
Hacker
Hackett
Hackettstown
Hackleburg
Hackney
Hackney pony
Had
Hadamard
Hadar
Hadas
Hadassah
Hadasseh
Haddad
Haddam
Hadden
Haddington
Haddix
Haddon
Haddon Heights
Haddonfield
Hadean
Haden
Hadendoo
Hadendowa
Hadensville
Hadensville
Hadentomoidea
Hades
Hadfield
Hadhramaut
Hadhramautian
Hadik
Hadith
Hadjemi
Hadjipanos
Hadlee
Hadleigh
Hadley
Hadley chest
Hadlock
Hadlyme
Hadramaut
Hadramautian
Hadria
Hadrian
Hadrian I
Hadrian II
Hadrian III
Hadrian IV
Hadrian V
Hadrian VI
Hadrian's Wall
Hadromerina
Hadrosaurus
Hadsall
Hadwin
Hadwyn
Haeckel
Haeckelian
Haeckelism
Haeju
Haemamoeba
Haemanthus
Haemaphysalis
Haematobranchia
Haematocrya
Haematophilina
Haematopus
Haematotherma
Haematoxylon
Haemodoraceae
Haemogregarina
Haemogregarinidae
Haemon
Haemonchus
Haemoproteus
Haemopsporidia
Haemopsporidium
Haemulidae
Haemus
Haemus Mountains
Hahnke
Hahnville
Haiathalah
Haida
Haidan
Haidar Ali
Haidarabad
Haidas
Haidee
Haidinger
Haidinger fringes
Haiduk
Haifa
Haig
Haigler
Haikh
Hail Columbia
Hail Mary
Haile
Haile Selassie
Hailee
Hailesboro
Hailey
Haileyville
Hailsham
Hailwood
Haily
Haim
Haimanta series
Haimavati
Haines
Hainai
Hainan
Hainanese
Hainaut
Haines
Hainesport
Haiphong
Hairy Ape, The
Haise
Haisla
Haithal
Haiti
Haitian
Haitian Creole
Haitink
Haj Amin el Husseini
Hak
Hakai
Hakalau
Hakan
Hakan Loob
Hake
Hakea
Hakeem
Hakenkreuz
Hakenkreuze
Hakenkreuzler
Hakim
Hakka
Hakluyt
Hako
Hakodate
Hakon
Hakone
Hal
Halachah
Halachas
Halachic
Halachot
Halaf
Halafian
Halakah
Halakahs
Halakic
Halakoth
Haland
Halawi
Halbe
Halbeib
Halbert
Halbur
Halcottsville
Haleyon
Haleyone
Haleyonidae
Haleyoninae
Haldah
Haldan
Haldane
Haldanite
Haldas
Haldeman
Halden
Haldes
Haldi
Haldis
Hale
Haleakala
Halecomorphi
Haledon
Haleigh
Haleiwa
Halemaumau
Halenia
Hales Corners
Halesia
Halesowen
Haletky
Haletta
Halette
Halevi
Haley
Haleyville
Half Moon
Half-american
Half-americanized
Half-anglicized
Half-aristotelian
Half-asiatic
Half-christian
Half-confederate
Half-creole
Half-elizabethan
Half-english
Half-french
Half-german
Half-grecized
Half-hessian
Half-irish
Half-latinized
Half-mexican
Half-mohammedan
Half-moslem
Half-oriental
Half-russian
Half-scottish
Half-semitic
Half-shakespearean
Half-spanish
Halfdan
Halfon
Halford
Halfway
Hali
Haliaeetus
Halicarnassean
Halicarnassian
Halicarnassus
Halichondriae
Halicore
Halicoridae
Halie
Halifax
Halifax Day
Halgonian
Halim Khaddam
Halima
Halimeda
Haliotidae
Haliotis
Haliplidae
Halirrhothius
Haliserites
Halitheriidae
Halitherium
Halitherses
Haliver
Haliver Oil
Hall
Hall effect
Hall of Fame
Hall-Jones
Halla
Hallagan
Hallam
Halland
Hallandale
Halle
Halle an der Saale
Halleck
Hallee
Hallel
Haller
Hallerson
Hallett
Halette
Halletsville
Halley
Halley's Comet
Halleyan
Halli
Halliday
Hallie
Hallieford
Halliwell
Hallock
Hallopidae
Hallopus
Hallouf
Hallowday
Hallowe'en
Halloween
Hallowell
Hallowmas
Hallowtide
Halls
Hallsboro
Hallstadt
Hallstadtan
Hallstatt
Hallstattan
Hallstattian
Hallstead
Hallsville
Hallsy
Halltown
Hallvard
Hallwachs' effect
Hallwood
Hally
Halma
Halmalheira
Halmahera
Halmstad
Haloa
Halobates
Halocynthiidae
Halogleton
Halona
Halonna
Halopsycha
Halopsychidae
Haloragidaceae
Halosauridae
Halosaurus
Halosphaera
Halpern
Hals
Hamhung
Hamid
Hamidian
Hamidieh
Hamil
Hamilcar Barca
Hamilton
Hamilton Inlet
Hamilton Jordan
Hamiltonian
Hamiltonianism
Hamiltonism
Hamish
Hamital
Hamite
Hamites
Hamitic
Hamiticized
Hamitism
Hamito-Semitic
Hamito-negro
Hamito-semitic
Hamitoid
Hamlani
Hammen
Hamlet
Hamletsburg
Hamlin
Hamm
Hammad
Hammarskj
Hammarskjold
Hammel
Hammer
Hammerfest
Hammerskjold
Hammersmith
Hammerstein
Hammerstein II
Hammett
Hammock
Hammon
Hammond
Hammond organ
Hammondsport
Hammondsville
Hammonton
Hammurabi
Hammurapi
Hamer
Hamnet
Hano
Hamon
Hampden
Hampden boat
Hampshire
Hampshire Down
Hampstead
Hampton
Hampton Roads
Hampton boat
Hamptonville
Hamrah
Hammand
Hamshire
Hamsun
Hamtramck
Hamulites
Han
Han Chung-li
Han Cities
Han Fei Tzu
Han Xu
Han-lin
Hana
Hana Mandlikova
Hanai
Hanafee
Hanafi
Hanafite
Hanako
Hanalei
Hanan
Hanapepe
Hanasi
Hanau
Hanbalite
Hance
Hanceville
Hancock
Hand
Hand-Schuller-Christian disease
Handal
Handbook
Handel
Hanover
Hanoverian
Hanoverianize
Hanoverize
Hanoverton
Hannatty
Hans
Hans Dietrich Genscher
Hans Dietrich Geuscher
Hans Paul Verhoef
Hans Werner
Hansa
Hansa town
Hansa yellow
Hansard
Hansardization
Hansardize
Hansboro
Hanschen
Hanse
Hanseatic
Hanseatic League
Hansel
Hansel and Gretel
Hanselka
Hansell
Hansen
Hansen's disease
Hanser
Hansetown
Hansford
Hanshaw
Hansiain
Hanska
Hanson
Hansteen
Hanston
Hansville
Hanswurst
Hants
Hamukkah
Hanuman
Hanus
Hanway
Hanya
Hanyang
Hanzelin
Hapale
Hapalidae
Hapalotis
Haphsiba
Haphtarah
Haphtarahs
Haphtaroth
Hapi
Haplodoci
Haplodon
Haplomi
Happ
Happy
Happy Isles
Happy Valley
Hapsburg
Hapte
Hara
Harahan
Harald
Harald I
Haralson
Harappa
Harappan
Harar
Harare
Hararese
Harari
Haratin
Haraya
Harb
Harbard
Harberd
Harbert
Harbeson
Harbin
Harbird
Harbison
Harbona
Harborside
Harborton
Harbot
Harbour
Harco
Harcourt
Hardan
Hardan
Hardaway
Harday
Hardburly
Harland
Harle
Harlech
Harleian
Harleian Library
Harleigh
Harlem
Harlemese
Harlemite
Harlen
Harlene
Harlequin
Harleton
Harley
Harley Street
Harleysville
Harleyville
Harli
Harlie
Harlin
Harlingen
Harlow
Harlow Curtice
Harlownston
Harmachis
Harman
Harmaning
Harmans
Harmat
Harmedio Arias Madrid
Harmon
Harmonia
Harmonides
Harmonie
Harmonist
Harmonite
Harmonsburg
Harmony
Harmothoe
Harms
Harmsworth
Harnack
Harned
Hameen
Harness
Harnett
Harney Peak
Harod
Harold
Harold I
Harold II
Harold Koch
Harolda
Haroldson
Haroun
Harp
Harpa
Harpagornis
Harpalides
Harpalinae
Harpalus
Harpalyce
Harper
Harper Woods
Harper's Ferry
Harpers Ferry
Harpersfield
Harpersville
Harperville
Harpidae
Harpies
Harpina
Harpocrates
Harpole
Harporrhynchus
Happ
Harpster
Harpullia
Harpursville
Harpy
Harpyia
Harragan
Harrah
Harrah's
Harar
Harrell
Harrells
Harrellsville
Harri
Harrie
Harriet
Harriett
Harrietta
Harriette
Harriman
Harrington
Harrington Park
Harriot
Harriott
Harris
Harris Tweed
Harrisburg
Harrisia
Harrison
Harrison grid
Harrison red
Harrisonburg
Harrisonville
Harriston
Harristown
Harrisville
Harrod
Harrodsburg
Harrogate
Harrold
Harrobian
Harrow
Harrus
Harry
Harry Gideonse
Harshaw
Harshman
Harsho
Harstad
Hart
Harte
Hartfield
Hartford
Hartford fern
Harthacanute
Harthacnut
Hartill
Hartington
Hartke
Hartland
Hartleian
Hartlepool
Hartleton
Hartley
Hartley Burr
Hartleyan
Hartleyan
Hartly
Hartman
Hasmonaean
Hasmonean
Hassam
Hassan
Hassan Gouled
Hassan Habibi
Hassan II
Hassan el-Reda
Hassani
Hasse
Hassell
Hasselt
Hasseman
Hassett
Hassi
Hassi Beida
Hassin
Hastie
Hastings
Hastings-on-Hudson
Hasty
Haswell
Hatasu
Hatboro
Hatch
Hatch Act
Hatchechubbee
Hatcher
Hatfield
Hathaway
Hatchcock
Hathor
Hathor column
Hathor-headed
Hathoric
Hathorne
Hati
Hatia
Hatikva
Hatikvah
Hatillo
Hatley
Hatshepset
Hatshepsut
Hatta
Hattemist
Hattemheimer
Hatteras
Haute-Savoie
Haute-Vienne
Hautes-Alpes
Hautes-Pyrénées
Hauts-de-Seine
Hauula
Havaco
Havaiki
Havaikian
Havana
Havana brown
Havana brown cat
Havana cigar
Havana seed
Havanese
Havant
Havard
Havasu
Havdala
Havdalah
Havel
Havelock
Haveman
Haven
Havener
Havenner
Havens
Havensville
Haverford
Haverhill
Haverhill fever
Havering
Havensian
Havensian canal
Haverstraw
Havilah
Haviland
Haviland
Havre
Havre de Grace
Havstad
Hawaii
Hawaii National Park
Hawaiian
Hawaiian Islands
Hawaiian guitar
Hawarden
Hawes Water
Hayman
Haymarket
Haymarket Square
Haynes
Haymo
Hayne
Haynes
Haynesville
Hayneville
Haynor
Hayott
Hays
Hayse
Haysi
Haysville
Hayti
Hayton
Hayward
Haywood
Haywood Jeffries
Hayyim
Hazaki
Hazara
Hazard
Hazard of New Fortunes, A
Haze
Hazeghi
Hazel
Hazel Park
Hazelbelle
Hazelcrest
Hazelhurst
Hazeltine
Hazelton
Hazelwood
Hazem
Hazen
Hazlehurst
Hazlet
Hazleton
Hazlett
Hazlip
Hazlitt
Hazor
Hb
Hbert
Hder
Hderlin
Hdr
He
Head
Headland
Headrick
Heady
Healdsburg
Healdton
Healey
Healion
Heall
Healy
Heaps
Hearn
Hearne
Hearsh
Hearst
Heart Is a Lonely Hunter, The
Heart of Darkness
Heart of Midlothian, The
Heart of the Matter, The
Heartbreak House
Heartwell
Heater
Heaters
Heath
Heath Robinson
Heathcote
Heather
Heathkit
Heathsville
Heaton
Heauton timoroumenos
Heautontimoroumenos
Heav'n's first law
Heaven
Heaven be praised
Heaven forbid
Heaven forfend
Heaven knows
Heavener
Heavenese
Heavenly City
Heavenly City of God
Heavenly city
Heavenly preceptor
Heavens
Heaviside
Heaviside layer
Heaviside region
Heaviside unit function
Heaviside-Kennelly layer
Heaviside-Kennelly region
Heb
Hebbe
Hebbel
Hebbronville
Hebdomadal Council
Hebe
Hebel
Heber
Heberden's rheumatism
Hebert
Hebert Hebert
Hebner
Hebo
Hebr
Hebraean
Hebraic
Hebraica
Hebraical
Hebraically
Hebraicize
Hebraisation
Hebraise
Hebraised
Hebraiser
Hebraising
Hebraism
Hebraist
Hebraistic
Hebraistical
Hebraistically
Hebraization
Hebraize
Hebraized
Hebraizer
Hebraizing
Hebrew
Hebrew calendar
Hebrew school
Hebrew-wise
Hebrewdom
Hebrewess
Hebrewism
Hebrews
Helenium
Helenka
Helenor
Helenus
Helenville
Helenwood
Helfand
Helfant
Helfenstein
Helga
Helge
Helgeson
Helgoland
Heli
Heliadae
Heliades
Heliaca
Heliamphora
Heliand
Helianthemum
Helianthium
Heliothoidea
Heliothoidean
Helianthus
Helicaon
Helice
Helicidae
Helicina
Helicinidae
Helicon
Heliconia
Heliconian
Heliconiidae
Heliconiinae
Heliconius
Helicteres
Heligmus
Heligoland
Heliochrome
Heliogabalize
Heliogabalus
Heliolites
Heliolitidae
Helion
Heliopolis
Heliopora
Helioporidae
Heliopsis
Helve
Helvella
Helvellaceae
Helvellales
Helvellyn
Helvetia
Helvetia blue
Helvetian
Helvetica
Helvetica
Helvetii
Helvetius
Helvidian
Helvtius
Helyn
Helyne
Heman
Hemans
Hembree
Hemel Hempstead
Hemera
Hemerasia
Hemerobaptism
Hemerobaptist
Hemerobian
Hemerobid
Hemerobiidae
Hemerobius
Hemerocallis
Hemet
Hemiascales
Hemiasci
Hemiascomycetes
Hemibasidiales
Hemibasidii
Hemibasidiomycetes
Hemibranchii
Hemichorda
Hemidactylus
Hemigale
Hemigalus
Hemiganus
Hemileia
Hemimeridae
Hemimerus
Hemimetabola
Hemimyaria
Hemingford
Heringer
Herington
Herisau
Heritiara
Herkimer
Herlong
Herm
Herma
Herman
Herman Badillo
Herman Despradel
Herman Eilts
Hermann
Hermann Wilhelm
Hermann-Mauguin symbol
Hermannstadt
Hermansville
Hermanville
Hermaphroditus
Hermas
Hermes
Hermes Trismegistus
Hermesian
Hermesianism
Hermetic
Hermeticism
Hermetics
Hermetism
Hermetist
Hermia
Hermie
Hermina
Hermine
Herminia
Herminie
Herminone
Hermione
Hermiston
Hermit
Hermit kingdom
Hermitage
Hermite
Hermite equation
Hermitian conjugate
Hermitian matrix
Hermleigh
Hermo
Hermod
Hessen-Nassau
Hessian
Hessian andiron
Hessian boots
Hessian fly
Hessler
Hessmer
Hessney
Hesston
Hesta
Hestand
Hester
Hesther
Hestia
Heston and Isleworth
Hesychasm
Hesychast
Hesychastic
Hetaerist
Heterakis
Heteralocha
Heterocarpus
Heterocera
Heterochloridales
Heterocoea
Heterocotylea
Heterodactyloae
Heterodera
Heterodon
Heterodonta
Heterodontidae
Heterodontus
Heterognathi
Heterogyna
Heterokontae
Heteromeles
Heteromela
Heteromeran
Heteromeri
Heterometabola
Heteromi
Heteromita
Heteromorphae
Heteromorphae
Heteromya
Heteromyaria
Heteromyidae
Heteromys
Heteroneura
Heterousian
Heterousiast
Heterophaga
Heterophagi
Heteropia
Heteropidae
Heteropoda
Heteroptera
Heterorhachis
Heterosiphonales
Heterosomata
Heterosomati
Heterosomi
Heterosporeae
Heterosporium
Heterostraca
Heterostraci
Heterotricha
Heterotrichales
Heterotrichida
Heth
Heti
Hetland
Hetman
Hett
Hetti
Hettick
Hettie
Hettinger
Hetty
Heu Chi
Heublein
Heuchera
Heuneburg
Heunis
Heurlin
Heusen
Heuser
Heusler alloy
Heuvelton
Hevea
Hevelian halo
Hevelius
Hevesy
Hew
Hewart
Hewe
Hicks yew
Hicksite
Hicksville
Hico
Hicoria
Hidalgo
Hidatsa
Hidatsas
Hiddenite
Hideki
Hideki Kita
Hideo Chikami
Hideo Hamamura
Hideo Hideraide
Hideo Ikeda
Hideyo
Hideyoshi
Hideyoshi Toyotomi
Hidie
Hiemis
Hiera
Hieracian
Hieracium
Hierochloe
Hierofalco
Hieroglyphic Hittite
Hieronymian
Hieronymic
Hieronymite
Hieronymus
Hierosolymitan
Hierosolymite
Hierro
Hiestand
Hiett
Higbee
Higden
Higdon
Higganum
Higginbotham
Higgins
Higginson
Higginsport
Higginsville
Higgs
High
High Church
High Churchman
High Court
High Court of Appeal
High Court of Judicature
High Court of Justice
High Court of Justiciary
High German
High Holiday
High Holy Day
High Holy Days
High Mass
High Point
High Renaissance
High Street
High Tatra
High Wycombe
High church
High-Church
High-Churchism
High-Churchist
High-Churchman
High-churchism
High-churchist
High-churchman
High-churchmanship
Highams
Higher Thought
Highet
Highland
Highland Falls
Highland Heights
Highland Park
Highland Region
Highland cattle
Highland fling
Highland games
Highland terrier
Highlander
Highlandman
Highlandry
Highlands
Highlandville
Highmore
Highness
Highshoals
Highspire
Hightower
Hightown
Hightstown
Hillyer
Hilmar
Hilo
Hilo grass
Hiltan
Hilten
Hiltner
Hilton
Hiltons
Hilversum
Him
Him-Heup
Hima
Himachal Pradesh
Himalaya
Himalaya Mountains
Himalaya berry
Himalayan
Himalayan cat
Himalayan fleabane
Himalayan musk rose
Himalayan tahr
Himalayas
Himalo-chinese
Himantopus
Himavat
Hime
Himeji
Himelman
Himeros
Himerus
Himinhjorg
Himmler
Himrod
Hims
Himyaric
Himyarite
Himyaritic
Hinayana
Hinayana Buddhism
Hinayanist
Hinch
Hinckley
Hind
Hind and the Panther, The
Hinda
Hindarfjall
Hindemith
Hindenburg
Hindenburg line
Hindfell
Hindi
Hindman
Hindoo
Hindooism
Hindoos
Hindoostani
Hindorff
Hindostani
Hindsboro
Hindsville
Hindu
Hindu Kush
Hindu Kush Mountains
Hindu calendar
Hindu deities
Hindu deity
Hindu mode
Hindu priest
Hindu triad
Hindu trinity
Hindu-Arabic numerals
Hindu-javan
Hindu-malayan
Hinduism
Hinduize
Hinduized
Hinduizing
Hindus
Hindustan
Hindustani
Hines
Hinesburg
Hineston
Hinesville
Hingham
Hinkel
Hinkle
Hinkley
Hinman
Hinnites
Hinsdale
Hinshelwood
Hinson
Hinton
Hintze
Hipponactean
Hipponous
Hippopotamidae
Hipposelinum
Hippothous
Hippotigris
Hippotragus
Hippuridaceae
Hippuris
Hippurites
Hippuritidae
Hirado ware
Hirai
Hiram
Hiramite
Hiranuma
Hirasuna
Hiren
Hiri Motu
Himeola
Hiro
Hirohito
Hiroko
Hiroshi
Hiroshige
Hiroshima
Hirsch
Hirschfeld
Hirsh
Hirst
Hirtella
Hirudin
Hirudinea
Hirudinidae
Hirudo
Hiruko
Hirundinidae
Hirundo
Hirz
Hirza
His Excellency
His Grace
His Highness
His Holiness
His Lordship
His Majesty
His Majesty's Government
His Majesty's Ship
His Reverence
His Satanic Majesty
Hisbe
Hiseville
Hispa
Hispania
Hispanic
Hispanically
Hispanicisation
Hispanicise
Hispanicised
Hispanicising
Hispanicism
Hispanicization
Hispanicize
Hispanicized
Hispanicizing
Hispaniola
Hispiolate
Hispiolize
Hispanist
Hispanize
Hispano
Hispano-american
Hispano-gallican
Hispano-german
Hispano-italian
Hispano-moresque
Hispanophile
Hispanophobe
Hispinae
Hiss
Hissarlik
Hissene Habre
Hissop
Histadrut
Histiophoridae
Histiophorus
Histoplasma
Histriobdella
Histriomastix
Hitachi
Hitchcock
Hitchcock chair
Hitchins
Hitchita
Hitchiti
Hite
Hitler
Hitlerism
Hitlerite
Hitoshi
Hitt
Hittel
Hitterdal
Hittite
Hittite hieroglyphic
Hittitics
Hittitology
Hittology
Hittorf dark space
Hittorf method
Hiung-nu
Hivite
Hiwasse
Hiwassee
Hixson
Hixton
Hizar
Hizen porcelain
Hjerpe
Hjordis
Hler
Hlidhskjalf
Hliod
Hlitshskjalf
Hloise
Hlrorithi
Hluchy
Ho
Ho Chi Minh
Ho Chi Minh City
Ho Chi Minh Trail
Hoa Hao
Hoad
Hoag
Hoagland
Hoang
Hoang Duc Nha
Hoang Thi Cuc
Hoangho
Hoare
Hoashis
Hob
Hoban
Hobard
Hodges
Hodgkin
Hodgkin's disease
Hodgkinson
Hodgson
Hodler
Hodmezovasarhely
Hodosh
Hodur
Hoe
Hoebart
Hoeg
Hoehne
Hoek van Holland
Hoem
Hoenack
Hoenir
Hoes
Hoeve
Hoefi
Hofer
Hoff
Hoffa
Hoffarth
Hoffer
Hoffert
Hoffman
Hoffmann
Hoffmannist
Hoffmannite
Hoffmeister
Hofi Karlsdottir
Hofmann
Hofmannsthal
Hofstadter
Hofstetter
Hofuf
Hog latin
Hogan
Hogansburg
Hogansville
Hogarth
Hogarth chair
Hogarthian
Hogeland
Hogen
Hogen-mogen
Hogg
Hogle
Hogmanay
Hogni
Hogue
Hohe
Hohenlinden
Hohenlohe
Hohenstaufen
Hohenwald
Hohenzollern
Hohenzollernism
Hohokam
Hohokus
Hoi
Hoisch
Hoisington
Hojo
Hok-lo
Hokah
Hokaltecanc
Hokan
Hokan-Coahuiltecanc
Hokan-Siouan
Hokanson
Hokiang
Hokinson
Hokkaido
Hokoto
Hokusais
Hola
Holabird
Holarctic
Holbein
Holblitzell
Holbrook
Holbrooke
Holcman
Holcomb
Holcombe
Holcombi
Holcus
Holden
Holdenville
Holder
Holderlin
Holderness
Holdingford
Holdredge
Holy Sacrament
Holy Sacrament, the
Holy Saturday
Holy Scripture
Holy Scriptures
Holy See
Holy Sepulcher
Holy Sepulchre
Holy Spirit
Holy Spirit, the
Holy Thursday
Holy Trinity
Holy Virgin of Virgins
Holy Week
Holy Willie
Holy Willie's Prayer
Holy Writ
Holy Year
Holy roller
Holy rollerism
Holy willie
Holyhead
Holyoake
Holyoke
Holyrood
Holzman
Hom
Homadus
Homagyrius
Homalin
Homalocenchrus
Homalonotus
Homalopsinae
Homalloptera
Homalopterous
Homalostrernii
Homam
Homans
Homaridae
Homarus
Homburg
Home
Home Burial
Home Counties
Home Guard
Home Office
Home Rule
Home Secretary
Homedale
Homer
Homere
Homarian
Homeric
Homeric laughter
Homeric simile
Homirical
Homercally
Homerid
Homeridae
Homeridian
Homerist
Homerologist
Homerology
Homeronastix
Homerus
Homerville
Homestead
Homestead Act
Hometown
Homewood
Homeworth
Hominian
Hominidae
Hominny
Hommel
Homo
Homo sapiens
Homocoela
Homoean
Homoeanism
Homoeomeri
Homoiouisan
Homoiouism
Homoiouismianism
Homomorpha
Homoneura
Homousian
Homousian
Homousianism
Homousianist
Homousiast
Homousion
Homoptera
Homorelaps
Homesassa
Homosteus
Homovec
Homs
Honomu
Honor
Honora
Honoraville
Honoria
Honarine
Honorius
Honorius I
Honorius II
Honorius III
Honorius IV
Honour
Honour Moderations
Honourable
Hons
Honshu
Honus
Hoo
Hooch
Hood
Hood River
Hoodsport
Hooge
Hoogh
Hooghly
Hook
Hook of Holland
Hooke
Hooke's law
Hooker
Hooker's green
Hookera
Hookerton
Hooks
Hookstown
Hoolehua
Hoon
Hoopa
Hoopen
Hooper
Hooper rating
Hooperating
Hoopes
Hoopston
Hoople
Hooppole
Hoosick
Hoosick Falls
Horacio
Horae
Horan
Horatia
Horatian
Horatian ode
Horatii
Horatio
Horatius
Horatius Cocles
Horbal
Horcus
Hordeum
Hordville
Horeb
Horgan
Horick
Horicon
Horim
Horite
Horlacher
Hormigueros
Hormisdas
Hormogonales
Hormogeneae
Hormogeneales
Hormuz
Horn
Horn of Africa
Hornbeak
Hornbeck
Homblower
Hornbrook
Horne
Hornell
Horner
Horner's method
Homersville
Horney
Horneyan psychology
Hornick
Horie
Homitos
Hornsby
Hornstein
Hortstown
Horodko
Horologium
Horonite
Horouta
Horowitz
Horrebow
Horrocks
Horsa
Horse Guards
Horse's Mouth, The
Horse-guardsman
Horsehead Nebula
Horseheads
Horsens
Horsepen
Horsetown
Horsey
Horsham
Horst
Horst Wessel lied
Horst Wessel song
Hort
Horta
Horten
Hortensa
Hortense
Hortense blue
Hortense de Beaufharnais
Hortense violet
Hortensia
Hortensian
Hortensius
Horter
Horthy
Horton
Hortonville
Horus
Horvatian
Horvitz
Horwath
Horwitz
Hos
Hosackia
Hosbein
Hoschton
Hose
Hosea
Hoseia
Hosein
Hosfmann
Houlton
Houma
Hound
Hound Dog
Hounslow
Houphouet-Boigny
Hourigan
Hourihan
Hours
Housatonic
House
House Administration
House of Assembly
House of Bernarda Alba, The
House of Burgesses
House of Commons
House of Councillors
House of Councilors
House of Delegates
House of Elders
House of Keys
House of Lords
House of Peers
House of Representatives
House of the People
House of the Seven Gables, The
Houselander
Housen
Houser
Houses of Parliament
Housing and Urban Affairs
Housman
Houssay
Houston
Houstonia
Housum
Houtzdale
Houyhnhnm
Hova
Hove
Hoven
Hovenia
Hovercraft
Hovey
Hovland
How
Howard
Howard Hjort
Howardstown
Howarth
Howe
Howe truss
Howe's American type
Howea
Howell
Howells
Howenstein
Howertons
Howes
Howey
Howie
Howison
Howlan
Howland
Howland Island
Howlend
Howlond
Howlyn
Howrah
Howund
Howzell
Hoxeyville
Hoxha
Hoxie
Hoxsie
Hoy
Hoya
Hoye
Hoylake
Hoyle
Hoyleton
Hoyt
Hoyt Lakes
Hoytville
Hr
Hradcany
Hradec Krlov
Hrault
Hrdlicka
Hreidmar
Hrimfaxi
Hrolf
Hrothgar
Hrozny
Hruska
Hrutkay
Huhehot
Hui
Huichou
Huidobro
Huig
Huila
Huitzilopochtli
Hujsak
Huk
Hukawng
Hukbalahap
Hukill
Hula-Hoop
Hulbard
Hulbert
Hulbig
Hulburt
Hulda
Huldah
Huldreich
Hulen
Hulett
Hull
Hull House
Hulda
Hulme
Hulsean
Hultgren
Hultin
Hulton
Hulutao
Hum
Huma
Humacao
Human Comedy, The
Humansville
Humanum Genus
Humarock
Humash
Humashim
Humayun
Humber
Humberside
Humbert
Humbert I
Humberto
Humberto Calderon
Humberto Calderon Berti
Hungarian
Hungarian brome grass
Hungarian goulash
Hungarian lilac
Hungary
Hungary blue
Hungary leather
Hungary water
Hunger
Hungerford
Hungnam
Hungtow Island
Hunk
Hunker
Hunkerism
Hunkerous
Hunkerousness
Hunkie
Hunkpapa
Hunley
Hunlike
Hunnewell
Hunnian
Hunnic
Hunnican
Hunnish
Hunnishness
Hunsinger
Hunt
Hunter
Hunterian
Hunters
Huntersville
Huntertown
Hunting Dogs
Huntingburg
Huntingdon
Huntingdonshire
Huntington
Huntington Beach
Huntington Park
Huntington Station
Huntington Woods
Huntington's chorea
Huntingtown
Huntland
Huntee
Huntley
Huntly
Hunts
Huntsburg
Huntsville
Hunyadi
Hunyady
Hunyak
Huoh
Huon pine
Hupa
Hupeh
Huppert
Hura
Hurd
Hurdland
Hurdsfield
Hurff
Hurlbut
Hurlee
Hurleigh
Hurless
Hurley
Hurleyville
Hurlock
Hurlow
Hurok
Huron
Huronian
Hurri
Hurrian
Hurris
Hurst
Hurstmonceux
Hurtsboro
Hurty
Hurwit
Hurwitz
Hus
Husain
Husch
Husein
Husein ibn-Ali
Husha
Husk
Huskamp
Huskey
Huskisson
Husky
Huss
Hussar
Hussein
Hussein I
Husseini Jamal
Husser
Husserl
Husserlian
Hussey
Hussism
Hussite
Hussitism
Hustisford
Huston
Hustontown
Hustonville
Husum
Hut
Hutcheson
Hutchings
Hutchins
Hutchinson
Hutchinsonian
Hutchinsonianism
Hutchison
Hutterian
Huther
Hutner
Hutson
Hutsonville
Hutsulian
Hutt
Huttan
Hutterites
Huttig
Hutto
Hutton
Huttonian
Huttonianism
Huttonsville
Hutu
Hux
Huxford
Huxham
Huxleian
Huxley
Huxleyan
Huxtable
Hyblaea
Hyblaean
Hyblan
Hybodus
Hydatina
Hyde
Hyde Park
Hyden
Hyder Ali
Hyderabad
Hydes
Hydesville
Hydetown
Hydeville
Hydnaceae
Hydnocarpus
Hydnora
Hydnoraceae
Hydnum
Hydra
Hydra-headed
Hydra-tainted
Hydrachna
Hydrachnidae
Hydractinia
Hydradephaga
Hydrangea
Hydrangeaceae
Hydrastis
Hydri
Hyrid
Hydriote
HydroDiuril
Hydrobates
Hydrobatidae
Hydrocaryaceae
Hydrocharidaceae
Hydrocharis
Hydrocharitaceae
Hydrochelidon
Hydrochoerus
Hydrocleis
Hydrocorallia
Hydrocorallinae
Hydrocores
Hydrocorisae
Hydrocortone
Hydrocotyle
Hydrocyon
Hydrodamalidae
Hydrodamalis
Hydrodictyaceae
Hydrodictyon
Hydrodromica
Hydrogenomonas
Hydroida
Hydroidea
Hydrolea
Hydroleaceae
Hydromatic
Hydromedusae
Hydrometridae
Hydromys
Hydorastatatae
Hydrophiidae
Hydromilidae
Hydrophinae
Hydrophis
Hydrophora
Hydrophyllaceae
Hydrophyllum
Hydropotes
Hydropterideae
Hydrozoa
Hydruntine
Hydrurus
Hydrus
Hye
Hyeres
Hygeia
Hygeian
Hyginus
Hyksos
Hyla
Hylaeus
Hylan
Hyland
Hylas
Hylidae
Hyllus
Hylobates
Hylocereus
Hylocichla
Hylocomium
Hyloides
Hylomys
Hylton
Hyman
Hymen
Hymenaea
Hymenaeus
Hymenaic
Hymenocallis
Hymenochaete
Hymenogaster
Hymenogastraceae
Hymenolepis
Hymenomycetes
Hymenophyllaceae
Hymenophyllites
Hymenophyllum
Hymenoptera
Hymera
Hymettian
Hymettic
Hymettius
Hymettus
Hymie
Hymir
Hynda
Hyndman
Hynek
Hynes
Hyo
Hyolithes
Hyolithidae
Hyoscyamus
Hyotherium
Hyozo
Hypanis
Hypapante
Hypatia
Hypatie
Hypanantron
Hyper-calvinism
Hyper-calvinist
Hyper-calvinistic
Hyper-dorian
Hyper-ionian
Hyper-jacobean
Hyper-latinistic
Hyper-lydian
Hyper-phrygian
Hyper-romantic
Hyper-uranian
Hyperborean
Hypercheiria
Hyperenor
Hypergon
Hypericaceae
Hypericales
Hypericum
Hyperion
Hyperion to a satyr
Hypermnestra
Hyperoartia
Hyperoodon
Hyperotreta
Hyperotreti
Hypertherm
Hyphaene
Hyphomycetales
Hyphomycetes
Hypnaceae
Hypnos
Hypnum
Hypnus
Hypo-
Hypochaeris
Hypochnaceae
Hypochondrus
Hypocreaceae
Hypocreales
Hypodermella
Hypodorian
Hypohippus
Hypolite
Hypolydian
Hypoparia
Hypopitys
Hypostomata
Hypostomides
Hypotheria
Hypotremata
Hypotricha
Hypotrichida
Hypoxis
Hypoxylon
Hypoza
Hyps
Hypseus
Hysilophodon
Hypsilophodontidae
Hypsiprymninae
Hypsiprymnodontoidea
Hypsiprymnus
Hypsipyle
Hypsistorian
Hypsistus
Hyrachyus
Hyracidae
Hyracina
Hyracodon
Hyracodontidae
Hyracoidea
Hyracotheriinae
Hyracotherium
Hyracanthus
Hyracodon
Hyracodontidae
Hyracine
Hyracini
Hyracian
Hyrine
Hyrmina
Hyrinnto
Hyrontus
Hyrum
Hyrup
Hysham
Hyssopus
Hystricidae
Hystricininae
Hystricomorpha
Hystriches
Hz
I
I Am
I Ching
I Claudius
I Mech E
I Min E
I am led to believe
I ask you
I beam
I beg you
I beg your pardon
I can't see
I couldn't care less
I daresay
I declare
I don't care
I don't have the first idea
I don't know what
I don't see how
I don't see why
I don't understand
I girder
I give up
I have it
I myself
I never
I pass
I refuse
I should fret
I should worry
I thank you
I thank you very much
I think not
I venture to say
I will no such thing
I will not
I won't
I won't buy it
I"d
I"ll
I"s
I'd
I'll
I'll be
I'll be damned if
I'll be hanged if
I'll be hanged if I will
I'll be jiggered
I'll be seeing you
I'll say
I'll see you in hell first
I'm
I'm not taking any
I's
I've
I-beam
I-bunga
I-go
I-ism
I-ness
I-railed
I-ship
IPL
IPLAN
IPM
IPMS
IPO
IPS
IPSE
IPT
IPX
IPY
IQ
IQ meter
IQ test
IQR
IQSY
IR
IRA
IRAF
IRAS
IRBM
IRC
IRD
IRDS
IRE
IRG
IRL
IRM
IRMS
IRN
IRO
IROR
IRQ
IRS
IRSG
IRTF
IS
ISA
ISAM
ISAS
ISBD
ISBN
ISC
ISCH
ISDN
ISDT
ISEE
ISF
ISFUG
ISH
ISI
ISIS
ISLM
ISLU
ISM
ISN
ISO
ISODE
ISOO
ISOP
ISPM
ISR
ISRG
ISS
ISSI
ISSN
IST
ISUP
ISV
ISY
IT
IT&T
ITA
ITC
ITCZ
ITM
ITO
ITS
ITSEC
ITSO
ITT
ITU
ITUSA
ITV
IU
IUD
IUE
IUS
IUV
IV
IVB
IVDT
IVP
IVTS
IW
IWBNI
IWC
Ibagu
Iban
Ibanag
Ibanez
Ibanez Del Campo
Ibapah
Ibaraki
Ibarguen Herrara
Ibarruri
Ibbetson
Ibbie
Ibbison
Ibby
Iberes
Iberi
Iberia
Iberian
Iberian Peninsula
Iberic
Iberis
Iberism
Ibero-
Ibero-aryan
Ibero-celtic
Ibero-insular
Ibero-pictish
Ibert
Ibibio
Ibididae
Ibidinae
Ibidium
Ibilao
Ibiza
Iblis
Ibn
Ibn Hussein
Ibo
Ibos
Ibrahim
Ibrahim Abdel Hadi
Ibrahim Al Soleiman
Ibrahim Hakimi
Ibrahim Hashim
Ibrahim Hussein
Ibrahim Pasha
Ibrahim el Kassem
Ibsen
Ibsenian
Ibsenic
Ibsenish
Ibsenism
Ibsenite
Ibson
Ibycter
Ibycus
Ic
Ica
Icacinaceae
Icacorea
Icard
Icaria
Icarian
Icarian Sea
Icarianism
Iarius
Icarus
Ice
Ice Age
Ice Observation Service
Ice patrol
Icel
Iceland
Iceland crystal
Iceland dog
Iceland falcon
Iceland gull
Iceland lichen
Iceland moss
Iceland pony
Iceland poppy
Iceland sea grass
Iceland spar
Icelander
Icelandian
Icelandic
Icelidae
Icelus
Iceman Cometh, The
Iceni
Icenic
Icerya
Ichabod
Ichang
Ichinomiya
Ichiro Hatoyama
Ichneumia
Idaline
Idalla
Idalou
Idamay
Idanha
Idas
Idaville
Idden
Iddio
Iddo
Ide
Idea
Idean
Idel
Ideler
Idelia
Idell
Idelle
Idelson
Iden
Identikit
Ider
Ides of March
Idette
Idewild
Idhi
Idi Amin
Idiogastria
Idiom Neutral
Idiosepiidae
Idiosepiion
Idiot, The
Idism
Idist
Idistic
Iditarod
Idledale
Idleman
Idlewild
Idmon
Ido
Idoism
Idoist
Idoistic
Idola
Idolah
Idolla
Idomeneo
Idomeneus
Idona
Idonah
Idonea
Idonna
Idota
Idoteidae
Idotea
Idotheidae
Idou
Idoux
Idria
Idris
Idris I
Idrisid
Idrisite
Idumae
Idumaean
Idumea
Idumean
Idun
Iduna
Idylls of the King, The
Idyllwild
Idzik
Ieda
Ielene
Iene
Ieper
Ier
Ierna
Ierne
Ieso
Ietta
Ieysa
If
Ife
Ifill
Ifni
Ifugao
Ifugaos
Igal
Igara
Igbira
Igbo
Igbos
Igdrasil
Igdyr
Igenia
Igerne
Iggdrasil
Iggie
Iggy
Igigi
Igino Cardinale
Iglau
Iglesias
Iglulirmiut
Ignace
Ignacia
Ignacio
Ignacius
Ignatia
Ignatian
Ignatianist
Ignatius
Ignatius Acheampong
Ignatius Loyola
Ignatius of Loyola Saint
Ignatz
Ignatzia
Ignaz
Ignazio
Ignorantine
Igo
Igor
Igor Larionov
Igorot
Igorots
Igot Gouzenko
Igraine
Iguac
Iguacor Iguass
Iguania
Iguanidae
Iguanodon
Iguanodontia
Iguanodontidae
Iguanodontoidea
Iguassu
Iguvine
Ihab
Ihei Aoki
Ihlat
Ihlen
Ilha
Ilheus
Ilia
Ilia
Ilia
Iliad
Iliadic
Iliadist
Iliadize
Liamna
Ilian
Ilicaceae
IIiff
Iligan
Iline
Ilio Bosi
Ilion
Ilione
Ilioneus
Ilisa
Ilise
Illissus
Ilithyia
Ilium
Ilka
Ilke
Ilkeston
Ilkka Sinisalo
Ilkley
Ill
Illa
Illaenus
Illampu
Illano
Ilanun
Illawarra
Illawarra ash
Illawarra pine
Ille-et-Vilaine
Illecebraceae
Ilene
Illertissen
Illia
Illich
Illicium
Illimani
Illinoian
Illinois
Illinois gooseberry
Ilyssa
Ilyushin
Im
Ina
Imalda
Imamite
Iman
Iman Al Badr
Imantophyllum
Imari ware
Imbert Barrera
Imbler
Imboden
Imbrium
Imbrius
Imbros
Imelda
Imelida
Imena
Imen
Imer
Imerina
Imeritian
Imipramine
Imitation of Christ, The
Imitt
Imlay
Imlaystown
Imler
Immaculata
Immaculate Conception
Immaculate Heart
Immanes
Immanuel
Immelmann turn
Immigration and Nationality Act
Immingham
Immokalee
Immoralist, The
Immortals
Imnaha
Imo
Imogen
Imogene
Imojean
Imola
Imolinda
Imp
Impatiens
Impatientaceae
Impennes
Imperata
Imperata
Imperfosa
Imperia
Imperial
Imperial Beach
Imperial Highness
Imperial Holiday
Imperial Majesty
Imperial Valley
Imperial bushel
Impeyan
Impalal
Implacentalia
Importance of Being Earnest, The
Improperia
Imray
Imre
Imre Boka
Imre Fold
Imre Hollai
Imre Horvath
Imre Nagy
Imroz
Imtiaz
In
In Dubious Battle
In God We Trust
In Praise of Folly
Ina
Inachidae
Inachus
Inanna
Inari
Inarticulata
Inauguration Day
Inauguration day
Inavale
Inc
Inca
Inca bone
Inca dove
Incabloc
Incaic
Incan
Incaparina
Incarial
Incarnation
Incarvillea
Inchelium
Inchon
Incognito
Incorruptible
Increase
Incrocci
Incrustata
Ind
IndE
Indanthrene
Indecidua
Independence
Independence Day
Independence Hall
Independence day
Independence hall
Independency
Independent
Independista
Index Librorum Prohibitorum
Index expurgatorius
Indi
India
India berry tree
India buff
India chintz
India cotton
India drugget
India gall
India gum
India ink
India malacca
India matting
India muslin
India paper
India pepper
India pink
India print
India proof
India red
India rubber
India scrim
India shawl
India silk
India tan
India tea
India tint
India wheat
India-cut
India-rubber tree
India-rubber vine
Indiahoma
Indiaman
Indiamen
Indian
Indian Claims Commission
Indian Desert
Indian Empire
Indian Hill
Indian Mutiny
Indian National Congress
Indian Ocean
Indian Runner
Indian States and Agencies
Indian Summer of a Forsyte
Indian Territory
Indian Wars
Indian agency
Indian agent
Indian apple
Indian balsam
Indian bison
Indian blanket
Indian bread
Indian breadroot
Indian bridle
Indian buffalo
Indian cherry
Indian cholera
Indian club
Indian cobra
Indian corn
Indian cress
Indian cup
Indian currant
Indian drug
Indian elephant
Indian fig
Indian file
Indian gift
Indian giver
Indian giving
Indian grackle
Indian hawthorn
Indian header
Indian heat
Indian hemp
Indian hippo
Indian house
Indian ink
Indian jujube
Indian lettuce
Indian licorice
Indian liquorice
Indian list
Indian lotus
Indian madder
Indian mallow
Indian meal
Indian millet
Indian mode
Indian mulberry
Indian paintbrush
Indian pink
Indian pinkroot
Indian pipe
Indian pitcher
Indian pony
Indian potato
Indian pudding
Indian red
Indian reservation
Indian reserve
Indian rice
Indian rope-trick
Indian rug
Indian ruler
Indian salad
Indian sanicle
Indian sign
Indian silk
Indian summer
Indian sweater
Indian tea
Indian tobacco
Indian turnip
Indian weed
Indian wolf
Indian wrestling
Indian yellow
Indian-meal moth
Indiana
Indiana ballot
Indiana limestone
Indianan
Indianapolis
Indianapolis 500
Indianeer
Indianesque
Indianhead
Indianhood
Indianian
Indianisation
Indianise
Indianised
Indianising
Indianism
Indianist
Indianization
Indianize
Indianized
Indianizing
Indianola
Indiantown
Indic
Indicatoridae
Indicatorinae
Indices Expurgatorii
Indienne
Indies
Indigenismo
Indigofera
Indihar
Indio
Indira
Indo-
Indo-Aryan
Indo-Chinese
Indo-European
Indo-Germanic
Indo-Hittite
Indo-Iranian
Indo-Pacific
Indo-afghan
Indo-african
Indo-aryan
Indo-australian
Indo-british
Indo-briton
Indo-burmese
Indo-celtic
Indo-chinese
Indo-dutch
Indo-egyptian
Indo-english
Indo-european
Indo-europeanist
Indo-french
Indo-gangetic
Indo-german
Indo-germanic
Indo-greek
Indo-hellenistic
Indo-hittite
Indo-iranian
Indo-malayan
Indo-malayan
Indo-mohammedan
Indo-oceanic
Indo-pacific
Indo-portuguese
Indo-saracenic
Indo-scythian
Indo-spanish
Indo-sumerian
Indo-teutonic
Indochina
Indochina War
Indochinese
Indoeuropean
Indogaea
Indogaean
Indologist
Indologue
Indology
Indone
Indonesia
Indonesian
Indophile
Indophilism
Indophilist
Indore
Indra
Indrani
Indre
Indre-et-Loire
Indris
Indus
Indus Valley
Indus civilization
Indus valley civilization
Industrial Revolution
Industrial Workers of the World
Indy
Ineducabilia
Inejiro Asanuma
Ineri
Inermes
Inermi
Inermia
Inerney
Ines
Inesita
Ineshta
Inessa
Inez
Inf
Infeld
Inferi
Inferno
Infield
Informatica
Information Please Almanac
Infra-lias
Infundibulata
Infusoria
Ing
Inga
Ingaberg
Ingaborg
Ingaevones
Ingaevonic
Ingalls
Ingamar
Ingar
Inge
Ingeberg
Ingeborg
Ingelbert
Ingelow
Ingemar
Inger
Ingersoll
Ingham
Inghamite
Insular Celtic
Insull
Int
Integropallialia
Integropalliata
Intelsat
Inter-american
Inter-andean
Inter-european
Inter-imperial
Intercidona
Intercourse
Interim
Interior
Interior and Insular Affairs
Interlachen
Interlaken
Interlingua
Interlochen
Internal Revenue Service
Internal Security
International
International Code
International Code of Signals
International Court of Justice
International Date Line
International Geophysical Year
International Gothic
International Grandmaster
International Labor Organization
International Master
International Monetary Fund
International Orange
International Phonetic Alphabet
International Relations
International Style
International scale
Internationale
Interphone
Interpol
Interstate Commerce Commission
Interstate and Foreign Commerce
Intertropical Convergence Zone
Intertype
Intervale
Intimations of Immortality
Intimism
Intisar
Intosh
Intracoastal Waterway
Introit
Intruder in the Dust
Intyre
Inuit
Invar
Invercargill
Inverness
Inverness cape
Invernesshire
Inverson
Invertebrata
Invincible Armada
Inwood
Iny
Inyanga
Inyokern
Io
Io moth
Ioab
Ioannides
Ioannina
Iobates
Iodama
Iodamoeba
Iodeosin B
Iodeosin b
Iodol
Iola
Iolandé
Iolanthe
Iolaus
Iole
Iolenta
Ion
Iona
Iona cross
Ione
Ione formation
Ionesco
Iong
Ioni
Ionia
Ionian
Ionian Islands
Ionian Sea
Ionian mode
Ipiutak
Ipoctonus
Ipoh
Ipomoea
Ipsambul
Ipsus
Ipswich
Iqbal
Iquique
Iquitos
Ir
IrGael
Ira
Iraan
Irak
Iraki
Irakis
Iraklion
Iran
Irani
Iranian
Iranian Plateau
Iranic
Iranism
Iranist
Iranize
Irano-semitic
Iraq
Iraqi
Iraqi Arabic
Iraqian
Iraqis
Irasburg
Irazu
Irbid
Irbil
Irby
Ire
Iredale
Iredell
Ireland
Irelander
Irena
Irenaeus
Irene
Iresine
Ireton
Irfan
Irgun
Irgun Zvai Leumi
Irgunist
Iri
Irian Barat
Irian Jaya
Iriarte
Iriartea
Iriarteaee
Iricise
Iricised
Iricising
Iricism
Iricize
Iricized
Iricizing
Iridaceae
Iridis
Iridissa
Iridomyrmex
Iridum
Irina
Irina Ratushinskaya
Iris
Irisa
Irish
Irish Christian Brother
Irish English
Irish Free State
Irish Gaelic
Irish Guards
Irish Mist
Irish Pale
Irish Republic
Irish Republican Army
Irish Sea
Irish boat
Irish bridge
Irish bull
Irish coffee
Irish confetti
Irish daisy
Irish dividend
Irish elk
Irish green
Irish harp
Irish lord
Irish moss
Irish pennant
Irish potato
Irish setter
Irish soda bread
Irish stew
Irish terrier
Irish tweed
Irish water spaniel
Irish whiskey
Irish wolfhound
Irish yew
Irish-american
Irish-born
Irish-bred
Irish-canadian
Irish-english
Irish-grown
Irish-speaking
Irisher
Irishian
Irishise
Irishised
Irishising
Irishism
Irishize
Irishized
Irishizing
Irishly
Irishman
Irishmen
Irishness
Irishry
Irishwoman
Irishwomen
Irishy
Irita
Irja
Irklion
Irkutsk
Irl
Irma
Irme
Irmgard
Irmina
Irmine
Irming Current
Irmo
Irob-saho
Iroha
Iron Age
Iron Age man
Iron Chancellor
Iron Cross
Iron Curtain
Iron Duke
Iron Gate
Iron Gates
Iron Guard
Iron Maiden of Nuremberg
Iron Mountain
Iron River
Iron age
Iron-Guard
Ironbelt
Irondale
Irondequoit
Ionia
Irons
Ironside
Ironsides
Ironton
Iroquoian
Iroquois
Irplex
Irra
Irrawaddy
Irredentism
Irredentist
Irrigon
Irisoridae
Irritila
Irtish
Irysh
Irysh ostyak
Irus
Ir
Irvin
Irvine
Irying
Irvingesque
Irvingiana
Irvingism
Irvingite
Irvington
Irvona
Irwin
Irwinn
Ischia
Ischyodus
Ischys
Iseabal
Isegrim
Iselin
Isenheim Altarpiece
Isenland
Isenstein
Isere
Iseult
Iseum
Isfahan
Ish-bosheth
Ishan
Isherwood
Isherwood framing
Isherwood system
Ishihara test
Ishihara's test
Ishii
Ishmael
Ishmaelite
Ishmaelitic
Ishmaelitish
Ishmaelitism
Ishmul
Ishpeming
Ishtar
Ishum
Ishvara
Isia
Isiac
Isiacal
Isiah
Isiahi
Isidae
Isidor
Isidora
Isidore
Isidore of Seville
Isidorean
Isidorian
Isidoric
Isidoro
Isidorus
Isidro
Isimud
Isin
Isinai
Ising
Isis
Iskander Bey
Iskenderun
Isl
Isla
Isla de Pascua
Islaen
Islam
Islamabad
Islamic
Islamic Republic of Mauritania
Islamic calendar
Islamisation
Islamise
Islamised
Islamising
Islamism
Islamist
Islamistic
Islamite
Islamitic
Islamitish
Islamization
Islamize
Islamized
Islamizing
Islamorada
Island
Island Park
Island carib
Island of the Sun
Islands of the Blessed
Islandton
Islas Malvinas
Islay
Isle
Isle Royale
Isle of Capri
Isle of Man
Isle of Pines
Isle of Shoals boat
Isle of Wight
Islean
Isleana
Isleen
Islek
Isles of the Blessed
Islesboro
Islesford
Isleta
Isleton
Islington
Islip
Isma
Ismael
Ismael Galindez
Ismaelism
Ismaelite
Ismaelitic
Ismaelitical
Ismaelitish
Ismail Fahmy
Ismail Pasha
Ismail el Azhari
Ismaili
Ismailia
Ismailian
Ismailite
Ismailiya
Isman
Ismarus
Ismay
Ismene
Ismenus
Ismet
Ismet Inonu
Isnardia
Isobel
Isocardia
Isocardiidae
Isocrates
Isoetaceae
Isoetales
Isoetes
Isokontae
Isola
Isolda
Isolde
Isoloma
Isolt
Isom
Isomera
Isomyaria
Isonville
Isonzo
Isopleura
Isopoda
Isoprinosine
Isoptera
Isospondyli
Isotria
Ispahan
Israel
Israel ben Eliezer
Israel
Israelis
Israelite
Israeliteship
Israelitic
Israelitish
Israelitism
Israelitize
Israfil
Issachar
Issacharite
Issaquah
Issayeff
Issedoi
Issedones
Issei
Issi
Issiah
Issie
Issus
Issy
Issy-les-Molineux
Issyk-Kul
Istachatta
Istanbul
Isth
Isthmia
Isthmian
Isthmian Games
Istiophoridae
Istiophorus
Istria
Istrian
Istvaeones
Istvan
Istvan Dobi
Isuridae
Isurus
Isus
Iswara
It
It is a beauteous evening
Ita
Itabuna
Itagaki
Itajai
Ital
Itala
Itali
Italia
Italia Bolzano
Italia irredenta
Italian
Italian East Africa
Italian Somaliland
Italian Wars of Independence
Italian aster
Italian blue
Italian bob
Italian bread
Italian clover
Italian corn salad
Italian cypress
Italian dressing
Italian earth
Italian greyhound
Italian hand
Italian honeysuckle
Italian ice
Italian jasmine
Italian leprosy
Italian ocher
Italian paste
Italian pink
Italian pox
Italian reed
Italian rye grass
Italian school
Italian sixth
Italian sonnet
Italian vermouth
Italian vote
Italianate
Italianately
Italianating
Italianation
Italianesque
Italianisation
Italianise
Italianised
Italianish
Italianising
Italianism
Italianist
Italianity
Italianization
Italianize
Italianized
Italianizer
Italianizing
Italianly
Italic
Itical
Itically
Italan
Italianist
Italici
Italicism
Italiote
Italo
Italo-
Italo-austrian
Italo-byzantine
Italo-celt
Italo-classic
Italo-grecian
Italo-greek
Italo-hellenic
Italo-hispanic
Italo-serb
Italo-slav
Italo-swiss
Italo-turkish
Italomania
Italon
Italophil
Italophile
Italy
Itapetininga
Itasca
Itaves
Itch
JJ
JLE
JMP
JMS
JMX
JO
JOAT
JOVE
JOVIAL
JP
JPEG
JPL
JRC
JSC
JSD
JSN
JSRC
JST
JSW
JTIDS
JTM
JUD
JUGFET
JUNET
JV
JVNC
JWV
Ja
Jaafar Sharif Enami
Jaal
Jaala
Jaalin
Jaan
Jabal
Jabalpur
Jaban
Jabarite
Jabberwock
Jabberwockies
Jabberwocky
Jabe
Jaber Al Almed
Jabez
Jabin
Jabir
Jabir ibn Hayyan
Jablochkoff candle
Jablochkoff lamp
Jablon
Jablonsky
Jabon
Jabrud
Jac
Jacalin
Jacalinne
Jacaltec
Jacalteca
Jacalyn
Jacamaralcyon
Jacamerops
Jacana
Jacanidae
Jacaranda
Jacarta
Jacenta
Jacey
Jachin
Jacie
Jacinda
Jacinta
Jacinth
Jacintha
Jacinthe
Jacinto
Jack
Jack Ferreira
Jack Frost
Jack Ketch
Jack Nies
Jack Schalow
Jack Sheppard
Jack Tar
Jack mormon
Jack nasty
Jack rose
Jack the Ripper
Jack-a-lent
Jack-fool
Jack-go-to-bed-at-night
Jack-the-rags
Jackelyn
Jackfield ware
Jackhorn
Jacki
Jackie
Jackie Ickx
Jacobianise
Jacobinised
Jacobinising
Jacobinism
Jacobinization
Jacobinize
Jacobinized
Jacobinizing
Jacobite
Jacobite Rebellion
Jacobite glass
Jacobitely
Jacobitiana
Jacobitic
Jacobitical
Jacobitically
Jacobitish
Jacobitishly
Jacobitism
Jacobo
Jacobo Arbenz Guzman
Jacobs
Jacobsburg
Jacobsen
Jacobsohn
Jacobson
Jacobus
Jacobus Hendricus
Jacoby
Jacopo
Jacquard
Jacquard card
Jacquard harness
Jacquard head motion
Jacquard loom
Jacquard weave
Jacquel
Jacquelin
Jacqueline
Jacquely
Jacquelyn
Jacquelynn
Jacqueminot
Jacquenetta
Jacquenette
Jacquerie
Jacques
Jacques Brichant
Jacques Chaban-Delmas
Jacques Chirac
Jacques Cloutier
Jacques Delors
Jacques Martin
Jacquet
Jacquetta
Jacquette
Jacqui
Jacquie
Jacumba
Jacunda
Jacuzzi
Jacy
Jacynth
Jada
Jadd
Jadda
Jaddan
Jaddo
Jade
Jadotville
Jadwiga
Jadwin
Jae
Jaeger
Jaehne
Jael
Jaela
Jaella
Jaen
Jaenicke
Jaf
Jaffa
Jaffa orange
Jaffe
Jaffna
Jaffrey
Jaga
Jaganmati
Jagannath
Jagannatha
Jagatai
Jagataic
Jagello
Jagellon
Jagellonian
Jagellos
Jagannath
Jagger
Jaghatai
Jagiello
Jagiellonian
Jagiello
Jagielon
Jagir
Jago
Jaguey Grande
Jahangir
Jahdai
Jahdal
Jahdiel
Jahdol
Jahel
Jahn
Jahncke
Jahrum
Jahrzeit
Jahve
Jahveh
Jahvism
Jahvist
Jahvistic
Jahwe
Jahweh
Jahwism
Jahwist
Jahwistic
Jai Alai
Jai Hind
Jailsco
Jaime
Jaime Fillol
Jaime Torres Bodet
Jaime Yzaga
Jaimie
Jain
Jaina
Jaine
Jainism
Jainist
Jaipur
Jaipuri
Jair
Jairia
Jajapura
Jajawijaja
Jakarta
Jake
Jakie
Jakin
Jakob
Jakob Hlasek
Jakoba
Jakobson
Jakop
Jakun
Jal
Jala
Jalalabad
Jalalaean
Jalapa
Jalbert
Jalgaon
Jalisco
Jallier
Jam
Jamaal
Jamaica
Jamaica gin
Jamaica ginger
Jamaica gold fern
Jamaica honeysuckle
Jamaica rum
Jamaica shorts
Jamaican
Jamal
Jamal ud-Din
Jamalpur
Jambi
Jambos
Jamel
James
James Bay
James Bere
James Buchli
James Callaghan
James Cicconi
James Denike
James Gilkes
James I
James II
James III
James Iococca
James VI
James VII
James the Great
James the Less
Jamesburg
Jamesian
Jamesina
Jameson
Jamesport
Jamesstore
Jamestown
Jamesville
Jamey
Jami
Jamie
Jamie Macoun
Jamieson
Jamil
Jamil Baroody
Jamila
Jamill
Jamilla
Jamille
Jamima
Jamin
Jamison
Jammal
Jammie
Jammin
Jammu
Jammu and Kashmir
Jamnagar
Jamnes
Jamnia
Jamnis
Jamshedpur
Jamshid
Jamshid Amouzegar
Jamshyd
Jamul
Jamuna River
Jan
Jan Cools
Jan Cwiklinski
Jan Eliasson
Jan Hajdukiewicz
Jan Hus
Janine
Janis
Janissarian
Janissaries
Janissary
Janissary music
Janith
Janiuszck
Janizarian
Janizaries
Janizary
Janizary music
Janka
Jankell
Jankey
Jann
Janna
Jannel
Jannelle
Jannery
Janok
Janos
Janos Gyongyosi
Janos Kadar
Janot
Jansen
Jansenism
Jansenist
Jansenistic
Jansenistical
Jansenize
Janson
Janssen
Jansson
Janthina
Janthinidae
Januaries
Januarius
January
Januisz
Janus
Janus cloth
Janus green
Janus-face
Janus-faced
Janus-headed
Janus-like
Januslike
Japanese paper
Japanese pear
Japanese persimmon
Japanese quince
Japanese red
Japanese river fever
Japanese silk
Japanese slippers
Japanese spaniel
Japanese spurge
Japanese stranglehold
Japanese tree peony
Japanese wisteria
Japanese wolf
Japanese yew
Japaneseque
Japanesequely
Japanesequery
Japanesey
Japanesezize
Japanization
Japanize
Japanner
Japannish
Japanolatry
Japanologist
Japanology
Japanophile
Japanophobia
Japans
Japeth
Japetus
Japha
Japheth
Japhetic
Japhetide
Japhetite
Japn
Japonic
Japonically
Japonicize
Japonism
Japonize
Japonizer
Japur
Japura
Japygidae
Japyx
Jaqitsch
Jaquelee
Jaquelin
Jaqueline
Jaquelyn
Jaquenetta
Jaquenette
Jaques
Jaques-Dalcroze
Jaquesian
Jaquiss
Jaquith
Jara
Jarabub
Jarad
Jarales
Jarash
Jarbidge
Jard
Jardena
Jareb
Jared
Jarek
Jaret
Jari
Jari Kurri
Jariah
Jarib
Jarid
Jarietta
Jarita
Jarl
Jarlath
Jarlathus
Jarlen
Jarmagin
Jaromir
Jaromir Vejvoda
Jaroslav
Jaroslav Burec
Jaroslav Kohout
Jaroso
Jarrad
Jarratt
Jarreau
Jarred
Jarrell
Jarret
Jarrett
Jarrettsville
Jarrid
Jarrod
Jarrow
Jarry
Jav
Jarvey
Jarvin
Jarvis
Jarvisburg
Jary
Jas
Jascha
Jascha Heifetz
Jase
Jasen
Jasik
Jasion
Jasiana
Jasminaceae
Jasmine
Jasminum
Jason
Jason Lafreniere
Jasonville
Jasper
Jasper National Park
Jasper Park
Jasper dip
Jaspers
Jassidae
Jassy
Jastrzebie
Jasun
Jat
Jataka
Jateorhiza
Jatki
Jatni
Jatropha
Jatulian
Jauch
Jaunita
Jeanne
Jeanne d'Arc
Jeannetta
Jeannette
Jeannie
Jeannine
Jeannye
Jeanpaulia
Jeans
Jeavons
Jeaz
Jeb
Jebb
Jebel Musa
Jebus
Jebusi
Jebusite
Jebusitic
Jebusitical
Jebusitish
Jecho
Jecoa
Jecon
Jeconiah
Jed
Jedburgh
Jedd
Jedda
Jeddo
Jeddy
Jedediah
Jedidiah
Jedlicka
Jedthus
Jeeps
Jeff
Jeff Chychrun
Jeff Hornacek
Jeff Pico
Jeff Snedeker
Jeffcott
Jefferey
Jeffers
Jefferson
Jefferson City
Jefferson Day
Jeffersonia
Jeffersonian
Jeffersonianism
Jeffersonton
Jeffersonstown
Jeffersonville
Jeffery
Jeffie
Jeffrey
Jeffrey pine
Jeffreys
Jeffries
Jeffry
Jeffy
Jegar
Jeggar
Jegger
Jeh
Jehan
Jehangir
Jehanna
Jehiah
Jehial
Jehias
Jehiel
Jehius
Jehoash
Jehoiada
Jehol
Jehoshaphat
Jehovah
Jehovah God
Jehovah's Witness
Jehovah's Witnesses
Jehovic
Jehovism
Jehovist
Jehovistic
Jehu
Jehudah
Jekyll and Hyde
Jelena
Jelene
Jelks
Jell-O
Jell-O salad
Jelle
Jellico
Jellicoe
Jelm
Jelsma
Jem
Jemappes
Jemena
Jemez
Jemie
Jemima
Jemimah
Jemina
Jeminah
Jemine
Jemison
Jemlah goat
Jemma
Jemmie
Jemmy
Jempty
Jemy
Jen
Jena
Jena-Auerstedt
Jenda
Jenei
Jenelle
Jenesia
Jenette
Jenghis Khan
Jenghiz Khan
Jeni
Jenica
Jenice
Jeniece
Jenifer
Jeniffer
Jenilee
Jenin
Jenine
Jenison
Jenkel
Jenkins
Jenkinsburg
Jenkinson
Jenkinsville
Jenkintown
Jenks
Jenn
Jenna
Jenne
Jeremy
Jeres
Jerez
Jerez de la Frontera
Jeri
Jericho
Jeris
Jeritah
Jeritza
Jermain
Jermaine
Jerman
Jermayne
Jermyn
Jeroboam
Jerol
Jerold
Jeroma
Jerome
Jeromesville
Jeromian
Jeromy
Jeronima
Jeronymite
Jerre
Jeri
Jerrie
Jerries
Jerrilee
Jerrilyn
Jerrine
Jerrol
Jerrold
Jerroll
Jerrome
Jerry
Jerry Adair
Jerry Cipriano
Jerry Colangelo
Jerry Reuss
Jerry Sichting
Jerrylee
Jersey
Jersey City
Jersey Lily
Jersey Shore
Jersey centaury
Jersey cloth
Jersey cream
Jersey elm
Jersey fir
Jersey lightning
Jersey white giant
Jerseyan
Jerseyite
Jerseyman
Jerseyville
Jerubbaal
Jerubbal
Jerusalem
Jerusalem Bible
Jerusalem Delivered
Jerusalem artichoke
Jerusalem cherry
Jerusalem corn
Jerusalem cross
Jerusalem date
Jerusalem oak
Jerusalem sage
Jerusalemite
Jervis
Jervis Bay
Jerz
Jes
Jesh
Jesher
Jasmine
Jespersen
Jess
Jessa
Jessabell
Jessalin
Jessalyn
Jessamine
Jessamy
Jesse
Jesse James
Jesse tree
Jesse window
Jessean
Jessee
Jesselton
Jesselyn
Jessen
Jessery
Jessi
Jessica
Jessie
Jessieville
Jessika
Jessore
Jessup
Jessy
Jestude
Jesu
Jesuate
Jesuit
Jesuit bark
Jesuit berry
Jesuit style
Jesuit ware
Jesuitied
Jesuitess
Jesuitic
Jesuitical
Jesuitically
Jesuitisation
Jesuitise
Jesuitised
Jesuitish
Jesuitising
Jesuitism
Jesuitist
Jesuitization
Jesuitize
Jesuitized
Jesuitizing
Jesuitocracy
Jesuitry
Jesuits' resin
Jesp
Jesus
Jesus Christ
Jesus Haddad
Jesus Maria Castro Leon
Jesus bug
Jesus day
Jesus freak
Jesus of Nazareth
Jet Age
Jet Liner
Jetersville
Jeth
Jethra
Jethro
Jetson
Jew
Jew of Malta, The
Jew plum
Jew-bait
Jew-baiter
Jew-baiting
Jewdom
Jewer
Jewel
Jewelle
Jewess
Jewett
Jewhood
Jewish Autonomous Region
Jewish calendar
Jewish holiday
Jewish priest
Jewish star
Jewish vote
Jewishly
Jewishness
Jewism
Jewless
Jewlike
Jewling
Jewries
Jewry
Jews
Jewish
Jewstone
Jewy
Jez
Jezabel
Jim-Crow
Jimenez
Jimmie
Jimmy
Jimmy Arias
Jimmy Bungs
Jimmy Demaret
Jimmy Green
Jimmy Valentine
Jimmy Woodser
Jimnez
Jimnez de Cisneros
Jimson weed
Jinan
Jincan
Jinghis Khan
Jinja
Jinnah
Jinny
Jinsen
Jinx
Jiri Hrdina
Jit
Jivaran
Jivaro
Jivaroan
Jivaros
Jkping
Jl
Jno
Jnr
Jo
Jo Ann
Jo block
Jo-Ann
Jo-Anne
JoAnn
JoAnne
Joab
Joachim
Joachima
Joachimite
Joacima
Joacimah
Joakim Nystrom
Joan
Joan Baez
Joan of Arc
Joana
Joane
Joanie
Joann
Joanna
Joanne
Joannes
Joannite
Joao
Joao Figueiredo
Joao Neves Dafontoura
Joao Pessoa
Joao Vasco Goncalves
Joappa
Joaquin
Joaquin Andujar
Joaquin Balaguer
Joaquin Chamorro
Joas
Joash
Joashus
Job
Job Corps
Job's comforter
Job's-tears
Jobcentre
Jobe
Jobey
Jobi
Jobie
Jobina
Jobstown
Joby
Jobye
Jobyna
Jocasta
Jocaste
Jocelin
Joceline
Jocelyn
Jocelyn Lemieux
Jocelyne
Jocelynne
Jochabed
Jochbed
Jochebed
Jochum
Jock
Joelle
Joellen
Joelly
Joellyn
Joelton
Joelynn
Joerg
Joes
Joete
Joette
Joey
Joey Hooker
Joeys
Joffre
Jogjakarta
Jogme Dorji
Jogues Egan
Joh
Johan
Johan Kriek
Johanan
Johann
Johanna
Johannah
Johannean
Johannes
Johannesburg
Johannessen
Johannine
Johannine Epistles
Johannisberger
Johanniist
Johannite
Johansen
Johanon
Johansson block
Johathan
Johen
Johiah
Johm
John
John Akii-Bua
John Backe
John Barghoorn
John Barleycorn
John Birch Society
John Brademas
Joiada
Joice
Joiner
Joinerville
Joint Chiefs of Staff
Joinville
Joinville
Jojo
Jokai
Jokjakarta
Joktan
Jola
Jolanta
Jolda
Jolee
Joleen
Jolene
Jolenta
Joletta
Joli
Jolie
Joliet
Joliette
Joline
Joliot-Curie
Jolivet
Jolla
Jollanta
Jollenta
Jolley
Jolly Roger
Jolly balance
Jolo
Joloano
Jolon
Jolson
Joly
Jolyn
Jolynn
Jomo
Jomo Kenyatta
Jon
Jon Koncak
Jon Sundvold
Jona
Jonah
Jonahesque
Jonahism
Jonancy
Jonas
Jonas Savimbi
Jonathan
Jonathan Leabua
Jonathan Oldbuck
Jonathan Wild
Jonathan spot
Jonathanization
Jonathon
Jonati
Jonben
Jone
Jonel
Jonell
Jones
Jonesboro
Jonesborough
Jonesburg
Joneses
Jonesian
Jonesport
Jonestown
Jonesville
Jonette
Jongkind
Joni
Jonie
Jonina
Jonis
Jonker diamond
Jonkoping
Jonme
Jonna
Jonny
Jonquil
Jonson
Jonsonian
Jonval
Joo
Joon
Joop Den Uyl
Jooss
Joost
Jooste
Jopa
Jophiel
Joplin
Jose Blandon
Jose Canseco
Jose Cortinas
Jose Eduardo dos Santos
Jose Giral
Jose Higueras
Jose Iturbi
Jose Miro Cardona
Jose Napoleon Duarte
Jose Pinheiro de Azevedo
Jose Ramon Guizado
Jose Rijo
Jose Uribe
Josee
Josef
Josef Altstoetter
Josef Begun
Josef Ertl
Josef Hermann du Fhues
Josefa
Josefina
Joseito
Joselow
Joselyn
Josep
Joseph
Joseph Addabbo
Joseph Alioto
Joseph Beirne
Joseph Bernadin
Joseph Biden
Joseph Bonaparte Gulf
Joseph Chagra
Joseph Charyk
Joseph Cicippio
Joseph Cloutier
Joseph Crescente
Joseph Garrahy
Joseph Helmich
Joseph II
Joseph Karasiewicz
Joseph Smith
Joseph Surface
Joseph of Arimathae
Joseph of Arimathaea
Joseph's coat
Joseph's-coat
Josepha
Judaeophile
Judaeophilism
Judaeophobe
Judaeophobia
Judah
Judah I
Judah ha-Levi
Judah ha-Nasi
Judahite
Judaic
Judaica
Judaical
Judicaally
Judaisation
Judaize
Judaised
Judaizing
Judaism
Judaist
Judaistic
Judaisically
Judaisation
Judaize
Judaized
Judaizer
Judaizing
Judas
Judas Iscariot
Judas Maccabaeus
Judas Priest
Judas candlestick
Judas goat
Judas kiss
Judas light
Judas torch
Judas tree
Judas-ear
Judas-like
Judaslike
Judd
Jude
Jude the Obscure
Judea
Judean
Judenberg
Judeo-Christian belief
Judeo-Christian religion
Judeo-Christian tradition
Judeo-German
Judeo-Spanish
Judeophobia
Judette
Judezmo
Judg
Judge
Judge Advocate General
Judge and His Hangman, The
Judges
Judgment
Judgment Day
Judgment of Paris
Judi
Judica
Judiciary
Judie
Judith
Juditha
Judson
Juden
Judson
Judsonia
Judus
Judy
Judye
Jueta
Juetta
Juga
Jugatae
Jugerdemidyn Gurraycha
Jugendstil
Juggernaut
Juggernautish
Juglandaceae
Juglandales
Juglans
Jugoslav
Jugoslavia
Jugoslovian
Jugoslavic
Jugulares
Jugurtha
Jugurthine
Juieta
Juif Errant, Le
Juilo de Armas
Juin
Juiz de Fora
Jujuy
Jukes
Jul
Jule
Julee
Jules
Julesburg
Juletta
Juley
Juli
Julia
Juliaetta
Julian
Julian Alps
Julian Day
Julian calendar
Juliana
Juliane
Julianist
Juliann
Julianna
Julianne
Juliano
Julidae
Julide
Julie
Julie Fie
Julien
Julienne
Julies
Juliet
Juliet cap
Juliesta
Julettta
Juliette
Julina
Juline
Julio
Julio Duran
Julis
Julissa
Julita
Julius
Julius Caesar
Julius Hoste
Julius I
Jungermanniales
Jungfrau
Junggrammatiker
Jungian
Jungian psychology
Jungle Books, The
Jungle, The
Juni
Junia
Juniata
Junie
Junieta
Junina
Junior
Junior Leaguer
Junior league
Junior leaguer
Juniperaceae
Juniperus
Junius
Junji
Junker
Junkerdom
Junkerism
Junkers
Junko
Junna
Junno
Juno
Juno and the Paycock
Junoesque
Junonia
Junonian
Junot
Junr
Junta
Juntura
Jupiter
Jupiter Fidius
Jupiter Fulgur
Jupiter Fulminator
Jupiter Optimus Maximus
Jupiter Pluvius
Jupiter Symphony
Jupiter Tonans
Jupiter's-beard
Jur
Jur D
Jura
Jura Mountains
Jura-trias
Jura-triassic
Jurane
Juranon
Jurassic
Jurdi
Jurez
Jurgen
Jurkoic
Juru
Jurua
Jusepe de Ribera
Jusserand
Jussi
Jussiaea
Jussiaean
Jussieu
Just
Justa
Justen
Juster
Justice
Justice general
Justice of the Supreme Court
Justice-generalship
Justiceburg
Justicia
Justicz
Justin
Justin Martyr
Justina
Justine
Justinian
Justinian Code
Justinian I
Justinianean
Justinianian
Justinianist
Justinn
Justino
Justis
Justitia
Justus
Juta
Jute
Jutic
Jutish
Jutland
Jutlander
Jutlandish
Jutta
Juturna
Juvara
Juvarra
Juvavian
Juvenal
Juvenalian
Juventa Fons
Juventas
Juverna
Juxon
Juyas
Juza
Juznik
Jwanai
Jy
Jylland
Jympye
Jynginae
Jynx
Jyoti
K
K O
K St J
K line
K o
K radiation
K ration
K rays
K series
K star
K truss
K'ang-te
K's
K'ung Fu-tse
K-I bombsight
K-line
K-meson
K-particle
K-radiation
K-series
K-shaped
K-term
K-truss
Kajaani
Kajar
Kajdan
Kakalina
Kakan
Kakatoe
Kakatoidae
Kal
Kala
Kala-Azar
Kalagher
Kalahari
Kalahari Desert
Kalaheo
Kalakh
Kalama
Kalamazoo
Kalamian
Kalamist
Kalanchoe
Kalandarhia
Kalang
Kalapooian
Kalasky
Kalat
Kalaupapa
Kalb
Kalbli
Kaldani
Kale
Kaleb
Kaleena
Kalekah
Kaleme
Kalendae
Kaleva
Kalevala
Kalfas
Kalgan
Kalgoorlie
Kali
Kali Yuga
Kaliana
Kalida
Kalidasa
Kalie
Kalikow
Kalil
Kalila
Kalimantan
Kalin
Kalina
Kalinda
Kalindi
Kalinga
Kalinin
Kaliningrad
Kaliope
Kalisch
Kaliski
Kalispel
Kalispell
Kalisz
Kaliyuga
Kalk
Kalkaska
Kalki
Kall
Kalle
Kalli
Kallick
Kallikak
Kallima
Kallinge
Kallista
Kallman
Kally
Kalman
Kalmar
Kalmar Sound
Kalmarian
Kalmia
Kalmick
Kalmuck
Kalmuk
Kalona
Kalaskag
Kaltman
Kaluga
Kalvesta
Kalvin
Kalvn
Kalwar
Kam
Kama
Kamadhenu
Kamakura
Kamal
Kamal Hassan Ali
Kamal Junblatt
Kamaloka
Kamares
Kamaria
Kamas
Kamasin
Kamass
Kamasutra
Kamat
Kamay
Kamba
Kamchadal
Kamchatka
Kamchatkan
Kamehameha Day
Kamehameha I
Kameko
Kamenic
Kamensk-Ural'ski
Kamerad
Kamerman
Kamerun
Kamet
Kamiah
Kamikaze
Kamila
Kamilah
Kamillah
Kamin
Kamina
Kamloops
Kammerchor
Kammerer
Kamp
Kampala
Kampliles
Kampmann
Kampmeier
Kampong
Kampsville
Kampuchea
Kamrar
Kamsa
Kamuela
Kan
Karelian
Karelian Isthmus
Karen
Karena
Karens
Karharbari
Kari
Kari Takko
Karla
Kariba
Karie
Karil
Karilla
Karilynn
Karim
Karin
Karina
Karine
Kariotta
Karisa
Karissa
Karita
Karl
Karl Albac
Karl Henize
Karl-Marx-Stadt
Karla
Karlan
Karlee
Karleen
Karlen
Karlene
Karlens
Karlfeldt
Karli
Karlie
Karlik
Karlin
Karling
Karlis
Karlis Detlaeus
Karliise
Karloff
Karlotta
Karlotte
Karlovy Vary
Karlow
Karlsbad
Karlsruhe
Karlstad
Karluik
Karly
Karlyn
Karma
Karman street of vortices
Karman trail
Karmathian
Karmen
Karna
Karnack
Karnak
Karnatak music
Karnataka
Karney
Karol
Karola
Karole
Karolina
Karoline
Karoly
Karoly Janza
Karolyn
Karon
Karoo
Karp
Karpov
Karr
Karrah
Karrer
Karrie
Karroo
Karroos
Karry
Kars
Karshuni
Karst
Karsten
Karthaus
Karthli
Kartis
Karttikeya
Kartvel
Kartvelian
Karval
Karwan
Karwinskia
Kary
Karyl
Karylin
Karyn
Karynne
Karyolysidae
Karyolysus
Kas
Kasai
Kasaji
Kasavubu
Kasbah
Kasbeer
Kasbek
Kase
Kasevich
Kasey
Kasha
Kashan
Kashden
Kashgar
Kashmir
Kashmir goat
Kashmir rug
Kashmiri
Kashmirian
Kashmiris
Kashoubish
Kashruth
Kashube
Kashubian
Kashyapa
Kasigluk
Kasikumuk
Kasilof
Kask
Kaska
Kaskaskia
Kaslik
Kasota
Kaspar
Kasper
Kasperak
Kass
Kassa
Kassab
Kassak
Kassala
Katti
Kattie
Kattowitz
Katuf
Katukina
Katuscha
Katusha
Katushka
Katy
Katya
Katya Lycheva
Katyusha
Katz
Katzen
Katzir
Katzman
Kauai
Kauffman
Kauffmann
Kaufman
Kaufmann
Kaukauna
Kaule
Kaumakani
Kaunakakai
Kaunas
Kaunda
Kauppi
Kauravas
Kaus australis
Kaus borealis
Kaus meridionalis
Kauslick
Kautsky
Kavaic
Kavalla
Kavanagh
Kavanaugh
Kavaphis
Kaveri
Kavi
Kavir Desert
Kavita
Kavla
Kaw
Kawabata
Kawaguchi
Kawai
Kealakekua
Kealey
Kealia
Kean
Keane
Keansburg
Keare
Kearney
Kearneysville
Kearns
Kearny
Kearsarge
Keary
Keasbey
Keatchie
Keating
Keaton
Keats
Keatsian
Keavy
Keb
Keble
Kechi
Kechua
Kechuan
Kechuans
Kechuas
Kechumaran
Kecskem
Kecskemet
Kedah
Kedar
Kedarite
Keddie
Kediri
Kedron
Kedushah
Kedushoth
Kedushshah
Kee
Keedysville
Keefe
Keefer
Keegan
Keego Harbor
Keel
Keelby
Keele
Keeler
Keeley
Keelia
Keelie
Keelin
Keeline
Keeling Islands
Keelung
Keely
Keen
Keenan
Keene
Keene's cement
Keener
Keenes
Keenesburg
Keensburg
Keese
Keeseville
Keeton
Keever
Keewatin
Keezletown
Kefalotir
Kefauver
Keffer
Keflavik
Kefi
Kefitian
Keftiu
Keg
Kegan
Kegley
Keheley
Kehoe
Kehr
Kei
Keid
Keifer
Keighley
Keijo
Keiko
Keil
Keily
Keir
Keiser
Keisling
Keisterville
Kellina
Kellner eyepiece
Kellnersville
Kellogg
Kellogg Peace Pact
Kellogg-Briand Pact
Kellsie
Kelly
Kelly Hrudey
Kelly Tripucka
Kelly green
Kellyann
Kel-lyn
Kellysville
Kellyton
Kellyville
Kelsey
Kelseyville
Kelsi
Kelso
Kelson
Kelsy
Kelt
Keltic
Keltically
Kelti
Keltoi
Kelton
Kelula
Kelvin
Kelvin machine
Kelvin scale
Kelwen
Kelwin
Kelwyn
Kemah
Kemal Atat
Kemalism
Kemalist
Kemble
Kemble
Kemblesville
Kemeny
Kemerovo
Kemi
Kemme
Kemmerer
Kemp
Kempe
Kempis
Kempner
Kemppe
Kempster
Kempton
Ken
Ken Caminiti
Ken Daneyko
Ken Flach
Ken Linseman
Ken Schrader
Ken Wregget
Ken Yaremchuk
Kenai
Kenan Evren
Kenansville
Kenay
Kenaz
Kendal
Kendal green
Kendal sneck bent
Kendalia
Kendall
Kendallville
Kendell
Kendleton
Kendra
Kendrah
Kendre
Kendrew
Kendrick
Kendricks
Kendry
Kenduskeag
Kendy
Kendyl
Kenedy
Kenefic
Kenelm
Kenesaw
Kenhorst
Keniworth
Keniworth ivy
Kenipsim
Kenison
Kenitra
Kenji
Kenlay
Kenlee
Kent
Kent Hrbek
Kent mental test
Kenta
Kenti
Kentia
Kenticism
Kentiga
Kentiger
Kentigerma
Kentiggerma
Kentish
Kentish fire
Kentish tracery
Kentishman
Kentishmen
Kentland
Kenton
Kentuck
Kentuckian
Kentucky
Kentucky Derby
Kentucky bluegrass
Kentucky coffee tree
Kentucky colonel
Kentucky rifle
Kentucky warbler
Kentucky windage
Kentwood
Kenvil
Kenvir
Kenward
Kenway
Kenwee
Kenweigh
Kenwood
Kenrick
Kenya
Kenyan
Kenyatta
Kenyon
Kenzi
Kenzie
Keo
Keogh
Keogh plan
Keokee
Keokuk
Ket
Ketchan
Ketchikan
Ketchum
Keto
Kettering
Ketti
Kettie
Kettlersville
Ketty
Ketu
Ketubim
Keturah
Ketuvim
Keuka College
Keung
Keuper
Kev
Kevan
Keven
Keverian
Keverme
Kevil
Kevin
Kevin Appier
Kevin Hermening
Kevin Loughery
Kevin Lowe
Kevina
Kevon
Kevyn
Kew
Kew Gardens spotted fever
Kewadin
Kewanee
Kewanna
Kewaskum
Kewaunee
Keweenawan
Kewpie
Key
Key Largo
Key West
Keyapaha
Keyek
Keyes
Keyesport
Keyhole nebula
Keylargo
Keymar
Keynes
Keynesian
Keynesian economics
Keynesianism
Keyport
Keyser
Keysertling
Keystone state
Keystoner
Keysville
Keyte
Keytesville
Kezer
Kfar Etzion
Kfar Yasif
Kha
Khabarovo
Khabarovsk
Khabur
Khachaturian
Khafaje
Khafre
Khai
Khaibar Pass
Khajeh
Khakass Autonomous Region
Khalde
Khaledian
Khaled
Khalem Bey Azem
Khalid
Khalid ibn Abdul Aziz
Khalifa Hamaas
Khalifat
Khalil
Khalil Abu Hamad
Khalil Wazir
Khalin
Khalk
Khalkha
Khalkidike
Khalkidiki
Khalkis
Khalq
Khalsa
Khama
Khami
Khammurabi
Khamti
Khan
Khang Khay
Khania
Khanna
Khano
Kharia
Kharijite
Kharkov
Kharoshthi
Khartoum
Khartoum North
Khartoumer
Khartum
Kharwar
Khas-kura
Khasa
Khasi
Khaskovo
Khatti
Khattish
Khattusas
Khaya
Khaya Biko
Khayy
Khayyam
Khazar
Khazarian
Khe Sanh
Kheim Coung
Khelat
Khem
Khenifra
Kherson
Kherwari
Kherwarian
Khezvur
Khiam
Khichabia
Khieu
Khila
Kheingan Mountains
Khios
Khirbet Qumran
Khitai
Khiva
Khivan
Klustino
Khyst
Khysti
Khysts
Khysty
Khmer
Khmer Republic
Khmer Rouge
Khnum
Kho
Khoi
Khoi-khoi
Khoikhoi
Khoin
Khoiki
Khoisan
Khoja
Khojent
Khokani
Khond
Khondarkar Mushtaque Ahmed
Khondi
Khorassan
Khorma
Khorramshahr
Khos
Khosa
Khosrow
Khotan
Khotana
Khotanese
Khoumaini
Khoury
Khowar
Khrushchev
Khuai
Khudari
Khufo
Khulna
Khuussak
Khutbah
Khuzi
Khuzistan
Khuzistan Province
Khwarazmian
Khyber Pass
Khyber knife
Kiernan
Kiersten
Kies
Kiester
Kieta
Kiev
Kievan
Kiewit
Kiffa australis
Kiffa borealis
Kigali
Kigensetsu
Kihei
Kiho
Kiichi Aichi
Kiirun
Kika de la Garza
Kikai
Kikatsik
Kikelia
Kiker
Kiki
Kiki Vandeweghe
Kikldhes
Kikongo
Kikuyu
Kikuyu grass
Kikuyus
Kikwit
Kila
Kilah
Kilan
Kilar
Kilauea
Kilaya
Kilbourne
Kilbride
Kilby
Kildare
Kildare green
Kile
Kiley
Kilgore
Kilhamite
Kilian
Kilimanjaro
Kilk
Kilkenny
Kilkenny cats
Killam
Killanin
Killarney
Killarney fern
Killarney green
Killawog
Killbuck
Kilduff
Killeen
Killed
Killian
Killie
Killiecrankie
Killigrew
Killington
Killion
Killona
Killoran
Killy
Killy Kisio
Kilmarnock
Kilmarnock and Loudon
Kilmarnock bonnet
Kilmarnock willow
Kilmarnock
Kilmarx
Kilmer
Kilmichael
Kiln
Kilpatrick
Kilroy
Kilsyth
Kiluba
Kilung
Kilwich
Kim
Kim Il Sung
Kim Jae-kyu
Kim Jong-pil
Kim-il Sung
Kimball
Kimballton
Kimbuck
Kimbell
Kimber
Kimberlee
Kimberley
Kimberli
Kimberly
Kimberlyn
Kimberton
Kimble
Kimbolton
Kimbra
Kimbundu
Kimeridgian
Kimitri
Kimmel
Kimmell
Kimmi
Kimmie
Kimmochi
Kimmswick
Kimmy
Kimon
Kimper
Kimpo
Kimura
Kimura term
Kin
Kinabalu
Kinards
Kinata
Kinau
Kincaid
Kincardine
Kincardineshire
Kin
Kincheloe
Kinchen
Kinchinjunga
Kind
Kinde
Kinder
Kinderhook
Kindertotenlieder
Kindig
Kindu
Kindu-Port-Empain
Kinelski
King
King Charles spaniel
King George's War
King Hassan
King Horn
King Hussein
King James Bible
King James Version
King James' Bible
King John
King Kauai
King Khaled
King Lear
King Philip's War
King William's War
King of Glory
King of Heaven
King of Kings
King of Kings and Lord of Lords
King of kings
King of the Jews
King's Bench
King's Birthday
King's Bounty
King's Champion
King's Council
King's Counsel
King's English
King's English, the
King's Lynn
King's Proctor
King's Regulations
King's Remembrancer
King's Scout
King's clover
King's counsel
King's highway
King's mark
King's proctor
King's speech
Kingchow
Kingdom Hall
Kingdon
Kingfield
Kingfisher
Kinghorn
Kinglake
Kingman
Kingmont
Kings
Kings Canyon National Park
Kings Mountain
Kings Park
Kings Point
Kingsburg
Kingsbury
Kingsdown
Kingsford
Kingsland
Kingsley
Kingsly
Kingsport
Kingston
Kingston upon Hull
Kingston upon Thames
Kingston-upon-Hull
Kingstown
Kingstree
Kingsville
Kingtehchen
Kingu
Kingwana
Kingwood
Kinhwa
Kinipetu
Kinkaid
Kinkaid Act
Kinkaider
Kinkozan ware
Kinloch
Kinmundy
Kinna
Kinnard
Kinnear
Kinnelon
Kinney
Kinnie
Kinnon
Kinny
Kinorhyncha
Kinosternidae
Kinosternon
Kinross
Kinrossshire
Kinsale
Kinsey
Kinshasa
Kinshasha
Kinsler
Kinsley
Kinsman
Kinson
Kirchoff
Kirghiz
Kirghiz Steppe
Kirghizean
Kirghizes
Kirghizia
Kirghiz Soviet Socialist Republic
Kiri
Kiribati
Kirichenko
Kirilenko
Kirillitsa
Kirima
Kirimia
Kirin
Kirit
Kiriwina
Kirk
Kirkby
Kirkcaldy
Kirkcudbright
Kirkcudbrightshire
Kirkenes
Kirkersville
Kirkland
Kirklin
Kirkman
Kirkpatrick
Kirksey
Kirksville
Kirkuk
Kirkville
Kirkwall
Kirkwood
Kirlian photography
Kirmanshah
Kiron
Kironde
Kirov
Kirovabad
Kirovograd
Kirsch
Kirschner
Kirshbaum
Kirst
Kirsten
Kirsteni
Klagshamn
Klaipeda
Klamath
Klamath Falls
Klamath Lakes
Klamath weed
Klamaths
Klan
Klangfarbe
Klanism
Klansman
Klansmen
Klanswoman
Klapp
Klappvisier
Klaproth
Klara
Klarika
Klarrisa
Klaskino
Klatt
Klaus
Klaus Croissant
Klausenburg
Klavier
Klaxon
Klayman
Klber
Kleber
Klebs
Klebs-Löffler bacillus
Klebsiella
Klecka
Klee
Kleeman
Kleenex
Kleffens
Klehm
Kleiber
Kleiman
Klein
Klein bottle
Kleinfelter's syndrome
Kleinian
Kleinstein
Kleist
Kleistian
Klemens
Knightsville
Knigsberg
Knigshte
Knik
Knin
Knipe
Kniphobia
Knippa
Knisteneaux
Knitra
Knitter
Knobel
Knoblick
Knobloch
Knobnoster
Knoke
Knoll
Knoop scale
Knorria
Knorring
Knossian
Knossos
Knott
Know-Nothin Party
Know-Nothin party
Know-nothingism
Knowland
Knowle
Knowles
Knowlesville
Knowling
Knowlton
Knox
Knox dolomite
Knox system
Knoxboro
Knoxdale
Knoxian
Knoxville
Knt
Knudsen
Knudsen effect
Knudson
Knut
Knute
Knuth
Knutsen
Knutson
Kolyma Range
Komara
Komarek
Komati
Kome
Komi
Komintern
Kommunarsk
Kommunizma Peak
Komodo dragon
Komondor
Komondorok
Komondors
Komsa
Komsomol
Komsomolsk
Komura
Kon Tiki
Kona
Konakri
Konakry
Konarak
Konariot
Konawa
Konda vogul
Konde
Kondon
Kone
Koner
Konev
Kong
Kongo
Kongoese
Kongolese
Konia
Konia-ladik
Koniaga
Konig
Koniga
Koniggratz
Konigsberg
Konigshutte
Konikow
Konkani
Kono
Konomihu
Konopka
Konoye
Krischer
Krisha
Krishna
Krishna Menon
Krishnah
Krishnaism
Krishnaist
Krishnaite
Krishnaitic
Krispin
Kriss
Kriss Kringle
Kriss kringle
Krisse
Krissy
Krisa
Kristal
Kristan
Kriste
Kristel
Kristen
Kristi
Kristi Yamaguchi
Kristian
Kristiansand
Kristianson
Kristianstad
Kristie
Kristien
Kristin
Kristina
Kristinaux
Kristine
Kristmann
Kristo
Kristof
Kristofer
Kristoffer
Kristofor
Kristoforo
Kristopher
Kristos
Kirsty
Kirstyn
Krita Yuga
Krita yuga
Krithia
Krivoi Rog
Krustyna
Kshatriya
Kshatriyahood
Kt
Kten
Kthira
Ku
Ku Klux
Ku Klux Klan
Ku Klux Klanner
Ku Kluxer
Ku Kluxery
Ku Kluxism
Ku klux klanner
Ku-Klux
Ku-klux
Ku-klux act
Ku-klux klan
Ku-kluxer
Ku-kluxism
Kua
Kuala Lumpur
Kualapuu
Kuan
Kuan Ti
Kuan Yin
Kuan hua
Kuan yin
Kuan-tung
Kuangchou
Kuantan
Kuar
Kuba
Kubachi
Kuban
Kubango
Kubanka
Kubelik
Kubera
Kubetz
Kubiak
Kubilai Khan
Kubis
Kubla Khan
Kublai Khan
Kubrick
Kuch Bihar
Kuchean
Kurile Islands
Kurilian
Kurku
Kurland
Kurma
Kurman
Kurmi
Kuroki
Kuropatkin
Kurosawa
Kuroushio
Kurr
Kursaal
Kursh
Kursk
Kurt
Kurt Debus
Kurt Nimphius
Kurt Waldheim
Kurten
Kurth
Kurthwood
Kurtis
Kurtistown
Kurtz
Kurtzig
Kurtzman
Kuruba
Kurukh
Kurumba
Kurume azalea
Kurus
Kurusu
Kurys
Kurzawa
Kurzeme
Kus
Kusan
Kusche
Kush
Kushner
Kushshu
Kusin
Kuska
Kuskokwim
Kuskwogmiut
Kussell
Kustanai
LAIS
LAL
LAM
LAMA
LAMDA
LAN
LANCE
LANL
LAO
LAP
LAPB
LAPD
LAPM
LAR
LARC
LASER
LASS
LAT
LATA
LATIS
LAVC
LAW radar
LAX
LB
LBHS
LBJ
LBL
LBO
LBP
LBS
LC
LCA
LCAMOS
LCC
LCCIS
LCCL
LCCLN
LCD
LCDN
LCDR
LCF
LCI
LCIE
LCJ
LCL
LCLOC
LCM
LCN
LTL
LTP
LTPD
LTS
LTV
LTVR
LTh
LU
LUG
LUN
LUT
LV
LW
LWL
LWM
LWP
LWSP
LWT
LXE
LXX
LZ
La
La Belle Dame Sans Merci
La Bouille
La Bruy
La Casa de Bernarda Alba
La Ceiba
La Celestina
La Chaise
La Chartreuse de Parme
La Chute
La Condition Humaine
La Coruna
La Crescent
La Crosse
La Cumbre
La Farge
La Fayette
La Feria
La Folle de Chaillot
La Follette
La Fontaine
La Fresnaye
La Gioconda
La Grande
La Grange
La Granja
La Guaira
Laaland
Laaspere
Lab
Labadie
Labadievile
Laban
Labana
Laband
Labanna
Labannah
Labarge
Labdacus
Labe
Labiatae
Labiche
Labidura
Labiduridae
Labolt
Labor Day
Labor Party
Labor and Public Welfare
Labor charter
Labor church
Labor day
Labor ministry
Labor party
Labor-Management Relations Act
Laborism
Laborite
Labors
Laboulbenia
Laboulbeniaceae
Laboulbeniales
Labour Day
Labour Exchange
Labour Party
Labour party
Labourism
Labourite
Labrador
Labrador Current
Labrador Retriever
Labrador current
Labrador dog
Labrador duck
Labrador feldspar
Labrador herring
Labrador jay
Labrador pine
Labrador retriever
Labrador spar
Labrador spruce
Labrador tea
Labrador violet
Labrador whitefish
Labrador-Ungava
Labradorean
Labradorian
Labridae
Labroidea
Labrosaurus
Labrus
Labuan
Laburnum
Labyrinth
Labyrinthibranchii
Labyrinthici
Labyrinthodon
Labyrinthodonta
Labyrinthula
Labyrinthulidae
Lacagnia
Lacaillé
Lacamp
Lacarne
Lacassine
Laccadive
Lacedaemon
Lacedaemonian
Lacee
Lacefield
Lacerta
Lacertae
Lacertid
Lacertidae
Lacertilia
Lacertilian
Lacey
Laceyville
Lach
Lachaise
Lachance
Lachenalia
Lachesis
Lachine
Lachish
Lachlan
Lachman
Lachnanthes
Lachnosterna
Lachryma Christi
Lachryma christi
Lachus
Lacie
Lacinaria
Lack-learning parliament
Lackawanna
Lackawaxen
Laclede
Laclos
Lacombe
Lacon
Lacona
Laconia
Laconian
Laconic
Lacoochee
Lacosomatidae
Lacoste
Lacota
Lacrescent
Lacretelle
Lacrima Christi
Lacroix
Lacrosse
Lactantius Firmianus
Lactarius
Lactobacillus
Lactuca
Lacus Mortis
Lacus Solis
Lacus Somniorum
Lacy
Lacy knot
Lacygne
Lad
Ladakhi
Ladd
Ladd-franklin theory
Laddie
Laddonia
Laddy
Laden
Ladenburg flask
Ladew
Ladies Aid
Ladies Auxiliary
Ladies' Day
Ladiesburg
Ladik
Ladin
Ladino
Ladino clover
Ladinos
Ladislas
Ladislaus
Ladislaus I
Ladislaus de Bardossy
Ladoga
Ladon
Ladonia
Ladonna
Ladora
Ladrone Islands
Ladrones
Ladson
Ladue
Lady
Lady Baltimore cake
Lady Banks' rose
Lady Bountiful
Lady Chapel
Lady Chatterley's Lover
Lady Day
Lady Fortune
Lady Luck
Lady Mass
Lady Washington geranium
Lady Windermere's Fan
Lady altar
Lady bell
Lady chapel
Lady day
Lady eve
Lady in the Chair
Lady mass
Lady nicotine
Lady of the Camellias
Lady of the Camellias
Lady of the Camellias, The
Lady of the Lake
Lady of the Lake, The
Lady psalter
Lady quarter
Lady's Not for Burning, The
Ladyship
Ladysmith
Ladytide
Lae
Lael
Laelaps
Laelia
Laelius
Laemmle
Laemodipoda
Laennec
Laertes
Laertiades
Laestrygon
Laestrygones
Laestrygonians
Laetare Sunday
Laetare sunday
Laetitia
Laevigrada
Lafarge
Lafargeville
Lafayette
Lafayette Lever
Lafayette formation
Laftario
Lafcadio
Lafcadio's Adventures
Laferia
Lafferty
Laffit Pincay
Laffite
Lafite
Lafitte
Laflam
Lafleur
Lafollette
Lafontaine
Laforge
Laforgue
Lafox
Lafrance
Lag b'Omer
Lag bomer
Lagas
Lagash
Lagasse
Lagenaria
Lager
Lagerkvist
Lagerl
Lagerlof
Lagerstroemia
Lagetta
Laghouat
Lagomorpha
Lagomyidae
Lagoon Islands
Lagopus
Lagorchestes
Lagos
Lagos bass
Lagos ebony
Lagos rubber
Lagostomus
Lagothrix
Lagrange
Lagrange multipliers
Lagrange theorem
Lagrange's method
Lagrangeville
Lagrangian
Lagrangian function
Lagrima cristi
Lagro
Lagthing
Lagting
Laguerre
Laguerre equation
Laguiole
Laguna
Laguna Beach
Laguncularia
Lagunero
Lagunitas
Lagurus
Lahabra
Lahaina
Lahaina disease
Lahamu
Laharpe
Lahaska
Lahey
Lahmansville
Lahmu  
Lahnda  
Lahoma  
Lahontan  
Lahore  
Lahore party  
Lahouari Godih  
Lahti  
Lahuli  
Lai  
Laibach  
Laidlaw  
Laie  
Lail  
Laina  
Laine  
Lainey  
Laing  
Laings  
Laingsburg  
Laird  
Lairdsville  
Lais  
Laise  
Laissez faire  
Lait  
Laith  
Laius  
Lajas  
Lajoie  
Lajos  
Lajos Dinnyes  
Lajose  
Lak  
Lake  
Lake Agassiz  
Lake Amin  
Lake Aral  
Lake Arthur  
Lake Bluff  
Lake Carmel  
Lake Charles  
Lake Country  
Lake District  
Lake Erie  
Lake Forest  
Lake Geneva  
Lake Isle of Innisfree, The
Lake Jackson
Lake Mills
Lake Mobutu
Lake Orion
Lake Park
Lake Perugia
Lake Placid
Lake Poets
Lake Providence
Lake School
Lake Success
Lake Tiberias
Lake Trasimenum
Lake Tsana
Lake Village
Lake Wales
Lake Worth
Lake Worth Village
Lake Zurich
Lake algonquin
Lake of Death
Lake of Dreams
Lake of the Four Forest Cantons
Lake of the Sleepers
Lake of the Woods
Lake whittlesey
Lakehurst
Lakeland
Lakeland terrier
Lakemore
Lakeview
Lakewood
Lakin
Lakme
Lakota
Laks
Lakshadweep
Lakshadweep Islands
Lakshmi
Lakshmi Kant Jha
Laktasic
Lal
Lala
Lalage
Lalande
Lali
Lalique glass
Lalise
Lancastrian
Lance
Lancelle
Lancelot
Lancey
Lanchow
Lancing
Lancs
Lanctot
Land
Land dyak
Land league
Land of Beulah
Land of Liberty
Land of Milk and Honey
Land of Youth
Land of the Leal
Land of the Midnight Sun
Land of the Rising Sun
Land of the Rose
Land's End
Land-leaguer
Land-leaguism
Landa
Landahl
Landan
Landau
Landbert
Landel
Landenberg
Landeer
Landers
Landes
Landeshauptmann
Landess
Landing
Landingville
Landini
Landini cadence
Landino
Landis
Landisburg
Landisville
Landmarker
Landmeier
Lando
Landolphia
Landon
Landor
Landowska
Landrace
Landre
Landri
Landrum
Landrum-Griffin Act
Landry
Landsborough grass
Landseer
Landshut
Landsm'
Landsmaal
Landsman
Landsteiner
Landsting
Landsting
Landsturm
Landtag
Landuman
Landus
Landville
Landwehr
Landy
Lane
Lane Dwinell
Lane Lambert
Laneburg
Lanesboro
Lanesville
Lanett
Lanette
Lanerview
Lanefield
Lanexa
Laney
Lanford
Lanfranc
Lanfri
Lang
Langan
Langbehn
Langdon
Lange
Langelo
Langeloth
Lanni
Lannie
Lannon
Lanny
Lansberg
Lansdale
Lansdowne
Lanse
Lansford
Lansing
Lanta
Lantana
Lantha
Lanthanotidae
Lanthanotus
Lanti
Lantry
Lantsang
Lantz
Lanuvian
Lanza
Lao
Lao-tse
Lao-tzu
Laoag
Laocoon
Laodamas
Laodamia
Laodice
Laodicea
Laodicean
Laodiceanism
Laodocus
Laoghis
Laomedon
Laon
Laona
Laos
Laothoe
Laotian
Laotto
Laotze
Lapageria
Laparosticti
Lapaz
Lapeer
Lapeirousia
Lapeyrouse
Lapham
Laphria
Laphystius
Lapides
Lapine
Lapith
Lapithae
Lapithaean
Lapiths
Laplace
Laplace equation
Laplace operator
Laplace pressure
Laplace station
Laplace transform
Laplace's equation
Laplacian
Laplacian distribution
Lapland
Lapland cornel
Lapland longspur
Lapland pine
Laplander
Laplandian
Laplantic
Laplandish
Lapointe
Laportea
Lapotin
Lapp
Lappa
Lappeenranta
Lappic
Lappish
Lapponese
Lapponian
Lappula
Lapryor
Lapsana
Lapsang souchong
Lapsey
Laptev Sea
Laputa
Laputan
Lapwai
Laquey
Lar
Lara
Later Han
Lateran
Lateran Council
Lateran Palace
Lateran palace
Laterigradae
Latexo
Latham
Lathan
Lathe
Lathraea
Lathrop
Lathrope
Lathyrus
Lati
Latia
Latian
Latif
Latimer
Latimeria
Latimore
Latin
Latin America
Latin American
Latin Christianity
Latin Church
Latin Quarter
Latin Rite
Latin alphabet
Latin cross
Latin school
Latin square
Latin-American
Latin-american
Latina
Latinate
Latinate diction
Latiner
Latinesce
Latinesque
Latini
Latinian
Latinic
Latiniform
Latinisation
Latinise
Latinised
Latinising
Latinism
Latinist
Latinistic
Latinistical
Latinitaster
Latinity
Latinization
Latinize
Latinized
Latinizer
Latinizing
Latinless
Latino
Latin sine flexione
Latinus
Latinostres
Latinus
Latisha
Latitia
Latitudinarian
Latium
Laton
Latona
Latonia
Latoniah
Latonian
Latooka
Latouche
Latour
Latoya
Latoye
Latoyia
Latreece
Latreece
Latrel
Latrel
Latrel
Latreena
Latreshia
Latrice
Latricia
Latrididae
Latrina
Latris
Latrobe
Latrodectus
Latt
Latta
Latter-day Saint
Latterll
Laurocerasus
Laurus
Lauryn
Laus deo
Lausanne
Lauter
Lautreamont
Lautrec
Lautverschiebung
Laux
Lauzon
Lavabo
Lavada
Laval
Lavalette
Lavalle
Lavallette
Lavandula
Lavater
Lavatera
Laveen
Lavehr
Lavella
Lavelle
Laven
Lavena
Laver
Laveran
Laverania
Lavergne
Laverkin
Lavern
Laverna
Laverne
Lavernia
Lavery
Laveta
Lavi
Lavilla
Lavina
Lavine
Lavinia
Lavinie
Lavoie
Lavoisier
Lavon
Lavona
Lavonia
Lavonne
Lavrenti Beria
Law
Law French
Law Lords
Law Society
Law bible
Law of Moses
Lawai
Laward
Lawen
Lawes
Lawford
Lawler
Lawley
Lawlor
Lawman
Lawndale
Lawnside
Lawrence
Lawrence Fouraker
Lawrence Park
Lawrence frame
Lawrenceburg
Lawrenceville
Lawrencian
Lawrenson
Lawrentian
Lawrie
Lawry
Laws
Lawson
Lawstone
Lawsonville
Lawtell
Lawtey
Lawton
Lawtons
Lawtun
Lawyersville
Laxness
Lay
Lay of the Last Minstrel, The
Lay parliament
Layamon
Layard
Layia
Le Jeune
Le Juif Errant
Le Mans
Le Marche
Le Mars
Le Misanthrope
Le Nain
Le Nozze di Figaro
Le Petit Prince
Le Rouge et le Noir
Le Roy
Le Sage
Le Soulier de Satin
Le Sueur
Le Touquet
Le Vau
Le phoenix
Le seat
LeBrun
LeCroy
LeDoux
LeMay
LeRoy
LeVitus
Lea
Leach
Leachville
Leacock
Lead
Leaday
Leadbelly
Leadore
Leadville
Leadwood
Leaf
League of Nations
Leah
Leahey
Leahy
Leake
Leakesville
Leakey
Leal
Leamington
Leamington Spa
Lean
Leanard
Leander
Leandra
Leandre
Leandro
Leaning Tower of Pisa, The
Leann
Leanna
Leanne
Leanor
Leanora
Leao
Leaper
Lear
Learchus
Learned
Learoy
Learoyd
Leary
Leasburg
Leasia
Leather-Stocking Tales
Leatherette
Leatherhead
Leatheroid
Leatherstocking
Leatherwood
Leatri
Leatrice
Leavelle
Leavenworth
Leaves of Grass
Leavis
Leavitt
Leavittsburg
Leavy
Leawood
Lebam
Leban
Lebanese
Lebanon
Lebanon Mountains
Lebanon cedar
Lebar
Lebaron
Lebbie
Lebeau
Lebec
Lebensraum
Lebesgue
Lederer
Ledger
Ledgewood
Ledidae
Ledoux
Ledum
Ledyard
Lee
Lee Fogolin
Lee Iacocca
Lee's Birthday
Lee-Enfield
Lee-Jackson Day
Lee-Metford
LeeAnn
Leeann
Leeanne
Leechburg
Leeco
Leede
Leedey
Leeds
Leeds pottery
Leegrant
Leeeke
Leela
Leelah
Leeland
Leemont
Leena
Leeper
Leeroy
Leersia
Lees Summit
Leesa
Leesburg
Leese
Leesen
Leesport
Leesville
Leet
Leeth
Leeton
Leetonia
Leetsdale
Leeuwarden
Leeuwenhoek
Leeuwfontein
Leiotrichinae
Leipoa
Leipsic
Leipzig
Leipzig yellow
Leiria
Leis
Leisenring
Leiser
Leisha
Leishmania
Leisten
Leitao
Leitch's blue
Leitchfield
Leiter
Leistersford
Leith
Leitman
Leitneria
Leitneriaceae
Leitneriales
Leitrim
Leitus
Leivasy
Leix
Lejeune
Lek
Lela
Lelah
Leland
Leier
Leila
Lelith
Lello
Lely
Lem
Lema
Lemaceon
Lemaireocereus
Lemaitre
Lemal
Leman
Lemanea
Lemaneaceae
Lemar
Lemars
Lemass
Lemasters
Lemberg
Lemcke
Lemessus
Lemhi
Lemieux
Leming
Lemire
Lemitar
Lemkul
Lemmie
Lemminkainen
Lemmon
Lemmuela
Lemmueu
Lemmus
Lemmy
Lemna
Lemnaceae
Lennian
Lennitzer
Lemnos
Lemon
Lemon Grove
Lemonias
Lemoniidae
Lemoniinae
Lemonnier
Lemont
Lemoore
Lemosi
Lemovices
Lemoyen
Lemoyne
Lemper
Lempert operation
Lempres
Lempster
Lemuel
Lemuel gulliver
Lemuela
Lemuelah
Lemuralia
Lemuria
Lemurian
Lemuridae
Lemurinae
Lemuroidea
Len
Len Dykstra
Lena
Lenaea
Lenaean
Lenaeum
Lenaeus
Lenapah
Lenape
Lenapes
Lenard
Lenard ray
Lenard rays
Lenard tube
Lenca
Lencan
Lencas
Lenci
Lenclos
Lend-Lease Act
Lendu
Lenee
Lenes
Lenette
Lengby
Lengel
Lenglen
Lenhard
Lenhart
Lenhartsville
Leni-lenape
Lenin
Lenin Memorial Day
Lenin Peak
Leninabad
Leninakan
Leningrad
Leninism
Leninist
Leninite
Lenka
Lenna
Lennard
Lenni
Lennie
Lenno
Lennoaceae
Lennon
Leo XIII
Leoben
Leocadia
Leod
Leodis
Leodora
Leofric
Leoine
Leola
Leoline
Leoma
Leominster
Leon
Leon Jaworski
Leon Panetta
Leon mine
Leona
Leonanie
Leonard
Leonard Bernstein
Leonardesque
Leonardi
Leonardo
Leonardo da
Leonardo da Vinci
Leonardsville
Leonardtown
Leonardville
Leonato
Leoncavallo
Leone
Leonelle
Leonerd
Leonese
Leong
Leonhard
Leoni
Leonia
Leonid
Leonid Brezhnev
Leonid Kizim
Leonid Maksimovich
Leonidas
Leonides
Leonids
Leonie
Leonine
Leonine city
Leonine sacramentary
Leonine verse
Leonis
Leonis Minoris
Leonist
Leonnoys
Leonor
Leonora
Leonore
Leonotis
Leonov
Leonsis
Leonteen
Leonteus
Leontina
Leontine
Leontocebus
Leontodon
Leontopodium
Leontyne
Leonurus
Leonville
Leopardi
Leopold
Leopold I
Leopold II
Leopold III
Leopoldeen
Leopoldine
Leopoldinia
Leopoldo
Leopoldo Benites
Leopoldo Calvo Sotelo
Leopoldo Galtieri
Leopoldville
Leopolis
Leor
Leora
Leos
Leota
Leoti
Leotie
Leotine
Leotyne
Lepadidae
Lepas
Lepaute
Lepaya
Lepcha
Lepidium
Lepidodendraceae
Lepidodendron
Lepidoidei
Lepidophloios
Lepidophyllum
Lepidoptera
Lepidosauria
Lepidosiren
Lepidosirenidae
Lepidosperma
Lepidospermae
Lepidosphes
Lepidosteii
Lepidosteus
Lepidostrobus
Lepidotes
Lepidotus
Lepidurus
Lepidus
Lepilemur
Lepine
Lepiota
Lepisma
Lepismatidae
Lepismidae
Lepisosteidae
Lepisosteus
Lepley
Lepomis
Lepontine Alps
Leporidae
Leporis
Lepospondyli
Leposternidae
Leposternon
Lepp
Lepper
Lepralia
Lepsius
Leptamnium
Leptandra
Leptidae
Leptilon
Leptinotarsa
Leptocarpia
Leptocardii
Leptocephalidae
Leptocephalus
Leptodactyliidae
Leptodactylus
Leptodora
Leptodorididae
Leptogenesis
Leptolepidae
Leptolepis
Leptolineae
Leptomedusae
Leptomonas
Lepton
Leptophis
Leptoptilus
Leptorchis
Leptospermum
Leptosphaeria
Leptospira
Leptosporangium
Leptostromataceae
Leptosyne
Leptothrix
Leptotrichia
Leptothyphlopidae
Leptothyphlops
Lepus
Lequire
Ler
Leraysville
Lerida
Lermontov
Lerna
Lernaea
Lernaeacea
Lernaeana
Lernaeidae
Lernaeoides
Lerne
Lermean
Lerner
Lernfreiheit
Leroi
Lerona
Leros
Lerose
Lesseps
Lesser
Lesser Antilles
Lesser Sanhedrin
Lesser Sunda Islands
Lessing
Lesslie
Lester
Lesterville
Lestodon
Lestosaurus
Lestrigon
Lestrigonian
Lesueur
Lesya
Let
Leta
Letart
Letch
Letcher
Letchworth
Letha
Lethbridge
Lethe
Lethe water
Lethean
Lether Frazar
Lethia
Lethied
Lethocerus
Leticia
Letisha
Letitia
Letizia
Leto
Letohatchee
Letona
Letreece
Letrice
Letsou
Lett
Letta
Lette
Letter, The
Letterer-Siwe syndrome
Letti
Lettic
Lettice
Lettie
Lettish
Letto-lithuanian
Letto-slavonic
Letts
Lettsworth
Letty
Leucadendron
Leucadian
Leucaena
Leucaeus
Leucas
Leuce
Leucetta
Leucichthys
Leucifer
Leuciferidae
Leucippe
Leucippides
Leucippus
Leuckartia
Leuckartiidae
Leucobryaceae
Leucobryum
Leucocrinum
Leucocytozoon
Leucojaceae
Leucojum
Leucon
Leuconostoc
Leucophryne
Leucosolenia
Leucosoleniidae
Leucosticte
Leucotheca
Leucothoe
Leuctra
Leucus
Leukas
Leukothea
Leund
Leupold
Leupp
Leuricus
Leutze
Leuven
Lev
Lev Kitrossky
Levallois
Levalloisian
Levan
Levana
Levania
Levant
Levant company
Levant cotton
Levant dollar
Levant morocco
Levant nut
Levant red
Levant soaproot
Levant sponge
Levant storax
Levant thaler
Levant wormseed
Levanter
Levantine
Levantine dollar
Levantine sponge
Levantinism
Levasy
Levelland
Leveller
Levelock
Leven
Levenson
Leventhal
Leventis
Lever
Leverett
Leverhulme
Leverick
Leveridge
Levering
Leverkusen
Leveroni
Leverrier
Levesque
Levey
Levi
Levi Eshkol
Levi Parsons
Levi's
Levi-Strauss
Levin
Li Hsien-nien
Li Hung-chang
Li Peng
Li Po
Li Shih-min
Li Tai-po
Li Tai Po
Li chi
Li-sao
Lia
Liaisons Dangereuses Les
Lia koura
Liam
Lian
Liana
Liane
Lianna
Lianne
Liao
Liaoning
Liaopel
Liaotung
Liaoyang
Liard
Lias
Liassic
Liatrice
Liatris
Lib
Lib-Lab
Liba
Libation-bearers, The
Libau
Libava
Libb
Libbe
Libbi
Libbie
Libbna
Libby
Libellula
Libellulidae
Libenson
Liber
Liber aniani
Liber authenticarum
Liber legum
Liber sententiarum
Liber sextus
Libera
Liberal
Liberal Catholic
Liberal Catholicism
Liberal Party
Liberal Republican Party
Liberal Unionist
Liberal catholic
Liberalia
Liberalism
Liberati
Liberator
Liberec
Liberia
Liberian
Liberius
Libertas
Liberty
Liberty Bell
Liberty Bell 7
Liberty Enlightening the World
Liberty Island
Liberty Party
Liberty bell
Liberty bond
Liberty party
Liberty ship
Libertytown
Libertyville
Libia
Libitina
Libna
Libnah
Libocedrus
Liborio
Libove
Libra
Librae
Library of Congress
Library of Congress Catalog
Libre
Libreville
Libri carolini
Libri extra decretum
Librid
Librium
Libuse
Libya
Libyan
Libyan Desert
Libyan sibyl
Libyo-phoenician
Libyo-teutonic
Libytheidae
Libytheinae
Lican-antai
Licania
Licastro
Licetus
Licha
Lichas
Lichenes
Lichenopora
Lichenoporidae
Lichfield
Lichnophora
Lichnophoridae
Licht
Lichtenberg
Lichtenfeld
Lichtenstein
Lichter
Licia
Licinian
Licio Giorgieri
Lick
Lick observatory
Licking
Lickingville
Licko
Licuala
Licymnius
Lida
Lidah
Lidda
Liddell Hart
Lidderdale
Liddiard
Liddie
Liddle
Liddy
Lide
Lidgerwood
Lidia
Lidia Gueiler
Lidice
Lidie
Lido
Lidstone
Lie
Lie group
Liebenthal
Lieberman
Liebermann
Liebeslied
Liebfraumilch
Liebig
Liebknecht
Liebman
Liebowitz
Liechtenstein
Liederkranz
Liederman
Liedertafel
Lief
Liege
Liegnotz
Lienhard
Liepaja
Liepor Lepaya
Liesa
Liesegang rings
Liestal
Lietman
Lietuva
Lieut
Liew
Lif
Lifar
Life
Life Guards
Life Guardsman
Life Is a Dream
Life Saver
Life of Samuel Johnson, The
Life on the Mississippi
Liffey
Lifschitz
Lifton
Ligeia
Ligeti
Ligetti
Ligget
Liliiflorae
Lilith
Lilithe
Lilium
Liliuokalani
Lilius
Lilla
Lille
Lille B
Lille lace
Lili
Lillian
Lillibullero
Lillie
Lillington
Lilliput
Lilliputian
Lilliputianize
Lillis
Lillith
Lilliwaup
Lillie
Lillo
Lilly
Lillywhite
Lilo
Lilongwe
Lily
Lily Dache
Lily-white
Lilyan
Lilybel
Lilybelle
Lilydale
Lim
Lima
Lima bark
Lima bean
Lima-bean mildew
Limacea
Limacidae
Limacina
Limacinidae
Liman
Limann
Limassol
Limaville
Limawood
Limax
Limber
Limbert
Limbourg
Limbu
Limburg
Limburg cheese
Limburger
Limburger cheese
Limean
Limehouse
Limemann
Limenia
Limeport
Limerick
Limerick hook
Limerick lace
Limicolae
Limidae
Limington
Limmasol
Limnaea
Limnanthaceae
Limnanthemum
Limnanthes
Limnetis
Limnobium
Limnocnida
Limnophilidae
Limnorchis
Limnoria
Limnoriidae
Limodorum
Limoges
Limoges enamel
Limoges ware
Limoli
Limon
Limosa
Limosella
Limosi
Limousin
Limpopo
Limulidae
Limuloidea
Limulus
Lin
Lin Piao
Lina
Linaceae
Linacre
Linanthus
Linares
Linaria
Linasec
Linc
Linch
Lincoln
Lincoln Heights
Lincoln Park
Lincoln Red
Lincoln Red Shorthorn
Lincoln green
Lincoln miller
Lincoln red
Lincoln's Birthday
Lincoln's Inn
Lincoln's sparrow
LincolnIndale
Lincolnesque
Lincolnian
Lincolniana
Lincolnlike
Lincoln's birthday
Lincoln's finch
Lincoln's inn
Lincoln's sparrow
Lincolnshire
Lincolnston
Lincolnville
Lincroft
Lincs
Lind
Linda
Lindahl
Lindale
Lindberg
Lindbergh
Lindbergh light
Lindblad
Lindbom
Linde process
Lindeberg
Lindell
Lindemann
Linden
Lingayat Hinduism
Lingayata
Lingayen Gulf
Lingle
Lingleville
Lingoum
Lingua Franca
Lingua romana
Lingua romana rustica
Lingua scottica
Lingualumina
Linguata
Linguatula
Linguatulida
Linguatulina
Lingula flags
Linguella
Lingulidae
Lingvo Kosmopolita
Lingvo internacia la
Lingwood
Linis
Link
Link trainer
Linker
Linkoping
Linkoski
Linkping
Linkwood
Linlithgow
Linn
Linnaea
Linnaean
Linnaean method
Linnaeanism
Linnaeus
Linne
Linnea
Linnean
Linnell
Linneman
Linnet
Linnette
Linneus
Linnhe
Linnie
Linoel
Lith
Litha
Lithea
Lithia
Lithobiidae
Lithobius
Lithocarpus
Lithodes
Lithodidae
Lithodomus
Lithonia
Lithopolis
Lithosiidae
Lithosiinae
Lithospermum
Lithuania
Lithuanian
Lithuanic
Litiopa
Lititz
Litman
Litopterna
Litorina
Litorinidae
Litsea
Litt
LittB
LittD
LittM
Litta
Littcarr
Littell
Little
Little Abaco
Little Alliance
Little America
Little Bear
Little Belt
Little Belt Mountains
Little Bighorn
Little Chute
Little Corporal
Little Daedala
Little Diomede
Little Dipper
Little Dog
Little Englander
Little Englandism
Liturgical Latin
Liturgy of the Presanctified
Liturgy, the
Litvak
Litvinov
Lityerses
Liu
Liu Shao-ch'i
Liuka
Liuki
Liv
Liva
Livarot
Lively
Livenza
Livermore
Livermore Falls
Livermore Valley
Liverpool
Liverpool bit
Liverpool house
Liverpudlian
Lives of the Poets, The
Livesay
Livi
Livia
Livian
Livingston
Livingston formation
Livingstone
Livish
Livistona
Livonia
Livonian
Livorno
Livvi
Livvie
Livvy
Livvyy
Livy
Liz
Liza
Liza Alexeyeva
Lizabeth
Lizard
Lizard Head
Lizard Peninsula
Lizbeth
Lizella
Lizemores
Lizette
Lizton
Lizzie
Lizzy
Ljod
Ljoka
Ljubljana
Ljutomer
Llanberis
Llandaff
Llandeilo
Llandovery
Llandudno
Llanelli
Llenelly
Llanfairpwllgwyngyll
Llangollen
Llano
Llano Estacado
Lleburgaz
Lieu
Llew
Llew Llaw Gyffes
Llewellin setter
Llewellyn
Llewelyn
Lleyn Peninsula
Llovera
Lloyd
Lloyd Bucher
Lloyd George
Lloyd Harbor
Lloyd's
Lloyd's List
Lloyd's Register
Llud
Lludd
Llyr
Llywellyn
Lman
Lneburg
Lnos
Lo
Loa
Loachapoka
Loafers
Loafishness
Loami
Loammi
Loanda
Loar
Loasa
Loasaceae
Loats
Loatuko
Lobachevskian
Lobachevsky
Lobale
Lobaria
Lobata
Lobatae
Lobber
Lobeco
Lobel
Lobelia
Lobeliaceae
Lobell
Lobelville
Lobengula
Lobito
Lobosa
Lobularia
Locarnist
Locarnite
Locarnize
Locarno
Loch
Loch Ness monster
Loch Raven
Lochaber ax
Lochgelly
Lochia
Lochinvar
Lochlin
Lochloosa
Lochmere
Lochner
Lock
Lockatong
Lockbourne
Locke
Lockean
Lockeanism
Lockeford
Long Beach
Long Boret
Long Branch
Long Day's Journey Into Night
Long Eaton
Long Island
Long Island Sound
Long Island duckling
Long John Silver
Long Lake
Long March
Long Melford
Long Parliament
Long Tom
Long Voyage Home, The
Long's BirthdayLoni
Longan
Longaville
Longawa
Longbenton
Longbottom
Longdale
Longerich
Longfellow
Longford
Longhorn
Longicornia
Longinean
Longinian
Longinus
Longirostrines
Longkey
Longlane
Longleaf
Longley
Longmeadow
Longmire
Longmont
Longo
Longobard
Longobardi
Longobardian
Longobardic
Longomontanus
Longport
Longs
Longs Peak
Longstreet
Lophiomyinae
Lophiomys
Lophobranchii
Lophocome
Lophocomi
Lophodermium
Lophophora
Lophophorinae
Lophophorus
Lophopoda
Lophornis
Lophortyx
Lophura
Lopoldville
Lora
Lorado
Lorain
Loraine
Loral
Loralee
Loralie
Loralyn
Loram
Lorane
Loranger
Lorant
Lorantheae
Loranthus
Lorca
Lord
Lord Advocate
Lord Baltimore cake
Lord Chamberlain
Lord Chancellor
Lord Chief Justice
Lord Fauntleroy
Lord Haw-Haw
Lord High Chancellor
Lord Howe Island
Lord Jesus
Lord Jim
Lord Justice
Lord Justice of Appeal
Lord Lieutenancy
Lord Lieutenant
Lord Lyon
Lord Mayor
Lord President of the Council
Lord Privy Seal
Lord Protector
Lord Provost
Lord Spiritual
Lord admiral
Lord knows
Lord of Appeal
Lord of Hosts
Lord of Lords
Lord of Misrule
Lord of hosts
Lord our Righteousness
Lord's
Lord's Day
Lord's Prayer
Lord's Prayer, The
Lord's Supper
Lord's Supper, The
Lord's day
Lord's day, The
Lord's table
Lord's table, The
Lordan
Lords
Lords Justices' Court
Lords Spiritual
Lords Temporal
Lordsburg
Lordship
Lore
Loreauville
Loredana
Loredana Berte
Loredo
Loree
Loreen
Lorelei
Lorelie
Lorella
Lorelle
Loren
Lorena
Lorence
Lorene
Lorens
Lorentz
Lorentz force
Lorentz transformation
Lorentz-FitzGerald contraction
Lorenz
Lorenza
Lorenzan
Lorencanza
Lorenzetti
Lorenzo
Lorenzo dressing
Lorenzo indians
Lorestan
Loresz
Loretta
Lorette
Loretine
Loretto
Loretto nuns
Lori
Lori Garbacz
Loria
Lorianna
Lorianne
Loricariidae
Loricata
Loricati
Lorida
Lorie
Lorien
Lorient
Lorilee
Lorilyn
Lorimer
Lorimor
Lorin
Lorinda
Lorine
Loriner
Loring
Loris
Lorita
Lorius
Lorman
Lorn
Lorna
Lorne
Lorola
Lorolla
Lorollas
Lorou
Lothar
Lotharingian
Lothario
Lotharios
Lothian
Lothian Region
Lothians
Lothringen
Loti
Lotis
Lotophagi
Lotson
Lott
Lotta
Lotte
Lotti
Lottie
Lottsburg
Lotty
Lotuko
Lotus
Lotus of the Good Law
Lotus of the True Law
Lotz
Lotze
Lou
Lou Franceschetti
Lou Gehrig's disease
Lou Nanne
Louann
Louanna
Louanne
Loucheux
Loudon
Loudonville
Louella
Louellen
Lough
Loughborough
Louheed
Loughlin
Loughman
Louhi
Louie
Louin
Louis
Louis Boutet de Montvel
Louis Frey
Louis Hubert Gonzalve
Louis I
Louis II
Louis II de Bourbon
Louis IV
Louis IX
Louis Joseph
Louis Napoleon
Louis Philippe
Louis Quatorze
Louis Quinze
Louis Seize
Louis Seymour Bazett
Louis Sleigher
Louis Treize
Louis V
Louis Victor
Louis XI
Louis XII
Louis XIII
Louis XIV
Louis XV
Louis XVI
Louis XVII
Louis XVIII
Louis heel
Louisa
Louisburg
Louise
Louisette
Louisiana
Louisiana French
Louisiana Purchase
Louisiana grass
Louisiana heron
Louisiana tanager
Louisianan
Louisianian
Louisville
Louisvillian
Louts
Louge
Lounsbury
Loup
Lourdes
Lourenco Marques
Lourie
Louth
Loustitia
Louvain
Louval
Louverture
Louviers
Louvre
Loux
Louys
Lovash
Lovato
Love
Love for Love
Love's Labour's Lost
Lovejoy
Lovel
Lovelace
Loveland
Lovelock
Lovely
Lover
Loveridge
Lovering
Loves Park
Lovett
Lovettsville
Loveville
Lovich
Lovie
Lovilia
Loving
Lovingston
Lovington
Lovemilla
Low
Low Archipelago
Low Church
Low Churchman
Low Countries
Low German
Low Latin
Low Mass
Low Sunday
Low church
Low sunday
Low-Churchism
Low-Churchman
Low-churchism
Low-churchist
Low-churchman
Low-churchmanship
Lowake
Lowber
Lowden
Lowder
Lowe
Lowell
Lowellville
Lowenstein
Lowenstern
Lower
Lower Austria
Lower Burma
Lower California
Lower Canada
Lower Carboniferous
Lower Chinook
Lower Cretaceous
Lower Depths, The
Lower Egypt
Lower Hutt
Lower Lakes
Lower Merion
Lower Michigan
Lower Palaeolithic
Lower Palatinate
Lower Peninsula
Lower Saxony
Lower Slobbovia
Lower Tertiary
Lowery
Lowes
Lowestoft
Lowestoft ware
Lowesville
Lowis
Lowitz arc
Lowl
Lowland
Lowland scotch
Lowlander
Lowlands
Lowman
Lowmansville
Luce
Lucedale
Lucelle
Lucentio
Luceres
Lucernaria
Lucernariidae
Lucerne
Lucey
Luchesse
Lucho
Luchuan
Luci
Lucia
Lucian
Luciana
Lucianne
Luciano
Lucias
Lucic
Lucie
Lucien
Lucien DeBlois
Lucienne
Lucier
Lucifer
Luciferian
Luciferidae
Lucila
Lucile
Lucilia
Lucilius
Lucilla
Lucille
Lucina
Lucinacea
Lucinda
Lucine
Lucinde
Lucinidae
Lucio
Lucitza
Lucite
Lucite paint
Lucius
Lucius I
Lucius II
Lucius III
Lucius Quintus Cincinnatus
Luck
Luckettt
Luckey
Luckin
Lucknow
Lucky
Lucrece
Lucretia
Lucretian
Lucretius
Lucrezia
Lucrezia Borgia
Lucrine
Lucullan
Lucullan feast
Lucullean
Lucullian
Lucullus
Lucuma
Lucumo
Lucy
Lud
Ludd
Luddism
Luddite
Ludditism
Ludell
Ludeman
Ludendorff
Luderitz
Ludewig
Ludgate
Ludgathian
Ludgatian
Ludhiana
Ludian
Ludie
Ludington
Ludlew
Ludlovian
Ludlow
Ludly
Ludmila Belousova
Ludmilla
Ludolphian
Ludovick
Ludovico
Ludovika
Lumumba
Luna
Luna moth
Lunar Orbiter
Lunaria
Luncheon on the Grass
Lund
Lunda
Lundale
Lundberg
Lundeen
Lundell
Lundgren
Lundin
Lundinarium
Lundquist
Lundt
Lundy
Lundy's Lane
Lune
Lunel
Lunenburg
Lunetta
Lunette
Luneville
Lung Wang
Lungki
Lunik
Luning
Lunka
Lunn
Lunna
Lunnetta
Lunnete
Luns
Lunseth
Lunsford
Lunt
Lunularia
Lunulites
Lunville
Luo
Luorawetlan
Lupe
Lupee
Lupercal
Lupercalia
Lupercalian
Lupercalias
Luperci
Lupercus
Lupi
Lupid
Lupien
Lupinus
Lupita
Lupton
Lupus
Luquillo
Lur
Lura
Luray
Lurcat
Lurette
Lurex
Lurgan
Luri
Lurie
Luristan
Lurleen
Lurlei
Lurlene
Lurline
Lurton
Lusa
Lusaka
Lusatia
Lusatian
Lusby
Luscinia
Lushai
Lusheio
Lusia
Lusiad
Lusian
Lusitania
Lusitanian
Lusitano-american
Lusk
Lussi
Lussier
Lust
Lustick
Lustig
Lustprinzip
Lusty
Lut Desert
Lutao
Lutayo
Lutcher
Lutenist
Lutero
Lutesville
Lutetia
Lutetia Parisiorum
Lutetian
Luth
Lutanen
Luther
Lutheran
Lutheranic
Lutheranism
Lutheranize
Lutheranizer
Lutherism
Lutherist
Luthersburg
Luthersville
Lutherville
Luthuli
Lutianidae
Lutianus
Lutine bell
Lutjanidae
Lutjanus
Luton
Lutosławski
Lutra
Lutraria
Lutreola
Lutrinae
Lutsen
Luttrel
Lutts
Lutuamian
Lutuamians
Lutyens
Lutz
Luvaridae
Luverne
Luvian
Luvian
Luvian
Luwana
Luwian
Lycoperdon
Lycopersicon
Lycophron
Lycopodiaceae
Lycopodiales
Lycopodium
Lycopsida
Lycopsis
Lycopus
Lycosa
Lycosidae
Lycotheres
Lyctidae
Lyctus
Lyceurgus
Lycus
Lyda
Lydda
Lydell
Lydgate
Lydia
Lydian
Lydian mode
Lydian stone
Lydie
Lydon
Lyell
Lyencephala
Lyerly
Lyford
Lygaeidae
Lygeum
Lygodesma
Lygodium
Lygosoma
Lykens
Lykes
Lyle
Lyles
Llyly
Lyman
Lymann
Lyantria
Lymantriidae
Lyme
Lymington
Lynn
Lymnaea
Lyssa
Lytham Saint Anne's
Lythraceae
Lythrum
Lytle
Lytten
Lytton
Lyubertsy
Lyublin
Lyudmila
Lzen
Lzow-Holm Bay
M
M Com
M Econ
M electron
M radiation
M roof
M saw
M series
M star
M tooth
M'
M'-
M'Ba
M'Naghten Rules
M'Taggart
M's
M'sieur
M-1
M-1 rifle
M-14
M-16
M-day
M-line
M-series
M-shaped
M-swahili
M-type star
M/D
MA
MAA
MAAG
MAAP
MAArch
MAC
MACBS
MACSYMA
MCCS
MCH
MCHB
MCI
MCIAS
MCI
MCN
MCNC
MCP
MCPAS
MCPO
MCR
MCS
MCSV
MCTRAP
MCU
MCh
MCi
MD
MDACS
MDAP
MDAS
MDC
MDDS
MDE
MDEC
MDES
MDF
MDI
MDQS
MDRE
MDS
MDT
MDU
MDX
MDiv
ME
MEA
MEANS
MEC
MECO
MED
MELD
MEP
MEPA
MERP
MERS
MET
MEW radar
MEX
MEZ
MEd
MEIEng
MF
MFA
MFB
MFENET
MFG
MFH
MFJ
MFLOPS
MFM
MFR
MFS
MFT
MG
MGB
MGH
MGM
MGT
MGeolE
MGk
MGr
MH
MHA
MHD
MHE
MHF
MHG
MHL
MHR
MHS
MHW
MHz
MI
MI5
MI6
MIA
MIB
MICE
MICR
MID
MIDAS
MIDI
MIE
MIF
MIFASS
MIL
MILNET
MILR
MILSTD
MIM
MIMD
MIME
MIMinE
MIMunE
MIN
MINCE
MINX
MIP
MIPS
MIR
MIRS
MIRV
MIS
MISCF
MIT
MITI
MITS
Mr
MJ
MKS
MKSA system
MKTG
ML
MLA
MLC
MLCD
MLD
MLEM
MLF
MLG
LLL
MLO
MLR
MLS
MLT
MLV
MLW
MLitt
MM
MMC
MMDF
MME
MMES
MMFS
MMGT
MMH
MMJ
MMM
MMOC
MMP
MMS
MMT
MMU
MMW
MMX
MMetE
MMus
MN
MNA
MNAS
MNE
MNOS
MNP
MNRA
MNS
MNurs
MO
MOA
MOC
MOCA
MOD
MODEM
MOFW
MOG
MOH
MOI
MOIG
MOL
MOLA
MOMV
MOP
MOR
MOS
MOSFET
MOT
MOT test
MOTAS
MOTIS
MOTOS
MOTSS
MSSc
MST
MSTS
MSW
MSc
MScD
MScMed
MSgt
MT
MTA
MTB
MTBF
MTBRP
MTC
MTD
MTF
MTI
MTI radar
MTM
MTO
MTP
MTR
MTS
MTSO
MTTF
MTTFF
MTTR
MTU
MTV
MTX
MTech
MTh
MU
MU car
MUA
MUF
MULDEM
MULTICS
MUMPS
MUNG
MUP
MUX
MV
MVA
MVD
MVEd
MVO
MVP
<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macassar agar-agar</td>
</tr>
<tr>
<td>Macassar gum</td>
</tr>
<tr>
<td>Macassar oil</td>
</tr>
<tr>
<td>Macassarese</td>
</tr>
<tr>
<td>Macatawa</td>
</tr>
<tr>
<td>Macau</td>
</tr>
<tr>
<td>Macaulay</td>
</tr>
<tr>
<td>Macbeth</td>
</tr>
<tr>
<td>Macc</td>
</tr>
<tr>
<td>Maccabaeus</td>
</tr>
<tr>
<td>Maccabean</td>
</tr>
<tr>
<td>Maccabees</td>
</tr>
<tr>
<td>Maccarone</td>
</tr>
<tr>
<td>Macclesfield</td>
</tr>
<tr>
<td>Macdonald</td>
</tr>
<tr>
<td>Macdonnell Ranges</td>
</tr>
<tr>
<td>Macduff</td>
</tr>
<tr>
<td>Mace</td>
</tr>
<tr>
<td>Maced</td>
</tr>
<tr>
<td>Macedon</td>
</tr>
<tr>
<td>Macedonan</td>
</tr>
<tr>
<td>Macedonia</td>
</tr>
<tr>
<td>Macedonian</td>
</tr>
<tr>
<td>Macedonian-Persian War</td>
</tr>
<tr>
<td>Macedonian-persian</td>
</tr>
<tr>
<td>Macedonic</td>
</tr>
<tr>
<td>Macegan</td>
</tr>
<tr>
<td>Maceio</td>
</tr>
<tr>
<td>Maceo</td>
</tr>
<tr>
<td>Macey</td>
</tr>
<tr>
<td>Macflecknoe</td>
</tr>
<tr>
<td>Mach</td>
</tr>
<tr>
<td>Mach cone</td>
</tr>
<tr>
<td>Mach front</td>
</tr>
<tr>
<td>Mach meter</td>
</tr>
<tr>
<td>Mach number</td>
</tr>
<tr>
<td>Mach one</td>
</tr>
<tr>
<td>Mach stem</td>
</tr>
<tr>
<td>Mach two</td>
</tr>
<tr>
<td>Mach wave</td>
</tr>
<tr>
<td>Macha</td>
</tr>
<tr>
<td>Machabees</td>
</tr>
<tr>
<td>Machado</td>
</tr>
<tr>
<td>Machaerus</td>
</tr>
<tr>
<td>Machairodontidae</td>
</tr>
<tr>
<td>Machairodontinae</td>
</tr>
<tr>
<td>Machairodus</td>
</tr>
<tr>
<td>Machaon</td>
</tr>
<tr>
<td>Machault</td>
</tr>
</tbody>
</table>
Machaut
Machel
Machen
Machetes
Machias
Machiasport
Machiavel
Machiavelian
Machiavelli
Machiavellian
Machiavellian intrigues
Machiavellianism
Machiavellianist
Machiavellianly
Machiavellic
Machiavellism
Machiavellistic
Machicui
Machilidae
Machilis
Machipongo
Machmeter
Machogo
Machos
Machtpolitik
Machu Picchu
Machute
Machutte
Macigno
Macintosh
Mack
Mackay
Mackenzie
Mackensen
Mackenzie
Mackerras
Mackerras
Mackey
Mackie
Mackinac
Mackinaw
Mackinaw blanket
Mackinaw boat
Mackinaw coat
Mackinaw trout
Mackintosh
Mackler
Macknair
Mackoff
<table>
<thead>
<tr>
<th>Macrotolagus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macrouridae</td>
</tr>
<tr>
<td>Macrourus</td>
</tr>
<tr>
<td>Macrozamia</td>
</tr>
<tr>
<td>Macura</td>
</tr>
<tr>
<td>Mactra</td>
</tr>
<tr>
<td>Mactridae</td>
</tr>
<tr>
<td>Macumba</td>
</tr>
<tr>
<td>Macungie</td>
</tr>
<tr>
<td>Macur</td>
</tr>
<tr>
<td>Macusi</td>
</tr>
<tr>
<td>Macy</td>
</tr>
<tr>
<td>Mad</td>
</tr>
<tr>
<td>Mad Decade</td>
</tr>
<tr>
<td>Mada</td>
</tr>
<tr>
<td>Madag</td>
</tr>
<tr>
<td>Madagascar</td>
</tr>
<tr>
<td>Madagascar arrowroot</td>
</tr>
<tr>
<td>Madagascar bean</td>
</tr>
<tr>
<td>Madagascar jasmine</td>
</tr>
<tr>
<td>Madagascar periwinkle</td>
</tr>
<tr>
<td>Madagascarian</td>
</tr>
<tr>
<td>Madagass</td>
</tr>
<tr>
<td>Madai</td>
</tr>
<tr>
<td>Madaïh</td>
</tr>
<tr>
<td>Madalena</td>
</tr>
<tr>
<td>Madalyn</td>
</tr>
<tr>
<td>Madalynne</td>
</tr>
<tr>
<td>Madam Butterfly</td>
</tr>
<tr>
<td>Madame</td>
</tr>
<tr>
<td>Madame Bovary</td>
</tr>
<tr>
<td>Madame Butterfly</td>
</tr>
<tr>
<td>Madancy</td>
</tr>
<tr>
<td>Madang</td>
</tr>
<tr>
<td>Madaras</td>
</tr>
<tr>
<td>Madariaga</td>
</tr>
<tr>
<td>Madawaska</td>
</tr>
<tr>
<td>Maddalena</td>
</tr>
<tr>
<td>Madden</td>
</tr>
<tr>
<td>Maddeu</td>
</tr>
<tr>
<td>Maddi</td>
</tr>
<tr>
<td>Maddie</td>
</tr>
<tr>
<td>Maddis</td>
</tr>
<tr>
<td>Maddock</td>
</tr>
<tr>
<td>Maddocks</td>
</tr>
<tr>
<td>Maddox</td>
</tr>
<tr>
<td>Maddy</td>
</tr>
</tbody>
</table>
Madea
Madecase
Madegassy
Madeira
Madeira cake
Madeira chair
Madeira cockroach
Madeira topaz
Madeiran
Madeiravine
Madel
Madeleine
Madeleine Bassil
Madelen
Madeleena
Madeleene
Madelili
Madelia
Madelin
Madelina
Madeleine
Madella
Madelle
Madelon
Madelyn
Mademoiselle Fifi
Madera
Maderno
Madero
Madge
Madhva
Madhya Bharat
Madhya Pradesh
Madhyamika
Madi
Madia
Madian
Madid
Madiga
Madigan
Madill
Madina do Boe
Madinensor
Madison
Madison Avenue
Madisonburg
Madisonville
Madlen
Madlin
Madlyn
Madm
Madoc
Madoera
Madonia
Madonna
Madonna lily
Madonnahood
Madonnaish
Madonnalike
Madora
Madotheca
Madox
Madra
Madras
Madras States
Madras gram
Madras hemp
Madras thorn
Madrasi
Madre de Dios
Madrepora
Madreporacea
Madreporaria
Madrid
Madriene
Madrilene
Madrilenian
Madsen
Madson
Madura
Madura foot
Madurai
Madurese
Madwoman of Chaillot, The
Mady
Mae
Mae West
Maeander
Maecandra
Maecandrina
Maebashi
Maebelle
Maecenas
Maecenasship
Maegan
Mael
Maelstrom
Maely
Maemacterion
Maenalus
Maenidae
Maeon
Maeonian
Maeonides
Maera
Maesta Altar
Maestricht
Maeterlinck
Maeterlinckian
Maeve
Maewo
Maeystown
Mafala
Mafalda
Mafeking
Maffa
Maffei
Mafia
Mafioso
Mag
Maga
Magadhi
Magahi
Magalensia
Magalia
Magallanes
Magan
Magangue
Magas
Magavern
Magbie
Magda
Magdaia
Magdala
Magdalen
Magdalena
Magdalena Bay
Magdalene
Magdalenian
Magdalenne
Magdau
Magdeburg
Magdeburg hemisphere
Magee
Magel
Magelhanza
Magellan
Magellan jacket
Magellanian
Magellanic
Magellanic cloud
Magen
Magen David
Magena
Magenta
Mages
Maggee
Maggi
Maggie
Maggio
Maggiore
Maggs
Maggy
Magh
Magh sleacht
Maghi
Maghreb
Maghrib
Maghribi
Maghutte
Magi
Magian
Magianism
Magic Flute, The
Magill
Magindanao
Magindanaos
Maginot line
Maginus
Magism
Maglemose
Maglemosean
Maglemosian
Magna
Magna Carta
Magna Charta
Magna Graecia
Magna Mater
Magna charta
Magnar
Magnesia
Mahasamadhi
Mahaska
Mahau
Mahavira
Mahayana
Mahayana Buddhism
Mahayanism
Mahayanist
Mahayanistic
Mahdi
Mahdian
Mahdis
Mahdiship
Mahdism
Mahdist
Mahendra
Maher
Mahi
Mahican
Mahicans
Mahla
Mahler
Mahlon
Mahlya and Mahylanag
Mahmoud
Mahmoud Fawzi
Mahmoud Khiari
Mahmud
Mahmud II
Mahmud of Ghazni
Mahnomen
Mahomet
Mahometan
Mahometry
Mahon
Mahoney
Mahonia
Mahopac
Mahori
Mahound
Mahra
Mahran
Mahratta
Mahratta Confederacy
Mahratti
Mahren
Mahri
Mahri-sokotri
Maine wherry
Maine-et-Loire
Mainer
Mainesburg
Maineville
Mainis
Mainland
Mainstreeter
Mainstreetism
Maintenon
Mainz
Mainz Psalter
Maiocco
Maioida
Maioli
Maiongkong
Maipure
Mair
Maire
Mairead Corrigan
Maise
Maisel
Maisey
Maisie
Maison
Maison de Moliere La
Maite
Maithili
Maitilde
Maitland
Maitreya
Maitund
Maisus
Maize
Maj
Maj Gen
Maja
Majagga
Maje
Majesta
Majesty
Majka
Majlis
Majolica earth
Major
Major Mitchell
Major Prophets
Major domus
Majorca
Majorcan
Majorism
Majorist
Majoristic
Majunga
Majuro
Mak
Makah
Makalu
Makanda
Makaraka
Makari
Makarios III
Makasar
Makassar
Makawao
Makaweli
Makedhonia
Makeevka
Makell
Maker
Maker of sweet poets
Makeyevka
Makhachkala
Makinen
Makkah
Makonde
Makoti
Maksutov telescope
Maku
Makua
Makurdi
Mal
Mala
Malabar
Malabar Coast
Malabar nightshade
Malabarese
Malabo
Malacanthidae
Malacanthus
Malacca
Malacca cane
Malaccan
Malaceae
Malachi
Malachy
Malayic
Malayize
Malayo-Indonesian
Malayo-Javanese
Malayo-Polynesian
Malayo-indonesian
Malayo-javanese
Malayo-negrito
Malayo-polynesian
Malayoid
Malaysia
Malaysian
Malaysian race
Malca
Malcah
Malchus
Malchy
Malcolm
Malcolm III
Malcolm X
Malcom
Malda
Malden
Maldive
Maldive Islands
Maldives
Maldivian
Maldon
Male
Malebolge
Malebolgian
Malebolgic
Malebranche
Malebranchism
Malecite
Maleeny
Malek
Maleki
Malemute
Malena
Malenkov
Malesherbia
Malesherbiaceae
Malet
Maletta
Malevich
Malherbe
Mali
Malmaison
Malmy
Malmedy
Malmesbury
Malmo
Malo
Malone
Maloneton
Maloney
Malonis
Malony
Malope
Malorie
Malory
Malott
Maloy
Malpighi
Malpighia
Malpighiaceae
Malpighian
Malpighian body
Malpighian corpuscle
Malpighian layer
Malpighian tube
Malpighian tubule
Malpighian tubules
Malpighian tuft
Malpighian vessel
Malraux
Malta
Malta fever
Maltese
Maltese cat
Maltese cross
Maltese dog
Malthe
Malthus
Malthusian
Malthusianism
Malthusiast
Malti
Malto
Malton
Maltz
Maltzman
Maluku
Malurinae
Malurus
Malus
Malus cosine-squared law
Malus' law
Malva
Malvaceae
Malvales
Malvasia
Malvastrum
Malvern
Malverne
Malvia
Malvie
Malvin
Malvina
Malvine
Malvino
Malynda
Mam
Mama
Mamadou Dia
Mamallapuram
Mamaroneck
Mame
Mameluke
Mamercus
Mamers
Mamertine
Mamertino
Mamie
Mamilius
Mamisburg
Mammalia
Mammea
Mammifera
Mammillaria
Mammon
Mammondeus
Mammoth Cave
Mammoth Cave National Park
Mammut
Mammutidae
Mamor
Mamore
Mamou
Mamoun
Mamurias
Man
Man O'War
Man Who Came to Dinner, The
Man of Destiny
Man of Galilee
Man of Property, The
Man spricht deutsch
Man's Fate
Man, the
Mana
Manabozho
Manacus
Manado
Managua
Manahawkin
Manaker
Manakinsabot
Manala
Manama
Manannn
Manara
Manard
Manasquan
Manassa
Manassas
Manassas Park
Manasseh
Manasses
Manassite
Manat
Manati
Manatidae
Manatus
Manaus
Manawa
Manawyddan
Mancelona
Manchaca
Manchaug
Manche
Manchester
Manchester brown
Manchester terrier
Manchesterdom
Manchesterism
Manchesterist
Manchestrian
Manchu
Manchukuo
Manchuria
Manilius
Manilla
Maninke
Manipur
Manipuri
Manis
Manisa
Manistee
Manistique
Manito
Manitoba
Manitoban
Manitou
Manitou Springs
Manitoulin
Manitoulin Island
Manitowoc
Manity
Manius
Maniva
Manizales
Manjusri
Mankato
Mankiewicz
Manley
Manlius
Manlove
Manly
Mann
Mann Act
Mannaean
Mannar
Mannboro
Mannerheim
Mannerist
Manners
Mannes
Mannford
Mannheim
Mannheim School
Mannheimer
Mannie
Manning
Mannington
Mannlicher
Manno
Mannos
Mannschoice
Mannsville
Mannuela
Manny
Manny Trillo
Mano
Manoah
Manobo
Manoff
Manokin
Manokotak
Manolete
Manolo
Manomet
Manon
Manon Lescaut
Manorhaven
Manorville
Manouch
Manquin
Manresa
Mans
Mansard
Mansart
Mansfield
Mansholt
Mansion House
Manson
Mansoor
Mansour Hassan
Mansra
Mansur
Mansura
Manta
Manta Bay
Mantachie
Mantador
Manteca
Mantee
Mantegna
Mantell
Manteno
Manteo
Manter
Manthei
Manti
Mantidae
Mantinea
Mantinean
Mantisia
Mantispa
Mantispidae
Mantius
Mantle
Manto
Mantodea
Mantoidea
Mantoloking
Manton
Mantorville
Mantoux test
Mantova
Mantua
Mantuan
Mantzu
Manu
Manu Tuiasosopo
Manua Islands
Manucodia
Manue
Manuel
Manuel Artime
Manuel Bisbe
Manuel Irujo
Manuel Lujan
Manuel Noriega
Manuela
Manuela Maleeua
Manukau
Manuri
Manus
Manute Bol
Manutius
Manvantara
Manvel
Manvell
Manvil
Manville
Manwell
Manx
Manx cat
Manx shearwater
Manxman
Manxmen
Manxwoman
Manya
Manyema
Marcell
Marcella
Marcelle
Marcellette
Marcellian
Marcellianism
Marcellina
Marcelline
Marcello
Marcello Caetano
Marcellus
Marcellus I
Marcellus II
Marcelo
Marcgravia
Marcgraviaceae
March
March brown
March fly
March hare
Marchak
Marchal
Marchall
Marchand
Marchantia
Marchantiaceae
Marchantiales
Marche
Marchelle
Marchen
Marches
Marchese
Marcheshvan
Marchette
Marchmont
Marci
Marcia
Marcian
Marciano
Marcianus
Marcie
Marcile
Marcille
Marcin
Marcion
Marcionism
Marcionist
Marcionite
Marcionitic
Marcionitish
Marcionitism
Marcite
Marcius
Marco
Marco Polo
Marco Polo's sheep
Marcobrunner
Marcola
Marcomanni
Marcomannic
Marconi
Marconi mast
Marconi rig
Marconi-rigged
Marcos
Marcosian
Marcoux
Marcus
Marcus Aurelius
Marcus Aurelius Antoninus
Marcus Claudius
Marcuse
Marcushook
Marcy
Marden
Marder
Mardi
Mardi Gras
Mardi gras
Mardochai
Marduk
Mare
Mare Aestatis
Mare Anguis
Mare Australe
Mare Autumni
Mare Boreum
Mare Chronium
Mare Cimmerium
Mare Crisium
Mare Desiderii
Mare Erythraeum
Mare Fecunditatis
Mare Frigoris
Mare Hiemis
Mare Humboldtianum
Mare Humorum
Mare Incognito
Mare Island
Mare Marginis
Mare Moscoviae
Mare Novum
Mare Nubium
Mare Orientalis
Mare Parvum
Mare Smythii
Mare Spumans
Mare Struve
Mare Tranquillitatis
Mare Vaporum
Mare Veris
Mareah
Mareca
Marechal niel
Maregos
Marehan
Marek
Marela
Mareld
Marelda
Marella
Marelya
Maren
Marena
Marengo
Marenisco
Marentic
Marenzio
Mareotic
Mareotid
Maressa
Maretta
Marette
Maretz
Marfa
Marfik
Marfrance
Marga
Margalit
Margalo
Margarelon
Margaret
Margaret of Anjou
Margaret of France
Maria Theresa thaler
Maria de' Medici
Maria tree
Maria-Giuseppe
Mariage de convenance
Mariam
Mariamman
Marian
Mariana
Mariana Islands
Marianao
Mariand
Mariande
Mariandi
Marianic
Mariann
Marianna
Marianne
Mariano
Marianelist
Marianolatry
Marianskn
Mariastein
Mariba
Maribel
Maribelle
Maribeth
Maribor
Maricao
Marice
Maricopa
Maridel
Marie
Marie Antoinette
Marie Byrd Land
Marie Galante
Marie Louise
Marie-Ann
Marie-Jeanne
Marieann
Marihamn
Mariejeanne
Mariellen
Marienbad
Marienthal
Mark Breland
Mark Calcavecchia
Mark Carreon
Mark Cresap
Mark Dymshits
Mark Garalczyk
Mark Gubicza
Mark Messier
Mark Napier
Mark Olberding
Mark Pfeil
Mark masonry
Mark’s fly
Markab
Markan
Markeb
Marked Tree
Markesan
Market
Marketa
Markevich
Markgenossenschaft
Markham
Markland
Markle
Markleeville
Markleton
Markleville
Markleysburg
Markman
Marko
Markos
Markov
Markov chain
Markov process
Markova
Markovian
Markowitz
Marks
Markson
Marksville
Markus
Markville
Marl
Marla
Marland
Marlane
Marlboro
Marris
Marrissa
Marron
Marrubium
Marrucinian
Marruecos
Marryat
Mars
Mars brown
Mars orange
Mars probes
Mars ship
Mars violet
Mars yellow
Marsala
Marsden
Marsdenia
Marseillaise
Marseille
Marseilles
Marsh
Marsha
Marshal
Marshall
Marshall Islands
Marshall Plan
Marshallberg
Marshallese
Marshalltown
Marshallville
Marshalsea
Marshessiding
Marshfield
Marshville
Marsi
Marsian
Marsiella
Marsilea
Marsileaceae
Marsilia
Marsiliaceae
Marsilid
Marsilius of Padua
Marsing
Marsipobranchia
Marsipobranchiata
Marsipobranchii
Marsiland
Marspiter
Marssonia
Marssonina
Marsteller
Marston
Marston Moor
Marsupialia
Marsupiata
Marsyas
Mart
Marta
Martaban
Martainn
Marte
Marteena
Martel
Martell
Martella
Martelle
Martelli
Martello
Martello tower
Marten
Martens
Martensdale
Martes
Martguerita
Marth
Martha
Martha Nause
Martha Washington chair
Martha Washington mirror
Martha Washington table
Martha's Vineyard
Marthasville
Marthaville
Marthe
Marthena
Marti
Martial
Martialist
Martian
Martica
Martie
Martijn
Martin
Martin Feldstein
Martin Florea Ionescu
Martin II
Martin III
Martin IV
Martin Jaite
Martin Luther
Martin Luther King Day
Martin Scorsese
Martin V
Martin du Gard
Martin'
Martin's anchor
Martin's summer
Martina
Martina Navratilova
Martindale
Martine
Martineau
Martinelli
Martinez
Martini
Martini-Henry
Martinic
Martinican
Martinique
Martinism
Martinist
Martinmas
Martinmas summer
Martino
Martinon
Martinsburg
Martinsdale
Martinsen
Martinson
Martinsville
Martinton
Martinu
Martita
Martius
Martius yellow
Martres
Martsen
Martu
Martville
Marty
Marty Domres
Marty Schottenheimer
Martyn
Masbate
Mascagni
Mascarene Islands
Mascherone
Mascia
Mascot
Mascotte
Mascoutah
Mascouten
Masculine
Masdevallia
Masefield
Masera
Maseru
Masgat
Masha
Masharbrum
Mashe
Mashhad
Mashmiyaa Al Kabira
Mashona
Mashpee
Masinissa
Maskegon
Maskell
Maskelyne
Maskins
Maskoi
Masolino
Mason
Mason and Dixon line
Mason jar
Mason-Dixon Line
Mason-Dixon line
Masonic
Masonite
Masontown
Masonville
Masora
Masorah
Masorete
Masoreth
Masoretic
Masoretical
Masorite
Maspero
Maspiter
Masqat
Masque of the Red Death, The
Masry
Mass
Mass book
Mass part
Massa
Massa Di Sommare
Massachusetts
Massachusetts Bay
Massachusetts Bay Company
Massachusetts ballot
Massacre of the Innocents
Massalia
Massalian
Massapequa
Massapequa Park
Massarelli
Massasoit
Massaua
Massawa
Masskhoth
Massena
Massena quail
Massenet
Massey
Massie
Massif Central
Massilia
Massilian
Massillon
Massimiliano
Massimo
Massine
Massinger
Massingill
Massinisa
Massinissa
Massmonger
Massna
Masson
Masson disk
Massora
Massorah
Massorete
Massoretic
Massoretical
Massoud Rajavi
Matapan
Matar
Matara diamond
Matatua
Matawan
Matazzoni
Matchotic
Mate Ivanov
Mateja Svet
Matejka
Matelda
Mateo
Mater Matuta
Mater et Magistra
Materi
Materse
Mateusz
Matewan
Mateya
Mathe
Mathematik
Matheny
Mather
Matherville
Matheson
Mathew
Mathews
Mathewson
Mathi
Mathia
Mathian
Mathias
Mathias Rust
Mathieu
Mathieu Kerekou
Mathilda
Mathilde
Mathis
Mathiston
Matholwych
Mathre
Mathur
Mathura
Mathurin
Mathusala
Matias
Matilda
Matilde
Matthew
Matthew Cvetic
Matthew Paris
Matthew Walker
Matthew Walker knot
Matthews
Matthia
Matthias
Matthias Gierens
Matthieu
Matthew
Mathiola
Matthus
Matthyas
Matt
Matti Ahtisaari
Mattias
Mattie
Mattituck
Mattland
Matto Grosso
Mattoon
Mattox
Mattson
Matty
Maturine
Matusow
Matuta
Mau Mau
Mau Maus
Mau-Mau
Maubeuge
Mauceri
Mauch chunk
Mauchi
Mauckport
Maud
Maude
Maudie
Maudsley
Maudy
Maudye
Mauer
Maugansville
Maugham
Maugis
Maui
Mauk
Maulana
Maulana Abul Kalam Azad
Maulawiyah
Mauldin
Mauldon
Mauler
Maulmain
Mauman
Maumee
Maun
Mauna Kea
Mauna Loa
Maunabo
Maundy Thursday
Maundy money
Maunie
Mauno Koivisto
Maunsell
Maupassant
Maupertius principle
Maupertuis
Maupin
Maura
Mauralia
Maurandia
Maure
Maureen
Maurene
Maurene
Maurepas
Maurer
Maurertown
Mauretania
Mauretanian
Mauretta
Maurey
Mauri
Mauriac
Maurice
Maurice Chevalie
Maurice Couve de Murville
Maurice Duplessis
Maurice Ferre
Mauricetown
Mauriceville
Mauricio
Mauricio Borgonovo
Maurie
Maurili
Maurilia
Maurilla
Maurine
Maurise
Maurist
Maurita
Mauritania
Mauritanian
Mauritia
Mauritian
Mauritius
Mauritius hemp
Maurits
Mauritz Caransa
Maurizia
Maurizio
Mauro
Maurois
Maurreen
Maurus
Maury
Maurya
Mauryan
Mauser
Mauston
Mauve
Mauve Decade
Mavilia
Mavis
Mavisdale
Mavortian
Mavra
Mavrodaphne
Mawr
Mawson
Mawworm
Max
Max Chigwide
Max Daume
Max Desfor
Max Hugel
Max Mler
Maxa
Maxama
Maxantia
Maxatawny
Maxbass
Maxentia
Maxey
Maxfield
Maxi
Maxia
Maxie
Maxim
Maxim gun
Maxima
Maximalism
Maximalist
Maxime
Maximes
Maximilian
Maximilian I
Maximilian II
Maximilian Kolbe
Maximilian armor
Maximilianus
Maximilien
Maximo
Maximon
Maximos Demetrios
Maximus
Maxine
Maxma
Maxton
Maxwell
Maxwell triangle
Maxwell-Boltzmann statistics
Maxwellian
Maxwelton
Maxy
May
May Day
May apple
May basket
May beetle
May blobs
May bug
May day
May fly
May queen
May wine
May-day
Maya
Maya-quiche
Mayaca
Maynardville
Mayne
Maynet
Maynord
 Mayo
Mayodan
Mayologist
Mayon
Mayor
Mayor of Casterbridge, The
Mayoruna
Mayotte
Maypearl
Maypole
Maypole dance
Maypoling
Mayport
Mays
Maysel
Maysfield
Mayslick
Maysville
Maytenus
Maythorn
Maytide
Maytime
Maytown
Mayview
Mayville
Maywings
Maywood
Mayworm
Maywort
Mazama
Mazanderani
Mazarin
Mazatec
Mazateco
Mazatl
Mazatlan
Mazda
Mazdaism
Mazdaist
Mazdakean
Mazdakite
Mazdean
Maze
Mazel
MeV
Mead
Meade
Meador
Meadow
Meadowbrook
Meadows
Meads
Meadville
Meagan
Meaghan
Meagher
Meakem
Meally
Means
Means grass
Meansville
Meantes
Meany
Meara
Meares
Mears
Meath
Meave
Mebane
Mebsuta
Mecaptera
Mecca
Mecca balsam
Meccan
Meccano
Meccawee
Mechaneus
Mechanicsburg
Mechanicstown
Mechanicsville
Mechanicville
Mechelen
Mechelle
Mechir
Mechitarist
Mechitaristican
Mechlin
Mechlin lace
Mechling
Mechnikov
Mecisteus
Mecke
Meckelian
Meckelian cartilage
Mecklenburg
Mecklenburg Day
Mecklenburgian
Meckling
Mecodonta
Mecoptera
Mecosta
Med
MedScD
Meda
Medaille Militaire
Medal for Merit
Medal of Freedom
Medal of Honor
Medan
Medanales
Medarda
Medardas
Medaryville
Medawar
Meddlesome Mattie
Mede
Medea
Medeha
Medell
Medellin
Medeoia
Medeus
Medfield
Medford
Medford Lakes
Medgar Evers
Media
Media Atropatene
Median
Mediapolis
Medic
Medicago
Medicaid
Medical Lake
Medicare
Medicean
Medici
Medicine Bow Range
Medicine Hat
Medieval
Medieval Greek
Medieval Latin
Medii
Medill
Medin
Medina
Medina worm
Medinah
Medinilla
Medish
Medism
Medit
Mediterranean
Mediterranean Sea
Mediterranean anemia
Mediterranean fever
Mediterranean fruit fly
Mediterranean race
Mediterraneanism
Mediterraneanization
Mediterraneanize
Meditrinalia
Medize
Medizer
Medlin
Medo-persian
Medoc
Medomak
Medon
Medor
Medora
Medorra
Medovich
Medrek
Medusa
Medusae
Medusas
Medway
Medwin
Mee
Meece
Meehan
Meek
Meeker
Meekoceras
Meeks
Meenen
Meer
<table>
<thead>
<tr>
<th>Megapodiidae</th>
<th>Megapodius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megaptera</td>
<td>Megapterinae</td>
</tr>
<tr>
<td>Megara</td>
<td>Megarean</td>
</tr>
<tr>
<td>Megarensian</td>
<td>Megargee</td>
</tr>
<tr>
<td>Megargel</td>
<td>Megarhinus</td>
</tr>
<tr>
<td>Megarhyssa</td>
<td>Megarian</td>
</tr>
<tr>
<td>Megarianism</td>
<td>Megaric</td>
</tr>
<tr>
<td>Megaris</td>
<td>Megarus</td>
</tr>
<tr>
<td>Megasoma</td>
<td>Megatheriidae</td>
</tr>
<tr>
<td>Megatherium</td>
<td>Megdal</td>
</tr>
<tr>
<td>Megen</td>
<td>Megen</td>
</tr>
<tr>
<td>Meges</td>
<td>Megger</td>
</tr>
<tr>
<td>Meggi</td>
<td>Meggie</td>
</tr>
<tr>
<td>Meggs</td>
<td>Meggy</td>
</tr>
<tr>
<td>Meghalaya</td>
<td>Meghalick</td>
</tr>
<tr>
<td>Meghan</td>
<td>Mehala</td>
</tr>
<tr>
<td>Meghann</td>
<td>Mehalek</td>
</tr>
<tr>
<td>Megiddo</td>
<td>Mehdi Bazargan</td>
</tr>
<tr>
<td>Megrel</td>
<td>Mehetya</td>
</tr>
<tr>
<td>Megrez</td>
<td>Mehemet Ali</td>
</tr>
<tr>
<td>Mehtorial</td>
<td>Mehetabel</td>
</tr>
<tr>
<td>Mehitabel</td>
<td>Mehitable</td>
</tr>
<tr>
<td>Mehitable</td>
<td>Mehmet Ali Agca</td>
</tr>
<tr>
<td>Mehoopany</td>
<td>Mehta</td>
</tr>
<tr>
<td>Mehul</td>
<td>Mehul</td>
</tr>
<tr>
<td>Mehuman</td>
<td></td>
</tr>
</tbody>
</table>
Melcarth
Melcher
Melchers
Melchiades
Melchior
Melchisedech
Melchite
Melchizedek
Melchizedek priesthood
Melchora
Melcroft
Melda
Melder
Meldoh
Meldon
Meldrim
Meleager
Meleagridae
Meleagrina
Meleagrinae
Meleagris
Melecent
Melena
Melentha
Meles
Melesa
Melessa
Melete
Meletian
Meletius
Meletski
Melfa
Melgar
Meli
Melia
Meliaceae
Meliad
Meliadus
Meliae
Melian
Melianthaceae
Melianthus
Meliboea
Melic Nymphs
Melica
Melicent
Melicerta
Melicertes
Melicertidae
Melicocca
Melie
Melih Esenbel
Melilla
Melilotus
Melina
Melinae
Melinda
Melinde
Melinis
Meliola
Melipagidae
Melipona
Meliponinae
Melisa
Melisande
Melisandra
Melise
Melisenda
Melisent
Melissa
Melisse
Melisseus
Melissie
Melissy
Melita
Melitae
Melitene
Melitopol
Melitta
Melkite
Mell
Mella
Mellar
Mellen
Mellenville
Mellers
Melleta
Mellette
Melli
Mellicent
Melie
Melliferia
Mellins
Mellisa
Mellisent
Mellisent
Mellivora
Mellivorinae
Mellman
Mello
Mellon
Melloney
Mellott
Mellwood
Melly
Melmon
Melmore
Melnick
Meloctactus
Melodee
Melodie
Melody
Melodye
Melogrammataceae
Meloidae
Melolontha
Melolonthidae
Melolonthides
Melolonthinae
Melone
Melonechinus
Melonie
Melonites
Melony
Melos
Melosa
Melospiza
Melothria
Melpomene
Melquist
Melrose
Melstone
Melton
Meltonian
Melun
Melungeon
Melursus
Melva
Melvena
Melvern
Melvil
Melville
Melville Island
Melville Peninsula
Melvin
Melvin Belli
Melvina
Melvindale
Melvyn
Member
Member of Congress
Member of Parliament
Member of the Wedding, The
Memberberg
Membracidae
Membranipora
Membraniporidae
Memel
Memento of the Dead
Memento of the Living
Memlinc
Memling
Memnon
Memnonia
Memnonian
Memnonium
Memorial Day
Memory
Memphian
Memphis
Memphite
Memphitic
Memphremagog
Mena
Menachem Begin
Menado
Menaechmi
Menahga
Menai Strait
Menam
Menan
Menander
Menangkabau
Menard
Menasha
Menashem
Menaspis
Mencher
Mencius
Mencken
Menckenian
Mend
Menesthius
Menfra
Menfro
Meng
Meng-tze
Mengelberg
Mengistu Haile Mariam
Mengtze
Mengwe
Menic
Menides
Menifee
Menindie clover
Menippe
Menis
Meniscotheriidae
Meniscotherium
Menispermaceae
Menispermum
Menkalinan
Menkar
Menken
Menkib
Menkure
Menlo
Menninger
Menno
Mennonist
Mennonite
Mennonitism
Meno
Menobranchidae
Menobranchus
Menodice
Menoeceus
Menetes
Menoetius
Menoken
Menominee
Menominee whitefish
Menomini
Menomonee Falls
Menomonie
Menon
Menopoma
Menorah
Menorca
Menorhyncha
Merrile
Merrilee
Merrii
Merrill
Merrill's Raiders
Merrillan
Merrily
Merrilyn
Merrimac
Merrimack
Merriman
Merriott
Merritt
Merritt Island
Merrittstown
Merrouge
Merrow
Merry
Merryville
Merse
Merseburg
Mersenne number
Mersey
Mersey sound
Merseyside
Mershon
Mersin
Mert
Merta
Mertens
Mertensis
Merth
Merthiolate
Merthyr Tydfil
Merton
Mertzon
Mertztown
Merula
Merulius
Merv
Mervin
Mervyn
Mervyn Dymally
Merwin
Merwin Coad
Merwyn
Merychippus
Merycoidodon
Mesostoma
Mesostomatidae
Mesosuchia
Mesotaeniaceae
Mesotaeniales
Mesothelae
Mesozoa
Mesozoic
Mesopus
Mespot
Mesquite
Mesropian
Messalian
Messalina
Messapian
Messapic
Messeigneurs
Messene
Messenia
Messere
Messerschmitt
Messiaen
Messiah
Messiahship
Messianic
Messianically
Messianism
Messianist
Messianize
Messias
Messidor
Messier
Messier catalog
MessinaMessines
Messines
Messinese
Messing
Messrs
Mesthles
Mestor
Mesua
Mesvinian
Meta
Metabel
Metabola
Metabolia
Metabus
Metachlamydeae
Metacomet
Metageitnion
Metairie
Metal Lumber
Metaline
Metamora
Metamorphoses
Metamorphosis, The
Metamynodon
Metanemertini
Metaphen
Metaphysical
Metaspermae
Metastasio
Metatheria
Metaurus
Metaurus River
Metaxa
Metaxas
Metazoa
Metcalf
Metcalfe
Metcalfe bean
Metchnikoff
Meter
Meth
Methedrine
Methedrine pill
Method
Methodism
Methodist
Methodistic
Methodistical
Methodistically
Methodisty
Methodius
Methodize
Methody
Methow
Methuen
Methuselah
Methyl methacrylate
Methylene azure
Metioche
Metion
Metis
Metiscus
Metius
Metoac
Metol
Metonic cycle
Metope
Metopias
Metopoceros
Metrazol
Metrazol shock therapy
Metrazol therapy
Metridium
Metropolis
Metropolitan Museum
Metrosideros
Metroxylon
Metsky
Metsys
Mettah
Metter
Metternich
Mettie
Metton
Metts
Metty
Metuchen
Metycaine
Metz
Metzgar
Metzger
Metzler
Meum
Meung
Meunier
Meurer
Meursault
Meurthe-et-Moselle
Meuse
Meuse River-Argonne Forest
Meuser
Mev
Mewar
Mex
MexSp
Mexia
Mexica
Mexicali
Mexican
Mexican Spanish
Mexican War
Mexican apple
Mexican bamboo
Mexican bean beetle
Mexican blue palm
Mexican bush sage
Mexican fire-plant
Mexican hairless
Mexican hat dance
Mexican ivy
Mexican jade
Mexican jumping bean
Mexican onyx
Mexican orange
Mexican poppy
Mexican red
Mexican tea
Mexicanize
Mexicano
Mexico
Mexico City
Mexitl
Mexitli
Meyer
Meyerbeer
Meyerhof
Meyeroff
Meyers
Meyersdale
Meyersville
Mezentian
Mezentism
Mezentius
Mezoff
Mg
Mgr
Mhausen
Mheim an der Ruhr
Mi Kincheloe
Mi-le-fo
MiNE
Mia
Mial
Miami
Miami Beach
Miami Shores
Miami
Miamisburg
Miamitown
Michal
Michal Pivonka
Michale
Michaud
Michaux
Miche
Micheal
Micheas
Micheil
Michel
Michel Aoun
Michel Auon
Michel Bergeron
Michel Debre
Michel Defferre
Michel Fribourg
Michel Goulet
Michel Jezy
Michel Petit
Michel Rocard
Michelangelesque
Michelangelism
Michelangelo
Michele
Michelia
Michelin
Michelina
Micheline
Michell
Michellia
Michella
Michelle
Michelozzo
Michelsen
Michelson
Michelson-Morley experiment
Michener
Michey
Michi
Michie
Michiel Schapers
Michigamea
Michigamme
Michigan
Michigan bankroll
Michigan roll
Michigan rummy
Michigander
Michiganian
Micropterygoidea
Micropteryx
Micropus
Microrhopias
Microsauria
Microscopid
Microscopium
Microsorex
Microsporomae
Microsphaera
Microsporidia
Microsporon
Microsporum
Microstenes
Microstylis
Microthelyphonida
Microthyriaceae
Microtinae
Microtus
Micrurus
Miculek
Mid
Mid Glamorgan
Mid-african
Mid-american
Mid-american
Mid-april
Mid-asian
Mid-atlantic
Mid-august
Mid-cambrian
Mid-december
Mid-empire
Mid-europe
Mid-european
Mid-february
Mid-huronian
Mid-italian
Mid-january
Mid-july
Mid-june
Mid-lent sunday
Mid-march
Mid-may
Mid-november
Mid-october
Mid-pacific
Mid-pleistocene
Mid-renaissance
Mid-september
Mid-siberian
Mid-tertiary
Mid-upper
Mid-victorian
Mid-victorianism
Midas
Midas touch
Middelburg
Middendorf
Middle
Middle Ages
Middle America
Middle American
Middle Atlantic
Middle Atlantic States
Middle Comedy
Middle Congo
Middle Dutch
Middle East
Middle Eastern
Middle Empire
Middle English
Middle Flemish
Middle French
Middle Greek
Middle High German
Middle Indian
Middle Iranian
Middle Irish
Middle Kingdom
Middle Latin
Middle Low German
Middle Palaeolithic
Middle Passage
Middle Persian
Middle States
Middle Temple
Middle West
Middle Western
Middle Westerner
Middle White
Middle c
Middle high german
Middle indian
Middle iranian
Middle minoan
Middle persian
Middle scots
Middle west
Middle western
Middle westerner
Middle-age
Middle-ageism
Middlebass
Middleboro
Middleborough
Middlebourne
Middlebrook
Middleburg
Middleburg Heights
Middleburgh
Middlebury
Middlefield
Middlemarch
Middleport
Middlesboro
Middlesbrough
Middlesex
Middlesworth
Middleton
Middletown
Middleville
Mide
Mideast
Mideastern
Mider
Midfield
Midgard
Midgard serpent
Midgardhr
Midgarth
Midge
Midheaven
Midi
Midi-Pyrn
Midian
Midianite
Midianitish
Mididae
Midis
Midkiff
Midland
Midland Park
Midland dialect
Midlander
Midlandize
Midlands
Midlothian
Midpines
Midsomer Day
Midsomer Eve
Midsomer Night
Midsomer day
Midsomer eve
Midvale
Midville
Midway
Midway Islands
Midway formation
Midwest
Midwestern
Midwesterner
Midwinter day
Mieczyslaw Rakowski
Mieczyslaw Jagielski
Mielszner
Mientao
Mieres
Mies van der Rohe
Miescherian
Miett
Mifflin
Mifflinburg
Mifflintown
Mifflinville
Mig
Migeon
Migel Henriquez Guzman
Migell
Migiel Angel Asturias
Mignon
Mignonette
Mignonne
Migonitis
Miguel
Miguel Aleman
Miguel Bisbe
Miguel Cuello
Miguel Felix Gallardo
Miguel d'Escoto
Miguel de la Madrid
Miguela
Mikkanen
Mikkel
Mikko Makela
Miko
Mikol
Miksen
Mil
Mila
Milaca
Milam
Milan
Milan Srejber
Milan point
Milanese
Milanese liturgy
Milanese mandolin
Milanion
Milano
Milanov
Milanville
Milazzo
Milbank
Milburn
Milburr
Milburt
Milda
Milde
Mildred
Mildrid
Mile
Miledh
Milena
Miles
Milesburg
Milesian
Milesian tales
Milesius
Milesville
Miletus
Milewski
Miley
Milfay
Milford
Milford Haven
Milhaud
Milicent
Milinda
Miliola
Milissa
Milisent
Military Air Transport Service
Military Cross
Militia bureau
Milka
Milking shorthorn
Milks
Milky Way
Mill
Mill Valley
Mill on the Floss, The
Milla
Milladore
Millais
Millan
Millar
Millard
Millay
Millboro
Millbrae
Millbrook
Millburn
Millbury
Millda
Milldale
Millecent
Milledgeville
Millen
Millennial Church
Millepora
Miller
Miller index
Miller projection
Millerand
Millerism
Millerite
Millers
Millersburg
Millersport
Millerstown
Millersville
Millerton
Millerville
Milles
Milles Bornes
Millet
Millettia
Millfield
Millford
Millhall
Millham
Millheim
Millhon
Millhousen
Milli
Millian
Millican
Millicent
Millie
Milligan
Millikan
Milliken
Millington
Millingtonia
Millinocket
Millis
Millisent
Millie
Millman
Millmont
Millport
Millrift
Milry
Mills
Mills bomb
Mills grenade
Millsap
Millsboro
Millsboals
Millstadt
Millston
Millstone grit
Milltown
Millur
Millvale
Millville
Millwater
Millwood
Milly
Milman
Milmay
Milmine
Milne
Milne method
Milner
Mimamsa
Mimas
Mimbreno
Mimbres
Mime
Mimeograph
Mimi
Mimidae
Miminae
Mimir
Mimosa
Mimosaceae
Mimpei
Mims
Mimulus
Mimus
Mimusops
Min
Mina
Mina Hassan Tani
Minabe
Minaean
Minahassa
Minahassan
Minahassian
Minamata disease
Minamoto
Minardi
Minas Basin
Minas Gerais
Minatare
Minburn
Mince pie
Minch
Minchah
Minco
Mincopi
Mincopie
Mind
Minda
Mindanao
Mindanao Deep
Mindanao Island
Mindel
Mindel-riss
MindelMindel-riss
Mindelian
Minden
Mindererus
Mindi
Mindoro
Mindszenty
Mindy
Minelamotte
Minenwerfer
Mineola
Miner
Minersville
Minerva
Minervan
Minervic
Mines
Minetta
Minette
Minetto
Mineville
Minford
Ming
Mingche
Mingo
Mingo Junction
Mingoville
Mingrelian
Mingus
Minhah
Minho
Minhow
Mini
Minica
Miniconjou
Minie
Minie ball
Minier
Minimalist
Minimite
Mining Eng
Minister of Agriculture
Minister of Power
Minister of Technology
Minister of Transport
Minister of the Crown
Minitari
Minitrack
Miniver Cheevy
Minkopi
Minkowski universe
Minkowski world
Minn
Minna
Minnaminnie
Minne
Minneapolis
Minneapolisian
Minnehaha
Minneola
Minneota
Minnesota
Minnesota preschool scale
Minnesotan
Minnetaree
Minnetonka
Minnewaukan
Minnewit
Minni
Minnie
Minnie Mouse
Minnie Mouse launcher
Minnis
Minnnie
Minny
Mino
Minoa
Minoan
Minocqua
Minong
Minonk
Minooka
Minor
Minor Prophets
Minorca
Minorca clematis
Minorcan
Minoress
Minorist
Minorite
Minoru
Minos
Minot
Minotaur
Minotola
Minseito
Minsk
Minsky
Minster
Miss
Miss America
Miss Emma
Miss Lonelyhearts
Miss-Nancyish
Missa
Missa Solemnis
Missa adventitia
Missa bassa
Missa cantata
Missa capitularis
Missa legata
Missa manualis
Missa media
Missa praesanctificatorum
Missa privata
Missa publica
Missa sicca
Missa solemnis
Missi
Missie
Missie Berteotti
Mission Hills
Missionary Ridge
Mississauga
Mississauga
Mississippi
Mississippi catfish
Mississippian
Missolonghi
Missoula
Missouri
Missouri Valley
Missouri breadroot
Missouri cactus
Missouri gourd
Missouri meerschaum
Missourian
Missourianism
Missouris
Missy
Mistassini
Mister
Mister Charley
Misti
Miston
Mistral
Mistress
Mistress of the Robes
Mistrot
Mists
Misty
Mit brennender Sorge
Mita
Mitakshara
Mitanni
Mitannian
Mitannie
Mitannish
Mitch
Mitch Messier
Mitchael
Mitchel
Mitchell
Mitchella
Mitchells
Mitchellsburg
Mitchellville
Mitchiner
Mitella
Mitford
Mithgarth
Mithgarthr
Mithileshwar Singh
Mithra
Mithraea
Mithraeum
Mithraeums
Mithraic
Mithraicism
Mithraicist
Mithraicize
Mithraism
Mithraist
Mithraistic
Mithraitic
Mithraize
Mithras
Mithratic
Mithriac
Mithridates Eupator
Mithridates VI
Mithridatic
Mitlani
Mitinger
Mitis green
Mitman
Mitnagdim
Mitnagged
Mitra
Mitran
Mitre
Mitrephorus
Mitridae
Mitscher
Mitsukurina
Mitsukurinidae
Mittel
Mittel-europa
Mitteleuropa
Mittelmeer
Mitterrand
Mittie
Mittler's green
Mitu
Mitua
Mitzi
Mitzie
Mitzl
Miun
Mix-hellene
Mixe
Mixie
Mixodectes
Mixodectidae
Mixosaurus
Mixtec
Mixtecan
Mixteco
Mixtecos
Mixtecs
Miyasawa
Mizar
Mize
Mizitra
Mizoguchi
Mizoram
Mizpah
Mizpah ring
Mizrachi
Mizrahi
Mizraim
Mizuki
Mobius
Mobius band
Mobius strip
Mobius transformation
Mobjack
Mobley
Mobridge
Mobula
Mobulidae
Mobutu
Mobutu Sese Seko
Moby Dick
Moca
Mocambique
Mocha
Mocha stone
Mocha-stone moth
Moche
Mochica
Mochun
Mocksville
Moclips
Mocoa
Mocan
Mocetzuma
Mod
Modale
Mode
Modena
Modenese
Moderations
Moderatus
Modern
Modern English
Modern French
Modern Greek
Modern Hebrew
Modern Icelandic
Modest Petrovich
Modesta
Modeste
Modestia
Modestine
Modesto
Modestown
Modesty
Modibo
Modibo Keita
Mohist
Mohl
Mohn
Mohnton
Moho
Mohock
Mohockism
Mohole
Moholy-Nagy
Mohr
Mohrodendron
Mohrsville
Mohs scale
Mohsen
Mohun
Moi
Moia
Moigno
Moina
Moine series
Moines
Moingwena
Moir
Moira
Moirai
Moise
Moiseiwitsch
Moises
Moiseyev
Moishe
Moism
Moissan
Moitoso
Mojave
Mojave Desert
Mojaves
Moigan
Moji
Mojo
Mok
Mokane
Mokas
Mokena
Mokha
Moko
Mokpo
Mola
Molala
Mona Lisa
Mona Lisa dressing
Mona Passage
Monaca
Monacan
Monacanthidae
Monacha
Monachi
Monaco
Monadelphia
Monadina
Monafø
Monagan
Monaghan
Monah
Monahan
Monahans
Monahon
Monanday
Monandria
Monango
Monarchian
Monarchianist
Monarda
Monardella
Monario
Monarski
Monasa
Monascidiae
Monash
Monastir
Monaville
Monaxonida
Monbazillac
Monbuttu
Moncear
Monceau
Monchengladbach
Monchhof
Monck
Monclova
Moncton
Moncure
Mond
Mond process
Monda
Mondale
Mondamin
Monday
Monday Club
Monday morning quarterback
Monday morning quarterbacking
Mondayish
Mondayishness
Mondayland
Mondays
Mondovi
Mondrian
Monee
Monegasque
Monel
Monel Metal
Monel metal
Monera
Monerozoa
Moneses
Monessen
Monet
Moneta
Monett
Monetta
Monette
Monge
Mongeau
Monghol
Mongholian
Mongibel
Mongo
Mongol
Mongol Empire
Mongol-galchic alphabet
Mongolia
Mongolian
Mongolian People's Republic
Mongolian fold
Mongolian idiocy
Mongolian idiot
Mongolian race
Mongolianism
Mongolic
Mongolioid
Mongolish
Mongolism
Mongolization
Mongolize
Mongolo-dravidian
Mongolo-manchurian
Mongolo-tatar
Mongolo-turkic
Mongoloid
Mongoloid race
Mongooses
Mongoyo
Monhegan
Monia
Monias
Monica
Monica Seles
Monico
Monie
Monika
Monilia
Moniliaceae
Moniliales
Monimia
Monimiaceae
Monique
Moniru Genda
Moniz
Monjan
Monjo
Monk
Monkey Trial
Monkton
Monmouth
Monmouth cap
Monmouth cock
Monmouthshire
Monnet
Monney
Mono
Monocentridae
Monocentris
Monoceros
Monocerotis
Monochlamydeae
Monoclonius
Monocoelia
Monocondyla
Monocotyledones
Monocyclica
Monocystidae
Monocystidea
Monocystis
Monotropis
Monotype
Monotype caster
Monotype keyboard
Monoville
Monozoa
Monponsett
Monreal
Monro
Monroe
Monroe Doctrine
Monroe doctrine
Monroeism
Monroeist
Monroeton
Monroeville
Monrovia
Monroy
Mons
Monsanto
Monsarrat
Monseigneur
Monsey
Monsignor
Monsignori
Monson
Monsoni
Monsour
Monstera
Mont
Mont Blanc
Mont Cenis
Mont Cervin
Mont Dore
Mont Saint Michel
Mont blanc ruby
Mont-Cenis
Mont-Saint-Michel
Mont-Saint-Michel and Chartres
Montagna
Montagnac
Montagnais
Montagnard
Montagnards
Montagu
Montagu's harrier
Montague
Montaigne
Montale
Montalvo
Montana
Montana grayling
Montanan
Montanari
Montanez
Montanism
Montanist
Montanistic
Montanistical
Montanize
Montano
Montargis
Montasio
Montauban
Montauk
Montbiard
Montcalm
Montclair
Monte
Monte Carlo
Monte Carlo method
Monte Cassino
Monte Corno
Montefiascone
Montefiore
Montego Bay
Monteith
Montenegrin
Montenegro
Montepulciano
Monterey
Monterey cypress
Monterey halibut
Monterey squid skiff
Monteria
Monterrey
Montes
Montesco
Montesinos
Montespan
Montesquieu
Montessori
Montessori method
Montessori system
Montessorian
Montessorianism
Moriae Encomium
Moriah
Moriarty
Morange
Moriches
Morie
Morike
Morinaceae
Morinda
Moringa
Moringaceae
Moringua
Moringuidae
Morini
Moriori
Moriscan
Morisco
Moriscoes
Moriscos
Morison
Morisonian
Morisonianism
Morissa
Morita
Moritz
Moriyama
Mortland
Morlee
Morley
Morly
Mormon
Mormon church
Mormon cricket
Mormon priest
Mormondom
Mormoness
Mormonism
Mormonist
Mormonite
Mormonweed
Mormoops
Mormyridae
Mormyrus
Morna
Mornay
Morning
Morning Prayer
Moro
Moroccan
Moroccan wine
Morocco
Morocco gum
Morocco millet
Morocco-head
Morocco-jaw
Morogoro
Moron
Moronidae
Moropus
Moros
Morosaurus
Morovis
Morphean
Morpheus
Morpho
Morphy
Morra
Morral
Morrell
Morrenian
Morrhua
Morrice
Morrie
Morrigan
Morril
Morrill
Morrill Act
Morilton
Morris
Morris Plains
Morris Plan bank
Morris chair
Morrisdale
Morrisean
Morrison
Morrison formation
Morrisonville
Morrisey
Morriston
Morristown
Morrisville
Morro Bay
Morro Castle
Morrow
Morrowville
Morry
Moselle
Mosenthal
Moser
Mosera
Moses
Moses boat
Moses primrose
Mosetena
Mosgu
Mosshannon
Moshe
Moshe Arens
Moshe Dayan
Mosheim
Moshell
Mosherville
Moshesh
Moshi
Mosier
Mosinee
Mosira
Moskow
Moskva
Moslem
Moslemah
Moslemic
Moslemian
Moslemism
Moslemite
Moslemize
Moslems
Mosley
Mosora
Mosotho
Mosquero
Mosquito
Mosquitoan family
Mosra
Moss
Moss Point
Mossbauer
Mossbauer effect
Mossberg
Mosses from an Old Manse
Mossi
Mossman
Mossville
Mossyrock

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 11338
Most
Most Honourable
Most Reverend
Most honorable
Mosting
Mosul
Moszkowski
Motacilla
Motacillidae
Motacillinae
Motazilite
Motch
Moth
Mother
Mother Carey's chicken
Mother Carey's goose
Mother Goose
Mother Hubbard
Mother Nature
Mother of God
Mother of Parliaments
Mother's Day
Mothering Sunday
Mothering sunday
Mothers of Invention
Motherwell
Motherwell and Wishaw
Motilal
Motley
Moto meter
Motorola
Motown
Motozintlec
Motozintleca
Mott
Motteo
Mottville
Motu
Mou
Mougeotia
Mougeotiaceae
Moukden
Moulay Hassan
Moulden
Mouldon
Moule
Moulin de la Galette, Le
Mouline
Mucorales
Mucuna
Mudd
Mudejar
Mudjar
Muehlenbeckia
Mueller
Muenster
Muffin
Mufi
Mufinella
Mufti
Mufulira
Mugabe
Muggletonian
Muggletonianism
Mugil
Mugilidae
Mugsy Bogues
Muhajir
Muhajirun
Muhammad
Muhammad Ahmed
Muhammad Ali
Muhammad Ghori
Muhammad Zafrulla Khan
Muhammad el Farra
Muhammadan
Muhammadanism
Muhammedan
Muharram
Muhlenberg
Muhlenbergia
Muilla
Muir
Muir Glacier
Muire
Muirhead
Mujahedeen
Mukden
Mukerji
Mukilteo
Mukri
Mukul
Mukund
Mukwonago
Mulberry
Mulcahy
Munroe effect
Muns
Munsee
Munsell chroma
Munsell scale
Munsey
Munsey Park
Munshi
Munson
Munsonville
Munster
Munt
Muntiacus
Muntingia
Muntz metal
Munychia
Munychian
Munychion
Muong
Muphrid
Mur
Mura
Muradiyah
Muraena
Muraenidae
Murage
Muraida
Muran
Muranese
Murasaki Shikibu
Murat
Murat Guler
Muratorian
Muratorian canon
Murchison
Murcia
Murdo
Murdocca
Murdoch
Murdock
Mure
Mureil
Mures
Murfreesboro
Muriah
Murial
Muricidae
Muridae
Muskogeans
Muskogee
Muskogees
Muskwaki
Muslim
Muslim calendar
Muslim ruler
Muslim rulers
Muslimism
Muslims
Musophaga
Musophagi
Musophagidae
Muspelheim
Muspell
Muspellsheim
Muspelsheim
Mussaenda
Musser
Musset
Mussman
Mussolini
Mussorgski
Mussorgsky
Mussulman
Mussulmanic
Mussulmanish
Mussulmanism
Mussulmans
Mussulwoman
Mustafa Amin
Mustafa Kemal
Mustafa Khalil
Mustagh
Mustahfiz
Mustapha Al Umari
Mustela
Mustelidae
Mustelus
Mustoe
Mutabilia
Mutazala
Mutazila
Mutazilite
Muter
Mutiila
Mutillidae
Mutinus
Mutisia
Mutisiaceae
Mutuihito
Muttra
Mutunus
Mutus
Mutz
Muyesca
Muzak
Muzio
Muzo
Muzorewa
Mv
Mw
Mwambutsa IV
Mwanza
Mweru
Mx
My
My Antonia
My Lady
My Lai
My Lord
My Mortal Enemy
Mya
Myacea
Myaria
Myca
Mycah
Mycelia-sterilia
Mycenae
Mycenaean
Mycerinus
Mycetes
Mycetophagidae
Mycetophilidae
Mycetozaa
Mychael
Mychal
Mycobacteria
Mycobacteriaceae
Mycobacterium
Mycogone
Mycomycetes
Mycoplasma
Mycosphaerella
Mycosphaerellaceae
Mycostatin
Mycteria
Myctodera
Myctophidae
Myctophum
Mydaiidae
Mydaus
Myelozoa
Myer
Myers
Myerstown
Myersville
Mygdon
Myiarchus
Myingyan
Myke
Mykerinos
Mylan
Mylander
Mylar
Myles
Myliobatidae
Mylíttta
Mylo
Mylodon
Mylodontidae
Mylor
Mymar
Mymaridae
Myna
Mynheer
Myo
Myodes
Myomorpha
Myoporaceae
Myoporum
Myosotis
Myosurus
Myotalpa
Myotalpinae
Myoxidae
Myoxus
Myra
Myrah
Myranda
Myrcia
Myriam
Myrianida
Myriapoda
Myrica
Myricaceae
Myricales
Myrientomata
Myrilla
Myrina
Myriophyllum
Myriopoda
Myriotrichia
Myriotrichiaceae
Myristica
Myristicaceae
Myristicivora
Myrle
Myrlene
Myrmecia
Myrmecobiinae
Myrmecobius
Myrmecophaga
Myrmecophagidae
Myrmeleon
Myrmeleonidae
Myrmeleontidae
Myrmica
Myrmicidae
Myrmidon
Myrmidones
Myrmidonian
Myrmidons
Myrna
Myron
Myron Cowen
Myrothamnaceae
Myrothamnus
Myroxylon
Myrrha
Myrrhis
Myrsinaceae
Myrsiphyllum
Myrt
Myrta
Myrtaceae
Myrtales
Myrtia
Myrtle
Myrtillus
Myrtle
Myrtlewood
Myrtus
Myrving
Myrwyn
Mysia
Mysian
Mysidacea
Mysidae
Mysis
Mysore
Mystacocete
Mystacoceti
Mystic
Mysticete
Mysticeti
Mystik tape
Mytilacea
Mytilene
Mytiliaspis
Mytilidae
Mytilus
Mytishchi
Myton
Myxine
Myxinidae
Myxinoidae
Myxobacteria
Myxobacteriaceae
Myxobacteriales
Myxococcus
Myxogasteres
Myxogastrales
Myxostilos
Myxostyloides
Myxostyloidae
Myxostyloida
Myxostylium
Myxothallophyta
Myxodendraceae
Myxodendron
Myzomyia
Myzontes
Myzostoma
Myzostomata
Myzostomida
Myzostomidae
Mzi
N
N Dak
N Mex
N by E
N electron
N pole
N radiation
N series
N star
N station
N'Djamena
N'djamena
N's
N-bomb
N-shaped
N-shell
N-type star
N/S/F
NA
NAA
NAACP
NAAFI
NAAS
NAB
NABAC
NAC
NACA
NACS
NAD
NADGE
NADH
NADP
NAG
NAGE
NAK
NALGO
NAM
NAMM
NAND
NAND circuit
NANP
NZBC
Na
Na-Dene
Na-dene
Naalehu
Naam
Naaman
Naaman Azhari
Naamana
Naamann
Naameh
Naara
Naarah
Naashom
Naassesnes
Nabal
Nabala
Nabalas
Nabalism
Nabalite
Nabalitic
Nabaloi
Nabalus
Nabataean
Nabatean
Nabathaean
Nabathean
Nabathite
Nabawy Ismail
Nabb
Nabby
Nabeshima ware
Nabila
Nabis
Nabisco
Nablus
Nabokov
Nabonassar
Nabonidus
Naboth
Nabothian
Nabu
Nabuchodonosor
Nace
Naches
Nachison
Nachitoch
Nachitoches
Nachschlag
Nachtmusik
Nachusa
Nacionalista
Nackenheimer
Naco
Nacoochee
Nada
Nadab
Nadaba
Nadabas
Nadabb
Nadabus
Nadaha
Nadbus
Nadda
Nadean
Nadeau
Nadeen
Nader
Nadia
Nadine
Nadiya
Nadja
Nadler
Nador
Nady
Nadya
Naemorhedinae
Naemorhedus
Nafis
Nafl
Nafud
Naga
Nagaland
Nagano
Nagari
Nagasaki
Nageezi
Nagel
Nagey
Nagle
Nagoya
Nagpur
Nagshead
Naguabo
Naguib Mahfouz
Nagy
Nagyszeben
Nagyvarad
Nagyvrad
Nah
Naha
Nahama
Nahamas
Nahanarvali
Nahane
Nahani
Nahant
Naharvali
Nahma
Nahor
Nahshon
Nahshu
Nahshun
Nahshunn
Nahtanha
Nahua
Nahuan
Nahuatl
Nahuatlac
Nahuatlan
Nahuatleca
Nahuatlecan
Nahuatlcs
Nahum
Nahunta
Naiadaceae
Naiadales
Naiades
Naias
Naida
Naiditch
Naima
Nair
Nair al zaurak
Nair family
Nairn
Nairnshire
Nairobi
Naismith
Naja
Najeeb Halaby
Naji
Nakada
Nakashima
Nakasuji
Nakayama
Nakhichevan
Nakina
Nair
Naknek
Nakongilisala
Nakula
Nakuru
Nalani
Nalchik
Nalda
Naldo
Nalepka
Nalita
Nallen
Nalline
Nally
Nalor
Nam
Nam Tso
Nama
Namaland
Naman
Namangan
Namaqua
Namaqualand
Namaquan
Namara
Nambe
Namen
Names
Namhoi
Namibia
Nammu
Nampa
Nampula
Namtar
Namur
Nan
Nan Ling
Nan Shan
Nan-ching
Nana
Nanafalia
Nanaimo
Nanak
Nanakuli
Nananne
Nance
Nancee
Nancey
Nanchang
Nanci
Nancie
Nancy
Nancy Landon Kassebaum
Nanda Devi
Nandi
Nandina
Nandor
Nanete
Nanette
Nanga Parbat
Nanhai
Nani
Nanice
Nanine
Nanjemoy
Nanji
Nankee porcelain
Nankee yellow
Nankan
Nanking
Nanking china
Nanking porcelain
Nanking ware
Nanking yellow
Nankingese
Nanna
Nannette
Nanni
Nannie
Nanning
Nanny
Nanon
Nanook
Nansen
Nansen bottle
Nansen passport
Nantais
Nanterre
Nantes
Nanticoke
Nantua
Nantucket
Napoli
Naponee
Nappanee
Nappie
Nappy
Naquin
Nara
Narah
Naraka
Naranjito
Naravisa
Narayan
Narayan Godse
Narayanganj
Narbada
Narberth
Narbonne
Narcaciontes
Narcaciontidae
Narcaeus
Narcho
Narcis
Narciss
Narcissan
Narcissine
Narcissus
Narcobatidae
Narcobatoidea
Narcobatus
Narcomedusae
Narda
Nardin
Nardus
Naresh
Narev
Narew
Nari
Nariko
Narine
Narka
Narmada
Narodna skupshtina
Narra
Narraganset
Narragansett
Narragansett Bay
Narragansett pacer
Narragansetts
Narrows
Narrowsburg
Narsinh
Narthecium
Narton
Naruhiko Higashikuni
Naruna
Narva
Narvaez
Narvik
Narvon
Nary
Nasalis
Nasby
Nasca
Nascan
Nascani
Naseby
Naselle
Nash
Nashbar
Nashe
Nashim
Nashira
Nashner
Nasho
Nashoba
Nashom
Nashoma
Nashotah
Nashport
Nashua
Nashville
Nashville warbler
Nashwauk
Nasi
Nasia
Nasicornia
Nasiei
Nasireddin
Naskhi
Nasmyth
Nason
Nassa
Nassau
Nassau Mountains
Nassau grouper
Nassawadox
Nathrop
Natica
Naticidae
Natick
Natie
Natiha
Natiha
Nation of Islam
National
National Academy of Engineering
National Academy of Sciences
National Assembly
National Aviation Day
National Bureau of Standards
National Charter
National Congress
National Convention
National Council
National Country Party
National Covenant
National Enterprise Board
National Front
National Gallery
National Guard
National Health Service
National Industrial Recovery Act
National Labor Relations Act
National Labor Relations Board
National Liberation Front
National Mediation Board
National People's Congress
National Republican Party
National Science Foundation
National Security Council
National Socialism
National Socialist
National Trust
National Union Catalog
National War Labor Board
National Wildlife Service
Nationalist China
Nationalist Party
Nations
Native American
Native Dancer
Native Son
Native States
Natividad
Nativity
Natka
Natoma
Natorp
Natricinae
Natrix
Natt
Natta
Nattie
Natty
Natural Bridge
Natural Bridges
Nature
Nature's elemental din
Nature's mighty law
Nature's second sun
Nature's sole mistake
Naturita
Naubinway
Naucratis
Naugatuck
Naughty Nineties
Naum
Naumann
Naumburgia
Nauplius
Nauru
Nauruan
Nausee La
Nauset
Nausicca
Nausithous
Nautes
Nautical Almanac
Nautilacea
Nautiloidea
Nauvo
Nava
Navada
Navaglobe
Navaho
Navaho blanket
Navaho rug
Navaho sandstone
Navahoes
Navahos
Navajo
Navajoes
Navajos
Naval
Naval Air Division
Naval Air Transport Service
Naval Construction Battalion
Naval Reservist
Navarino
Navarra
Navarre
Navarrese
Navarrian
Navarro
Navasota
Navesink
Naviculaceae
Navigation Acts
Navigator Islands
Navpaktos
Navratilova
Navy Air
Navy Cross
Navy Day
Navy List
Navy Nurse Corps
Navy anchor
Navy list
Navy register
Nawrocki
Naxalite
Naxera
Naxos
Nay
Nayar
Nayarit
Nayarita
Naylor
Naytahwaush
Nazar
Nazarate
Nazarean
Nazarene
Nazarenism
Nazareth
Nazarío
Nazarite
Nazariteship
Nazaritic
Nazaritish
Neanderthaloid
Neapolis
Neapolitan
Neapolitan ice cream
Neapolitan sixth
Near East
Near Eastern
Near eastern
Nearctic
Nearctica
Nearer Tibet
Neau
Neavitt
Neb
Nebaioth
Nebalia
Nebaliacea
Nebaliidae
Nebiim
Nebo
Nebr
Nebraska
Nebraskan
Nehrophonus
Nebuchadnezzar
Nebuchadrezzar
Nec
Necator
Necedah
Neche
Neches
Necho
Necho I
Neckar
Necker
Necrophaga
Necrophorus
Nectandra
Nectarinia
Nectariniidae
Nectaris
Nectonema
Nectria
Nectrioidaceae
Necturidae
Necturus
Ned
Neda
Nedda
Neddie
Neddra
Neddy
Nederland
Nederlands
Nedi
Nedra
Nedrah
Nedrow
Nedrud
Nedry
Nee
Needham
Needles
Needmore
Needville
Neel
Neela
Neelon
Neely
Neelyton
Neelyville
Neenah
Neengatu
Neeoma
Neeses
Nefen
Nefertem
Nefertiti
Neff
Neffs
Nefretete
Nefreteted
Nefreteting
Nefud Desert
Negaunee
Negev
Negeley
Negreet
Negress
Negri Sembilan
Negri body
Negrillo
Negrillos
Negris
Negritian
Negritic
Negritise
Negritised
Negritising
Negritize
Negritized
Negritizing
Negrito
Negritos
Negro
Negro spiritual
Negroes
Negrofy
Negroid
Negroid race
Negroidal
Negroise
Negroised
Negroising
Negroism
Negroization
Negroize
Negroized
Negroizing
Negroloid
Negroni
Negrophil
Negrophile
Negrophilism
Negrophilist
Negrophobe
Negrophobia
Negrophobic
Negrophobist
Negropont
Negros
Negrotic
Negundo
Negus
Neh
Nehalem
Nehantic
Nehawka
Nehemiah
Nehemias
Nehru
Nemesis
Nemhauser
Nemichthyidae
Nemichthys
Nemo
Nemocera
Nemopanthus
Nemophila
Nemorensian
Nemours
Nemrod
Nemunas
Nena
Nengahiba
Nenney
Nenni
Nenzel
Neo
Neo-Confucian
Neo-Confucianism
Neo-Confucianist
Neo-Darwinism
Neo-Darwinist
Neo-Gothic
Neo-Hegelian
Neo-Hegelianism
Neo-Impressionism
Neo-Impressionist
Neo-Ju
Neo-Kantian
Neo-Lamarckian
Neo-Lamarckism
Neo-Latin
Neo-Lutheranism
Neo-Melanesian
Neo-Plastic
Neo-Plasticist
Neo-Platonism
Neo-Pythagorean
Neo-Pythagoreanism
Neo-Realism
Neo-Realist
Neo-Romanticism
Neo-Synephrine
Neo-attic
Neo-babylonian
Neo-egyptian
Neo-hebraic
Neo-hebrew
Neo-hegelian
Neo-hegelianism
Neo-hellenic
Neo-hellenism
Neo-hindu
Neo-kantian
Neo-kantianism
Neo-kantism
Neo-lamarckian
Neo-lamarckism
Neo-lamarckist
Neo-malthusian
Neo-malthusianism
Neo-manichaean
Neo-marxian
Neo-mendelian
Neo-mendelism
Neo-persian
Neo-platonic
Neo-platonism
Neo-platonist
Neo-punic
Neo-pythagorean
Neo-pythagoreanism
NeoCatholicism
Neoarctic
Neobalaena
Neobeachia
Neocene
Neoceratodus
Neoclassicism
Neocomian
Neodesha
Neofabraea
Neofiberae
Neoga
Neogaea
Neogaeal
Neogaean
Neogaec
Neogea
Neogeal
Neogeae
Neogene
Neognathae
Neohipparion
Neola
Neolithic
Neom
Neoma
Neomah
Neomeniidae
Neomorpha
Neomylodon
Neona
Neopaleozoic
Neophron
Neopieris
Neopilina
Neopit
Neoplastic
Neoplasticist
Neoplatonic
Neoplatonician
Neoplatonism
Neoplatonist
Neoplatonistic
Neoprontosil
Neoptolemus
Neornithes
Neosalvarsan
Neoscholasticism
Neosho
Neosorex
Neosporidia
Neotoma
Neotragus
Neotremata
Neotropic
Neotropical
Neotsu
Neowashingtonia
Neozoic
Nep
Nepa
Nepal
Nepalese
Nepali
Nepean
Nepenthaceae
Nepenthes
Neper
Neperian
Nepeta
Neph
Nephele
Nephelium
Nephi
Nephila
Nephilinae
Nephite
Nephrodium
Nephrolepis
Nephrops
Nephropsidae
Nephtali
Nephthys
Nepidae
Nepil
Neponset
Nepos
Neptune
Neptune Beach
Neptune green
Neptunean
Neptunian
Ner Tamid
Nerbudda
Nereen
Nereid
Nereididae
Nereidiformia
Nereids
Nereis
Nereocystis
Nereus
Nergal
Neri
Nerin
Nerine
Nerinx
Nerissa
Nerita
Nerites
Neritidae
Neritina
Nerium
Nerland
Nernst
Nernst heat theorem
Nernst lamp
Nero
Nero's-crown
Neroic
Neron
Neronian
Neronic
Neronize
Nerstrand
Nert
Nerta
Nerte
Nerthridae
Nerthrus
Nerthus
Nerti
Nertie
Nerty
Neruda
Nerva
Nerval
Nervii
Nes
Nesbit
Nesbitt
Nesconset
Nescopeck
Neses
Neshkoro
Nesiot
Neskhi
Neslia
Nesline
Neslund
Nesmith
Nesogaea
Nesogaean
Nesokia
Nesonetta
Nesotragus
Nespelem
Nespelim
Nesquehoning
Ness
Nessa
Nesselrode
Nessi
Nessie
Nessim
Neuchtel
Neudeckian
Neufchatel
Neufcheltel
Neuer
Neuilly
Neuilly-sur-Seine
Neukam
Neumann
Neumark
Neumayer
Neumeyer
Neumster
Neupest
Neurath
Neurope
Neuroptera
Neuropteris
Neuropteroidea
Neuroptoptera
Neusatz
Neuss
Neustria
Neustrian
Neutral zone
Neutrodyne
Nev
Neva
Neva green
Nevada
Nevada Day
Nevadan
Nevado Del Ruiz
Nevai
Neve
Neveda
Never-Never-land
Neverland
Nevers
Neversink
Neviim
Nevil
Nevile
Neville
Nevin
Nevins
Nevis
Nevisdale
New Guinea Pidgin
New Guinea macrophyllum
New Hampshire
New Hampshire red
New Hampton
New Harmony
New Haven
New Haven theology
New Hebrides
New Hebrides Condominium
New High German
New Holland
New Iberia
New Ireland
New Jersey
New Jersey plan
New Jerseyan
New Jerseyite
New Jerusalem
New Jerusalem Church
New Journalism
New Kensington
New Kingdom
New Latin
New Learning
New Left
New Lexington
New London
New Look
New Madrid
New Mexico
New Milford
New Model Army
New Nederland
New Objectivity
New Orleans
New Orleans jazz
New Orleans lugger
New Orleans style
New Paltz
New Plymouth
New Providence
New Quebec
New Realism
New Realist
New Richmond
New Roads
New Rochelle
New Romney
New Scotland Yard
New Siberian Islands
New South
New South Wales
New Spain
New Stone Age
New Style
New Test
New Testament
New Thought
New Thoughter
New Thoughtist
New Wave
New Wave'
New Windsor
New World
New World monkey
New Year
New Year's Day
New Year's Eve
New York
New York Bay
New York City
New York Curb Exchange
New York State
New York State Barge Canal
New York State wine
New York Stock Exchange
New York aster
New York cheese
New York cut
New York point
New York's finest
New Yorkese
New Zealand
New Zealand flax
New Zealand seal
New Zealand wineberry
New england
New englander
New englandish
New englandism
New hampshire
New hampshirean
New hampshirite
New jersey
New jerseyite
New mexican
New thought
New thoughter
New thoughtist
New world
New years day
New years eve
New york
New yorker
New zealand
New zealander
New-Testament
Newar
Newari
Newark
Newark Bay
Newark-on-Trent
Newberg
Newberry
Newbery
Newbery Award
Newbill
Newbold
Newburg
Newburgh
Newburgh Heights
Newbury
Newburyport
Newby
Newcastle
Newcastle disease
Newcastle-under-Lyme
Newcastle-upon-Tyne
Newchwang
Newcomb
Newcombe
Newcomen
Newcomer
Newcomerstown
Newel
Newell
Newfeld
Newfield
Newfie
Newfoundland
Newfoundlander
Newgate
Newhall
Newham
Newhaven
Newhouse
Newichawanoc
Newkirk
Newland
Newlin
Newlon
Newman
Newmanise
Newmanised
Newmanising
Newmanism
Newmanite
Newmanize
Newmanized
Newmanizing
Newmann
Newmarket
Newmarket coat
Newport
Newport Beach
Newport News
Newport boat
Newsom
Newsweek
Newton
Newton Falls
Newton's law of gravitation
Newton's law of motion
Newton's laws of motion
Newton's method
Newton's rings
Newtonabbey
Newtonian
Newtonian mechanics
Newtonian physics
Newtonian telescope
Newtonian universe
Newtonianism
Newtonic
Newtonist
Newtown Pippin
Newtown St Boswells
Nexo
Ney
Neysa
Nez Perc
Nez perce
Ng
Ngala
Ngaliema Mountain
Nganhwei
Ngbaka
Ngo
Ngo Dinh Diem
Ngo Dzu
Ngoko
Nguni
Nguyen
Nguyen Lyong Bang
Nguyen Thi Binh
Nguyen Van Kiem
Nha Trang
Nheengatu
Nhouy Abhay
Ni
Niabi
Niagara
Niagara Falls
Niagaran
Nial
Niall
Niam-niam
Niamey
Niangua
Niantic
Niarada
Niarchos
Nias
Niasese
Nibbs
Nibelung
Nibelungenlied
Nibelungs
Niblungs
Nic
Nica
Nicaea
Nicaean
Nicaragua
Nicaraguan
Nicarao
Nicasio
Niccolo
Nice
Nicene
Nicene Council
Nicene Creed
Nicenian
 Nicenist
Niceno-Constantinopolitan Creed
Nicetas
Niceville
Nich
Nichani
Nichiren Buddhism
Nichol
Nichola
Nicholas
Nicholas Camicia
Nicholas I
Nicholas II
Nicholas V
Nicholas of Cusa
Nicholasville
Nichole
Nicholl
Nicholle
Nicholls
Nichols
Nichols Hills
Nicholson
Nicholson's hydrometer
Nicholville
Nichrome
Nichy
Nicias
Nicippe
Nick
Nick Galifianakis
Nickelsen
Nickelsville
Nickerson
Nickey
Nicki
Nickie
Nickieben
Nicklaus
Nickles
Nickneven
Nicko
Nickola
Nickolai
Nidorf
Nidularia
Nidulariaceae
Nidulariales
Nieberg
Niebuhr
Niederösterreich
Niedersachsen
Niehaus
Niel
Niela
Niels
Nielsen
Nielsen method
Nielson
Nielsville
Niemann-Pick disease
Niemen
Niemler
Niemoeller
Niepce
Nier
Nierembergia
Nierman
Nierstein
Niersteiner
Nies
Nietzsche
Nietzschean
Nietzscheanism
Nietzscheism
Nievelt
Niflheim
Nifhel
Nigel
Nigella
Niger
Niger seed
Niger-Congo
Nigeria
Nigerian
Nigger of the Narcissus, The
Night Watch, The
Nightingale
Nigritian
Nihal
Nihat Erim
Nihhi
Nihi
Nihilism
Nihon
Niigata
Niihau
Nijinsky
Nijmegen
Nika
Nikaniki
Nikaria
Nike
Nike Ajax
Nike Hercules
Nike Zeus
Nike of Samothrace
Nikeno
Nikep
Niki
Nikisch
Nikiski
Nikita
Nikita Khrushchev
Nikki
Nikkie
Nikko
Nikky
Niklaus
Niko
Nikola
Nikola Ignatov
Nikola Kavaja
Nikolai
Nikolai Bulganin
Nikolai Ryzhkov
Nikolainkaupunki
Nikolaos
Nikolas
Nikolaus
Nikolayer
Nikolayev
Nikoletta
Nikolia
Nikolos
Nikolski
Nikon
Nikos
Nil
Nila
Niland
Nile
Nile River
Nile blue
Nile green
Niles
Nilgiri Hills
Nilla
Nilo-Saharan
Nilometer
Nilometric
Niloscope
Nilot
Nilote
Nilotes
Nilotic
Nilotic race
Nilous
Nils
Nils Otto Gustaf
Nilson
Nilsson
Nilus
Nilwood
Nimbus
Nimes
Nimesh
Nimitz
Nimkish
Nimocks
Nimrod
Nimродian
Nimrodic
Nimrodcical
Nimrodize
Nimrud
Nims
Nimwegen
Nina
Nina from Carolina
Ninde
Nine
Nine Dragon Scroll
Nine Worthies
Nine-power treaty
Ninetta
Ninette
Ninety-Five, Theses
Nineveh
Ninevite
Ninevitical
Ninevitiish
Ningal
Ningirsu
Ningpo
Ningsia
Ningsia Hui Autonomous Region
Ninhursag
Ninib
Ninigino-Mikoto
Ninilchik
Ninkur
Ninlil
Ninmah
Ninnekah
Ninnetta
Ninnette
Nino
Ninon
Ninos
Ninox
Ninsar
Ninshubur
Ninth of Ab
Ninth of Av
Nintoo
Ninurta
Ninus
Niobe
Niobean
Niobid
Niobite
Niobrara
Niolo
Nior Nish
Niort
Niota
Niotaize
Nip
Nipha
Nipigon
Nipissing
Niple
Nipmuc
Nipmuck
Nipmucks
Nipomo
Nippon
Nippon chrysanthemum
Nippon daisy
Nipponese
Nipponism
Nipponize
Nippur
Niquiran
Nireus
Nirmalin
Nis
Nisa
Nisaean
Nisan
Nisbet
Nisei
Nisen
Nish
Nishada
Nishapur
Nishi
Nishinomiya
Nisqualli
Nissa
Nissan
Nisse
Nissen hut
Nissensohn
Nissie
Nisswa
Nissy
Nistru
Nisula
Nisus and Euryalus
Nita
Nitella
Niter
Niteroi
Nitidulidae
Nitín
Nito Alves
Nitralloy
Nitrian
Nitriot
Nitro
Nitrobacter
Nitrobacteriaceae
Nomeidae
Nomeus
Nomi
Nomura
Non-african
Non-american
Non-anglican
Non-arab
Non-arabic
Non-archimedean
Non-asiatic
Non-attic
Non-bantu
Non-baptist
Non-biblical
Non-bolshevik
Non-bolshevist
Non-brahmanical
Non-british
Non-buddhist
Non-calvinist
Non-catholic
Non-caucasian
Non-celtic
Non-chaucerian
Non-chinese
Non-christian
Non-congregational
Non-congressional
Non-cymric
Non-czech
Non-danish
Non-darwinian
Non-druid
Non-egyptian
Non-egyptologist
Non-english
Non-euclidean
Non-european
Non-fascist
Non-flemish
Non-french
Non-gaelic
Non-german
Non-germanic
Non-gothic
Non-government
Non-hamitic
Non-hebraic
Non-hebrew
Non-hellenic
Non-hibernian
Non-hindu
Non-hinduized
Non-homeric
Non-indian
Non-indo-european
Non-ionic
Non-irish
Non-islamic
Non-israelite
Non-israelitish
Non-italian
Non-japanese
Non-jew
Non-jewish
Non-kaffir
Non-legendrean
Non-lutheran
Non-magyar
Non-malay
Non-malayan
Non-malthusian
Non-marcan
Non-mason
Non-mediterranean
Non-mendelian
Non-methodist
Non-mohammedan
Non-mongol
Non-mongolian
Non-moorish
Non-mormon
Non-moslem
Non-moslemah
Non-negritic
Non-negro
Non-nicene
Non-norman
Non-norse
Non-pali
Non-paninean
Non-parisian
Non-peruvian
Non-polish
Non-portuguese
Non-presbyterian
Non-protestant
Non-prussian
Non-pythagorean
Non-quaker
Non-riemannian
Non-roman
Non-russian
Non-sanskritic
Non-saxon
Non-scandinavian
Non-semitic
Non-shakespearean
Non-sienese
Non-slavic
Non-spanish
Non-spartan
Non-stoic
Non-swedish
Non-swiss
Non-syrian
Non-tartar
Non-teuton
Non-teutonic
Non-turkish
Non-tuscan
Non-ukrainian
Non-umbrian
Non-unitarian
Non-universalist
Non-uralian
Non-vedic
Non-venetian
Non-vergilian
Non-virginian
Non-welsh
Non-yahgan
Non-zionist
Nona
Nonadorantes
Nonah
Nonantum
Noncalcarea
Nonconformist
Nondalton
Nondeciduata
Nong Khai
Nordica
Nordicism
Nordicist
Nordicity
Nordicization
Nordicize
Nordin
Nordine
Nordkyn Cape
Nordland
Nordman
Nordrhein-Westfalen
Nordstrom
Nore
Norean
Noreen
Norene
Norfolk
Norfolk Island
Norfolk Island Pine
Norfolk coat
Norfolk jacket
Norfolk spaniel
Norfolkian
Norford
Norge
Noric
Noricum
Norina
Norine
Norita
Nork
Norlene
Norlina
Norling
Norm
Norm Thagard
Norma
Normalie
Normalville
Norman
Norman Conquest
Norman English
Norman French
Norman Wells
Norman arch
Norman-French
Norman-french
Normand
Normand Lacombe
Normandy
Normanesque
Normangee
Normalise
Normanish
Normanism
Normanist
Normalization
Normalize
Normalizer
Normanly
Normanna
Normannic
Normantown
Normi
Normie
Normy
Norn
Norna
Nornis
Norns
Norodom Sihanouk
Norphlet
Norri
Norridgewock
Norrie
Norris
Norris-La Guardia Act
Norristown
Norrkoping
Norrkping
Norroway
Norroy
Norroy King of Arms
Norroy and Ulster
Norroy and Ulster King of Arms
Norrv
Norry
Norse
Norse deities
Norse deity
Norse-american
Norseland
Norseman
Norsk
North
North Pacific current
North Palm Beach
North Pelham
North Pole
North Rhine-Westphalia
North Richland Hills
North Riding
North River
North Riverside
North Saskatchewan
North Sea
North Star
North Syracuse
North Tarrytown
North Temperate Zone
North Vietnam
North Wales
North Wildwood
North Wilkesboro
North Yorkshire
North pole
North-Sea gas
North-West Frontier
North-West Frontier Province
Northallerton
Northam
Northampton
Northamptonshire
Northanger Abbey
Northants
Northborough
Northcliffe
Northeast
Northeast Passage
Northener
Northern
Northern Cameroons
Northern Cross
Northern Dvina
Northern Ireland
Northern Michigan
Northern Paiute
Northern Rhodesia
Northern Rhodesian
Northern Sotho
Northern Sporades
Northern Spy
Northern Territories
Norway lobster
Norway maple
Norway rat
Norway ries
Norway spruce
Norwegian
Norwegian Coastal Current
Norwegian Current
Norwegian Sea
Norwegian elkhound
Norwegian saltpeter
Norwegian stove
Norwell
Norwich
Norwich terrier
Norwood
Norword
Nos
Nosairi
Nosairian
Nosema
Nosematidae
Nostoc
Nostocaceae
Nostradamic
Nostradamus
Nostrand
Nosu
Nosy Parker
Notacanthidae
Notacanthus
Notalia
Notasulga
Notelaea
Notharctidae
Notharctus
Nothofagus
Notholaena
Nothosaurs
Nothosauri
Nothosauridae
Nothosaurus
Noti
Notidani
Notidanidae
Notidanus
Notiosorex
Notkerian
Notodontidae
Notogaea
Notogaeal
Notogaean
Notogaec
Notogea
Notommatidae
Notonecta
Notonectidae
Notopteridae
Notopterus
Notorhynchus
Notornis
Notoryctes
Notostraca
Nototherium
Nototrema
Notre
Notre Dame
Notre Dame de Paris
Notre dame
Notrees
Notropis
Nottage
Nottawa
Nottingham
Nottinghamshire
Nottoway
Notts
Notungulata
Notus
Nouakchott
Nouma
Noumea
Nouvelle Vague
Nouvelle-Caledonie
Nov
Nov-Esperanto
Nov-Latin
Nov-esperanto
Nova
Nova Lisboa
Nova Scotia
Nova Scotian
Nova Zembla
Nova scotian
Novachord
Novah
Novak
Nozicka
Nozze di Figaro, Le
Np
Npaktos
Npt
Ns
Nt
Nth
Nu-arawak
Nuangola
Nuba
Nubia
Nubian
Nubian Desert
Nubieber
Nubilum
Nubium
Nucla
Nucula
Nuculacea
Nuculidae
Nuda
Nudd
Nudens
Nudibranchia
Nueces
Nueva Gerona
Nueva Ocotepeque
Nuevo
Nuevo Laredo
Nuevo Leon
Nuffield
Nuffield teaching project
Nufud
Nugent
Nugumiut
Nuits-Saint-Georges
Nuits-St-Georges
Nuku'alofa
Nukuhivan
Nukus
Nuli
Nullarbor Plain
Nullipennes
Nullstellensatz
Num
Numa
Numa Pompilius
Numantia
Numantine
Numanus
Number Ten
Numbers
Numenius
Numerische
Numida
Numidae
Numidia
Numidian
Numidian crane
Numididae
Numidinae
Numine
Numitor
Nummularia
Nummulinidae
Nummulites
Nummulitidae
Nun
Nunapitchuk
Nunc Dimitris
Nunci
Nuncia
Nunciata
Nunda
Nuneaton
Nunes
Nunez
Nunica
Nunki
Nunn
Nunnelly
Nunnery
Nunu
Nupe
Nupercaaine
Nuphar
Nur
Nuremberg
Nuremberg egg
Nuremberg violet
Nureyev
Nuri
Nuriel
Nuris
Nuristan
Nurmi
Nurse
Nurul Amin
Nusa Tenggara
Nusairis
Nusakan
Nusku
Nussbaum
Nut
Nutcracker Suite
Nutley
Nutmeg State
Nutrioso
Nuttallia
Nutter
Nutting
Nuttsville
Nuzzi
Nya
Nyaack
Nyamwezi
Nyanja
Nyasa
Nyasaland
Nyassa
Nyaya
Nyberg
Nyctaginaceae
Nyctaginia
Nyctanthes
Nyctea
Nyctereutes
Nycteribiidae
Nycteridae
Nycteris
Nycteus
Nycticorax
Nyctimene
Nyctimus
Nyctipithecinae
Nyctipithecus
Nydia
Nye
Nyeman
Nyerere
Nyhagen
Nykobing
Nymphaea
Nymphaeaceae
Nymphalidae
Nymphalinae
Nymphipara
Nymphoides
Nymphonacea
Nynwegen
Nynorsk
Nyoro
Nyquist
Nygrehyza
Nyroca
Nysa
Nysaean Nymphs
Nyseides
Nyssa
Nyssaceae
Nyx
O
O & M
O Henry
O Lord
O gauge
O level
O my soul
O star
O station
O wild West Wind
O'
O'-
O'Boyle
O'Brien
O'Callaghan
O'Carroll
O'Casey
O'Connell
O'Conner
O'Conner
O'Dell
O'Doneven
O'Donnell
O'Donoghue
O'Donovan
O'Driscoll
O'Dwyer
O'Fallon
O'Faolain
O'Fiaich
Occidentalisation
Occidentalise
Occidentalised
Occidentalising
Occidentalism
Occidentalist
Occidentalization
Occidentalize
Occidentalized
Occidentalizing
Occleve
Occoquan
Occupation Day
Occupation day
Ocean of Storms
Oceana
Oceania
Oceanian
Oceanic
Oceanic mongol
Oceanica
Oceanican
Oceanid
Oceano
Oceanport
Oceanside
Oceanus
Oceanus Procellarum
Oceanview
Oceanville
Oceola
Ochelata
Ocheyedan
Ochimus
Ochna
Ochnaceae
Ochoa
Ochopee
Ochotona
Ochotonidae
Ochozath
Ochozias
Ochozoma
Ochrana
Ochroma
Ochs
Ocie
Ocilla
Ocydromus
Ocyptete
Ocypoda
Ocypode
Ocypodidae
Ocypoe
Ocypoidae
Ocyrhoe
Od
Odab
Odacidae
Odanah
Odawa
Odax
Odd fellow
Odd fellowship
Oddfellow
Oddibe Mcdowell
Odds
Oddsbud
Ode
Ode on Indolence
Ode on Melancholy
Ode on a Grecian Urn
Ode to Autumn
Ode to Duty
Ode to Psyche
Ode to a Nightingale
Ode to the West Wind
Odebolt
Odeen
Odel
Odele
Odelet
Odelia
Odelinda
Odell
Odella
Odelle
Odelsting
Odelsting
Odem
Oden
Odense
Odenton
Odenville
Oder
Oder-Neisse Line
Odericus
Odessa
Odets
Odetta
Odette
Odey
Odie
Odilia
Odille
Odilo
Odilon
Odin
Odine
Odinian
Odinic
Odinism
Odinist
Odinitic
Odlo
Odo
Odoacer
Odobenidae
Odobenus
Odocoileus
Odom
Odon
Odonata
Odonell
Odontaspidae
Odontaspididae
Odontaspis
Odontocete
Odontoceti
Odontoglossae
Odontoglossum
Odontognathae
Odontolcae
Odontophoridae
Odontopherinae
Odontopherus
Odontopteris
Odontopteryx
Odontormae
Odontornithes
Odontosyllis
Odontotormae
Odoric
Odostemon
Odovacar
Odra
Odrick
Ods
Odsbodkins
Odum
Odus
Ody
Odynerus
Odyssean
Odysseus
Odysseus Elytis
Odyssey
Odz
Odzookers
Odzooks
Oe
Oeagrus
Oeax
Oealus
Oecanthus
Oech
Oedemeridae
Oedicnemus
Oedipal
Oedipean
Oedipus
Oedipus at Colonus
Oedipus complex
Oedogoniaceae
Oedogoniales
Oedogonium
Oeflein
Oehlenschlger
Oehsen
Oeil de Perdrix
Oelrichs
Oelwein
Oenanthe
Oeneus
Oeno
Oenocarpus
Oenomaus
Oenone
Oenopides
Oenopion
Oenothera
Oenotheraceae
Oenotrian
Oeonus
Oerlikon
Oesel
Oesophagostomum
Oestrelata
Oestridae
Of Time and the River
Of table
Ofallon
Ofelia
Ofella
Offa
Offaly
Offen
Offenbach
Offerle
Offerman
Offertory
Office of Civil Defense
Office of Consumer Affairs
Office of Economic Opportunity
Office of Emergency Planning
Office of Management and Budget
Office of Naval Research
Office of Science and Technology
Office of the Dead
Official
Official Receiver
Official Referee
Official Solicitor
Offutt
Ofilia
Ofo
Ofori
Og
Ogaden
Ogallah
Ogallala
Ogasawara Gunto
Ogasawara Jima
Ogata
Ogawa
Ogbomosho
Ogboni
Ogburn
Ogcocephalidae
Ogcocephalus
Ogdan
Ogden
Ogdensburg
Ogdon
Ogeechee lime
Ogema
Ogg
Ogham Irish
Oghuz
Ogilvie
Ogilvy
Oglala
Oglesby
Oglethorpe
Ogma
Ogmios
Ogoouor Ogowe
Ogor
Ogpu
Ogren
Ogun
Ogunquit
Ogygia
Ogygian
Ogygus
Ohara
Ohare
Ohatchee
Ohaus
Ohio
Ohio buckeye
Ohioan
Ohiopyle
Ohioowa
Ohl
Ohley
Ohlman
Ohm
Ohm's law
Oidium
Oil Rivers
Oilean Ajax
Oileus
Oilla
Oilmont
Oilton
Oiltrough
Oilville
Old Nick
Old Norse
Old North French
Old Northwest
Old Orchard Beach
Old Paar
Old Persian
Old Poker
Old Pretender
Old Prussian
Old Ritualist
Old Russian
Old Saxon
Old Scratch
Old Slavic
Old Slavonic
Old South
Old Spanish
Old Stoa
Old Stone Age
Old Style
Old Test
Old Testament
Old Time
Old Town
Old Vic
Old Wives' summer
Old Worcester ware
Old World
Old World monkey
Old bactrian
Old guard
Old guardism
Old-Testament
Old-school
Old-school baptist
Oldcastle
Olden Polynice
Oldenburg
Older
Oldfieldia
Oldham
Oldham coupling
Oldhamia
Olds
Oldsmobile
Olduvai Gorge
Ole
Olca
Oleaceae
Oleacina
Oleacinidae
Olean
Olearia
Oleg
Olema
Olen
Olenellus
Olenidae
Olenka
Olenolin
Olena
Olenus
Oler
Oleraceae
Oleron
Oleta
Oletha
Olethea
Olethreutes
Olethreutidae
Oletta
Olette
Oley
Olfe
Olga
Olia
Oliana
Oligocene
Oligochaeta
Oligomyodae
Oligonephria
Olimbos
Olimpia
Olin
Olinde
Olinia
Olimiaceae
Oliphant
Oliva
Olivann
Olive
Olive oil castile soap
Olivean
Oliveburg
Olivehurst
Opdyke
Opegrapha
Opel
Opelika
Opelousas
Opelt
Open Boat, The
Open Brethren
Open University
Openglopish
Operculata
Oph
Opheim
Opheila
Opheleie
Opheletes
Ophia
Ophian
Ophicephalidae
Ophicephalus
Ophichthyidae
Ophidia
Ophidiidae
Ophidiobatrachia
Ophidion
Ophiobatrachia
Ophiobolus
Ophioglossaceae
Ophioglossales
Ophioglossum
Ophiomorpha
Ophion
Ophioninae
Ophiosaurus
Ophir
Ophis
Ophisaurus
Ophism
Ophite
Ophitic
Ophitism
Ophiuchid
Ophiuchus
Ophiucus
Ophiurida
Ophiuroidea
Ophrys
Ophthalmosaurus
Oralie
Oralla
Oralle
Oram
Oran
Orang
Orang benua
Orang laut
Orang malayu
Orang
Orange
Orange Cove
Orange Free State
Orange Mountains
Orange Park
Orangeburg
Orangefield
Orangeism
Orangeist
Orangeman
Orangeman's Day
Orangemen
Orangemen's Day
Orangevale
Orangeville
Oraon
Oratorian
Oratorianism
Oratorianize
Oratory
Oraville
Orazio
Orbadiah
Orban
Orbicella
Orbiculoidea
Orbilian
Orbilius
Orbisonia
Orbitelariae
Orbitoides
Orbitolina
Orbitolites
Orbulina
Orca
Orcadian
Orcas
Orchard Park
Orchestra
Orchestiidae
Orchidaceae
Orchidales
Orchis
Orcinus
Orcus
Orczy
Ord
Ordeal of Richard Feverel, The
Order ofMerit
Order of the Garter
Order of the Purple Heart
Orderville
Ordinary level
Ordnance Survey
Ordovian
Ordovices
Ordovician
Ordway
Ordzhonikidze
Ore
Ore Mountains
Oreamnos
Oreana
Oreas
Orebro
Orefield
Oreg
Oregon
Oregon Jargon
Oregon Trail
Oregon boat
Oregon cedar
Oregon fir
Oregon grape
Oregon myrtle
Oregon pine
Oregon trail
Oregonia
Oregonian
Orel
Orel Hershiser
Oreland
Orelee
Orelia
Orelie
Orella
Orelle
Orick
Oriel
Orient
Oriental
Oriental alabaster
Oriental calm
Oriental carpet
Oriental fruit moth
Oriental rug
Orientalia
Orientalis
Orientalisation
Orientalise
Orientalised
Orientalising
Orientalism
Orientalist
Orientalize
Orientalogy
Oriente
Origanum
Origen
Origenian
Origenic
Origenical
Origenism
Origenist
Origenistic
Origenize
Origin of Species, The
Origine
Orin
Orinda
Oringa
Oringas
Orinoco
Oriole
Oriolidae
Oriolus
Orion
Orion's Belt
Orion's Hound
Orion's Sword
Orionis
Orions hound
Oriska
Oriskanian
Oriskany
Ormsby
Ormuz
Orna
Ornas
Orne
Orneus
Ornie
Ornithischia
Ornithocephalidae
Ornithocephalus
Ornithodelphia
Ornithodoros
Ornithogaea
Ornithogaean
Ornithogalum
Ornitholestes
Ornithomimidae
Ornithomimus
Ornithopappi
Ornithopoda
Ornithoptera
Ornithopteris
Ornithorhynchidae
Ornithorhynchus
Ornithosauria
Ornithoscelida
Ornithurae
Ornstead
Ornytus
Oro y Plata
Orobanchaceae
Orobanche
Orobatoidea
Orochon
Orocovis
Orophippus
Orola
Oromo
Orondo
Orono
Oronoco
Oronogo
Orontes
Orontium
Orontius
Orose
Orosi
Orosius
Orotinan
Orovada
Orovile
Oroya fever
Orozco
Orpah
Orpha
Orphean
Orpheist
Orpheus
Orphic
Orphical
Orphically
Orphicism
Orphism
Orphist
Orphize
Orpington
Orr
Orran
Orrefors glass
Orren
Orrick
Orrin
Orrington
Orrstown
Ortanna
Orrum
Orrville
Orsa
Orsay
Orsini
Orsino
Orsk
Orsola
Orson
Ortalidae
Ortalis
Ortega
Ortega y Gasset
Ortegal
Orten
Ortensia
Orth
Orthaea
Orthagoriscus
Ortheris
Orthia
Oscinis
Osco
Osco-Umbrian
Osco-umbrian
Oscoda
Ose Napoleon Duarte
Osee
Osei
Oseretsky test
Osetian
Osetic
Osgood
Oshawa
Osher
Oshinski
Oshkosh
Oshogbo
Oshoto
Oshhtemo
Osi
Osiandrian
Osijek
Osirian
Osiride
Osiridean
Osirification
Osirify
Osiris
Osirism
Osithe
Oskaloosa
Oskar
Oslar
Osto
Osman
Osman I
Osmanie
Osmanli
Osmanlis
Osmanthus
Osmen
Osmeridae
Osmerus
Osmo
Osmond
Osmorhiza
Osmund
Osmunda
Osterburg
Osterhus
Osterreich
Ostertagia
Osterville
Ostia
Ostia
Ostic
Ostler
Ostmannic
Ostmen
Ostpreussen
Ostracea
Ostraciidae
Ostracion
Ostracoda
Ostracodermi
Ostracoidea
Ostracophori
Ostraeacea
Ostrander
Ostrava
Ostraw
Ostrean
Ostreidae
Ostrogoth
Ostrogothian
Ostrogothic
Ostrya
Ostwald
Ostya
Ostya
Ostya samoyed
Ostya-samoyedic
Osugi
Osvaldo
Osvaldo Dorticos
Oswal
Oswald
Oswaldo
Oswaldo Aranha
Oswegan
Oswegatchie
Oswego
Oswego tea
Oswell
Oswiecim
Oswin
Osy
Osyka
Osyth
Ot
Otaheitan
Otaheite
Otaheite apple
Otaria
Otariidae
Otariinae
Otaru
Oceti cakowin
Otego
Otelia
Otello
Otero
Otes
Otha
Othake
Othe
Othelia
Othella
Othello
Othello's flaw
Other
Othilia
Othilie
Othin
Othinism
Othman
Othman I
Othniel
Otho
Otho I
Othoniel
Othonna
Otidae
Orides
Otididae
Otidiphaps
Otila
Otilia
Otina
Otionia
Otiorhynchidae
Otiorhynchinae
Otis
Otisco
Otisville
Otley
Oto
Otocyon
Otoe
Otogyps
Otolithidae
Otolithus
Otomaco
Otomanguean
Otomacian
Otomelan
Otozoa
Otranto
Otsego
Ott
Ottavia
Ottawa
Ottaw Hills
Otte
Otter
Otterbein
Otterburn
Ottertail
Otterville
Otto
Ottie
Ottillia
Ottine
Ottiger
Otto
Otto I
Otto cycle
Otto engine
Ottoman
Ottoman Empire
Ottoman cord
Ottoman empire
Ottoman turkish
Ottomanean
Ottomanic
Ottomanism
Ottomanization
Ottomanize
Ottomanean
Ottomans
Ottomite
Ottonian
Ottosen
Ottoville
Ottsville
Ottumwa
Ottweilian
Otuquian
Otus
Orway
Orwell
Otyak
Ouachita
Ouachita stone
Ouachitas
Ouagadougou
Ouaquaga
Oubangi
Oubanguï
Oudemian
Oudenodon
Oudh
Oueddei Goukouni
Ouessant
Oueta
Ouida
Ouija
Ouija board
Oujda
Oulman
Oulu
Our Father
Our Father which art in Heaven
Our Lady
Our Lord
Our Town
Ouranos
Ouray
Ourouparia
Ouse
Ouspensky
Out-babylon
Out-herod
Out-machiavelli
Out-milton
Out-nero
Out-quixote
Out-timon
Out-tory
Owaneco
Owanka
Owasco
Owasso
Owatonna
Owego
Owen
Owen Bieber
Owen Stanley
Owen Stanley Range
Owena
Owendale
Owenia
Owenian
Owenism
Owenist
Owenite
Owenize
Owens
Owensboro
Owensburg
Owensville
Owenton
Owerri
Owicim
Owings
Owings-Mills
Owingsville
Owl nebula
Owlglass
Owlishead
Owlspiegle
Owosso
Owyhee
Ox
Ox-Bow Incident, The
Ox-god
Oxalidaceae
Oxalis
Oxbow
Oxbridge
Oxenstierna
Oxford
Oxford Down
Oxford English
Oxford Group
Oxford Movement
Oxford accent
Oxford bags
Oxford blue
Oxford chrome
Oxford clay
Oxford corner
Oxford corners
Oxford dash
Oxford down
Oxford frame
Oxford gray
Oxford grey
Oxford rule
Oxford shoe
Oxford shoes
Oxford theory
Oxford tie
Oxford ties
Oxfordian
Oxfordism
Oxfordist
Oxhords
Oxfordshire
Oxfordshire Down
Oxley
Oxly
Oxnard
Oxon
Oxonian
Oxonolatry
Oxus
Oxyaena
Oxyaenidae
Oxybaphus
Oxyccocus
Oxydendrum
Oxiderces
Oxylabracidae
Oxylabrax
Oxylus
Oxypidae
Oxypolis
Oxyrhynchus papyri
Oxymhyncha
Oxystomata
Oxytricha
Oxytropis
Oxyuridae
Oyama
Oyana
Oyashio Current
Oyens
Oyo
Oys
Oysterville
Oz
Oza
Ozalid
Ozan
Ozark
Ozark Mountains
Ozark series
Ozark state
Ozarks
Ozawkie
Ozen
Ozenfant
Ozias
Ozkum
Ozmo
Ozona
Ozonium
Ozzie
Ozzy
P
P & L
P & O
P station
P trap
P wave
P'eng-hu
P's
P-Celtic
P-language
P-plane
P-shaped
P-state
P-tongue
P/C
P2
P3
P4
PA
PA system
PABA
PABX
PAC
PACE
PACT
PACX
PAD
PAK
PAL
PAM
PAMD
PAN
PANS
PAO
PAP
PAR
PAR radar
PARC
PAS
PAT
PAU
PAX
PAYE
PB
PBC
PBD
PBM
PBS
PBT
PBX
PBX operator
PC
PCA
PCAT
PCB
PCC
PCDA
PCDOS
PCF
PCH
PCI
PCIE
PCL
PCM
PCN
PCNFS
PCO
PCPC
PCS
PCSA
PCTE
PCTS
PCTV
PCV valve
PD
PDAD
PDE
PDES
PDF
PDI
PDL
PDN
PDP
PDQ
PDS
PDSA
PDSP
PDT
PDU
PE
PECC
PEDir
PEI
PEM
PEN
PEP
PEPE
PERFECT
PERL
PERT
PETA
PETN
PEX
PEXSI
PF
PFB
PFPU
PG
PGA
PH
PHA
PHC
PHIGS
PHOTOCD
PHS
PHYSREV
PI
PIA
PIC
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICAO</td>
<td></td>
</tr>
<tr>
<td>PICS</td>
<td></td>
</tr>
<tr>
<td>PID</td>
<td></td>
</tr>
<tr>
<td>PIF</td>
<td></td>
</tr>
<tr>
<td>PIMS</td>
<td></td>
</tr>
<tr>
<td>PIN</td>
<td></td>
</tr>
<tr>
<td>PINE</td>
<td></td>
</tr>
<tr>
<td>PING</td>
<td></td>
</tr>
<tr>
<td>PIO</td>
<td></td>
</tr>
<tr>
<td>PIP</td>
<td></td>
</tr>
<tr>
<td>PIT</td>
<td></td>
</tr>
<tr>
<td>PITI</td>
<td></td>
</tr>
<tr>
<td>PIXEL</td>
<td></td>
</tr>
<tr>
<td>PJ's</td>
<td></td>
</tr>
<tr>
<td>PK</td>
<td></td>
</tr>
<tr>
<td>PKU</td>
<td></td>
</tr>
<tr>
<td>PKU test</td>
<td></td>
</tr>
<tr>
<td>PL</td>
<td></td>
</tr>
<tr>
<td>PL/1</td>
<td></td>
</tr>
<tr>
<td>PL/I</td>
<td></td>
</tr>
<tr>
<td>PLA</td>
<td></td>
</tr>
<tr>
<td>PLAN</td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td></td>
</tr>
<tr>
<td>PLCC</td>
<td></td>
</tr>
<tr>
<td>PLD</td>
<td></td>
</tr>
<tr>
<td>PLL</td>
<td></td>
</tr>
<tr>
<td>PLM</td>
<td></td>
</tr>
<tr>
<td>PLO</td>
<td></td>
</tr>
<tr>
<td>PLP</td>
<td></td>
</tr>
<tr>
<td>PLR</td>
<td></td>
</tr>
<tr>
<td>PLS</td>
<td></td>
</tr>
<tr>
<td>PLSS</td>
<td></td>
</tr>
<tr>
<td>PLT</td>
<td></td>
</tr>
<tr>
<td>PM</td>
<td></td>
</tr>
<tr>
<td>PMA</td>
<td></td>
</tr>
<tr>
<td>PMAC</td>
<td></td>
</tr>
<tr>
<td>PMC</td>
<td></td>
</tr>
<tr>
<td>PMDF</td>
<td></td>
</tr>
<tr>
<td>PMEG</td>
<td></td>
</tr>
<tr>
<td>PMG</td>
<td></td>
</tr>
<tr>
<td>PMIRR</td>
<td></td>
</tr>
<tr>
<td>PMO</td>
<td></td>
</tr>
<tr>
<td>PMOS</td>
<td></td>
</tr>
<tr>
<td>PMRC</td>
<td></td>
</tr>
<tr>
<td>PMT</td>
<td></td>
</tr>
<tr>
<td>PMU</td>
<td></td>
</tr>
<tr>
<td>PMX</td>
<td></td>
</tr>
<tr>
<td>PN</td>
<td></td>
</tr>
</tbody>
</table>
PR
PR man
PRA
PRB
PRC
PRCA
PRE
PREMIS
PREPNET
PRG
PRI
PRISM
PRMD
PRO
PROFS
PROLOG
PROM
PROMATS
PROPAL
PROTEL
PRS
PRTC
PS
PSA
PSAP
PSAT
PSC
PSDC
PSDN
PSDS
PSE
PSF
PSG
PSI
PSIU
PSK
PSL
PSM
PSN
PSO
PSP
PSR
PSS
PST
PSTN
PSU
PSV
PSW
PSWM
PT
PT boat
PT-boat
PTA
PTAT
PTD
PTE
PTFE
PTI
PTN
PTO
PTP
PTSD
PTT
PTV
PTW
PU
PUC
PUD
PUP
PV
PVA
PVC
PVN
PVO
PVP
PVT
PW
PWA
PWB
PWD
PWG
PX
PY
Pa
PaD
PaG
Paapanen
Paasikivi
Paauhau
Paauilo
Paavo Hynninen
Paba
Pablo
Pablo Casals
Pablum
Pabst
Packwaukee
Packwood
Paco
Pacoima
Pacolet
Pacorro
Pactolian
Pactolus
Padang
Padda
Paddie
Paddies
Paddington
Paddy
Paddyism
Paddywack
Paddywhack
Padegs
Paden
Paderborn
Paderewski
Padera
Padget
Padgett
Padina
Padishah
Padma Shri
Padova
Padraic
Padraig
Padriac
Padroni
Padua
Paduan
Paduanism
Paducah
Padus
Paelignian
Paeon
Paeonia
Paioniaceae
Paconian
Paesiello
Paestum
Paff
Paganalia
Paganalian
Paganini
Palaeogaea
Palaeogaean
Palaeogene
Palaeognathae
Palaeolithic
Palaeolithic man
Palaeologus
Palaeomastodon
Palaeonemertea
Palaeonemertinea
Palaeonemertini
Palaeoniscidae
Palaeoniscum
Palaeoniscus
Palaeophis
Palaeornis
Palaeornithinae
Palaeosaurus
Palaeospondylus
Palaeostraca
Palaeothentes
Palaeothentidae
Palaeotheriidae
Palaeotherium
Palaeotropical
Palaeozoic
Palaiic
Palaihnihan
Palamedea
Palamedeidae
Palamedes
Palamite
Palamitism
Palapteryx
Palaquium
Palatinate
Palatine
Palatine Anthology, The
Palatine Court
Palatinian
Palatka
Palatua
Palau
Palau Islands
Palaung
Palawan
Palco
Pale Death
Pale Horse
Pale-asiatic
Palearctic
Palecek
Paleman
Palembang
Palencia
Palenque
Palenville
Paleo-Asiatic
Paleo-Siberian
Paleo-american
Paleo-amerind
Paleo-asiatic
Paleo-christian
Paleo-eskimo
Paleo-siberian
Paleoanthropus
Paleocene
Paleoconcha
Paleogene
Paleolithic
Paleosiberian
Paleotropical
Paleozoic
Palermitan
Palermo
Pales
Palesman
Palestine
Palestinian
Palestinian Arab
Palestrina
Palette of Narmer
Paley
Palgrave
Pali
Pali Canon
Palici
Palicourea
Palila
Palilia
Palilicum
Palinuridae
Palinurus
Palisca
Palisades
Palissy
Palissy ware
Palitzsch
Paliurus
Palk Strait
Pall
Pall Mall
Palla
Palladia
Palladian
Palladian window
Palladianism
Palladin
Palladio
Palladium
Pallas
Pallas Athena
Pallas's cat
Pallaten
Pallaton
Palliata
Pallini
Palliobranchiata
Palliyan
Pallmall
Pallu
Pallua
Palluises
Palm
Palm Beach
Palm Springs
Palm Sunday
Palm beach
Palm sunday
Palma
Palma christi
Palma de Mallorca
Palmaceae
Palmae
Palmas
Palmcoast
Palmdale
Palmdesert
Palmella
Palmellaceae
Palmer
Palmer Archipelago
Palmer Land
Palmer Peninsula
Pamir
Pamiri
Pamirian
Pamirs
Pamlico
Pamlico Sound
Pammi
Pammie
Pammy
Pampa
Pampanga
Pampangan
Pampango
Pampeluna
Pamphilidae
Pamphilus
Pamphylia
Pampilco
Pamplin
Pamplona
Pampuch
Pamunkey
Pan
Pan American Day
Pan American Union
Pan's pipes
Pan-African
Pan-Africanism
Pan-Africanist
Pan-American
Pan-Americanism
Pan-Arab
Pan-Arabic
Pan-Arabism
Pan-German
Pan-Germanism
Pan-Slav
Pan-Slavic
Pan-Slavism
Pan-Teutonism
Pan-african
Pan-afrikander
Pan-afrikanderdom
Pan-america
Pan-american
Pan-americanism
Pan-anglican
Pan-arab
Pan-arabia
Pan-arabism
Pan-asianism
Pan-asiatic
Pan-asiacism
Pan-babylonian
Pan-babylonism
Pan-britannic
Pan-british
Pan-buddhism
Pan-buddhist
Pan-celtic
Pan-celticism
Pan-china
Pan-christian
Pan-croat
Pan-europe
Pan-european
Pan-german
Pan-germanic
Pan-germanism
Pan-germanist
Pan-germany
Pan-goetic
Pan-hispanic
Pan-hispanism
Pan-islam
Pan-islamic
Pan-islamism
Pan-islamist
Pan-israelith
Pan-latinist
Pan-mongolian
Pan-mongolism
Pan-moslemism
Pan-orthodox
Pan-orthodoxy
Pan-pacific
Pan-presbyterian
Pan-protestant
Pan-prussianism
Pan-russian
Pan-satanism
Pan-scandinavian
Pan-sclavic
Pan-sclavism
Pan-sclavist
Pan-sclavonian
Pan-serb
Pan-slav
Pan-slavic
Pan-slavid
Pan-slavist
Pan-slavistic
Pan-slavonian
Pan-slavonic
Pan-slavonism
Pan-syrian
Pan-teutonism
Pan-turanian
Pan-turanianism
Pan-turanism
Pana
Panaca
Panacea
Panaggio
Panagia
Panagias
Panak
Panaka
Panama
Panama Canal
Panama Canal Company
Panama Canal Zone
Panama City
Panama balata
Panama bark
Panama congress
Panama disease
Panama hat
Panama ipecac
Panama laurel
Panama redwood
Panama rubber
Panama shell
Panama wood
Panama-hat plant
Panamaian
Panaman
Panamanian
Panamano
Panamic
Panamint
Panamint Mountains
Panamist
Panathenaea
Panathenaean
Panathenaic
Panay
Panayan
Panayano
Panayiotis
Panboeotian
Pancake Day
Pancha Sila
Panchaia
Panchatantra
Panchayat
Panchen Lama
Panchen Rimpoché
Panchito
Pancho
Pancratis
Pandanaceae
Pandanales
Pandanus
Pandarctos
Pandareus
Pandarus
Pandavas
Pandeas
Pandeas pipe
Pandeas pipes
Pandectist
Pandemic
Pandemoniacal
Pandemonian
Pandemonium
Pandemos
Panderma
Pandich
Pandion
Pandion the Younger
Pandionidae
Pandit
Pandolfi
Pandora
Pandora's box
Pandorae Fretum
Pandorea
Pandoridae
Pandorina
Pandosto
Pandrosos
Panelyte
Pang
Pang-fou
Pangaea
Pangaro
Pangasinan
Pangburn
Pangium
Pangloss
Panglossian
Panglossic
Pango Pango
Panguitch
Pangwe
Panhandle state
Panhellenic
Panhellenios
Panhellenism
Panhellenist
Panhellenium
Pani
Panic
Panicularia
Panicum
Paninean
Panini
Panonia
Panonian
Panionic
Panipat
Paniquita
Paniquitan
Panjabi
Panjim
Pankhurst
Panmunjom
Panmunjon
Panna
Pannamaria
Pannetier green
Pannini
Pannon
Pannonia
Pannonian
Pannonic
Panoan
Panofsky
Panola
Panolia deer
Panomphaeus
Panopeus
Panoptes
Panora
Panorpa
Panorpatae
Panorpidae
Panpipe
Pansey
Pansie
Pansil
Pansir
Pansy
Panta
Pantagruel
Pantagruelian
Pantagruelic
Pantagruetrically
Pantagrueline
Pantagruelism
Pantagruelist
Pantagruelistic
Pantagruelistical
Pantagruelize
Pentalone
Pentaloon
Pantastomatida
Pantastomina
Pantego
Pantelleria
Panter
Panthea
Pantheas
Pantheian
Pantheon
Panther
Panthia
Panthous
Pantia
Pantin
Pantocain
Pantocrator
Pantodon
Pantodontidae
Pantopoda
Pantostomata
Pantotheria
Panurge
Panza
Panzerfaust
Paola
Paoli
Paolina
Paolo
Paolo Bertolucci
Paolo Bonifacio
Paonia
Paoshan
Paoting
Paotow
Pap test
Papadopoulos
Papagayo
Papagayo wind
Papagena
Papageno
Papago
Papaikou
Papal Court
Papal States
Papandreou
Papaver
Papaveraceae
Papaverales
Papayaceae
Pape
Papeete
Papen
Paperbound Books in Print
Papert
Paphian
Paphian Goddess
Paphiopedilum
Paphlagonia
Paphos
Paphus
Papiamento
Papias
Papilio
Papilionaceae
Papiliones
Papilionidae
Papilionides
Papilioninae
Papilionoidea
Papinachois
Papineau
Papinian
Papio
Papist
Papke
Papotto
Papp
Pappano
Pappas
Pappea
Papst
Papsukai
Papua
Papua New Guinea
Papua mace
Papua nutmeg
Papuan
Papuan race
Paque
Paquito
Par
Para
Para-thor-mone
Paracelsian
Paracelsianism
Paracelsic
Paracelsist
Paracelsistic
Paracelsus
Paraclete
Paracress
Paradies
Paradis
Paradise
Paradisea
Paradiseidae
Paradiseinae
Paradisia
Paradiso
Paradoxides
Paradoxurinae
Paradoxurus
Paraebius
Paragonah
Paragonimus
Paragould
Paraguay
Paraguay tea
Paraguayan
Parahippus
Paraiba
Paraiba do Norte
Paraiba do Sul
Paraiyan
Paralipomenon
Paralipomenona
Paramaribo
Paramatman
Paramecidae
Paramecium
Paramoecium
Paramount
Paramus
Paran
Parana
Paranagua
Paranthropus
Parapaguridae
Parapsida
Paraquat
Pararctalia
Pararctalian
Parashah
Parashioth
Parashoth
Parasita
Parasitica
Parasitidae
Parasuchia
Paratheria
Parazoa
Parbate
Parber
Parca
Parcae
Parcel
Parcel-greek
Parcel-latin
Parcheesi
Parcoal
Pardanthus
Pardeesville
Pardeeville
Pardew
Pardner
Pardo
Pardoes
Pardubice
Pare
Pareiasauri
Pareiasauria
Pareiasaurus
Pareioplitae
Parent
Parent-Teacher Association
Parentalia
Pareocean
Paresh
Pareto
Parette
Parfitt
Parhe
Parian
Parian ware
Pariasauria
Pariasaurus
Paricut
Paricutin
Paridae
Parietales
Parietaria
Parik
Parilia
Parilicium
Parinarium
Paris
Paris Commune
Paris blue
Paris daisy
Paris green
Paris hat
Paris red
Paris white
Paris yellow
Parish
Parishad
Parishville
Parisian
Parisianism
Parisianization
Parisianize
Parisianly
Parisii
Parmesan cheese
Parmese
Parmigianino
Parmigiano
Parnaiba
Parnahyba
Parnaiba
Parnas
Parmassia
Parnassiacae
Parnassian
Parnassianism
Parnassiinae
Parnassism
Parnassus
Parnell
Parnellism
Parnellite
Parnopius
Parochial Church Council
Paron
Paros
Parosela
Parotia
Parousia
Parowan
Parr
Parra
Parridae
Parrie
Parrington
Parris
Parrisch
Parrish
Parrnell
Parrott
Parrottsville
Parry
Parryville
Parsaye
Parsee
Parseeism
Parshall
Parshuram
Parsi
Parsic
Parsifal
Parsiism
Parsippany
Parsism
Parsons
Parsonsburg
Parsonsia
Parsva
Partage de Midi
Partan
Parthen
Parthena
Parthenia
Partheniae
Parthenium
Parthenius
Parthenocissus
Parthenolatry
Parthenon
Parthenopaeus
Parthenope
Parthenopean
Parthenos
Parthia
Parthian
Parthian shot
Parthinia
Particia
Particulars of Claim
Partlet
Partlow
Partridge
Parts of Holland
Parts of Kesteven
Parts of Lindsey
Parukutu
Parus
Parvati
Paryavi
Parzival
Pas
Pas-de-Calais
Pasadena
Pasadis
Pasahow
Pasargadae
Pasay
Pascagoula
Pascal
Pascal's law
Pascal's theorem
Pascal's triangle
Pascale
Pascasia
Pasch
Pasch day
Pascha
Paschal I
Paschal II
Paschaltide
Paschasia
Paschen series
Paschen-Back effect
Pascia
Pascin
Pasco
Pascoag
Pascoe
Pascola
Pascua Florida Day
Pascual
Pashe
Pashto
Pasia
Pasigraphy
Pasionaria
Pasiphae
Pasitelean
Pasithea
Paske
Paskenta
Paski
Paso
Pasol
Pasolini
Paspalum
Pasquale
Pasqualina
Pasquil lock
Pasquin
Pasquinian
Pasquino
Pass
Passadumkeag
Passagian
Passaic
Passalidae
Passalus
Passamaquoddy
Passamaquoddy Bay
Passe
Passer
Passeres
Passeres anisomyodi
Passeres diacromyodi
Passeriformes
Passerina
Passero Cape
Passiflora
Passifloraceae
Passiflorales
Passion
Passion Sunday
Passion Sundaying
Passion Week
Passion music
Passion play
Passion sunday
Passion week
Passionist
Passiontide
Passo Fundo
Passover
Passover bread
Passover wine
Passumpsic
Passy
Past
Pastelki
Pasternak
Pasteur
Pasteur effect
Pasteur treatment
Pasteurella
Pasteurelleae
Pasteurian
Pastinaca
Pasto
Pastoral Epistle
Pastoral Symphony, The
Pasture
Pat
Pat Caddell
Pat Elynuik
Pat Ewing
Pat Lafontaine
Pat Off
Pat Swindall
Pat Verbeek
Patagon
Patagones
Patagonia
Patagonian
Pataria
Patarin
Patarine
Patarinism
Pataskala
Patavian
Patchogue
Pate
Patellidae
Paten
Patent Office
Patent Rolls
Pater
Pater Noster
Pater Patriae
Pater noster
Paternoster
Pateros
Paterson
Paterson's curse
Pathan
Pathe
Pathfinder, The
Pathrusim
Pathsounder
Patiala
Patience
Patillas
Patin
Patman
Patmian
Patmo
Patmore
Patmos
Patna
Patna rice
Patnode
Patoka
Paton
Patrai
Patras
Paul Baudoin
Paul Boutilier
Paul Bunyan
Paul Cyr
Paul III
Paul Jaruzelski
Paul Jones
Paul Jureidini
Paul Molitor
Paul Pry
Paul Raymond Juhala
Paul Revere
Paul Tagliabue
Paul VI
Paul Weyrich
Paul Yost
Paul the Apostle
Paul-Pry
Paula
Paulden
Paulding
Paule
Pauletta
Paulette
Pauli
Pauli exclusion principle
Pauliad
Paulian
Paulianist
Pauliccian
Paulicianism
Paulie
Paulina
Pauline
Pauline Epistles
Pauline privilege
Pauling
Paulinia
Paulinian
Paulinism
Paulinist
Paulinistic
Paulinistically
Paulinity
Paulinize
Paulinus
Paulism
Paulist
Pavyer
Paw Paw
Paw Paw Lake
Pawcatuck
Pawhuska
Pawlet
Pawling
Pawnee
Pawneerock
Pawpaw
Pawsner
Pawtucket
Pax
Pax Britannica
Pax Dei
Pax Romana
Paxico
Paxillosa
Paxinos
Paxon
Paxton
Paxtonville
Paya
Payagua
Payaguan
Payette
Paymar
Paymaster-General
Payne
Payne's gray
Paynesville
Payneville
Payni
Paynize
Paynter
Pays de la Loire
Paysand
Paysandu
Payson
Payton
Paz
Paz Estenssoro
Paza
Pazend
Pazia
Pazice
Pazit
Pb
Pebrook
Pebworth
Pecatonica
Pechenga
Pechora
Peck
Peckham
Peckinpah
Pecksniff
Pecksniffery
Pecksniffian
Pecksniffianism
Pecksniffism
Peckville
Peconic
Pecopteris
Pecora
Pecorino
Pecos
Pecos Bill
Pecs
Pectinacea
Pectinibranchia
Pectinibranchiata
Pectinidae
Pectunculus
PedD
Pedaiiah
Pedaias
Pedaliaceae
Pedalien
Pedalium
Pedasus
Pedata
Peddada
Peder
Pedersen
Pederson
Pedetes
Pedetidae
Pedetinae
Pedi
Pediastrum
Pedicellina
Pedicularia
Pedicularis
Pediculati
Pediculi
Pediculidae
Pediculina
Pediculus
Pediculina
Pedicomus
Pedipalpi
Pedipalpida
Pedrell
Pedrick
Pedricktown
Pedro
Pedro Albizu Campos
Pedro Arrupe
Pedro Domecq
Pedro Gnavi
Pedro Guerrero
Pedro Manuel de Aristegui
Pedrotti
Pedroza
Pedunculata
Pee Dee
Peebles
Peebleshire
Peepee
Peekskill
Peel
Peele
Peelism
Peelite
Peell
Peene
Peeping Tom
Peer
Peer Gynt
Peerce
Peerless
Peers
Peery
Peetz
Peever
Peg
Pega
Peganum
Pegasean
Pegasian
Pegasid
Pegasidae
Pelagias
Pelagius
Pelagon
Pelagothuria
Pelahatchie
Pelardon de Rions
Pelargi
Pelargikon
Pelargomorphae
Pelasgi
Pelasgian
Pelasgc
Pelasgon
Pelasgikon
Pelasgoi
Pelasgus
Pele
Pele's hair
Pelecani
Pelecanidae
Pelecaniformes
Pelecanoides
Pelecanoidinae
Pelecanus
Pelecyopoda
Pelecypoda
Pele
Pelegon
Peleus
Pelew
Pelew Islands
Pelham
Pelham Manor
Pelias
Pelican State
Pelides
Pelidnota
Pelion
Pelkie
Pell
Pella
Pellaea
Pellan
Pelle Ecklund
Pelleas
Pelleas and Melisande
Pellegrini
Pelles
Pellet
Penhook
Penicillium
Peninsula
Peninsula War
Peninsular State
Peninsular War
Penitas
Penitente
Penitentes
Penki
Penland
Penman
Penn
Penn Hills
Penn Yan
Penna
Pennacook
Pennales
Pennaria
Pennariidae
Pennatae
Pennatula
Pennatulacea
Pennatulidae
Pennebaker
Pennell
Pennellville
Penney
Penni
Pennie
Pennine Alps
Pennine Chain
Pennine Way
Pennines
Pennington
Pennisetum
Pennlaird
Pennock
Penns Grove
Pennsauken
Pennsboro
Pennsburg
Pennsville
Pennsylvania
Pennsylvania Dutch
Pennsylvania German
Pennsylvania rifle
Pennsylvanian
Pennville
Penny
Penny Black
Pennyan
Penobscot
Penobscot Bay
Penobscots
Penokee
Penoyer
Penrith
Penrod
Penrose
Penryn
Pensacola
Pensacola Bay
Pensacola pilot boat
Pensees
Penseroso Il
Pent
Pentacriniidae
Pentacrinus
Pentadactyla
Pentagon
Pentagonese
Pentagynia
Pentamera
Pentameridae
Pentamerus
Pentandria
Pentaphylacaceae
Pentaphylax
Pentastomoida
Pentastomum
Pentateuch
Pentateuchal
Pentatomidae
Pentatomoidea
Pentecost
Pentecostal
Pentecostaria
Pentelic
Pentelican
Pentelicus
Pentelikon
Pentha
Penthea
Pentheam
Pentheas
Penthesilea
Penthesileia
Penthestes
Pentheus
Penthoraceae
Penthorum
Pentland
Pentland Firth
Pentothal
Pentothal interview
Pentothal sodium
Pentremites
Pentremitidae
Pentress
Pentstemon
Pentwater
Pentzia
Penuelas
Penutian
Penwell
Penza
Penzance
Peonir
Peony
People's Assembly
People's Charter
People's Commissar
People's Consultative Congress
People's Council
People's Party
People's Republic of China
Peoples
Peoria
Peoria Heights
Peorian
Peosta
Peotone
Pepe
Pepeekeo
Peper
Peperomia
Pephredo
Pepi
Pepillo
Pepin
Pepin the Short
Pepita
Pepito
Perdicinae
Perdido
Perdita
Perdix
Perdu
Perean
Peregrine
Pereira
Perelman
Perennibranchiata
Pereskia
Peretz
Perez
Perfectus
Perfeti
Perforata
Pergamene
Pergamenian
Pergamic
Pergamon
Pergamos
Pergamum
Pergamus
Pergolesi
Pergrim
Perham
Peri
Peria
Perialla
Periander
Periapis
Periarctic
Periboea
Perice
Pericle Felici
Periclean
Pericles
Pericles Prince of Tyre
Pericleymenus
Pericu
Peridermium
Peridineae
Peridiniaceae
Peridiniales
Peridinidae
Peridinieae
Peridiniidae
Peridinium
Persian earth
Persian knot
Persian lamb
Persian lilac
Persian melon
Persian red
Persian rug
Persian sibyl
Persian walnut
Persianist
Persianization
Persianize
Persians, The
Persic
Persicaria
Persichetti
Persicize
Persille de Savoie
Persis
Persism
Persius
Person
Personae
Persons
Perspectivism
Perspex
Perspex 'chin' housing
Perssé
Persson
Perth
Perthshire
Pertusaria
Pertusariaceae
Peru
Peru Current
Peru balsam
Perugia
Perugian
Peruginesque
Perugino
Perugino II
Perularia
Perun
Perusse
Perutz
Peruvian
Peruvian balsam
Peruvian bark
Peruvian mastic tree
Peruvian rhatany
Peruvian wine
Peruvianize
Peruzzi
Pervouralsk
Perzan
Pesach
Pesah
Pesaro
Pescadero
Pescadores
Pescara
Pesek
Peshastin
Peshawar
Peshito
Peshitta
Peshitigo
Peskoff
Pesotum
Pessa
Pest
Pestalozzi
Pestalozzian
Pestalozzianism
Pestana
Peste
Pet
PetE
Peta
Petaca
Petain
Petal
Petalia
Petaliidae
Petalodontidae
Petalodus
Petalostemon
Petaluma
Petar
Petasites
Petaurista
Petauristidae
Petauroides
Petaurus
Pete
Pete Domenici
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 11514
Petrinize
Petrobium
Petrobrusian
Petrogale
Petrograd
Petrolia
Petrolina
Petromilli
Petromyzon
Petromyzonidae
Petromyzontes
Petromyzontidae
Petronella
Petronia
Petronilla
Petronille
Petronius
Petropavlovsk
Petros
Petroselinum
Petrosian
Petrovitch
Petrovsk
Petrozavodsk
Petropolis
Petru Groza
Petsamo
Petta
Pettibone
Pettifer
Pettiford
Pettigrew
Pettisville
Pettit
Pettus
Petty
Petua
Petula
Petulah
Petulia
Petunia
Petur Gudmundsson
Petuu
Peucedanum
Peucetii
Peugeot
Peugia
Peul
Peumus
Peursem
Peutingarian
Pevely
Pevsner
Pevzner
Pewamo
Pewaukee
Peyerian
Peyter
Peyton
Peytoma
Peytonsburg
Peziza
Pezizaceae
Pezizales
Pezophaps
Pfaff
Pfaffian
Pfafftown
Pfalz
Pfannkuchen
Pfeffer
Pfeffernsse
Pfeifer
Pfeifferella
Pfister
Pfizter
Pfizer
Pflugerville
Pforzheim
Pfosi
Pfund series
Pg
Ph
PhD
PhL
PhM
Phaca
Phacid phad
Phacelia
Phacidiaceae
Phacidiales
Phacochoerus
Phacopidae
Phacops
Phaea
Phaeacia
Phaeacian
Phaeax
Phaedo
Phaedon Gizikis
Phaedra
Phaedrus
Phaenna
Phaenogamia
Phaeodaria
Phaeophyceae
Phaeophyta
Phaeosporales
Phaeosporeae
Phaestus
Phaet
Phaethon
Phaethonic
Phaethontes
Phaethontic
Phaethontidae
Phaethusa
Phagedaena
Phaginaceae
Phaidra
Phaih
Phail
Phainopepla
Phaistos
Phajus
Phalacrocoracidae
Phalacrocorax
Phalaeeean
Phalaecian
Phalaenae
Phalaenidae
Phalaenopsis
Phalan
Phalange
Phalangeridae
Phalangerinae
Phalangida
Phalangidea
Phalangides
Phalangigrada
Phalangiidae
Phalangista
Phalangistidae
Phalangium
Phalaris
Phalarism
Phalaropodidae
Phaleucian
Phallaceae
Phallales
Phanar
Phanariot
Phanariote
Phanerocarpae
Phanerocarpous
Phanerocephala
Phanerogamia
Phaneroglossa
Phanerozoic
Phanerozonia
Phantasiast
Phantasiastic
Phantasmatic
Phantasmist
Phantasus
Phantomist
Phar
PharB
PharD
Pharaoh
Pharaoh ant
Pharaoh's ant
Pharaonic
Pharaonical
Pharbitis
Phare
Phareodus
Phares
Pharian
Pharisaean
Pharisaic
Pharisaically
Pharisaicalness
Pharisaism
Pharisaist
Pharisean
Pharisee
Phariseeism
Pharm
PharmD
PharmM
Pharoah
Pharomacrus
Pharos
Pharr
Pharsalia
Pharsalian
Pharsalus
Pharyngobranchii
Pharyngognathi
Pharyngopneusta
Phascaceae
Phas cogale
Phascolarctinae
Phascolarctos
Phas colomyidae
Phas colomys
Phas colonus
Phas cum
Phaseolaceae
Phaseolus
Phases
Phasianella
Phasianellidae
Phasianidae
Phasianinae
Phasianus
Phasiron
Phasmatida
Phasmatidae
Phasmatodea
Phasmatoidea
Phasmida
Phasmidae
Phathon
Phaye
Pheb
Pheba
Phebe
Phe cda
Phedra
Phedre
Phegeus
Phegopteris
Pheidippides
Pheidole
Phelan
Phelgen
Phelgon
Phelia
Phelps
Phellodendron
Phelps
Phemerol
Phemia
Phemie
Phemius
Phenacodontidae
Phenacodus
Phenalgin
Phene
Pheni
Phenica
Phenie
Phenicia
Phenix
Pheny
Pherae
Phereclus
Pherecratean
Pherecratian
Pherecratic
Pherephatta
Pherkad
Pherophatta
Pherephatta
Pherephoneia
Phi
Phi Beta Kappa
Phi phenomenon
Phia
Phidiac
Phidian
Phidias
Phidippides
Phigalian
Phil
Phil Esposito
Phil-african
Phil-arabian
Phil-arabic
Phila
Phadelphia
Phadelphia lawyer
Phadelphia pepper pot
Phadelphian
Phadelphianism
Phadelphus
Philae
Philan
Philana
Philander
Philanthidae
Philanthropinum
Philanthus
Philathea
Philbert
Philbin
Philbo
Philbrook
Philby
Philocx
Philem
Philemol
Philemon
Philender
Philepitta
Philepittidae
Philesia
Philetaerus
Philharmonic
Philharmonic concert
Philia
Philibert
Philina
Philine
Philip
Philip Agee
Philip Bonsal
Philip Buchen
Philip Habib
Philip II
Philip IV
Philip V
Philip VI
Philip the Good
Philipa
Philippines
Philipp
Philippa
Philippan
Philippe
Philippe de Seynes
Philippeville
Philippi
Philippian
Philippians
Philippic
Philippics
Philippine
Philippine Islands
Philippine Sea
Philippine mahogany
Philippines
Philippism
Philippist
Philippistic
Philippizate
Philippopolis
Philips
Philippus Aureolus
Philipsburg
Philipson
Philis
Philistia
Philistian
Philistine
Philistinely
Philistinean
Philistinic
Philistinish
Philistinean
Philistinize
Philius
Philippa
Philiana
Philida
Philie
Philip
Phillip Jenninger
Philipe
Phillipp
Phillippe
Phillippe Junot
Phillips
Phillipsburg
Phillipsville
Philis
Philly
Phillyrea
Philmont
Philo
Philo Judaeus
Philo-Gallic
Philo-athenian
Philo-french
Philo-gallicism
Philo-german
Philo-germanism
Philo-greek
Philo-hindu
Philo-jew
Philo-laconian
Philo-peloponnesian
Philo-pole
Philo-polish
Philo-russian
Philo-slav
Philo-slavism
Philo-teuton
Philo-teutonism
Philo-turk
Philo-turkish
Philo-turkism
Philo-yankee
Philo-yankeeist
Philo-zionist
Philoctetes
Philodendron
Philodina
Philodinidae
Philoeitus
Philohela
Philolaus
Philomachus
Philomath
Philomel
Philomela
Philomena
Philomont
Philonian
Philonic
Philonis
Philonism
Philonist
Philonome
Philoo
Philopteridae
Philotria
Philoxenian
Philpot
Phoenicaceae
Phoenicale
Phoenicia
Phoenician
Phoenicianism
Phoenicid
Phoenicus
Phoenicize
Phoenicopteridae
Phoenicopteriformes
Phoenicopteroideae
Phoenicopterus
Phoeniculidae
Phoeniculus
Phoenix
Phoenix Islands
Phoenixlike
Phoenixville
Pholadacea
Pholadidae
Pholadinea
Pholas
Pholcidae
Pholcus
Pholidota
Pholiota
Phoma
Phomopsis
Phomvihane
Phonelescope
Phonevision
Phonsa
Phora
Phoradendron
Phorcys
Phoridiae
Phormium
Phoroneus
Phoronida
Phoronidea
Phoronis
Phororhacidae
Phororhacos
Phosphor
Phosphorus
Photima
Photina
Photinia
Photinian
Photianism
Photius
Photobacterium
Photofit
Photon
Photoradiogram
Photostat
Photronic
Photronic cell
Phox
Phractamphibia
Phragmidium
Phragmites
Phragmocyttares
Phrixus
Phronima
Phronimididae
Phryganea
Phryganeidae
Phrygia
Phrygian
Phrygian cap
Phrygian mode
Phrygian sibyl
Phrygianize
Phryma
Phrymaceae
Phryne
Phrynidae
Phrynosoma
Phthartolatrae
Phthia
Phthirius
Phuket
Phuket Island
Phyciodes
Phycitidae
Phycochromophyceae
Phycodromidae
Phycomyces
Phycomycetes
Phyfe
Phyl
Phylactolaema
Phylactolaemata
Phylactolema
Phylactolemata
Phyleus
Phylis
Phyliss
Phyllachora
Phyllactinia
Phyllanthus
Phyllaurea
Phyllida
Phyllis
Phyllitis
Phyllium
Phyllocactus
Phyllocarida
Phylloceras
Phylloceratidae
Phyllodoce
Phyllophaga
Phyllopoda
Phyllopteryx
Phylloscopus
Phyllosomata
Phyllospondyli
Phyllostachys
Phyllosticta
Phyllostoma
Phyllostomatidae
Phyllostomatinae
Phyllostomidae
Phyllostominae
Phyllostomus
Phylloxera
Phylloxeridae
Phyllys
Phylo
Phylonome
Phylum Chordata
Phyllys
Phymatidae
Phymatodes
Phymosia
Physa
Physalia
Physaliidae
Physalis
Physalospora
Physapoda
Physaria
Physcia
Physciaceae
Physcomitrium
Physeter
Physeteridae
Physeterinae
Physeteroidea
Physidae
Physik
Physocarpus
Physoclisti
Physoderma
Physonectae
Physophorae
Physopoda
Physostegia
Physostigma
Physostomi
Phytaurus
Phytelephas
Phyteus
Phytoflagellata
Phytolacca
Phytolaccaceae
Phytomastigina
Phytomastigoda
Phytomonadida
Phytomonadina
Phytomonas
Phytophaga
Phytophagineae
Phytophthora
Phytophidae
Phytopus
Phytosauria
Phytotoma
Phytotomidae
Phytozoa
Phytozoaria
Phyxius
Pi
Pia
Piacenza
Piaf
Piaget
Piane
Piankashaw
Pianokoto
Pianola
Pietje
Pietown
Pietra
Pietrek
Pietro
Piffard
Pig Latin
Pig latin
Pigalle
Pigeon
Pigeon english
Piggott
Piggy
Pigmies
Pigmy
Pigs
Pigwiggen
Pike
Pikes Peak
Pikesville
Piketon
Pikeville
Pilar
Pilate
Pilatian
Pilatus
Pilcomayo
Pilea
Pilger
Pilgrim Fathers
Pilgrim's Progress
Pilgrimage of Grace
Pillager
Pillars of Hercules
Pillars of Islam
Pillars of the Faith
Pilloff
Pillow
Pillsbury
Pilobolus
Pilocarpus
Pilocereus
Pilos
Pilottown
Pilpai
Pilpay
Pilsen
Pilsener
Pindarus
Pindus
Pine
Pine Bluff
Pine Hill
Pine Lawn
Pinebank
Pinebluffs
Pinebrook
Pinebush
Pinecliffe
Pinecrest
Pineda
Pinedale
Pinehall
Pinehurst
Pineknot
Pinel
Pineland
Pinelli
Pineola
Pinero
Pines
Pinetops
Pinetown
Pinetta
Pinette
Pineview
Pineville
Pinewood
Pineywoods
Ping
Ping-Pong
Ping-Pong ball
Ping-pong
Pingre
Pingree
Pinguicula
Pinguiculaceae
Pini
Pink Floyd
Pinkerton
Pinkertonism
Pinkham
Pinkiang
Pinkster
Pinna
Pinnidae
Piscidia
Piscis
Piscis Australis
Piscis Austrinus
Piscis Volans
Piseco
Pisek
Piselli
Pisgah
Fish
Pishpek
Pishquow
Pisidia
Pisidian
Pisidium
Pisistratean
Pisistratidae
Pisistratus
Pisonia
Pissarro
Pistacia
Pistia
Pistoia
Pistoiense
Piston
Pisum
Pit
Pit and the Pendulum, The
Pitahauerat
Pitahaurata
Pitaka
Pitana
Pitars
Pitatus
Pitcairn Island
Pitcairnia
Pitch Lake
Pitcher
Pitchford
Pitchometer
Pithecanthropidae
Pithecanthropus
Pithecia
Pithecinae
Pithecocolobium
Pithiviers au Foin
Pithoegia
Pithoigia
Plains of Abraham
Plainsboro
Plainview
Plainville
Plainwell
Plaisted
Plaistow
Plana
Planada
Planaria
Planarida
Planck
Planck constant
Planck radiation formula
Planck's constant
Planck's law
Planckian
Planctae
Planera
Planipennia
Plank
Plankinton
Plano
Planococcus
Planorbidae
Planorbis
Planosarcina
Plantae
Plantagenet
Plantaginaceae
Plantaginales
Plantago
Plantation
Plantation walking horse
Plante
Plante battery
Plantersville
Plantigrada
Plantin
Plantsville
Planuloida
Plasmochin
Plasmodiophora
Plasmodiophoraceae
Plasmodiophorales
Plasmon
Plasmapara
Plassey
Platonism
Platonist
Platonistic
Platonization
Platonize
Platonizer
Platt
Plattdeutsch
Platte
Plattekil
Plattensee
Plattenville
Platter
Platteville
Platto
Plattsburg
Plattsburgh
Plattsmouth
Platus
Platycarpus
Platycarya
Platycephalidae
Platycephalus
Platy cercinae
Platy cercus
Platycerium
Platy codon
Platyctenea
Platy hel mia
Platy helminthes
Platypoda
Platyptera
Platyrhina
Platyrhini
Platyr rhina
Platyr rhini
Platysomidae
Platysomus
Platystemon
Platysternidae
Platystomidae
Plaucheville
Plauen
Plautine
Plautus
Player
Playfair
Pleas
Pleuroceridae
Pleurococcaceae
Pleurococcus
Pleurodelidae
Pleurodira
Pleuronectes
Pleuronectidae
Pleuronema
Pleuropterygii
Pleurosaurus
Pleurosigma
Pleurosteon
Pleurosticti
Pleurostigma
Pleurotomaria
Pleurotomariidae
Pleurotomidae
Pleurotrema
Pleurotus
Pleven
Plevena
Plexiglas
Plexiglass
Plexippus
Pliam
Plimsoll
Plimsoll line
Plimsoll mark
Plimsoll marks
Pliner
Plinian
Plinius
Pliny
Plinyism
Pliocene
Pliofilm
Pliohippus
Plion
Pliopithecus
Pliosauridae
Pliosaurus
Pliotron
Plijke
Plisthenes
Plocidae
Plocinae
Plocus
Ploch
Ploesti
Ploeti
Ploima
Plos
Ploss
Plossl
Plotinian
Plotinic
Plotinical
Plotinism
Plotinist
Plotinize
Plotinus
Plotkin
Plott hound
Plough
Plough and the Stars
Plouteneion
Plovdiv
Plowrightia
Plpuszta
Pluchea
Pluckemin
Pluckerian
Plumatella
Plumatellidae
Plumbaginaceae
Plumbo
Plume
Plumerville
Plumiera
Plummer
Plumsteadville
Plumtree
Plumularia
Plumulariidae
Plumville
Plunkett
Plusch
Plusia
Plusiinae
Plutarch
Plutarch’s Lives
Plutarchian
Plutarchic
Plutarchical
Plutarchically
Plutella
Pluto
Plutonian
Plutonic
Plutonion
Plutonium
Plutus
Pluvi
Pluvialis
Pluviose
Pluvius
Plymouth
Plymouth Brethren
Plymouth Colony
Plymouth Company
Plymouth Rock
Plymouth colony
Plymouthism
Plymouthist
Plymouthite
Plympton
Plynlymmon
Plze
Plzen
Pm
Pneumatomachian
Pneumatomachist
Pneumatomachy
Pneumatria
Pneumobranchia
Pneumobranchiata
Pneumometer
Pnom Penh
Pnom-penh
Pnompenh
Po
Poa
Poaceae
Poale zion
Poale zionist
Poales
Poblacht
Poca
Pocahontas
Pocasset
Pocasset
Pocatello
Pocola
Pocono
Polabish
Polacca
Polack
Polad
Polak
Poland
Poland China
Poland china
Polander
Polanisia
Polanski
Polard
Polarid
Polaris
Polaris submarine
Polarograph
Polaroid
Polaroid Land camera
Polaroid glasses
Polash
Pole
Pole Star
Polemoniaceae
Polemoniales
Polemonium
Poler
Polesian
Polian
Polianthes
Poliard
Polias
Poliatas
Police Motu
Polichinelle
Polieus
Polik
Polinices
Polinski
Polish
Polish Corridor
Polish Power
Polish bank
Polish lynx
Polish sausage
Polish wheat
Polish-american
Polish-jew
Polish-made
Polish-speaking
Polistes
Politbureau
Politburo
Polit
Politian
Politique
Polit
Polijuclus
Polivy
Polk
Polkton
Polkville
Polky
Poll
Pollack
Pollaiolo
Pollaiuolo
Pollajuolo
Pollak
Pollard
Polled Durham
Polled Hereford
Polled Shorthorn
Pollen
Pollerd
Pollie
Pollitt
Polloch
Pollock
Pollocksville
Pollok
Pollux
Polly
Pollyanna
Pollyannaish
Pollyannaism
Pollyannish
Polo
Polonese
Polonia
Polonial
Polonian
Polonism
Polonius
Polonization
Polonize
Polonized
Polonizing
Polonnaruwa
Polska
Polson
Poltava
Poltoratsk
Polyvadera
Polyactinia
Polyadelphia
Polyandria
Polyangium
Polybius
Polyborinae
Polyborus
Polybotes
Polybranchia
Polybranchiata
Polybus
Polycarp
Polycarpon
Polycaste
Polychaeta
Polycladida
Polycleitus
Polycletan
Polycletus
Polycletus
Polycodium
Polycrates
Polycrater
Polycyrtaria
Polydactylus
Polydeuces
Polydora
Polydorus
Polyergus
Polyfibre
Polygala
Polygalaceae
Polygamia
Polygnatus
Polygnatus
Polygonaceae
Polygonales
Polygonatum
Polygonella
Polygonia
Polygonum
Polygorius
Polygynia
Polyhymnia
Polyidus
Polykarp
Polymastiga
Polymastigida
Polymastigina
Polymastodon
Polymastus
Polymela
Polymele
Polymelus
Polymixia
Polymixiidae
Polynestor
Polynia
Polymorpha
Polymyaria
Polymyarii
Polymyodi
Polynices
Polynemidae
Polynemus
Polynesia
Polynesian
Polynesian race
Polynices
Polynoe
Polynoidae
Polyodon
Polyodontidae
Polyot
Polypedates
Polypemon
Polypetalae
Polyphaga
Polypheme
Polyphemus
Polyphemus moth
Polyphides
Polypi
Polypifera
Polyplocophora
Polyplectron
Polypoda
Polypodiaceae
Polypodium
Polypomorpha
Polyporaceae
Polyporthis
Polyporus
Polyprotodontia
Polypteridae
Polypterus
Polysaccum
Polysiphonia
Polyspora
Polystichum
Polystictus
Polystomata
Polystomatidae
Polystomea
Polystomella
Polystomidae
Polythalamia
Polytrichaceae
Polytrichum
Polyxena
Polyxenus
Polyxo
Polyzoa
Pomaceae
Pomacentridae
Pomacentrus
Pomaderris
Pomak
Pomaria
Pomatomidae
Pomatomus
Pombal
Pomcroy
Pomerania
Pomeranian
Pomerene
Pomerol
Pomeroy
Pomeroyton
Pomfret
Pomfrey
Pommard
Pommel
Pommern
Pomo
Pomona
Pomona glass
Pomorze
Pomos
Pompadour
Pompano Beach
Pompea
Pompei
Pompeia
Pompeian
Pompeian blue
Pompeian red
Pompeian yellow
Pompei
Pompeian
Pompey
Pompidou
Pomplilidae
Pomplius
Pomptine
Pompton Lakes
Ponape
Ponca
Poncas
Ponce
Ponce de Leon
Poncet's rheumatism
Ponchartrain
Ponchatoula
Poncirous
Pond
Ponderay
Ponderosa
Pondicherry
Pondo
Pondoland
Pondomisi
Ponemah
Ponera
Poneramoeba
Poneridae
Ponerinae
Poneto
Pongidae
Pongo
Ponselle
Ponsford
Ponta Delgada
Ponta Grossa
Pontac
Pontacq
Pontanus
Pontchartrain
Pontederia
Pontederiaceae
Pontefract
Pontefract cake
Pontefract
Pontiac
Pontian
Pontianak
Pontianus
Pontias
Pontic
Pontifical College
Pontifical Mass
Pontine
Pontine Marshes
Pontius
Pontius Pilate
Pontocaine
Pontocaspian
Ponton
Pontone
Pontoppidan
Pontormo
Pontos
Pontotoc
Pontus
Pontus Euxinus
Pontypool
Pontypridd
Pony League
Ponzo
Pooch
Pooh
Pooh Bah
Pooh-Bah
Pooi
Pool
Pool Malebo
Poole
Pooler
Poolesville
Pooley
Poolville
Poona
Poop
Poopo
Poor Richard's Almanac
Poor Robin's plantain
Poore
Pop
Popayan
Pope
Popean
Popejoy
Popele
Popelka
Popian
Popish
Popish Plot
Poplar Bluff
Poplarism
Poplarville
Poplilia
Popocatepetl
Popocatepetl
Popocracy
Popocrat
Popolari
Popoloco
Popov
Popovets
Poppaea Sabina
Poppas
Popper
Pippo
Poppy
Poppy Day
Popsicle
Popularist
Population Commission
Populism
Populist
Populist Party
Populistic
Populus
Poquonock
Poquoson
Porbandar
Porcellana
Porcellanidae
Porche
Porcia
Porcula
Poree
Porella
Porett
Porgy and Bess
Pori
Poria
Porifera
Poriferan
Porirua
Porites
Poritidae
Porkopolis
Porocephalus
Porokoto
Porphyra
Porphyraceae
Porphyrean
Porphyrian
Porphyrianist
Porphyrio
Porphyron
Porphyry
Porpita
Porrima
Porro prism
Porsena
Porsenna
Porson
Port
Port Adelaide
Port Allen
Port Angeles
Port Arthur
Port Blair
Port Carbon
Port Charlotte
Port Chester
Port Clinton
Port Elizabeth
Port Gentil
Port Gibson
Port Harcourt
Port Hudson
Port Huron
Port Isabel
Port Jackson
Port Jervis
Port Louis
Port Lyautey
Port Moresby
Port Neches
Port Orchard
Port Orford cedar
Port Phillip Bay
Port Royal
Port Said
Port Sudan
Port Talbot
Port Townsend
Port Vue
Port Washington
Port Wentworth
Port du Salut
Port of Spain
Port royal
Port-Gentil
Port-Salut
Port-au-Prince
Port-of-Spain
Port-royalist
Porta
Portadown
Portage
Portageville
Porte
Porteno
Porter
Porteranthus
Porterville
Portervillios
Portheoria
Portheus
Portia
Portie
Portile de Fier
Portinari
Portingale
Portland
Portland cement
Portland fancy
Portlandian
Portlaoise
Porto
Porto Novo
Porto Rican
Porto Rico
Porto rican
Porto rico
Portobello
Portor
Portrait of a Lady, The
Portsmouth
Portugal
Portugal crakeberry
Portugalism
Portugee
Portuguese
Portuguese East Africa
Portuguese Guinea
Portuguese India
Portuguese Timor
Portuguese West Africa
Portuguese cherry laurel
Portuguese cypress
Portuguese man-of-war
Portulaca
Portulacaceae
Portulacaria
Portumnus
Portuna
Portunalia
Portunidae
Portunus
Portwin
Portwine
Porty
Porum
Porush
Porzana
Pos
Posadas
Posehn
Poseidon
Poseidonian
Posen
Poseyville
Posidonius
Poskin
Posnanian
Posner
Possing
Post
Post Office
Post Office Department
Post Office and Civil Service
Post-Communion
Post-Impressionism
Post-adamic
Post-advent
Post-alexandrine
Post-apostolic
Post-apostolical
Post-aristotelian
Post-armistice
Post-augustan
Post-augustinian
Post-azilian
Post-aztec
Post-babylonian
Post-basket-maker
Post-biblical
Post-cambrian
Post-carboniferous
Post-carolingian
Post-cartesian
Post-christian
Post-christmas
Post-columbian
Post-confucian
Post-conquest
Post-constantinian
Post-copernican
Post-cretaceous
Post-cretaceous
Post-crusade
Post-darwinian
Post-davidic
Post-devonian
Post-diocletian
Post-disruption
Post-easter
Post-elizabethan
Post-eocene
Post-galilean
Post-gothic
Post-hittite
Post-homeric
Post-huronian
Post-ibsen
Post-incarnation
Post-johnsonian
Post-jurassic
Post-justianian
Post-jutland
Post-kansan
Post-kantian
Post-lafayette
Post-leibnitzian
Post-lent
Post-marxian
Post-medieval
Post-mendelian
Post-mesozoic
Post-miocene
Post-mishnaic
Post-mishnic
Post-mosaic
Post-myceanean
Post-napoleonic
Post-newtonian
Post-nicene
Post-oligocene
Post-ordovician
Post-paleolithic
Post-paleozoic
Post-pauline
Post-pentecostal
Post-permian
Post-petrine
Post-phidian
Post-platonic
Post-pleistocene
Post-pliocene
Post-prophetic
Post-pythagorean
Post-raphaelite
Post-reformation
Post-renaissance
Post-restoration
Post-roman
Post-romantic
Post-scholastic
Post-shakespearian
Post-silurian
Post-socratic
Post-solomonic
Post-syrian
Post-talmudical
Post-tertiary
Post-theodosian
Post-triassic
Post-tridentine
Post-vedic
Post-victorian
Post-volstead
Postcommunion
Postelle
Postman
Poston
Posterta
Postville
Postvorta
Potamobiidae
Potamochoerus
Potamogale
Potamogalidae
Potamogeton
Potamogetonaceae
Potamonidae
Potash
Potawatami
Potawatomi
Potawatomis
Poteau
Potecasi
Poteet
Potemkin
Potemkin village
Potentilla
Poterium
Poth
Pothos
Potidaea
Potiguara
Potiphra
Potomac
Potomac long boat
Potoroinae
Potorous
Potos
Potosi
Potrero
Potsdam
Pott's disease
Pott's fracture
Potter
Potteries
Pottersville
Potterville
Pratdesaba
Prater
Prather
Pratincola
Prato
Prato in Toscana
Pratt
Pratt truss
Pratte
Pratts
Prattsburg
Prattshollow
Prattsville
Prattsville
Pratyeka
Pravda
Pravit
Praxean
Praxeanist
Praxitelean
Praxiteles
Praxithea
Prayer of Manasses
Prayers at Foot of the Altar
Pre irish
Pre-Cambrian
Pre-Chellean
Pre-Raphaelite
Pre-Raphaelitism
Preacher
Preakness Stakes
Preble
Prebo
Precambrian
Preciosa
Precipitron
Precision Club
Precursor society
Predentata
Preface
Pregl
Pregwood
Preiser
Prekantian
Prelude, The
Preludin
Prem
Prem Singh Gyani
Premer
Preminger
Premium Savings Bonds
Premongolian
Premonstrant
Premonstratensian
Premont
Pren
Prenanthes
Prendergast
Prent
Prenter
Prentice
Prentiss
Pres
Presb
Presber
Presbyt
Presbyterian
Presbyterian alliance
Presbyterianism
Presbyterianize
Presbyterianly
Presbytinae
Presbytis
Prescott
Presho
President of the Board of Trade
Presidio
Presley
Presque Isle
Press
Pressburg
Pressey
Pressman
Prester John
Prestige
Preston
Prestonpans
Prestonsburg
Prestwich
Prestwick
Pretenderism
Pretoria
Pretorius
Pretrice
Preuss
Preussen
Primitive Methodism
Primitive Methodist
Primo
Primo de Rivera
Primrosa
Primrose
Primula
Primulaceae
Primulales
Primulinus
Primulinus hybrid
Primus
Primus stove
Prince
Prince Albert
Prince Albert National Park
Prince Albert coat
Prince Edward Island
Prince Fahd
Prince Regent
Prince Rupert
Prince Rupert's metal
Prince and the Pauper, The
Prince d'Essling
Prince of Darkness
Prince of Peace
Prince of Wales
Prince of Wales Island
Prince of Wales's feathers
Prince's Island
Prince's metal
Prince, The
Princeite
Princess
Princeton
Princeville
Princewick
Principe
Principes
Principia
Principle
Prineville
Pringle
Prinsburg
Printer
Prinz
Priodon
Priodontes
Prionidae
Prioninae
Prionodesmacea
Prionodon
Prionopinae
Prionops
Prionus
Prior
Priorato
Pripet
Pripet Marshes
Pripyat
Pris
Prisca
Priscella
Priscian
Priscianist
Priscilla
Priscilla rocker
Priscillian
Priscillianism
Priscillianist
Prisilla
Prissie
Prissy
Pristipomatidae
Pristipomidae
Pristis
Pristodus
Pritchard
Pritchardia
Pritchett
Prithivi
Privatdocent
Privatdozent
Private A
Private F
Private Member
Privy Council
Prix
Prix Goncourt
Pro-abyssinian
Pro-african
Pro-alabaman
Pro-alaskan
Pro-albanian
Pro-albertan
Pro-algerian
Pro-allied
Pro-ally
Pro-alpine
Pro-alsatian
Pro-american
Pro-americanism
Pro-anatolian
Pro-anglican
Pro-annamese
Pro-arab
Pro-arabian
Pro-arabic
Pro-argentina
Pro-argentinnian
Pro-arian
Pro-aristotelian
Pro-armenian
Pro-arminian
Pro-asian
Pro-asiatic
Pro-athanasian
Pro-athenian
Pro-atlantic
Pro-australian
Pro-austrian
Pro-azorian
Pro-baconian
Pro-bahamian
Pro-balkan
Pro-baptist
Pro-bavarian
Pro-belgian
Pro-berlin
Pro-berlinian
Pro-bermudian
Pro-biblic
Pro-biblical
Pro-boer
Pro-boerism
Pro-bohemian
Pro-bolivian
Pro-bolshevik
Pro-bolshevism
Pro-bolshevist
Pro-bonapartean
Pro-bonapartist
Pro-bosnian
Pro-bostonian
Pro-brahman
Pro-brazilian
Pro-british
Pro-britisher
Pro-britishism
Pro-briton
Pro-bryan
Pro-buddhist
Pro-buddhistic
Pro-bulgarian
Pro-burman
Pro-byronic
Pro-byzantine
Pro-caesar
Pro-caesarian
Pro-caledonian
Pro-californian
Pro-calvinism
Pro-calvinist
Pro-calvinistic
Pro-calvinistically
Pro-canadian
Pro-cantabrigian
Pro-cantonese
Pro-caribbean
Pro-carlylean
Pro-carolinian
Pro-castilian
Pro-catalonian
Pro-cathedralist
Pro-catholic
Pro-catholicism
Pro-caucasian
Pro-celtic
Pro-chicagoan
Pro-chilean
Pro-chinese
Pro-colombian
Pro-colonial
Pro-confederate
Pro-confucian
Pro-congressional
Pro-continental
Pro-corsican
Pro-costa rican
Pro-cretan
Pro-croatian
Pro-cuban
Pro-guianese
Pro-guinean
Pro-haitian
Pro-hanoverian
Pro-hapsburg
Pro-hawaiian
Pro-hellenic
Pro-hindu
Pro-hitter
Pro-hitlerism
Pro-hitlerite
Pro-hohenstaufen
Pro-hohenzollern
Pro-honduran
Pro-hungarian
Pro-icelandic
Pro-indian
Pro-iranian
Pro-irish
Pro-irishism
Pro-italian
Pro-jacobean
Pro-japanese
Pro-japanism
Pro-javan
Pro-javanese
Pro-jeffersonian
Pro-jewish
Pro-judaic
Pro-judaism
Pro-kansan
Pro-korean
Pro-lamarckian
Pro-latinism
Pro-latvian
Pro-league
Pro-leaguer
Pro-lettish
Pro-liberian
Pro-lithuanian
Pro-lutheran
Pro-macedonian
Pro-magyar
Pro-maltese
Pro-malthusian
Pro-manchukuoan
Pro-manchurian
Pro-masonic
Pro-mediterranean
Pro-methodist
Pro-mexican
Pro-mohammedan
Pro-mongolian
Pro-mormon
Pro-moroccan
Pro-moslem
Pro-neapolitan
Pro-netherlandian
Pro-nicaraguan
Pro-nordic
Pro-norman
Pro-norwegian
Pro-oriental
Pro-panamanian
Pro-paraguayan
Pro-persian
Pro-peruvian
Pro-philippine
Pro-polish
Pro-polynesian
Pro-portuguese
Pro-presbyterian
Pro-protestant
Pro-prussian
Pro-quaker
Pro-renaissance
Pro-roman
Pro-rumanian
Pro-russian
Pro-salvadoran
Pro-samoan
Pro-sardinian
Pro-scandinavian
Pro-scriptural
Pro-semite
Pro-semitism
Pro-serb
Pro-serbian
Pro-shakespearian
Pro-siamese
Pro-sicilian
Pro-slav
Pro-slavic
Pro-slavonic
Pro-southern
Pro-soviet
Pro-spanish
Pro-spartan
Pro-sudanese
Pro-sumatran
Pro-swedish
Pro-swiss
Pro-syrian
Pro-tasmanian
Pro-teuton
Pro-teutonic
Pro-teutonism
Pro-tripolitan
Pro-tunisian
Pro-turk
Pro-turkish
Pro-tyrolese
Pro-ukrainian
Pro-ulsterite
Pro-unitarian
Pro-uruguayan
Pro-venetian
Pro-venezuelan
Pro-virginian
Pro-welsh
Pro-western
Pro-whig
Pro-yankee
Pro-zionism
Pro-zionist
Proarthritis
Proavis
Probe-bibel
Prober
Proberta
Proboscidea
Probosciger
Procavia
Procaviidae
Procellaria
Procellariidae
Procellariiformes
Procellarum
Prochora
Prochoras
Procious
Proclus
Procne
Procoelia
Prole
Promachorma
Promachus
Promammalia
Prome
Promessi
Promethea
Promethean
Prometheus
Prometheus Bound
Prometheus Unbound
Promin
Promised Land
Prompton
Pronaus
Pronoea
Prontosil
Pronty
Pronuba
Propaganda
Proparia
Propertius
Prophet
Prophetico-messianic
Prophets
Prophets, the
Prophetstown
Propionibacteriaceae
Propionibacterium
Propithecus
Propliopithecus
Propontic
Propontis
Propus
Proreptilia
Prothriopilosophomorpha
Prorsa
Pros
Prosarthri
Prosclystius
Prose Edda
Prosek
Proserpina
Proserpinaca
Proserpine
Prosimiace
Prosobranchia
Prosobranchiata
Prosopis
Prosopium
Prospect Park
Prosper
Prosper Avril
Prosperity
Prospero
Prosperus
Prosser
Prostigmin
Prot
Protagoras
Protagorean
Protagoreanism
Protargol
Protea
Proteaceae
Protection
Protectograph
Protector
Proteida
Proteidae
Proteles
Protelidae
Protelytroptera
Protem
Proteosauridae
Proteosaurus
Proteosoma
Protephemeroidea
Proteroglypha
Proterozoic
Protoesilas
Protestant
Protestant Christianity
Protestant Episcopal
Protestant Episcopal Church
Protestant ethic
Protestantish
Protestantishly
Protestantism
Protestantize
Protestantlike
Protestantly
Proteus
Prothoenor
Protista
Protium
<table>
<thead>
<tr>
<th>Language Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protivin</td>
</tr>
<tr>
<td>Proto-Germanic</td>
</tr>
<tr>
<td>Proto-Indo-European</td>
</tr>
<tr>
<td>Proto-Italic</td>
</tr>
<tr>
<td>Proto-Norse</td>
</tr>
<tr>
<td>Proto-apostolic</td>
</tr>
<tr>
<td>Proto-arabic</td>
</tr>
<tr>
<td>Proto-armenian</td>
</tr>
<tr>
<td>Proto-aryan</td>
</tr>
<tr>
<td>Proto-attic</td>
</tr>
<tr>
<td>Proto-australian</td>
</tr>
<tr>
<td>Proto-australoid</td>
</tr>
<tr>
<td>Proto-babylonian</td>
</tr>
<tr>
<td>Proto-berber</td>
</tr>
<tr>
<td>Proto-caucasic</td>
</tr>
<tr>
<td>Proto-celtic</td>
</tr>
<tr>
<td>Proto-chaldaic</td>
</tr>
<tr>
<td>Proto-corinthian</td>
</tr>
<tr>
<td>Proto-doric</td>
</tr>
<tr>
<td>Proto-egyptian</td>
</tr>
<tr>
<td>Proto-elianite</td>
</tr>
<tr>
<td>Proto-etruscan</td>
</tr>
<tr>
<td>Proto-european</td>
</tr>
<tr>
<td>Proto-geometric</td>
</tr>
<tr>
<td>Proto-germanic</td>
</tr>
<tr>
<td>Proto-gothonic</td>
</tr>
<tr>
<td>Proto-greek</td>
</tr>
<tr>
<td>Proto-hattic</td>
</tr>
<tr>
<td>Proto-hellenic</td>
</tr>
<tr>
<td>Proto-hittite</td>
</tr>
<tr>
<td>Proto-indic</td>
</tr>
<tr>
<td>Proto-ionic</td>
</tr>
<tr>
<td>Proto-khattish</td>
</tr>
<tr>
<td>Proto-malay</td>
</tr>
<tr>
<td>Proto-malayan</td>
</tr>
<tr>
<td>Proto-mark</td>
</tr>
<tr>
<td>Proto-matthew</td>
</tr>
<tr>
<td>Proto-mede</td>
</tr>
<tr>
<td>Proto-mongol</td>
</tr>
<tr>
<td>Proto-myceanean</td>
</tr>
<tr>
<td>Proto-phoenician</td>
</tr>
<tr>
<td>Proto-polynesian</td>
</tr>
<tr>
<td>Proto-renaissance</td>
</tr>
<tr>
<td>Proto-semitic</td>
</tr>
<tr>
<td>Proto-solutrean</td>
</tr>
<tr>
<td>Proto-teutonic</td>
</tr>
<tr>
<td>Protoascales</td>
</tr>
<tr>
<td>Protoascomycetes</td>
</tr>
</tbody>
</table>
Protobasidii
Protobasidiomycetes
Protoblastoidea
Protobranchia
Protobranchiata
Protocaris
Protoceras
Protoceratidae
Protoceratops
Protochorda
Protochordata
Protococcaceae
Protococcales
Protococcus
Protocoleoptera
Protodonata
Protodonta
Protogenea
Protogenia
Protogeometric
Protohemiptera
Protohippus
Protohydra
Protohymenoptera
Protomastigida
Protominobacter
Protomonadina
Protomyxcales
Proton
Protoneurida
Protoperlaria
Protophyta
Protopteridae
Protopterus
Protorhippus
Protorosaurus
Protorosauridae
Protorosaurus
Protorthoptera
Protoselachii
Protosemic
Protosiphon
Protosiphonaceae
Protosphargis
Protospondyli
Protostega
Protostegidae
Protostegi
Prototracheata
Protozoa
Protracheata
Protremata
Protura
Protylopus
Proud
Proudfoot
Proudhon
Proudlove
Proudman
Proulx
Proust
Proustian
Prout
Prouty
Prov
Provature
Provenal
Provençal
Provençal poem
Provençale
Provençalize
Provence
Provence rose
Provencial
Proverbs
Providence
Providence River boat
Providence boat
Providentissimus Deus
Provincetown
Provisional
Provo
Provolone
Prowel
Proxima
Proxima Centauri
Proxima centauri
Pru
Pruchno
Prud
Prud'hon
Pruden
Prudence
Prudentius
Prudenville
Prudhoe
Psamtk I
Psaronius
Psedera
Pselaphidae
Pselaphus
Psephyrus
Psetta
Pseudechis
Pseudepigrapha
Pseudo american
Pseudo buddhism
Pseudo christ
Pseudo christian
Pseudo christianity
Pseudo christology
Pseudo-african
Pseudo-angle
Pseudo-areopagite
Pseudo-argentinian
Pseudo-aryan
Pseudo-australian
Pseudo-austrian
Pseudo-babylonian
Pseudo-baptist
Pseudo-belgian
Pseudo-bohemian
Pseudo-brahman
Pseudo-brazilian
Pseudo-buddhist
Pseudo-bulgarian
Pseudo-callisthenes
Pseudo-canadian
Pseudo-chilean
Pseudo-chinese
Pseudo-ciceronian
Pseudo-clementine
Pseudo-dantesque
Pseudo-dionysius
Pseudo-dutch
Pseudo-east indian
Pseudo-elizabethan
Pseudo-english
Pseudo-european
Pseudo-french
Pseudo-georgian
Pseudo-german
Pseudo-gothic
Pseudo-grecian
Pseudo-greek
Pseudo-hindu
Pseudo-hittite
Pseudo-homeric
Pseudo-hungarian
Pseudo-incan
Pseudo-indian
Pseudo-iranian
Pseudo-irish
Pseudo-isidore
Pseudo-isidorian
Pseudo-italian
Pseudo-japanese
Pseudo-junker
Pseudo-mayan
Pseudo-messiah
Pseudo-messianic
Pseudo-methodist
Pseudo-mexican
Pseudo-miltonic
Pseudo-mohammedan
Pseudo-mongolian
Pseudo-moslem
Pseudo-norwegian
Pseudo-oriental
Pseudo-panamanian
Pseudo-persian
Pseudo-pindaric
Pseudo-polish
Pseudo-presbyterian
Pseudo-republican
Pseudo-roman
Pseudo-russian
Pseudo-semitic
Pseudo-serbian
Pseudo-shakespearean
Pseudo-socratic
Pseudo-south african
Pseudo-spanish
Pseudo-swedish
Pseudo-turk
Pseudo-turkish
Pseudo-vergilian
Pseudo-victorian
Pseudobranchus
Pseudoceratites
Pseudococcinae
Pseudococcus
Pseudogryphus
Pseudolamellibranchia
Pseudolamellibranchiata
Pseudolarix
Pseudomonas
Pseudoneuroptera
Pseudopeziza
Pseudophoenix
Pseudoscarus
Pseudoscines
Pseudoscines
Pseudoscorpinida
Pseudosuchia
Pseudotetramera
Pseudotrimera
Pseudotsuga
Pshav
Psidium
Psiloceras
Psilocratidae
Psilophytales
Psilophytton
Psiloriti
Psilotaceae
Psilotum
Psithyrus
Psittaci
Psittacidiae
Psittaciformes
Psittacinae
Psittacomorphae
Psittacus
Pskov
Psocidae
Psoralea
Psorophora
Psoroptes
Psyche
Psyche knot
Psychean
Psychiatry
Psychichthys
Psychidae
Psychoda
Psychodidae
Psychol
Psychopompus
Psychotria
Pterosauria
Pterospora
Pterostemon
Pterostemonaceae
Pterygogenea
Pterygota
Pterygotus
Ptilichthyidae
Ptilidae
Ptilinium
Ptilocercus
Ptilonorhynchidae
Ptilonorhynchinae
Ptilota
Ptinidae
Ptinus
Pto
Pto Alegre
Pto Velho
Ptolemaean
Ptolemaeus
Ptolemaian
Ptolemaic
Ptolemaic system
Ptolemaic universe
Ptolemaical
Ptolemaism
Ptolemaist
Ptolemean
Ptolemies
Ptolemy
Ptolemy I
Ptolemy II
Ptous
Ptuchoparia
Ptuchosperma
Pu
Pu-yi
Puaut Macere
Pubilis
Publea
Publia
Publias
Public
Public Record Office
Public Works
Public Works Administration
Public Works and Transportation
Publican
Publilian
Publius
Publus
Puccini
Puccinia
Pucciniaceae
Puchanahua
Pucida
Puck
Puckett
Pudendas
Pudens
Pudovkin
Pudsey
Pudu
Puduns
Puebla
Pueblo
Pueblo indian
Puebloan
Puelche
Puelchean
Pueraria
Puerto
Puerto Ayacucho
Puerto Montt
Puerto Rican
Puerto Rican royal palm
Puerto Rico
Puerto Vallarta
Puerto rican
Puerto rico
Puertoreal
Puett
Pufahl
Pufendorf
Puff
Puffinus
Puget Sound
Pugh
Pugin
Puglia
Pugwash conferences
Puiia
Puinavi
Puinavian
Puinavis
Pygmy
Pygobranchia
Pygobranchiata
Pygopodes
Pygopodidae
Pygopus
Pyhrnic
Pylades
Pylades and Orestes
Pylaemenes
Pylaenus
Pylas
Pyle
Pylesville
Pylle
Pylos
Pym
Pynchon
Pyne
Pyongyang
Pyote
Pyotr
Pyotr Demichev
Pyotr Grigorenko
Pyrachantha
Pyraceae
Pyraechmes
Pyrales
Pyralidae
Pyralididae
Pyralidoidea
Pyrameis
Pyramidalism
Pyramidalist
Pyramidella
Pyramidellidae
Pyramidist
Pyramidon
Pyramus and Thisbe
Pyrausta
Pyraustinae
Pyreneaeus
Pyrene
Pyrenean
Pyrenees
Pyreneus
Pyrenochaeta
Pyrenomyctales
Pyrenomycetes
Pyrenomycetineae
Pyrenopeziza
Pyrethrum
Pyrex
Pyribenzamine
Pyridium
Pyrophlegethon
Pyrites
Pyrnor Pyrnlantiques
Pyrrrientalales
Pyrocystis
Pyrodine
Pyrola
Pyrolaceae
Pyromorphidae
Pyronema
Pyronia
Pyrosoma
Pyrosomatidae
Pyrosomidae
Pyrotheria
Pyrotherium
Pyrrha
Pyrrhic
Pyrrhic victory
Pyrrho
Pyrrhocoridae
Pyrrhanean
Pyrrhonian
Pyrrhonic
Pyrrhonism
Pyrrhonist
Pyrrhonistic
Pyrrhonize
Pyrrhuloxia
Pyrrhus
Pyrula
Pyuralaria
Pyrus
Pyszka
Pythagoras
Pythagoras' theorem
Pythagorean
Pythagorean scale
Pythagorean theorem
Pythagoreanism
Pythagoreanize
Pythagoreanly
Pythagoric
Pythagorical
Pythagorically
Pythagorism
Pythagorist
Pythagorize
Pythagorizer
Pytheas
Pythia
Pythiaceae
Pythiacystis
Pythiad
Pythiambic
Pythian
Pythian Games
Pythian oracle
Pythias
Pythic
Pythios
Pythium
Pythius
Pytho
Python
Pythonidae
Pythoninae
Pythonissa
Pythonomorpha
Pytkik
Pyxidanthera
Pyxidis
Pyxis
Pyxis Nautica
PP
Pp
Q
Q clearance
Q factor
Q fever
Q gauge
Q signal
Q value
Q wedge
Q's
Q-Celtic
Q-celtic
Q-celtic
Q-factor
Quaker green
Quaker gun
Quaker meeting
Quaker-colored
Quaker-gray
Quaker-ladies
Quakerdom
Quakeress
Quakeric
Quakerish
Quakerishly
Quakerishness
Quakerism
Quakerization
Quakerize
Quakerlet
Quakerlike
Quakerly
Quakership
Quakerstreet
Quakertown
Quakery
Quamasia
Quamoclit
Quanah
Quant
Quantico
Quantrill
Quantz
Quapaw
Quar
Quarryville
Quarta
Quartana
Quartas
Quartet
Quartis
Quartodeciman
Quartus
Quartzsite
Quashee
Quashi
Quasi american
Quasi english
Quasi englishman
Quasi french
Quasi german
Quasi greek
Queridas
Quernales
Quertaro
Quesnay
Quesnel
Questa
Queston
Quetta
Quetzalcoatl
Quezaltenango
Quezon
Quezon City
Quezon y Molina
Qui Nhong
Quiangan
Quibdo
Quiberon
Quiche
Quichua
Quick
Quickel
Quickman
Quicksburg
Quidae
Quidde
Quiddist
Quigley
Quiina
Quinaceae
Quilcene
Quileute
Quill
Quillagga
Quillaja
Quillan
Quillon
Quilmes
Quimbaya
Quimby
Quimper
Quin
Quinaielt
Quinault
Quinby
Quince
Quincey
Quincy
Quinebaug
Quitu
Quivira
Quixote
Quin
Quillon
Quim
Quirion
Quiring
Quogue
Quonset hut
Quoratean
Qur'an
Quran
Qurti
Qutb
Qy
R
R & B
R & D
R and D
R and D establishment
R and D worker
R and R
R star
R&D
R's
R-shaped
R/D
RA
RAAF
RAC
RACE
RACEP
RAD
RADA
RADAR
RADIO
RADM
RAEC
RAF
RAFVR
RAID
RAM
RAMC
RAMP
RAN
RAND
RAO
RAOC
RAR
RARDE
RARE
RARP
RAS
RASC
RATFOR
RATO
RAVC
RAdm
RB
RB-
RBC
RBE
RBHC
RBI
RBOC
RBOR
RBT
RBTL
RC
RC oscillator
RCA
RCAF
RCAS
RCB
RCC
RCCh
RCF
RCH
RCI
RCL
RCLDN
RCM
RCMAC
RCMP
RCN
RCO
RCP
RCS
RCSC
RCT
RCU
RCVR
RCVS
RD
RDA
RNA
RNA polymerase
RNAS
RNGC
RNLI
RNOC
RNR
RNVR
RNWMP
RNZAF
RNZN
RO
ROA
ROB
ROC
ROE
ROFF
ROG
ROH
ROI
ROK
ROM
RONA
RONABIT
ROP
ROSAT
ROSE
ROSPA
ROT
ROTC
ROTL
ROTS
ROUS
ROW
ROYGBIV
RP
RPC
RPG
RPI
RPM
RPN
RPO
RPQ
RPS
RPV
RQ
RQS
RQSM
RTTY
RTU
RU
RUC
RUM
RV
RVSVP
RW
RWA
RWC
RWE
RWM
RX
Ra
Raab
Raama
Raamses
Raasch
Rab
Rabaal
Rabah
Rabassa
Rabat
Rabaul
Rabbath Ammon
Rabbi
Rabbi Levi
Rabbi Moses ben Maimon
Rabbinic
Rabbinica
Rabbinist
Rabbinite
Rabelais
Rabelaisian
Rabelaisianism
Rabelaism
Rabbi
Rabia
Rabiah
Rabin
Rabinowitz
Rabjohn
Rabkin
Rabush
Race
Raceland
Rachaba
Rachael
Ragnaror Ragnarok
Rago
Ragouzis
Ragsdale
Ragucci
Ragusa
Rahab
Rahal
Rahanwin
Rahel
Rahm
Rahman
Rahmann
Rahmatour
Rahr
Rahu
Rahway
Rai
Raia
Raiae
Raif Dizdarevic
Raiford
Raiidae
Raila
Railroad Retirement Board
Raimannia
Raimes
Raimo Summanen
Raimondi
Raimondo
Raimund
Raimundo
Raina
Rainah
Rainbow Bridge
Rainbow, The
Rainbows
Raine
Rainelle
Rainer
Raines
Rainger
Rainie
Rainier
Rainier III
Rains
Rainsville
Rainwater
Rais
Raisa Gorbachev
Raisa Grobachev
Raj
Raja
Raja Aznam
Rajab
Rajah
Rajasthan
Rajasthani
Rajendra
Rajeshwar Dayal
Rajewski
Raji
Rajidae
Rajiv
Rajkot
Rajput
Rajputana
Rajya Sabha
Rakata
Rake's Progress, The
Rakel
Rakia
Ralaigh
Ralegh
Raleigh
Ralf
Ralfston
Ralina
Ralleigh
Ralli
Rallidae
Rallinae
Ralls
Rallus
Ralph
Ralph Bunche
Ralph Roister Doister
Ralston
Ram
Ram Mohan Roy
Rama
Rama IX
Ramachandra
Ramada
Ramadan
Ramadoux
Ramo
Ramon
Ramon Beteta
Ramon Mirabal Carrion
Ramon Salcido
Ramona
Ramonda
Ramoosii
Ramos
Ramphastidae
Ramphastides
Ramphastos
Rampur
Ramsay
Ramsdell
Ramsden
Ramsden eyepiece
Ramses
Ramses I
Ramses II
Ramses III
Ramseur
Ramsey
Ramsgate
Ramstein
Ramunni
Ramusi
Ramwat
Ran
Rana
Ranales
Ranatra
Ranburne
Rancagua
Rance
Rancell
Ranchester
Ranchi
Rancho Cordova
Rancho Seco
Ranchod
Rancocas
Rand
Rand, The
Randa
Randal
Randalia
Randall
Raphanus raphanistrum
Raphia
Raphidiidae
Raphidodea
Raphidoidea
Raphine
Raphiolepis
Rapidan
Rapp
Rappist
Rappite
Rapson's slide
Raptores
Raquel
Raquela
Rarden
Rareyfy
Raritan
Rarotonga
Rarotongan
Ras
Ras algethi
Rasalas
Rasalhague
Rascal
Raseda
Rasem Khalidi
Rasenna
Raseta
Rashi
Rashid
Rashid Karami
Rashida
Rashidi
Rashidov
Rashomon
Rasht
Rashti
Rasia
Rask
Raskin
Raskind
Raskolnik
Raskolniki
Raskolniks
Rasla
Rasmussen
Ravenala
Ravencliff
Ravendale
Ravenden
Ravenel
Ravenelia
Ravenna
Ravenna grass
Ravens
Ravensara
Ravensdale
Ravenswood
Ravenwood
Ravi
Ravia
Ravid
Ravinia
Raviv
Ravo
Ravonelle
Rawalpindi
Rawdan
Rawden
Rawdin
Rawdon
Rawl
Rawley
Rawlings
Rawlins
Rawlinson
Rawlplug
Rawson
Rawsthorne
Ray
Ray Bourque
Ray Dyck
Ray Melchiorre
Ray Neufeld
Ray Quinones
Raybin
Raybourne
Raybrook
Rayburn
Raychel
Raycher
Raye
Rayford
Rayland
Rayle
Rayleigh
Rayleigh disc
Rayleigh disk
Rayleigh wave
Raymond
Raymond Barre
Raymond Edde
Raymonds
Raymondville
Raymore
Raymund
Rayna
Raynah
Raynard
Raynata
Rayne
Raynell
Raynelle
Rayner
Raynesford
Raynham
Raynold
Raynomd Ioanus
Raynor
Raysal
Raysal
Raysall
Raytheon
Rayville
Raywick
Raywood
Razid
Razoumofskya
Rb
Rct
Rd
RdAc
Rdesheimer
Rdhs
Re
Re-americanization
Re-americanize
Re-christianize
Re-english
Re-germanization
Re-germanize
Re-hellenization
Re-hellenize
Re-puritanize
Re-romanize
Rea
Reace
Read
Reade
Reader
Reader's Digest Almanac
Readfield
Reading
Readington
Readlyn
Readsboro
Readstown
Readus
Ready
Readyville
Reagan
Reagen
Reahard
Real Caouette
Real Cloutier
Realgymnasium
Realitos
Realpolitik
Realschule
Realtor
Reames
Reamonn
Reamstown
Reamy
Reaper
Rear Adm
Reardan
Reasnor
Reaum
Reaumur
Reave
Reb
Reba
Rebah
Rebak
Rebane
Rebbia
Rebbieca
Rebe
Rebecca
Rebecca
Rebeccaism
Rebeccaites
Rebecka
Rebeka
Rebekah
Rebekkah
Rebel
Rebersburg
Rehun
Reblochon
Reboulia
Rebuck
Recamier
Received Pronunciation
Received Standard
Recent
Receptaculites
Receptaculitidae
Rech
Recha
Rechaba
Rechabite
Rechabitism
Recife
Recit
Reckford
Recklinghausen
Recollect
Recollet
Recollet de Gerardmer
Reconstruction
Reconstruction Era
Reconstructionism
Reconstructionist
Recor
Recorde
Recording Angel
Records
Rect
Rectigraph
Rector
Rectortown
Recurvirostra
Recurvirostridae
Red
Red Army
Red Auerbach
Red Badge of Courage, The
Red Bluff
Red Book
Red Branch
Red Brigades
Red Chamber
Red China
Red Crescent
Red Cross
Red Deer
Red Desert
Red Ensign
Red Feather
Red Guard
Red Hats
Red Indian
Red Planet
Red Poll
Red Polled
Red Republican
Red River
Red River War
Red River of the South
Red Schoendienst
Red Sea
Red Spot
Red and the Black
Red and the Black, The
Red polled
Redan
Redart
Redash
Redbank
Redbanks
Redbridge
Redby
Redcliff
Rederest
Redd
Reddell
Reddick
Reddin
Redding
Redditch
Reddy
Redeemer
Redemptine
Redemptionist
Redemptorist
Redeye
Redfield
Redford
Redfox
Redgrave
Redhook
Reddiffusion
Redig
Redkey
Redlands
Redleg
Redlion
Redman
Redmer
Redmon
Redmond
Redmund
Redon
Redondo
Redondo Beach
Redowl
Redrock
Redroe
Redstar
Redstone
Redunca
Reduviidae
Reduvius
Redvale
Redvers
Redwater
Redway
Redwine
Redwing
Ree
Reeba
Reece
Reed
Reeda
Reede
Reeder
Reeders
Reedley
Reeds
Reedsburg
Reedsport
Reedsville
Reedville
Reider
Reidsville
Reidville
Reifel
Reigate
Reign of Terror
Reijon Ruotsolainen
Rei
Reiko
Reilly
Reimarus
Reimer
Reims
Reimthursen
Rein
Reina
Reinald
Reinaldo
Reinaldos
Reinbeck
Reindeer Lake
Reindeer age
Reine
Reinecke
Reiner
Reiners
Reinert
Reinertson
Reinhard
Reinhardt
Reinhart
Reinhold
Reinholds
Reinke
Reino Hayhanen
Reinold
Reinwald
Reinwardtia
Reis
Reisch
Reiser
Reisfield
Reisinger
Reisman
Reiss
Reisterstown
Reiter
Reith
Reitman
Rejiang
Rejean Lemelin
Rejoicing over the Law
Reki
Reklaw
Relay
Reid
Reliance
Religious Humanism
Religious Society of Friends
Religious of the Cenacle
Religious of the Sacred Heart
Rella
Rellia
Relly
Rellyan
Rellyanism
Rellyanite
Rem
Rema
Remarque
Rembert
Rembrandt
Rembrandtesque
Rembrandtish
Rembrandtism
Remde
Remembrance Day
Remembrance Sunday
Remembrance of Things Past
Remembrancer
Remer
Remi
Remijia
Remington
Remlap
Remmer
Remboth
Remonstrance
Remonstrant
Remou dou
Rempe
Remscheid
Remsen
Remsenburg
Remus
Remy
Rena
Renado
Renae
Renaissance
Renaissance literature
Renaissance man
Renaissance tragedy
Renaissance versatility
Renaissancist
Renaissant
Renalara
Renaldo
Renan
Renard
Renardine
Renascence
Renata
Renate
Renato
Renaud
Renault
Renckens
Rene
Rene Cassin
Rene Coty
Rene Jacquot
Rene de Soal
Renealmia
Renee
Renegotiation Board
Renell
Renelle
Reneta
Renferd
Renfred
Renfrew
Renfrewshire
Reni
Renick
Renie
Renilla
Renillidae
Renita
Reniti
Rennane
Renner
Rennes
Rennie
Reva
Reval
Revd
Revelation
Revelations
Revell
Revelo
Revere
Reverence
Reverend
Reverend Mother
Reviel
Reviere
Revillo
Revisable
Revised Standard Version
Revised Version
Revised Version of the Bible
Revival of Learning
Revkah
Revloc
Revolite
Revolutionary
Revolutionary War
Revolutionary Wars
Revolutionary calendar
Rew
Rewey
Rex
Rex cat
Rexana
Rexane
Rexanna
Rexanne
Rexburg
Rexenite
Rexer
Rexferd
Rexford
Rexford
Rexfourd
Rexine
Rexist
Rexmond
Rexmont
Rexroth
Rexville
Rey
Rey Quinones
Reydell
Reydon
Reye's syndrome
Reykjavik
Reymont
Reyna
Reynaldo Bignone
Reynard
Reynaud
Reyno
Reynold
Reynolds
Reynolds number
Reynoldsburg
Reynoldsville
Reynosa
Reza Pahlavi
Reziwood
Rezzani
Rf
Rf Botha
Rgen
Rgt
Rh
Rh antigen
Rh factor
Rh negative
Rh positive
Rh-negative
Rh-positive
Rh-type
Rhabdritis
Rhabdocarpum
Rhabdocoela
Rhabdocoelida
Rhabdomonas
Rhabdophora
Rhabdopleura
Rhacianectes
Rhacomitrium
Rhacophorus
Rhadamantine
Rhadamanths
Rhadamanths
Rhaetia
Rhaetian
Rhaetian Alps
Rhaetic
Rhetta
Rheum
Rhexia
Rheydt
Rhiamon
Rhiana
Rhianna
Rhiannon
Rhiannon
Ribhus
Rhigmus
Rhina
Rhinanthaceae
Rhinanthus
Rhine
Rhine Palatinate
Rhine Province
Rhine wine
Rhinebeck
Rhinecliff
Rhineland
Rhinegold
Rhinegrave breeches
Rhinehart
Rhineland-Palatinate
Rhinelander
Rhinodon
Rhineodontidae
Rhines
Rhineura
Rhinidae
Rhinobatidae
Rhinobatus
Rhinocerotidae
Rhinoderma
Rhinolophidae
Rhinophidae
Rhinophis
Rhinoptera
Rhinopteridae
Rhinospordinum
Rhinthonic
Rhinthonica
Rhipidia
Rhipidoglossa
Rhipidoptera
Rhipiphoridae
Rhipiptera
Rhipsalis
Rhipitoglossa
Rhizina
Rhizinaceae
Rhizobium
Rhizocarpeae
Rhizocephala
Rhizoctonia
Rhizodus
Rhizoflagellata
Rhizophora
Rhizophoraceae
Rhizopoda
Rhizopogon
Rhizopus
Rhizostomae
Rhizostomata
Rhizota
Rhine
Rhoades
Rhoadesville
Rhoads
Rhoda
Rhodamine
Rhodian
Rhode
Rhode Island
Rhode Island Independence Day
Rhode Island Red
Rhode Island bent
Rhode Island red
Rhode Island white
Rhode Islander
Rhode island
Rhode islander
Rhodelia
Rhodell
Rhodes
Rhodes grass
Rhodes scholarship
Rhodesdale
Rhodesia
Rhodesia and Nyasaland
Rhodesian
Rhodesian Front
Rhodesian man
Rhodesian ridgeback
Rhodesoid
Rhodhiss
Rhodia
Rhodian
Rhodie
Rhodobacteriaceae
Rhodobacteriioideae
Rhodococcus
Rhodocystis
Rhodomelaceae
Rhodope
Rhodope Mountains
Rhodophyceae
Rhodophyllidaceae
Rhodophyta
Rhodopis
Rhodora
Rhodoraceae
Rhodos
Rhodospermeae
Rhodospirillum
Rhodothece
Rhodotypos
Rhodus
Rhody
Rhodymenia
Rhodymeniaceae
Rhodymeniales
Rhoeadales
Rhoecus
Rhoeo
Rhoeutz
Rhomboganoidei
Rhombozoa
Rhona
Rhonda
Rhondda
Rhopalocera
Rhopalura
Rhu
Rhus
Rhynchobdellae
Rhynchobdellida
Rhynchocephala
Rhynchocephali
Rhynchocephalia
Rhynchocoela
Rhynchonella
Rhynchonellacea
Rhynchonellidae
Rhynchophora
Rhynchopinae
Rhynchops
Rhynchosis
Rhynchospora
Rhynchota
Rhyncostomi
Rhynd
Rhyne
Rhyner
Rhynia
Rhyniaceae
Rhynocheti
Rhynsburger
Rhys
Rhyssa
Rhytidodon
Rhytina
Rhytisma
Ria
Rialto
Riana
Riancho
Riane
Rianna
Riannon
Rianon
Riba
Ribal
Ribandism
Ribandist
Ribaudo
Ribbentrop
Ribble
Ribbonism
Ribbonman
Ribeirto
Ribera
Ribero
Ribes
Ribhus
Ribicoff
Ribston
Ric
Rica
Ricard
Ricarda
Ricardama
Ricardian
Ricardianism
Ricardo
Ricardo Arias Calderon
Ricardo Balbin
Ricardo de la Espriella
Ricca
Riccardo
Ricci
Riccia
Ricciaceae
Ricciales
Riccio
Riccioli
Riccius
Rice
Rice Lake
Riceboro
Ricetown
Riceville
Rich
Richara
Richard
Richard Bowditch
Richard Bozzuto
Richard Brodeur
Richard Brzeczek
Richard Caliguiri
Richard Coeur de Lion
Richard Hajdu
Richard I
Richard II
Richard III
Richard Ichord
Richard Kasischke
Richard Kneip
Richard Matuszewski
Richard Roe
Richard Secord
Richard Sevigny
Richarda
Richardia
Richardo
Richards
Richardson
Richardson ground squirrel
Richardsonia
Richardsville
Richardton
Richart
Richburg
Richelbourg
Richel
Richela
Richelieu
Richelieu River
Richella
Richelle
Richer
Richers
Richet
Richey
Richeyville
Richfield
Richford
Richia
Richie
Richier
Richlad
Richland
Richland Center
Richland Hills
Richlands
Richma
Richmal
Richman
Richmond
Richmond Heights
Richmond-upon-Thames
Richmonddale
Richmondena
Richmondville
Richmond
Richter
Richter scale
Richthofen
Richton
Richvale
Richvale
Richville
Richwood
Richwoods
Richy
Rici
Ricinulei
Ricinus
Rick
Rick Adelman
Rick Aguilera
Rick Bowness
Rick Mahorn
Rick Majerus
Rick Meagher
Rick Pitino
Rick Reuschel
Rick Tocchet
Rick Vaive
Rickard
Rickart
Ricker
Rickert
Ricketts
Rickettsia
Rickettsiales
Rickey
Ricki
Rickie
Rickman
Rickover
Rickreall
Rickwood
Ricky
Rico
Ricoriki
Rida
Riddle
Riddlesburg
Riddleton
Rider
Riders to the Sea
Riderwood
Ridgecrest
Ridgedale
Ridgefield
Ridgeland
Ridgeley
Ridgely
Ridgeview
Ridgeville
Ridgeway
Ridgewood
Ridglea
Rifkin
Rifton
Rig-Veda
Rig-veda
Rig-vedic
Riga
Riga balsam
Rigby
Rigdon
Rigel
Rigelian
Rigg's disease
Riggall
Riggins
Riggs
Riggs' disease
Right Bank
Right Honourable
Right Reverend
Right Reverend, the
Rigi
Rigil Kent
Rigil Kentaurus
Rigil kentaurus
Rigoletto
Rigotto de Condrieu
Rigsdag
Rigsmaal
Rigsmal
Rigveda
Rigvedic
Riha
Rihana
Riis
Rijeka
Rijksmuseum
Rijn
Rijswijk
Rik
Rika
Rikari
Riker
Riki
Rikki
Riksdag
Riksm'
Riksmaal
Riksmal
Rilda
Riley
Rileyville
Rilke
Rillings
Rillis
Rillito
Rillton
Rima
Rimas
Rimbaud
Rimersburg
Rimini
Rimma
Rimola
Rimouski
Rimsky-Korsakoff
Rimsky-Korsakov
Rina
Rinaldo
Rinard
Rincon
Rind
Rinde
Rindge
Rinee
Rinehart
Riner
Rineyville
Ring
Ring Cycle
Ring Round the Moon
Ring and the Book, The
Ring of the Nibelung
Ring of the Nibelung, The
Ringatu
Ringe
Ringer's solution
Ringgold
Ringle
Ringler
Ringling
Ringo
Ringoes
Ringold
Ringsmith
Ringsted
Ringtown
Ringwood
Rinna
Rinnemann's green
Rintoul
Rio
Rio Branco
Rio Bravo
Rio Dell
Rio Grande
Rio Grande do Norte
Rio Grande do Sul
Rio Vista
Rio de Janeiro
Riobard
Riocard
Rioja
Rion
Rion Strait
Rior
Riordan
Riorsson
Riot Act
Rip
Rip Van Winkle
Riparii
Riparius
Ripleigh
Riplex
Ripley
Ripon
Ripp
Rippey
Ripplemead
Rippon
Ripuarian
Riquewihr
Ririe
Risa
Risco
Rise
Risley
Rison
Risorgimento
Riss
Rissa
Risser
Rissian
Rissoa
Rissoïdæ
Rist
Ristéau
Rita
Ritch
Ritchie
Rite of Spring, The
Riti
Ritner
Ritschlian
Ritschlianism
Ritter
Rittman
Ritwan
Ritz
Ritz sauce
Ritz’s combination principle
Ritzville
Riva
Rivalee
Rivals, The
Rivard
River
River Falls
River Grove
River Oaks
River Plate
River Rouge
River of Fire
River of Forgetfulness
River of Wailing
River of Woe
Rivera
Riverbank
Riverdale
Riveredge
Riverhead
Rivers
Riverside
Riverton
Rivervale
Riverview
Rives
Rivesville
Rivi
Riviera
Rivina
Rivinian
Roccella
Roccellaceae
Rocco
Rocco Mediate
Roch
Rochard Jahnke
Rochdale
Rochdale cooperative
Roche
Rochea
Rochell
Rochella
Rochelle
Rochelle Park
Rochelle powder
Rochelle powders
Rochelle salt
Rochemont
Rocheport
Rocher
Rochert
Rochester
Rochette
Rochford
Rochkind
Rochus
Rociada
Rocinante
Rock
Rock Cornish
Rock Cornish hen
Rock Hill
Rock Island
Rock Rapids
Rock Springs
Rock fever
Rock of Gibraltar
Rockafellow
Rockaway
Rockdale
Rockefeller
Rockel
Rocker
Rockey
Rockfall
Rockfield
Rockford
Rockhall
Rockham
Rockhampton
Rockholds
Rockhouse
Rockie
Rockies
Rockingham
Rockingham ware
Rockland
Rockledge
Rocklin
Rockmart
Rockne
Rockport
Rockton
Rockvale
Rockview
Rockville
Rockville Centre
Rockwall
Rockwell
Rockwell number
Rockwood
Rocky
Rocky Ford
Rocky Graziano
Rocky Mount
Rocky Mountain States
Rocky Mountain beeplant
Rocky Mountain bighorn
Rocky Mountain canary
Rocky Mountain goat
Rocky Mountain juniper
Rocky Mountain red cedar
Rocky Mountain sheep
Rocky Mountain spotted fever
Rocky Mountain white pine
Rocky Mountain whitefish
Rocky Mountains
Rocky River
Rocky mountain
Rocouyenne
Rocray
Rocroi
Rod
Rod Gilbert
Roda
Rodenke
Rodd
Roddie
Roddy
Rodenhouse
Rodentia
Roderfield
Roderic
Roderica
Roderich
Roderick
Roderick Hudson
Roderigo
Rodessa
Rodez
Rodge
Rodger
Rodgers
Rodi
Rodie
Rodin
Rodina
Rodinal
Rodinesque
Rodl
Rodman
Rodmann
Rodmun
Rodmur
Rodney
Rodolfo
Rodolph
Rodolphe
Rodolphus
Rodrich
Rodrick
Rodrigo
Rodrigo Carazo
Rodriguez
Rodrique
Roduco
Rodzinski
Roe
Roebling
Roede
Roeo
Roehm
Roeland Park
Roelof Botha
Roentgen
Roentgen ray
Roer
Roerich
Roeselare
Roeser
Roethke
Roff
Rog
Rogallo wing
Rogation Days
Rogationtide
Roger
Roger Heyns
Rogerio
Rogero
Rogers
Rogerson
Rogersville
Roget
Roggen
Rogie Vachon
Rogier
Rogovy
Rogozen
Rohilla
Rohn
Rohrersville
Roi
Roice
Roid
Rois
Roist
Rojas
Rok
Rokach
Rokadur
Rola
Rolaids
Rolan
Roland
Roland Melanson
Rolanda
Rolandic
Rolandic epilepsy
Rolando
Rolandson
Roldan
Roman Empire
Roman Ionic
Roman alphabet
Roman arch
Roman balance
Roman brick
Roman calendar
Roman candle
Roman collar
Roman deities
Roman holiday
Roman lace
Roman law
Roman liturgy
Roman mile
Roman name
Roman nettle
Roman nose
Roman notation clock
Roman numerals
Roman pace
Roman peace
Roman point
Roman punch
Roman ride
Roman rite
Roman seal
Roman strike
Roman umber
Roman wormwood
Roman-nosed
Romanal
Romanas
Romance
Romance languages
Romandom
Romane
Romanee Conti
Romanes
Romanese
Romanesque
Romanesque bob
Romanhood
Romania
Romanian
Romanic
Romanies
Romaniform
Romanisation
Romanise
Romanised
Romanish
Romanising
Romanism
Romanist
Romanistic
Romanists
Romanite
Romanity
Romanization
Romanize
Romanizer
Romanly
Romano
Romano cheese
Romano-british
Romano-briton
Romano-byzantine
Romano-canonical
Romano-celtic
Romano-ecclesiastical
Romano-egyptian
Romano-etruscan
Romano-gallic
Romano-german
Romano-germanic
Romano-gothic
Romano-greek
Romano-hispanic
Romano-iberian
Romano-lombardic
Romano-punic
Romanoff
Romanov
Romans
Romansch
Romansh
Romantic Classicism
Romantic Movement
Romanus
Romany
Romany rye
Romayne work
Romayor
Rombauer
Romberg
Ron Lapointe
Ron Oester
Ron Rothstein
Rona
Ronal
Ronald
Ronald Agenor
Ronald Douthit
Ronalda
Ronan
Roncaglian
Roncesvalles
Roncevaux
Ronceverte
Ronco
Ronda
Rondeletia
Rondi
Rondnia
Rondon
Rondonia
Rone
Ronel
Ronen
Roneo
Rong
Rong-pa
Ronga
Ronica
Ronkonkoma
Ronks
Ronn
Ronna
Ronne
Ronnholm
Ronni
Ronrica
Ronnie
Ronny
Ronsard
Ronsardian
Ronsardism
Ronsardist
Ronsardize
Ronsdorfer
Ronsdorfidan
Rontgen
Rony Seikaly
Rosewood
Rosewood Heights
Rosh Hashanah
Rosh Hashh Hashonoh
Rosh Hashono
Rosh Hodesh
Roshan
Rosharon
Roshelle
Rosholt
Rosiclare
Rosicrucian
Rosicrucianism
Rosie
Rosie Lee
Rosina
Rosinante
Rosine
Rosinski
Rosio
Rosita
Roskes
Roskilde
Roslyn
Roslyn rig
Roslyn yawl
Rosman
Rosmarin
Rosmarinus
Rosminian
Rosminianism
Rosmunda
Rosner
Rosol
Ross
Ross Barrier
Ross Dependency
Ross Ice Shelf
Ross Island
Ross Sea
Ross Shelf Ice
Ross and Cromarty
Rossbach
Rossburg
Rosse
Rosellini
Rossen
Rosser
Rousseauite
Roussel
Roussellian
Roussillon
Routh
Rouvin
Roux
Rouzerville
Rovaniemi
Rovelli
Rover
Rover Boy
Rovit
Rovner
Row
Rowan
Rowe
Rowell
Rowen
Rowena
Rowesville
Rowland
Rowlandson
Rowelian
Rowlesburg
Rowlett
Rowletts
Rowley
Rowleyan
Rowney
Rox
Roxana
Roxane
Roxanna
Roxanne
Roxas y Acuna
Roxboro
Roxburgh
Roxburghiaceae
Roxburghshire
Roxbury
Roxi
Roxie
Roxine
Roxobel
Roxolani
Roxton
Roxy
Roy
Royal
Royal Academy
Royal Air Force
Royal Air Force College
Royal Air Force List
Royal Australian Air Force
Royal Canadian Air Force
Royal Canadian Mounted Police
Royal Commission
Royal Engineers
Royal Highness
Royal Institution
Royal Kalendar
Royal Leamington Spa
Royal Majesty
Royal Marine
Royal Marines
Royal Military Academy
Royal Military College
Royal Naval College
Royal Navy
Royal Oak
Royal Society
Royal Tunbridge Wells
Royal Victorian Order
Royal Worcester
Royall
Royalton
Roybn
Royce
Royd
Roydd
Royden
Roye
Royena
Royersford
Royette
Royo
Royston
Roystonea
Roz
Rozalie
Rozalin
Rozamond
Rozanna
Rozanne
Roze
Rumi
Rumilly
Rumina
Ruminantia
Runney
Rumor
Rump Parliament
Rumpelstiltskin
Rumper
Rumpf
Rumsey
Rumson
Runa
Runa-simi
Runck
Runcorn
Rundbogenstil
Rundgren
Rundi
Rundstedt
Runge
Runge-Kutta method
Runion
Runkel
Runkle
Runnells
Runnemede
Runnymede
Runstadler
Runyon
Ruomulo Gallegos
Rupert
Ruperta
Ruperto
Ruphina
Rupicapra
Rupicaprinae
Rupicola
Rupicolinae
Ruppersberger
Ruppia
Ruprecht
Rural Dionysia
Ruralhall
Rurik
Ruritania
Ruritanian
Rus
Russian blue cat
Russian cross
Russian dandelion
Russian dressing
Russian olive
Russian poet
Russian roulette
Russian salad
Russian thistle
Russian wolfhound
Russian wormwood
Russian-owned
Russianisation
Russianise
Russianised
Russianising
Russianism
Russianist
Russianization
Russianize
Russianized
Russianizing
Russiaville
Russification
Russificator
Russifier
Russify
Russine
Russism
Russky
Russniak
Russo
Russo-
Russo-Japanese War
Russo-byzantine
Russo-caucasian
Russo-chinese
Russo-german
Russo-greek
Russo-japanese
Russo-persian
Russo-polish
Russo-serbian
Russo-swedish
Russo-turkish
Russolatrous
Russolatry
Russom
SCF
SCI
SCIFI
SCM
SCMS
SCO
SCOOPS
SCOT
SCOTS
SCP
SCPC
SCPD
SCR
SCRAM
SCS
SCSA
SCSI
SCT
SCTS
SCU
SCUBA
SCUD
SCX
SD
SDA
SDB
SDCD
SDD
SDF
SDH
SDI
SDIO
SDIS
SDL
SDLC
SDM
SDN
SDO
SDOC
SDP
SDR
SDRC
SDRs
SDS
SDSC
SDU
SDV
SE
SIGCAT
SIMD
SIMM
SINE
SINS
SIP
SIPC
SIPP
SIPS
SIR
SIRTF
SIS
SISAL
SISCOM
SIT
SITA
SJ
SJC
SJD
SKU
SL
SLA
SLADE
SLALOM
SLAM
SLAN
SLAPP
SLAR
SLBM
SLC
SLDC
SLE
SLED
SLIC
SLIM
SLIP
SLP
SLR
SLS
SLUFAE
SM
SMA
SMAS
SMASF
SMASPU
SMB
SMC
SMD
SMDF  
SMDI  
SMDR  
SMDS  
SME  
SMEX  
SMG  
SMI  
SMILS  
SMIT  
SMM  
SMO  
SMOC  
SMOH  
SMOP  
SMP  
SMPTE  
SMR  
SMS  
SMSA  
SMT  
SMTP  
SN  
SNA  
SNADS  
SNAFU  
SNAP  
SNCC  
SNCF  
SNET  
SNF  
SNM  
SNMP  
SNOBOL  
SNP  
SNPA  
SNR  
SNTSC  
SNU  
SO  
SOAC  
SOAP  
SOAR  
SOB  
SOC  
SOF  
SOFIA  
SOGAT
SQUID
SR
SRA
SRAM
SRB
SRBM
SRC
SRCN
SRD
SRI
SRM
SRN
SRO
SRP
SRS
SRTS
SS
SS Troops
SS-10
SS-11
SS-9
SSA
SSAP
SSAS
SSB
SSBAM
SSC
SSCP
SSD
SSDU
SEE
SSEL
SSF
SSFF
SSG
SSI
SSM
SSME
SSN
SSO
SSP
SSPC
SSPF
SSPRU
SSPS
SSR
SSRMS
SSS
SVR4
SVS
SVVS
SW
SW by S
SWA
SWAK
SWAN
SWAS
SWB
SWF
SWG
SWIFT
SWM
SWO
SWS
SWbS
SWbW
SX
SXS
SY
SYC
SYMPL
SYN
SYR
SYSGEN
Sa
Saad
Saad Haddad
Saad Jumaa
Saadi
Saadoun Hammadi
Saan
Saar
Saar Basin
Saarbren
Saarbrucken
Saare
Saaremaa
Saarinen
Saarland
Sab
Saba
Sabadell
Sabaean
Sabaeanism
Sabaenism
Saba
Sabah
Sabaim
Sabaist
Sabal
Sabalaceae
Saban
Sabanahoyos
Sabanaseca
Sabaoth
Sabathikos
Sabatier
Sabatini
Sabattus
Sabazian
Sabazianism
Sabazios
Saba
Sabbat
Sabbatarian
Sabbatarianism
Sabbatary
Sabbatean
Sabbath
Sabbath School
Sabbath day
Sabbath dress
Sabbath school
Sabbath-breaker
Sabbathaian
Sabbathaic
Sabbathaist
Sabbathbreaker
Sabbathbreaking
Sabbathism
Sabbathize
Sabbathkeeper
Sabbathkeeping
Sabbathless
Sabbathlike
Sabbathly
Sabattia
Sabattian
Sabbatic
Sabbatical
Sabbatically
Sabbaticalness
Sabatist
Sabbatization
Sacramento pike
Sacramento sturgeon
Sacre du Printemps, Le
Sacred College
Sacred College of Cardinals
Sacred Heart
Sacred Roman Rota
Sacred Writ
Sacrificati
Sacripant
Sacrobosco
Sacs
Sactler
Sacul
Sad
Sada
Sadachbia
Sadalmelik
Sadalsuud
Sadat
Saddam Hussein
Sadegh Ghothzadeh
Saddler
Sadducaic
Sadducean
Sadducee
Sadduceeism
Sadduceeist
Sadducism
Sadducize
Sade
Sadek el-Mahdi
Sadella
Sadhu Ittyavirah
Sadi
Sadi dervish
Sadick
Sadie
Sadie Hawkins Day
Sadieville
Sadira
Sadirah
Sadiras
Sadite
Sadler
Sadoc
Sadoff
Sadonia
Saint Anthony's fire
Saint Augustine
Saint Austell
Saint Bartholomew's Day Massacre
Saint Benoit
Saint Bernard
Saint Bernard Pass
Saint Catharines
Saint Christopher
Saint Christopher-Nevis-Anguilla
Saint Clair
Saint Croix
Saint Croix River
Saint David's
Saint David's Day
Saint Elias Mountains
Saint Elmo's fire
Saint Gall
Saint George's
Saint George's Channel
Saint George's Cross
Saint Gotthard
Saint Helena
Saint Helens
Saint Helier
Saint James's Palace
Saint Joan
Saint John
Saint John's
Saint John's bread
Saint John's wort
Saint Kilda
Saint Kitts
Saint Kitts-Nevis-Anguilla
Saint Laurent
Saint Lawrence
Saint Lawrence Seaway
Saint Leger
Saint Leonard
Saint Louis
Saint Lucia
Saint Luke's summer
Saint Martin
Saint Martin's summer
Saint Moritz
Saint Nicholas
Saint Nick
Saint Patrick's Day
Saint Paul
Saint Paul's
Saint Peter's
Saint Petersburg
Saint Pierre
Saint Pierre and Miquelon
Saint Pten
Saint Swithin's Day
Saint Thomas
Saint Valentine's Day
Saint Vincent
Saint Vitus's dance
Saint andrew
Saint bell
Saint bernard
Saint michael
Saint simon
Saint-Agathon
Saint-Brieuc
Saint-Cloud
Saint-Denis
Saint-Etienne
Saint-Exupery
Saint-Florentin
Saint-Gaudens
Saint-Just
Saint-L
Saint-Laurent
Saint-Louis
Saint-Marcellin
Saint-Maur-des-Fossé
Saint-Maure
Saint-Mihiel
Saint-Nazaire
Saint-Nectaire
Saint-Ouen
Saint-Pierre
Saint-Quentin
Saint-Sa
Saint-Simon
Saint-Simonian
Saint-Simonianism
Saint-Simonism
Saint-emilion
Saint-estephe
Saint-julien
Saint-milion
Saint-simonianism
Salaam
Salacia
Saladin
Salado
Salah Bitar
Salahi
Salaidh
Salamanca
Salamandra
Salamandridae
Salamandrina
Salambria
Salame
Salaminian
Salamis
Salamone
Salangi
Salangia
Salangidae
Salar
Salas
Salazar
Salba
Salbu
Salchunas
Saldee
Salduba
Sale
Saleem
Salem
Salem desk
Salem grass
Salema
Salemburg
Saleme
Salena
Salene
Salerno
Salesian
Salesin
Salesville
Salford
Salfordville
Salian
Saliaric
Salic
Salic law
Salicaceae
Sallybloom
Sallye
Salm
Salmacis
Salmagundi
Salman
Salman Rushdie
Salmanazar
Salmo
Salmon
Salmon River Mountains
Salmonella
Salmonidae
Salmoide
Salmoidei
Salol
Saloma
Salome
Salomi
Salomie
Salomo
Salomon
Salomone
Salomonia
Salomonian
Salomonic
Salonica
Salonika
Saloniki
Salop
Salopian
Salot
Salpa
Salpidae
Salpiglossis
Salpinx
Salsbury
Salsola
Salsolaceae
Salt Lake City
Salt creek
Salt river
Salta
Saltator
Saltatoria
Salten
Salter
Salterpath
Salters
Saltgum
Saltigradae
Saltillo
Saltlick
Salto
Salton Sea
Saltsburg
Saltsman
Saltville
Saltzman
Saluda
Saluki
Salukis
Salus
Salva
Salvador
Salvador Dali
Salvador Laurel
Salvadora
Salvadoraceae
Salvadoran
Salvadore
Salvadorian
Salvarsan
Salvation Army
Salvation Army bonnet
Salvation army
Salvationist
Salvator
Salvatore
Salvatore Briguglio
Salvay
Salve Regina
Salvelinus
Salvia
Salvidor
Salvini
Salvinia
Salviniaceae
Salviniales
Salvisa
Salvo
Salvucci
Salween
Salwey
Salyer
Salyersville
Salyut
Salzburg
Salzburg vitriol
Salzgitter
Salzhauer
Sam
Sam Bowie
Sam Browne belt
Sam Jankovich
Sam Wyche
Sam hill
Sama
Sama-Veda
Sama-veda
Samadera
Samain
Samal
Samal laut
Samala
Samale
Samalla
Saman
Samandura
Samani
Samanid
Samantha
Samanthia
Samar
Samara
Samarang
Samaria
Samaritan
Samaritaness
Samaritanism
Samarkand
Samarra
Samas
Samau
Sambal
Sambura
Sambathe
Sambo
Sambre
Sambucaceae
Sambucus
Samburg
Samburu
Samella
Sampson snakeroot
Sams
Samsam
Samsien
Samson
Samson Agonistes
Samson fish
Samson post
Samsoness
Samsonian
Samsonic
Samsonistic
Samsun
Samucan
Samucu
Samuel
Samuela
Samuele
Samuella
Samuelson
Samul
Samy
Samydaceae
San
San Antonio
San Bernardino
San Bernardino Pass
San Blas
San Buenaventura
San Cristbal
San Diego
San Fernando
San Fernando de Apure
San Franciscan
San Francisco
San Francisco Bay
San Ildefonso
San Jacinto
San Jacinto Day
San Jos
San Jose
San Jose de Cucuta
San Jose scale
San Juan
San Juan Bautista
San Juan Hill
San Juan Islands
San Juan Mountains
San Juan de la Cruz
San Luis Potos
San Marco
San Marino
San Mart
San Mateo
San Miguel
San Pablo
San Pablo Bay
San Pedro Sula
San Remo
San Saba
San Salvador
San Salvador Island
San Sebasti
San Stefano
San blas
San blas indian
San carlos apache
San ildefonso indian
San jacinto day
San juan indian
San kuo
San sebastian
San thome
San’a
Sana
Sanaa
Sanalda
Sanallat
Sanbo
Sanborn
Sanborne
Sanburn
Sancerre
Sancha
Sanchez
Sancho
Sancho Panza
Sancta Virgo Virginum
Sanctology
Sanctus
Sanctus bell
Sancus
Sancy
Sand
Sandakan
Sandalwood Island
Santarem
Santaria
Santayana
Santbech
Santee
Santeria
Santiago
Santiago de Chile
Santiago de Compostela
Santiago de Cuba
Santiago de los Caballeros
Santiago del Estero
Santini
Santo
Santo Domingo
Santo domingan
Santo domingo indian
Santolina
Santorin earth
Santoro
Santos
Santos-Dumont
Sanusi
Sanusis
Sanvitalia
Sanyakoan
Sanyu
Sao
Sao Paulo de Loanda
Saon
Saone
Saorstat
Saorstat Eireann
Saoshyant
Saperda
Sapers
Sapharenian
Saphra
Sapienza
Sapindaceae
Sapindales
Sapindus
Sapir
Sapium
Saponaria
Saponi
Sapota
Sapotaceae
Sapowith
Sapphara
Sapphic
Sapphic ode
Sapphira
Sapphire
Sapphism
Sapphist
Sappho
Sappho comet
Sapporo
Saprolegnia
Saprolegniaceae
Saprolegniales
Sapulpa
Saqqara
Sar
Sara
Sara Aldrete
Sara-Ann
Saraann
Sarabaite
Saracen
Saracenian
Saracenic
Saracenical
Saracenism
Saracenlike
Sarad
Sarada
Saragat
Saragosa
Saragossa
Sarah
Sarahann
Sarahsville
Saraiya
Sarajane
Sarajevo
Sarakolet
Sarakolle
Saraland
Saramaccaner
Saran
Saran wrap
Saranac
Saranac Lake
Saranac Lakes
Saransk
Sarasota
Sarasvati
Saratoga
Saratoga chip
Saratoga chop
Saratoga trunk
Saratogan
Saratov
Saravan
Sarawak
Sarawakese
Sarawan
Sarazen
Sarchet
Sarcina
Sarcobatus
Sarcococca
Sarcocolla
Sarcocystidea
Sarcocystis
Sarcodes
Sarcodina
Sarcogyps
Sarcophaga
Sarcophagidae
Sarcophilus
Sarcopsylla
Sarcopsyllidae
Sarcoptes
Sarcoptidae
Sarcorhamphus
Sarcosporida
Sarcosporidia
Sarcoxie
Sarcura
Sard
Sardanapalian
Sardanapallos
Sardanapalos
Sardanapalus
Sardegna
Sardella
Sardes
Sardian
Sardinia
Sardinian
Sardis
Saroyan
Sarpedon
Sarracenia
Sarraceniaceae
Sarraceniales
Sarraute
Sarre
Sarsar
Sarsechim
Sarsi
Sarson
Sart
Sartell
Sarthe
Sartin
Sartish
Sarto
Sarton
Sartre
Sartrian
Sartrianism
Saruk
Sarum
Sarum missal
Sarum office
Sarum rubric
Sarum use
Sarvarthasiddha
Sarven hub
Sarver
Sarvodaya
Sarzan
Sasabe
Sasak
Sasakwa
Sasame-yuki
Sascha
Sasebo
Saseno
Sasha
Sashenka
Sask
Saskatchewan
Saskatoon
Sasnett
Saspamco
Sass
Sassak
Sassamansville
Sassan
Sassanian
Sassanid
Sassanidae
Sassanide
Sassanids
Sassari
Sassella
Sassenach
Sassenage
Sasser
Sasserides
Sassetta
Sassoon
Sastean
Sat
Sat-chit-ananda
Sat-cit-ananda
Satan
Satan worshiper
Satanael
Satanas
Satanism
Satanist
Satanistic
Satanity
Satanology
Satanophobic
Satanophany
Satanophil
Satanophobia
Satanship
Satanta
Satartia
Satcitananda
Sateia
Sathrum
Satie
Satieno
Satin Slipper, The
Sato
Satrac
Satsop
Satsuma
Satsuma anthracnose
Satsuma ware
Satterfield
Saukville
Saul
Saul of Tarsus
Sauls
Saulsbury
Sault
Sault Sainte Marie
Sault Sainte Marie Canals
Sault whitefish
Saulteur
Saum
Saumur
Sauncho
Saunner
Saunders
Saunderson
Saunderstown
Saundra
Saunemin
Saquoit
Saura
Sauraseni
Saurashtra
Sauraia
Saurauia
Saurauiaceae
Sauria
Saurischia
Sauroctonos
Saurodontidae
Sauropnathae
Sauromatian
Sauropoda
Sauropsida
Sauropterygia
Saurornithes
Saururaceae
Saururae
Saururus
Sausa
Sausalito
Saussure
Saussurea
Sautee
Sauternes
Sauttoirs
Sauvagesia
Sauveur
Sauvignon blanc
Saxe
Saxe blue
Saxe-Altenburg
Saxe-Coburg-Gotha
Saxe-Meiningen
Saxe-Weimar-Eisenach
Saxen
Saxena
Saxeville
Saxicava
Saxicola
Saxicolidae
Saxicolinae
Saxifraga
Saxifragaceae
Saxis
Saxish
Saxo Grammaticus
Saxon
Saxon blue
Saxonburg
Saxondom
Saxonian
Saxonic
Saxonical
Saxonically
Saxonish
Saxonism
Saxonist
Saxonite
Saxonization
Saxonize
Saxonly
Saxony
Saxony green
Saxton
Say
Say's law
Sayal
Sayal brown
Sayan Mountains
Sayan samoyedic
Sayao
Saybrook
Sayce
Sayed
Sayer
Sayers
Schaaff
Schabzieger
Schach
Schacht
Schacker
Schadenfreude
Schaefer
Schaeffer
Schaefferia
Schaefferstown
Schaeberk
Schafer
Schafer method
Schafer's method
Schaffel
Schaffer
Schaffhausen
Schaghticoke
Schaller
Schalles
Schantz
Schaper
Schapira
Scharaga
Scharf
Scharff
Schargel
Scharlachberger
Scharmhorst
Scharwenka
Scharry
Schatz
Schatz
Schaumberger
Schaumburg
Schaumburg-Lippe
Schberg
Scheer
Scheat
Schechinger
Schechter
Scheck
Schecter
Schedar
Schedius
Scheel
Scheele
Scheer
Scheers
Schippers
Schiro
Schisandra
Schisandraceae
Schistocerca
Schistosoma
Schizaea
Schizaeaceae
Schizanthus
Schizognathae
Schizogregarinae
Schizogregarinida
Schizolaenaceae
Schizomeria
Schizomycetes
Schizonemertea
Schizoneura
Schizontus
Schizopetalon
Schizophragma
Schizophyceae
Schizophyllum
Schizophyta
Schizopoda
Schizotrypanum
Schlater
Schlauraffenland
Schlegel
Schleicher
Schleiden
Schleiermacher
Schlenger
Schlesien
Schlesinger
Schlessel
Schlessinger
Schleswig
Schleswig-Holstein
Schley
Schlicher
Schlick
Schlieffen
Schliemann
Schlitz
Schloss
Schloss johannisberger
Schloss vollrads
Schlosser
Schoodic
School
School for Scandal, The
School of Law
School of Mind
Schoolcraft
Schoolman
Schools
Schopenhauer
Schopenhauereanism
Schopenhauerian
Schopenhauerism
Schott
Schottky
Schottky noise
Schou
Schouten
Schouten Islands
Schow
Schrader
Schram
Schramke
Schringer
Schrödinger
Schrödinger equation
Schrebera
Schreck
Schrecklichkeit
Schreib
Schreibe
Schreiber
Schreibman
Schröck
Schriever
Schroder
Schrodinger
Schrodinger atom
Schrodinger equation
Schrodinger theory
Schroeder
Schroedinger
Schroer
Schroth
Schrund
Schubert
Schug
Schuh
Schwenkfeldian
Schwerin
Schwertner
Schwing
Schwinn
Schwitters
Schwitzer
Schwyz
Sci
Sciadopitys
Sciaena
Sciaenidae
Sciaeniformes
Scian
Sciara
Sciaridae
Sciarinae
Scibert
Science and Technology
Scientific
Scientist
Scientology
Scilla
Scillitan
Scillonian
Scilly Islands
Scilly Isles
Scincidae
Scincomorpha
Scincus
Scio
Sciot
Sciota
Scioto
Scipio
Scirophoria
Scirophorion
Scirpus
Scirtopoda
Scissurella
Scissurellidae
Scitaminales
Scitamineae
Scituate
Sciuridae
Sciuromorpha
Sciuropterus
Sciurus
Scopp
Scopularia
Scopulipedes
Scopus
Scoresby
Scornik
Scorpaena
Scorpaenidae
Scorpidae
Scorpididae
Scorpii
Scorpiid
Scorpio
Scorpioidea
Scorpion
Scorpionidae
Scorpionidea
Scorpiosis
Scorpiurus
Scorpius
Scorzonera
Scot
Scotch
Scotch Blackface
Scotch Gaelic
Scotch Plains
Scotch and soda
Scotch and water
Scotch broom
Scotch broth
Scotch catch
Scotch cress
Scotch egg
Scotch foursome
Scotch furnace
Scotch hearth
Scotch kisses
Scotch mist
Scotch pancake
Scotch pine
Scotch reel
Scotch rose
Scotch snap
Scotch tape
Scotch terrier
Scotch thistle
Scotch whiskey
Scotch whisky
Scotch woodcock
Scotch-Irish
Scotch-gaelic
Scotch-irish
Scotch-misty
Scotchery
Scotchification
Scotchify
Scotchiness
Scotchman
Scotchness
Scotchwoman
Scotchy
Scoter
Scotia
Scotic
Scotism
Scotist
Scotistic
Scotistical
Scotize
Scotland
Scotland Neck
Scotland Yard
Scotland yard
Scotland yarder
Scotlandwards
Scotney
Scoto-Gaelic
Scoto-allic
Scoto-britannic
Scoto-celtic
Scoto-english
Scoto-irish
Scoto-norman
Scoto-norwegian
Scoto-saxon
Scoto-scandinavian
Scots
Scots Gaelic
Scots Guards
Scots pine
Scotsman
Scotsmen
Scotswoman
Scott
Scott Arniel
Scott Bjugstad
Scott Hoch
Scott connection
Scott-connected
Scottsdale
Scotti
Scotticism
Scotticize
Scottie
Scotties
Scottification
Scottify
Scottish
Scottish Gaelic
Scottish blackface
Scottish deerhound
Scottish rite
Scottish star
Scottish terrier
Scottish-irish
Scottisher
Scottishly
Scottishman
Scottishness
Scottown
Scotts
Scottsbluff
Scottsboro
Scottsburg
Scottsdale
Scottsmoor
Scottsville
Scottville
Scotty
Scotus
Scouse
Scout
Scouting
Seoville
Scrabble
Scranton
Scratch
Screens
Screven
Scriabin
Scribe
Scribner
Scribners
Scripps
Script
Scripturalism
Scripturalist
Scripturality
Scripturarian
Scripture
Scriptured
Scriptureless
Scripturism
Scripturist
Scriven
Scrivenor
Serivens
Serivings
Scrogan
Scroggins
Scrooge
Scrope
Serophularia
Serophulariaceae
Scrovegni Chapel
Seuddy
Seudery
Seulley
Sculley
Scully
Sculptor
Sculptor's Tool
Sculptorid
Sculptoris
Scunthorpe
Scurlock
Scutari
Scutellaria
Scutelleridae
Scuti
Scutibranchia
Scutigera
Scutigeridae
Scutt
Scutum
Scutum Sobieskii
Scylaceus
Seyld
Seylla
Seylla and Charybdis
Scylla
Scyllae
Seaford
Seafort
Seafortia
Seafowl
Seaghan
Seagirt
Seagoville
Seagram
Seagrove
Seagrves
Seahurst
Seal Beach
Seale
Sealston
Sealy
Sealyham
Sealyham terrier
Seaman
Seamas
Seami
Seamus
Sean
Seana
Seanad ann
Seanor
Searby
Searcy
Searle
Searles
Sears
Searsboro
Searsmont
Searsport
Seasan
Seaside
Season
Seat Pleasant
Seated Scribe
Seaton
Seaton Valley
Seatonville
Seattle
Seaver
Seavey
Seaview
Seavir
Seba
Sebago salmon
Secretariat
Secretary of Agriculture
Secretary of Commerce
Secretary of Defense
Secretary of Health
Secretary of Labor
Secretary of State
Secretary of State for Defence
Secretary of State for Scotland
Secretary of State for Wales
Secretary of Transportation
Secretary of the Interior
Secretary of the Treasury
Secs
Sectary
Secunda
Secundas
Secunderabad
Securifera
Securigera
Security Council
Security council
Seda
Sedaceae
Sedale Threatt
Sedalia
Sedan
Sedang
Sedberry
Sedda
Seddon
Sedecias
Sedentaria
Seder
Sedgemoor
Sedgewake
Sedgewick
Sedgewickville
Sedgewinn
Sedgwick
Sedley
Sedlik
Sedona
Sedrah
Sedrahs
Sedroth
Sedum
See
See of Rome
Seebeck
Seebeck effect
Seed
Seeder
Seedman
Seeger
Seeing Eye dog
Seekerism
Seekonk
Seel
Seeland
Seeley
Seely
Seelyville
Seem
Seema
Seen
Seena
Seessel
Seething Bay
Seeto
Sefekhet
Sefer Torah
Sefer Torahs
Seferiades
Seferis
Seffner
Seften
Sefton
Seftton
Segal
Segalman
Seger cone
Seginus
Segner
Segni
Segovia
Segre
Seguin
Segundo
Segura
Sehna knot
Seiber
Seibert
Seibold
Seid
Seidel
Selina
Selinda
Seline
Selingsgrove
Selinski
Selinunten
Seljuk
Seljukian
Selkirk
Selkirk Mountains
Selkirk bannock
Selkirkshire
Sell
Sella
Sellars
Selle
Sellers
Sellersburg
Sellersville
Selli
Sellma
Sello
Sellotape
Sells
Selma
Selmer
Selmner
Selmore
Selry
Selter
Seltzer
Seltzer water
Selung
Selway
Selwin
Selwyn
Selz
Selznick
Sem
Semaeostomae
Semaeostomata
Semal laut
Semaleus
Semang
Semangs
Semarang
Sembrieh
Semecarpus
Semela
Semele
Semenov
Semeostoma
Semeru
Semi-Bantu
Semi-apollinarism
Semi-arian
Semi-arianism
Semi-augustinian
Semi-bantu
Semi-belgian
Semi-bessemer
Semi-bohemian
Semi-bolsheviki
Semi-christian
Semi-christianized
Semi-darwinian
Semi-dutch
Semi-empire
Semi-euclidean
Semi-frenchified
Semi-gnostic
Semi-gothic
Semi-jesuit
Semi-judaizer
Semi-manichaeanism
Semi-norman
Semi-patriot
Semi-pelagian
Semi-pelagianism
Semi-pythagorean
Semi-romanism
Semi-romanized
Semi-russian
Semi-sadducee
Semi-sadduceeism
Semi-sadducism
Semi-saxon
Semi-slav
Semi-southern
Semi-tatar
Semi-tory
Semi-tychonic
Semi-zionism
Semiahmoo
Semillon
Seminole
Seminoles
Semionotidae
Semionotus
Semipalatinsk
Semiramis
Semiramize
Semite
Semitic
Semitic deities
Semitic deity
Semiticism
Semiticize
Semitico-hamitic
Semitics
Semitism
Semitist
Semitization
Semitize
Semito-Hamitic
Semito-hamite
Semito-hamitic
Semmes
Semnae
Semnones
Semnopithecinae
Semnopithecus
Semo Sancus
Semo sancus
Semon Knudsen
Semora
Semostomae
Sempach
Sempervivum
Sen
Sen-tamil
Sena
Senaah
Senalda
Senate
Senath
Senatobia
Senci
Sendai
Sender
Seneca
Seneca Falls
Seneca Lake
Seneca grass
Seneca snakeroot
Senecal
Senecan
Senecan tragedy
Senecaville
Senecio
Senefelder
Senegal
Senegalese
Senegambia
Senegambian
Seney
Senghor
Senhauser
Senijextee
Senior
Senlac
Senn
Senna
Senna knot
Sennacherib
Sennadiy Zakhorov
Sennar
Sennett
Senoia
Senones
Senonian
Senora
Sense and Sensibility
Sension
Sensitol green
Senskell
Sentinel
Sensus
Sensusian
Sensusis
Sensusism
Senussi
Senussian
Senussism
Senzer
Seo de Urgel
Seoul
Seow
Sep
Separatist
Sepharad
Sephardi
Sephardic
Sephardim
Sepharvites
Sepher Torah
Sepher Torahs
Sephira
Sephora
Sepiidae
Sepioidea
Sepiola
Sepiolidae
Sepiy
Sepoy
Sepoy Mutiny
Sepoy Rebellion
Seppala
Sepsidae
Sept
September
September Massacre
September elm
Septemberer
Septemberism
Septemberist
Septembral
Septembrian
Septembrist
Septembrire
Septembrizer
Septentrio
Septentrion
Septi
Septibranchia
Septibranchiata
Septima
Septmoncel
Septobasidium
Septocylindrium
Septogloeum
Septoria
Septuagesima
Septuagesima Sunday
Septuagint
Septuagintal
Sepulveda
Sequan
Sequani
Sequanian
Sequatchie
Sequim
Sequoia
Sequoia National Park
Sequoya
Sequoyah
Sera
Serabend
Serafin
Serafina
Serafine
Serajevo
Seram
Serang
Serapea
Serapeum
Serapeums
Seraphim
Seraphina
Seraphine
Serapias
Serapic
Serapis
Serapist
Serb
Serb-croat-slovene
Serbdom
Serbia
Serbian
Serbize
Serbo-Croatian
Serbo-bulgarian
Serbo-croat
Serbo-croatian
Serbonian
Serbophile
Serbophobe
Sercq
Sere
Serean
Seree
Seremban
Serena
Serendib
Serendip
Serene
Serene Highness
Serene Majesty
Serenitatis
Serenity
Serenoa
Serer
Seres
Sereth
Seretse Khama
Serg
Serge
Sergeant
Sergeant baker
Sergeantsville
Sergei
Sergei Akhromeyev
Sergei Borisov
Sergei Bubka
Sergei Kauzov
Sergei Makarov
Sergent
Sergestus
Sergias
Sergio
Sergio Fenoaltea
Sergipe
Sergius
Sergius I
Sergius II
Sergo
Sergt
Sergu
Seri
Serian
Seric
Serica
Sericana
Sericocarpus
Series E bond
Series H bond
Seriform
Serilda
Seringapatam
Serinus
Seriola
Seriolidae
Serjania
Serkin
Serle
Serles
Serlio
Sermon on the Mount
Seroka
Serov
Serpari
Serpasil
Serpens
Serpent
Serpent Bearer
Serpent Sea
Serpent bearer
Serpentarian
Serpentarii
Serpentarius
Serpentes
Serpentian
Serpentid
Serpentinian
Serpentis
Serphidae
Serphoidea
Serpollet type
Serpukhov
Serpula
Serpulae
Serpulidae
Serra
Serra da Estrela
Serranidae
Serrano
Serranus
Serrasalmo
Serratia
Serrell
Serricornia
Serridentines
Serridentinus
Serrifera
Sert
Sertorius
Sertularia
Sertulariidae
Serva Padrona La
Servais
Server
Servetian
Servetianism
Servetnick
Servetus
Setubal
Seumas
Seung-hwa Chung
Seurat
Seuss
Sev
Sevan
Sevastopol
Seve
Seve Ballesteros
Seven Cities of Cibola
Seven Hills
Seven Hills of Rome
Seven Sages
Seven Seas
Seven Sisters
Seven That Were Hanged
Seven Weeks' War
Seven Wise Masters
Seven Wise Men of Greece
Seven Wonders of the World
Seven Years' War
Seven against Thebes
Sevener
Sevenmile
Seventh Avenue
Seventh-Day Adventist
Seventy
Severance
Severen
Severian
Severin
Severini
Severinus
Severn
Severnaya Zemlya
Severo
Seversky
Severson
Severus
Severy
Sevierville
Sevigne
Sevik
Seville
Seville orange
Sevillian
Sevres ware
Sewanee
Seward
Seward Peninsula
Seward's Day
Sewaren
Sewel
Sewell
Sewellyn
Sewickley
Sewole
Sewoll
Sexagesima
Sexagesima Sunday
Sexagesima sunday
Sextans
Sextant
Sextantis
Sextilis
Sexton
Sextonville
Sextus
Seychelles
Seyfert galaxy
Seyhan
Seyler
Seymeria
Seymour
Seys
Seysssel
Sezen
Sezession
Sfax
Sfd
Sforza
Sgad
Sgt
Sgt Maj
Shaba
Shaban
Shabdas
Shabbas goy
Shabbat
Shabbath
Shabbir
Shabbona
Shabuoth
Shacharith
Shacklefords
Shackleton
Shadai
Shaddock
Shadow
Shadrach
Shadwell
Shadydale
Shadyside
Shae
Shaefer
Shaeffer
Shaer
Shafer
Shaff
Shaffer
Shaffert
Shafiite
Shafter
Shaftesbury
Shaftburg
Shaftsbury
Shagia
Shah
Shah Jahan
Shah Jehan
Shahada
Shahansha
Shahaptian
Shahaptians
Shaharith
Shahjahanpur
Shahpour Bakhtiar
Shaia
Shaigia
Shaikh
Shaikyeh
Shaina
Shaine
Shaitan
Shaiva
Shaivism
Shaivite Hinduism
Shak
Shaka
Shaker
Shaker Heights
Shaker flannel
Shakerdom
Shakeress
Shakerism
Shakerlike
Shakers
Shakespeare
Shakespeare-Bacon controversy
Shakespearean
Shakespearean sonnet
Shakespeareana
Shakespeareanism
Shakespeareanly
Shakespearian
Shakespearianism
Shakespearize
Shakespearolater
Shakespearolatry
Shakhty
Shakopee
Shaks
Shakspere
Shaksperian
Shaksperianism
Shakta
Shakti
Shaktism
Shakuntala
Shakyamuni
Shala
Shalako
Shalako dancer
Shalimar
Shallotte
Shallowater
Shalmaneser III
Shalna
Shalne
Shalom
Sham
Shama
Shamash
Shambala
Shambaugh
Shambu
Shamma
Shammai
Shammar
Shamo
Shamokin
Shamrao
Shamrock
Shamus
Shan
Shan State
Shana
Shanahan
Shanan
Shanda
Shandaken
Shandean
Shandee
Shandeigh
Shandie
Shandon
Shandra
Shandy
Shandyism
Shane
Shaner
Shang
Shang-ti
Shangaan
Shangalla
Shanghai
Shango
Shangri-la
Shani
Shanie
Shaniko
Shank
Shankar
Shankara
Shankaracharya
Shanks
Shanksville
Shanleigh
Shanley
Shanly
Shanna
Shannah
Shannan
Shannen
Shanney
Shanock
Shannon
Shannontown
Shanon
Sharrie
Sharron
Shartlesville
Sharunas Marchulenis
Sharyl
Sharyn
Shasta
Shasta cypress
Shasta daisy
Shastan
Shatt-al-Arab
Shattuc
Shattuck
Shattuckville
Shatzer
Shauck
Shaughn
Shaughnessy
Shaula
Shaum
Shaun
Shauna
Shaver
Shavese
Shavian
Shaviana
Shavianism
Shavuot
Shavuoth
Shaw
Shawanee
Shawanese
Shawano
Shawboro
Shawmut
Shawn
Shawna
Shawnee
Shawneetown
Shawon Dunston
Shawsville
Shawver truss
Shawville
Shawwal
Shay
Shaya
Shayla
Shaylah
Shaylyn
Shaylynn
Shayn
Shayna
Shayne
Shays
Shays' Rebellion
Shaysite
Shazar
Shcheglovsk
Shcherbakov
She Stoops to Conquer
She-greek
Shea
Sheaff
Sheakleyville
Shear
Shearer
Sheba
Shebat
Sheboygan
Shechem
Shechemites
Shechina
Shechinah
Sheed
Sheedir
Sheeds
Sheeb
Sheedy
Sheehan
Sheela
Sheelagh
Sheelah
Sheeler
Sheen
Sheena
Sheene
Sheepshanks
Sheeran
Sheeree
Sheerness
Sheetrock
Sheets
Sheff
Sheffie
Sheffield
Sheffield Lake
Sheffield plate
Sheffy
Shehab
Sheik Abdul Karim Obeid
Sheik Hassan Bey Salameh
Sheikh ul islam
Sheila
Sheila-Kathryn
Sheilah
Sheitan
Shekinah
Shel
Shela
Shelagh
Shelah
Shelba
Shelbi
Shelbiana
Shelbina
Shelburn
Shelburne
Shelby
Shelbyville
Sheldahl
Shelden
Sheldon
Sheldonville
Shelepin
Sheley
Shelia
Sheline
Shell
Shellans
Shelley
Shelleyan
Shelleyana
Shelli
Shellian
Shellie
Shellman
Shellsburg
Shelly
Shelman
Shelocta
Shelta
Shelton
Shelyak
Shem
Shema
Shemaka
Shembe
Shemite
Shemitic
Shemitish
Shemoneh Esreh
Shemu
Shen
Shena
Shenan
Shenandoah
Shenandoah National Park
Sheng
Shenshai
Shensi
Shenstone
Shenyang
Sheol
Shep
Shepard
Shepard king
Shepardsville
Shepherd
Shepherd King
Shepherdia
Shepherdstown
Shepherdsville
Shepley
Sheply
Shepp
Sheppard
Sheppard's adjustment
Shepperd
Sheppton
Sher
Sherani
Sherar
Sherard
Sherardia
Sheratan
Sheraton
Sherborn
Sherborne
Sherbrooke
Sherburn
Sherburne
Shere
Shesha
Shetland
Shetland Islander
Shetland Islands
Shetland lace
Shetland pony
Shetland sheep dog
Shetland sheepdog
Shetland wool
Shetlander
Shetlandic
Shetrit
Shevat
Shevlin
Shevlo
Shewchuk
Shewmaker
Sheya
Sheyenne
Shia
Shiah
Shiau
Shickley
Shickshinny
Shidler
Shieh
Shiekh
Shield of David
Shields
Shien
Shiff
Shifra
Shifrah
Shig
Shiga bacillus
Shigella
Shih
Shih Ching
Shih King
Shihchiachuang
Shii
Shiism
Shiite
Shiite Muslimism
Shiitic
Shik
Shikibu
Shikoku
Shockley
Shoemaker
Shoemaker's Holiday, The
Shoemakersville
Shoestring district
Shohola
Shoifet
Shojo
Shokan
Sholapur
Sholean
Sholem
Sholes
Sholley
Sholokhov
Sholom
Shona
Shongaloo
Shopville
Shor
Shore
Shorea
Shoreham
Shoreview
Shorewood
Shornick
Short
Shorter
Shorter Catechism
Shorterville
Shorthorn
Shortia
Shortsville
Shortzy
Shoshana
Shoshanna
Shoshone
Shoshonean
Shoshonean-nahuatlan
Shoshones
Shoshoni
Shoshonis
Shostakovich
Shotton
Shotweld
Shotwell
Showa
Showell
Showers
Showker
Showlow
Shree
Shreeves
Shreve
Shreveport
Shrewsbury
Shrier
Shrine
Shriner
Shriver
Shropshire
Shropshire Lad, A
Shrove
Shrove Monday
Shrove Sunday
Shrove Tuesday
Shrove cake
Shrovetide
Shtokavski
Shu
Shubert
Shubuta
Shue
Shufu
Shug Mcghaughey
Shugart
Shuha
Shuhali
Shukria
Shukulumbwe
Shulamite
Shulamith
Shulem
Shuler
Shulerville
Shulins
Shull
Shullsburg
Shulman
Shulock
Shult
Shultz
Shum
Shuma
Shuman
Shumway
Siberia
Siberian
Siberian Husky
Siberian crab apple
Siberian high
Siberian husky
Siberian larkspur
Siberian ruby
Siberian tiger
Siberian wallflower
Siberian-americanoid
Siberic
Siberson
Sibie
Sibilla
Sibiric
Sibiu
Sible
Siblee
Sibley
Sibley tent
Sibyl
Sibylla
Sibylle
Sibylline Books
Sibyls
Sic
Sicambri
Sicambrian
Sicana
Sicani
Sicanian
Sicard
Sicel
Siceliot
Sices
Sichuan
Sicilia
Sicilian
Sicilian Vespers
Sicilian umber
Sicilianism
Sicilies Two
Sicilo-norman
Sicily
Sickert
Sickerville
Siclari
Sicular
Siculi
Siculian
Siculo-arabian
Siculo-moresque
Siculo-norman
Siculo-phoenician
Siculo-punic
Sicyon
Sicyonian
Sicyonic
Sicyos
Sid
Sida
Sidalceaea
Siddha
Siddhanta
Siddhartha
Siddhi
Siddon
Siddons
Siddra
Sidell
Sidera lodoicea
Sideritis
Sideroxylon
Sidewinder
Sidgwick
Sidhu
Sidi Ifni
Sidi-bel-Abb
Sidky
Sidman
Sidnaw
Sidnee
Sidney
Sidney Moncrief
Sidoma
Sidon
Sidoney
Sidonia
Sidonian
Sidonie
Sidonius
Sidonnie
Sidoon
Sidra
Sidrach
Sidrah
Sidrahs
Sidran
Sidras
Sidroth
Sidur
Sidwel
Sidwell
Sidwohl
Sieber
Sieg
Sieg Heil
Siegbahn
Siege Perilous
Siegel
Siegfried
Siegfried line
Siegler
Sieglinga
Siegmund
Sielen
Siemens
Siemreap
Sien-pi
Siena
Sienese
Sienese school
Sienkiewicz
Sieper
Siepi
Sieracki
Sierra
Sierra Bia
Sierra Club
Sierra Leone
Sierra Madre
Sierra Morena
Sierra Nevada
Sierra lily
Sierraville
Siesser
Sieur
Sieva
Sievers
Sieversia
Sievert
Siey
Sif
Sifatite
Siffer
Sifnos
Sifrei Torah
Sig
Siganidae
Siganus
Sigaultian
Sigel
Sigfrid
Sigfried
Siggeir
Sigillaria
Sigillariaceae
Sigismond
Signac
Sign up
Signal Hill
Signal Mountain
Signe
Signor
Signora
Signorelli
Signy
Sigourney
Sigrid
Sigsbee
Sigmund
Sigurd
Sigvard
Sigyn
Sihanouk
Sihasapa
Sihon
Sihonn
Sihun
Sikh
Sika
Sikandarabad
Sikang
Sikata
Sikes
Sikeston
Sikh
Sikhism
Siking
Sikinnis
Sikkim
Sikkimese
Sikko
Sikorski
Sikorsky
Siksika
Sil
Silas
Silas Marner
Silastic
Silber
Silberman
Silda
Silden
Sile
Sileas
Silenaceae
Silenales
Silene
Silent Don, The
Silenus
Siler
Silerton
Silesia
Silesian
Siletz
Silex
Silicea
Silicispongiae
Silicoflagellata
Silicoflagellatae
Silicoflagellidae
Silicoidea
Silicospongiae
Silin
Silipan
Siliquaria
Siliquariidae
Sill
Silverstar
Silverstein
Silverstreet
Silverton
Silverts
Silverwood
Silvester
Silvester I
Silvester II
Silvestro
Silvia
Silvie
Silvio
Silvio Conte
Silvis
Silvius
Silvni
Silybum
Sim
Sima
Simaba
Simah
Simarouba
Simaroubaceae
Simbirsk
Simblum
Simchath Torah
Simdars
Simeon
Simeon Stylites
Simeonism
Simeonite
Simferopol
Simhath Torah
Simhath torah
Simi Valley
Simia
Simiidae
Simiinae
Simionato
Simla
Simmel
Simmesport
Simmie
Simmonds
Simmons
Simms
Simnel sunday
Simois
Simoisius
Simon
Simon Legree
Simon Magus
Simon Peter
Simon Youl
Simon Zelotes
Simona
Simone
Simonetta
Simonette
Simonian
Simonianism
Simonides
Simonist
Simonne
Simonov
Simons
Simonsen
Simonson
Simonton
Simosaurus
Simpelius
Simpkins
Simple Simon
Simplicidentata
Simplicius
Simplon
Simplon Pass
Simpson
Simpson Desert
Simpsonville
Sims
Simsar
Simsboro
Simsbury
Simson
Simuliidae
Simulium
Sin
Sina
Sinae
Sinaean
Sinai
Sinai Peninsula
Sinaic
Sinaitic
Sinaloa
Sinan
Sinanthropus
Sinanthropus pekinensis
Sinapis
Sinarquist
Sinarquista
Sinarquistas
Sinas
Sinatra
Sinbad
Sinclair
Sinclairville
Sinclare
Sind
Sindbad the Sailor
Sindee
Sindhi
Sine
Sinegold
Sinesian
Sinfiotli
Sinfiotli
Sing Sing
Singan
Singapore
Singband
Singer
Singfo
Singh
Singhal
Singhalese
Singleton
Singpho
Singsing
Singspiel
Sinhailien
Sinhalese
Sinian
Sinic
Sinicism
Sinicism
Sinicization
Sinicize
Sinicized
Sinicizing
Sinico
Sinico-japanese
Sinification
Sint Maarten
Sinto
Sintoism
Sintoist
Sinton
Sintsink
Sintu
Sinuiju
Sinupallia
Sinupallialia
Sinupalliata
Sinus
Sinus Aestuum
Sinus Astronautarum
Sinus Medii
Sinus Meridianii
Sinus of Valsalva
Siobhan
Sion
Sionite
Siouan
Sioux
Siouxie
Sipesville
Siphnos
Siphonales
Siphonaptera
Siphonaria
Siphonariidae
Siphonata
Siphoneae
Siphoniata
Siphonifera
Siphonobranchiata
Siphonocladales
Siphonocladales
Siphonogama
Siphonognathidae
Siphonognathus
Siphonophora
Siphonostoma
Siphonostomata
Sipheri Torah
Siphunculata
Sipibo
Siple
Sippar
Sipple
Siryan
Sis
Sisak
Sisco
Sisely
Sisera
Sisile
Sisinnius
Siskind
Sisley
Sismondi
Sisouk Na Champassak
Sissel
Sisseton
Sissie
Sisson
Sissu
Sissy
Sistani
Sister
Sister of Charity
Sister of Loretto
Sister of Mercy
Sister of Providence
Sisters
Sistersville
Sistine
Sistine Chapel
Sistine Madonna
Sisto
Sistrurus
Sisymbrium
Sisyphean
Sisyphean labor
Sisyphean task
Sisyphean toil
Sisyphian
Sisyphides
Sisyphism
Sisyphist
Sisyphus
Sisyrinchium
Sita
Sitarski
Sithole
Sitka
Sitka cypress
Sitka spruce
Sitkan
Sitnik
Sitophilus
Sitra
Sitsang
Sitta
Sitter
Sittidae
Sittinae
Sitting Bull
Sitwell
Subhan
Sium
Siusan
Siusi
Siuslaw
Siva
Sivaism
Sivaist
Sivaistic
Sivaite
Sivan
Sivapithecus
Sivas
Sivatheriidae
Sivatheriinae
Sivatherium
Sivia
Sivie
Siwan
Siward
Siwash
Six
Six Counties
Six Day War
Six Nations
Six-principle baptist
Sixes
Sixmile
Sixtine
Sixtowns
Sixtus
Sixtus III
Sixtus IV
Sixtus V
Sjaelland
Sjenicki
Sjland
Skin of Our Teeth, The
Skinner
Skinner box
Skinnerian psychology
Skip
Skipetar
Skipp
Skippack
Skipper
Skippers
Skipperville
Skippie
Skippy
Skipton
Skipwith
Skirnr
Skirphoria
Skitswish
Skittaget
Skittagetan
Skivvies
Skkvbekk
Sklar
Skodaic
Skoinolon
Skokie
Skokomish
Skolnik
Skopets
Skopje
Skoplje
Skowhegan
Skricki
Skros
Skrymir
Skt
Skuld
Skupshtina
Skurnik
Skutari
Skutchan
Skvorak
Sky
Skybolt
Skye
Skye terrier
Skykomish
Skyla
Slavo-lithuanian
Slavo-phoenician
Slavo-teuton
Slavo-teutonic
Slavonia
Slavonian
Slavonianize
Slavonic
Slavonically
Slavonicize
Slavonish
Slavonism
Slavonization
Slavonize
Slavophil
Slavophile
Slavophilism
Slavophobe
Slavophobia
Slavophobist
Slayden
Slayton
Sidney
Sleb
Sleep
Sleepers
Sleepy Eye
Sleepy Hollow chair
Sleepyeye
Sleipnir
Stemmer
Slep
Slesvig
Sleswick
Sletten
Slezsko
Slickville
Slide Mountain
Slidell
Slifka
Sligo
Slim
Slinger
Slinkman
Slipcote
Slippery Rock
Sliwa
Sloan
Smoky Mountains
Smolan
Smolensk
Smollett
Smoos
Smoot
Smriti
Smucker
Smukler
Smuts
Smyer
Smyrna
Smyrna fig
Smyrnaite
Smyrnean
Smynriot
Smyrniote
Smyth sewing
Smythe
Sn
Snake River
Snaky-footed
Snapp
Snark
Snashall
Sneads
Sneed
Sneedville
Snefru
Snell
Snell's law
Snelling
Snellius
Snellville
Snemovna
Sngerfest
Snider
Sno-Cat
Snoddy
Snodgrass
Snohomish
Snonowas
Snook
Snoqualmie
Snoqualmie Falls
Snoquamish
Snorri Sturluson
Snover
Snow
Snowball
Snowber
Snowdon
Snowdonia
Snowdonian
Snowman
Snowmass
Snows of Kilimanjaro, The
Snowville
Snowy Mountains
Snowy River
Sn
Snyder
Snydersburg
So
Soane
Soares
Sobel
Sobers
Soble
Sobor
Sobralia
Sobranje
Soc
Socha
Soche
Socher
Sochi
Sochor
Social Credit
Social Democratic Party
Social Democratic party
Social Development Commission
Social Register
Social War
Social crediters
Sociales
Socialist International
Socialist Labor Party
Socialist Party
Socialist Republic of Vietnam
Socialist Workers Party
Societe
Society Islands
Society men
Society of Friends
Society of Jesus
Sogdianese
Sogdianian
Sogdoite
Soho
Soho Square
Sohrab and Rustum
Soiesette
Soinski
Soissons
Soja
Soka Gakkai Buddhism
Sokil
Sokoki
Sokoto
Sokotra
Sokotri
Sokul
Sokulk
Sol
Sola
Solana
Solanaceae
Solanales
Solange
Solanine-s
Solano
Solanum
Solarium
Solberg
Soldan
Soldanella
Sole marguery
Solea
Solebury
Soledad
Soleidae
Solemn League and Covenant
Solemn Mass
Solen
Solenidae
Solenne
Solenocooncha
Solenodon
Solenodontidae
Solenogastres
Solenoglypha
Solenopsis
Solenostomidae
Solenostomus
Solent
Solera
Soleure
Solferino
Solgochia
Solicitor General
Solicitor Supreme Court
Solid South
Solidago
Solidungula
Solifugae
Solihull
Solim
Soliman
Soliman I
Solimena
Solimoes
Solinghen
Solio
Solis
Solis lacus
Solita
Solitta
Soll
Sollars
Solley
Sollie
Sollows
Solly
Sollya
Solnit
Solo
Solo man
Soloma
Soloman
Solomon
Solomon Islands
Solomon Islands Pidgin
Solomon's lily
Solomon's seal
Solomonian
Solomonic
Solomonical
Solomonic
Solomonic
Solomonics
Solomons
Solon
Solonian
Somme
Somme River
Sommer
Sommerfeld
Sommering
Sommers
Sonni
Sommiorum
Somniosus
Somnus
Somonauck
Somoza
Son
Son of David
Son of God
Son of Man
Sonchus
Sonderbund
Sondergotter
Sondheim
Sondheimer
Sondra
Sondylomorum
Soneson
Sonette an Orpheus
Song
Song Koi
Song of Solomon
Song of Solomon, The
Song of Songs
Song of the Three Children
Songhai
Songish
Songka
Songo
Songoi
Songs of Experience
Songs of Innocence
Soni
Sonia
Sonja
Sonneratia
Sonneratiaceae
Sonnets from the Portuguese
Sonnets to Orpheus
Sonnii
Sonnie
Sonnie
Sonny
Sonoita
Sonoma
Sonoma Valley
Sonora
Sonora lac
Sonoran
Sonrai
Sons and Lovers
Sons of Freedom
Sons of God
Sons of Liberty
Sonstrom
Sontag
Sontich
Sony
Sonya
Sonya Klopfer
Sonyea
Soo
Soo Canals
Soochow
Sooke
Sooner
Sooner State
Soong
Soorah
Soot
Sopchoppy
Soper
Soperton
Soph
Sophar
Sopher
Sopheric
Sopherim
Sophey
Sophi
Sophia
Sophian
Sophie
Sophies
Sophism
Sophist
Sophistress
Sophistry
Sophoclean
Sophoclean tragedy
Soulmass
Soulmass day
Soulsbyville
Soult
Soumaintrin
Soumak rug
Sound
Sound and the Fury, The
Souphanourong
Sour
Souris
Sousa
Soustelle
Sousuke Uno
South
South Africa
South African
South African Dutch
South African jade
South Amboy
South America
South American trypanosomiasis
South Arabia
South Australia
South Australian
South Beloit
South Bend
South Boston
South Bound Brook
South Carolina
South China Sea
South Coventry
South Dakota
South Downs
South Elgin
South Euclid
South Farmingdale
South Frigid Zone
South Fulton
South Gate
South Georgia
South Georgian
South Glamorgan
South Glens Falls
South Greensburg
South Holland
South Island
South Korea
South Orkney Islands
South Ossetian Autonomous Region
South Platte
South Pole
South Saskatchewan
South Sea Bubble
South Sea Islander
South Sea Islands
South Seas
South Shetland Islands
South Shields
South Tyrol
South Vietnam
South Yemen
South Yorkshire
South african
South american
South arabic
South carolinian
South dakotan
South devon
South sea islander
South slavs
South temperate zone
South-West Africa
South-West African
Southampton
Southampton Island
Southard
Southbridge
Southcottian
Southdown
Southeast
Southeast Asia
Southeast Asian War
Southend-on-Sea
Southern
Southern Alps
Southern British English
Southern Bug
Southern Cameroons
Southern Coalsack
Southern Cross
Southern Crown
Southern Democrat
Southern Ireland
Southern Lights
Southern Paiute
Southern Pines
Southern Rhodesia
Southern Rhodesian
Southern Sea
Southern Slavs
Southern Sotho
Southern Sporades
Southern Uplands
Southern Yemen
Southerner
Southey
Southfield
Southgate
Southington
Southmont
Southport
Southron
Southronie
Southumbrian
Southwark
Southwest
Southwest Greensburg
Southwesterner
Southworth
Soutine
Soutor
Souvaine
Souza
Sovereign of the Seas
Sovereign's Birthday
Sovetsk
Soviet
Soviet Central Asia
Soviet Mountains
Soviet Range
Soviet Ridge
Soviet Russia
Soviet Union
Soviet Zone
Soviet of Nationalities
Soviet of the Union
Sovietisation
Sovietise
Sovietised
Sovietising
Sovietism
Sovietization
Soviets
Spanish West Africa
Spanish american
Spanish bayonet
Spanish bluebell
Spanish burton
Spanish button
Spanish cedar
Spanish dagger
Spanish fly
Spanish foot
Spanish green
Spanish grippe
Spanish guitar
Spanish heel
Spanish iris
Spanish jacinth
Spanish jasmine
Spanish lime
Spanish mackerel
Spanish moss
Spanish needles
Spanish ocher
Spanish omelette
Spanish onion
Spanish oyster plant
Spanish paprika
Spanish plum
Spanish pox
Spanish rice
Spanish topaz
Spanish trefoil
Spanish walnut
Spanish windlass
Spanish wine
Spanish yellow
Spanish-American
Spanish-American War
Spanish-arab
Spanish-arabic
Spanish-barreled
Spanish-born
Spanish-bred
Spanish-brown
Spanish-built
Spanish-flesh
Spanish-indian
Spanish-looking
Spanish-ocher
Spanish-phoenician
Spanish-portuguese
Spanish-red
Spanish-speaking
Spanish-style
Spanish-top
Spanish-walnut oil
Spanishburg
Spanishhize
Spanishly
Spanjian
Spanos
Spar
Sparassis
Sparassodonta
Sparaxis
Sparganiaceae
Sparganium
Sparhawk
Sparidae
Spark
Sparke
Sparkie
Sparkill
Sparkman
Sparks
Sparky
Sparland
Sparmannia
Sparnacian
Spar
Sparrow
Sparrowbush
Spars
Sparta
Spartacan
Spartacide
Spartacism
Spartacist
Spartacus
Spartan
Spartan fare
Spartan simplicity
Spartanburg
Spartanhood
Spartanic
Spartanically
Spartanism
Spartanize
Spartanlike
Spartanly
Spartansburg
Sparti
Spartiate
Spartina
Spartium
Sparus
Spassky
Spatangida
Spatangina
Spatangoida
Spatangoidea
Spatangus
Spathiflorae
Spathyema
Spatola
Spatula
Spatz
Spaulding
Spavinaw
Speaker
Speaker of the House
Speaks
Spear
Spearfish
Spearing
Spearman
Spears
Spearsville
Spearville
Specht
Special Branch
Special Forces
Species hamburgenses
Spectator
Spector
Specularia
Speculator
Spee
Speed wagon
Speedway
Speedwriting
Speer
Speicher
Speight
Spelaeites
Spellman
Spelter
Spenard
Spenborough
Spence
Spencean
Spencer
Spencer Gulf
Spencerian
Spencerian writing
Spencerianism
Spencerism
Spencerport
Spencertown
Spencerville
Spender
Spener
Spenerism
Spengler
Spense
Spenser
Spenserian
Spenserian sonnet
Spenserian stanza
Spenta Mainyu
Speonk
Speotyto
Speranza
Spergula
Spergularia
Sperling
Spermaphyta
Spermaticos logos
Spermaphyta
Spermophilus
Spermophyta
Speroni
Sperry
Sperry antiaircraft director
Sperryville
Spevek
Spey
Speyer
Sphacelaria
Sphacelariaceae
Sphacelariales
Sphaceloma
Sphaeralcea
Sphaerella
Sphaeriaceae
Sphaeriales
Sphaeriidae
Sphaerioidaceae
Sphaerium
Sphaerabolaceae
Sphaerobolus
Sphaerocarpaceae
Sphaerocarpales
Sphaerocarpus
Sphaerococcaceae
Sphaerococcus
Sphaeroma
Sphaeromidae
Sphaerophoraceae
Sphaerophorus
Sphaeropsidaceae
Sphaeropsidales
Sphaeropsis
Sphaerostilbe
Sphaerotheca
Sphaerotilus
Sphagnaceae
Sphagnales
Sphagnum
Sphakiot
Sphargis
Sphecidae
Sphecina
Sphecoidea
Sphegidae
Sphegoidea
Sphenisci
Spheniscidae
Sphenisciformes
Spheniscomorphae
Spheniscus
Sphenodon
Sphenodontia
Sphenodontidae
Sphenophorus
Sphenophyllaceae
Sphenophyllales
Sphenophyllum
Sphenopteris
Sphex
Sphindidae
Sphindus
Sphingidae
Sphingurinae
Sphingurus
Sphinx
Sphoeroides
Sphyraena
Sphyraenidae
Sphyrapicus
Sphyrra
Sphyrmidae
Spica
Spicaria
Spice Islands
Spiceland
Spicer
Spicewood
Spickard
Spiegel
Spiegelman
Spiegleman
Spieler
Spielman
Spiers
Spigelia
Spigeliaceae
Spigelian
Spike
Spilanthes
Spillar
Spillville
Spilogale
Spinacia
Spindale
Spindell
Spingarn
Spinifex
Spinnerstown
Spinoza
Spinozism
Spinozist
Spinozistic
Spinulosa
Spionidae
Spioniformia
Spiraea
Spiraceae
Spiranthes
Spokane
Spondiaceae
Spondias
Spondylidae
Spondylocladium
Spondylus
Spongiae
Spongida
Spongidiidae
Spongilla
Spongillidae
Spongiozoa
Spongiospora
Spontini
Spooner
Spoor
Sporades
Sporangites
Sporer
Sporobolus
Sporochnaceae
Sporochnus
Sporotrichum
Sporozoa
Sportsman's Notebook, A
Sposi
Spotswood
Spotsylvania
Spotted Poland China
Spottsville
Spotswood
Spracklen
Sprage
Spragens
Spraggs
Sprague
Spragueville
Sprakers
Spratt
Sprechgesang
Sprechstimme
Spree
Sprekelia
Sprigg
Spring
Spring Lake
Spring Lake Heights
Spring Sea
Squamata
Squamipennes
Squamipinnes
Squamscot
Square Deal
Squarehead wheat
Squatarola
Squatina
Squatinidae
Squatinoidei
Squawmish
Squawtits
Squaxon
Squedunk
Squibb
Squier
Squill
Squilla
Squillidae
Squilloidea
Squire
Squires
Sr
Sra
Srbija
Sri
Sri Lanka
Srinagar
Srini
Srinivasa
Srta
St
St Andrew's Cross
St Andrews
St Anthony's fire
St Bartholomew's Day Massacre
St Cyr
St Elmo's fire
St Ex
St John
St Lucia Castries
St Nicholas du Chardonnet
St Raphael
St Vitus's dance
St andrew
St augustine grass
St julien
St lawrence skiff
St louis
St louisian
St lucie cherry
St mary-le-bow
St regis
St regis indian
St-Denis
St-Emilion
St-John Perse
St-simonian
St-simonianism
St-simonist
StRaphael
Sta
Staal
Staatsburg
Staatsozialismus
Staatsrat
Stabat Mater
Stabreim
Stabroek
Stace
Stacee
Stacey
Stachys
Stachytarpheta
Stachyuraceae
Stachyurus
Staci
Stacia
Stacie
Stackhousia
Stackhousiaceae
Stacy
Stacyville
Stader splint
Stadt
Stael Maria Abhela
Stafani
Staffa
Staffan
Staffard
Stafford
Stafford Springs
Staffordshire
Staffordshire terrier
Staffordshire ware
Staffordsville
Staffordville
Staffs
Staford
Stag
Stagg
Stagira
Stagirite
Stagiritic
Stagonospora
Stagyrile
Stahl
Stahlhelm
Stahlhelmer
Stahlhelmist
Stahlion
Stahlanism
Stahlism
Stahlstown
Staines
Stake presidency
Staked Plain
Stakhanov
Stakhanovism
Stakhanovite
Stalder
Staley
Stalin
Stalin Peak
Stalin organ
Stalinabad
Stalingrad
Stalinism
Stalinist
Stalinite
Stalino
Stalinogrod
Stalinsk
Stalk
Stalker
Stallworth
Stamata
Stambaugh
Stamboul
Stambul
Stamford
Stamford Bridge
Stammbaum
Stamp Act
Stampian
Stamps
Stan
Stan Smyl
Stanaford
Stanardsville
Stanberry
Stanchfield
Standard English
Standards of Official Conduct
Stander
Standford
Standice
Standing
Standish
Standley
Standush
Stanfield
Stanfill
Stanford
Stanford revision
Stanford-Binet test
Stanfordville
Stangeria
Stanhope
Stanhopea
Stanislao
Stanislas
Stanislas I
Stanislaus
Stanislavski
Stanislavski Method
Stanislavski System
Stanislavsky
Stanislaw
Stanislaw Kania
Stanislawow
Stanlee
Stanleigh
Stanley
Stanley Falls
Stanley Pool
Stanleytown
Stanleyville
Stanly
Stannaries
Stannary Court
Stannfield
Stannwood
Stanovoi
Stanovoi Range
Stans
Stanton
Stantonsburg
Stantonville
Stanville
Stanway
Stanwin
Stanwinn
Stanwood
Stanzel
Stapelia
Staphylea
Staphyleaceae
Staphylinidae
Staphylioinoidea
Staphylinus
Staphylococcus
Staplehurst
Staples
Stapleton
Star
Star Chamber
Star boat
Star chamber
Star class
Star of Bethlehem
Star of David
Star of the Sea
Star-Spangled Banner
Star-Spangled Banner, The
Stara Zagora
Starbuck
Starford
Stargell
Starinsky
Stark
Starke
Starkey
Starks
Starksboro
Starkville
Starkweather
Starla
Starlene
Starlin
Starling
Starobin
Staroobriadtsi
Starr
Starrucca
Starry Night, The
Stars and Bars
Stars and Stripes
Startex
Stasny
Stassen
State
State College
State Day
State council
State department
State of Aden
State prison
Statehouse
Staten
Staten Island
Statenville
States
States General
States of the Church
States' Rights Democratic Party
States, the
States-General
States-general
Statesboro
Statesville
Statham
Static
Stationers' Company
Statis
Statistical Commission
Statius
Statler
Statue of Liberty
Statute of Westminster
Stauder
Staudinger
Stauffer
Staunton
Stauromedusae
Stav
Stavanger
Stavro
Steffens
Steffenville
Steffi
Steffi Graf
Steffie
Steffin
Steffy
Steganophthalmata
Steganophthalmia
Steganopodes
Steger
Stegman
Stegocephalia
Stegodon
Stegomus
Stegomyia
Stegosauria
Stegosaurus
Stehekin
Steichen
Steier
Steiermark
Stein
Steinamanger
Steinauer
Steinbeck
Steinberg
Steinberger
Steiner
Steinerian
Steinhatchee
Steinheil
Steinheim man
Steinitz
Steinke
Steinman
Steinmetz
Steinway
Steinwein
Steironema
Stelazine
Stella
Stella Maris
Stella Polaris
Stellaria
Stelle
Steller's jay
Stellite
Stheneboea
Sthenelus
Sthenias
Sthenius
Stheno
Stiborius
Stich
Stichter
Stickney
Sticta
Stictaceae
Stictidaceae
Stictis
Stidham
Stiegel
Stiegler
Stieglitz
Stier
Stig
Stigler
Stigmaria
Stijl
Stikine
Stila
Stilbaceae
Stilbella
Stilbum
Stiles
Stilesville
Stilicho
Still
Stilla
Stillas
Stillingia
Stillman
Stillmann
Stillmore
Stillson wrench
Stillwater
Stillwell
Stilophora
Stilophoraceae
Stilton
Stilton cheese
Stilu
Stilwell
Stimson
Stine
Strafford
Straffordian
Strage
Straight Range
Strain
Strait
Strait is the Gate
Strait of Hormuz
Straits Settlements
Straits dollar
Stralka
Stralsund
Strand
Strandburg
Strander
Strandloper
Strandquist
Strang
Stranger
Stranger, The
Stranraer
Strasberg
Strasbourg
Strasbourg
Strassburg
Strategic Air Command
Stratford
Stratford de Redcliffe
Stratford-on-Avon
Stratford-upon-Avon
Stratfordian
Stratham
Strathclyde
Strathcona
Strathmere
Strathmore
Stratiosmyiidae
Stratiotes
Strato-cumulus
Stratonical
Strattanville
Stratton
Straub
Straughn
Straus
Strauss
Strausstown
Stravinsky
Strawn
Streamwood
Streator
Street
Street arab
Streetcar Named Desire, A
Streeter
Streetman
Streeto
Streetsboro
Strega
Streisand
Strelitz
Strelitzi
Strelitzia
Stretzi
Strenta
Strep
Strepera graculina
Strephon
Strephonn
Strepphon
Strepsiceros
Strepsiptera
Streptocarpus
Streptococcus
Streptomyces
Streptoneura
Streptothrix
Stresemann
Stretch
Stretford
Striaria
Striariaceae
Stricklan
Strickland
Strickler
Strickman
Striga
Striges
Strigidae
Strigiformes
Striginae
Strigula
Strigulaceae
Strimon
Strindberg
Strine
Sturmian
Sturnella
Sturnidae
Sturninae
Sturnus
Sturrock
Sturt
Sturtevant
Stutman
Stutsman
Stuttgart
Stuttgart disease
Stuttgart pitch
Stuttgart's dis
Stuttgart's disease
Stutzman
Stuyvesant
Stygial
Stygian
Stygian creek
Stygian darkness
Stygian shore
Stylaster
Stylasteridae
Styles
Stylidiaceae
Stylidium
Stylochus
Stylommatophora
Stylonichia
Stylonurus
Stylonychia
Stylopidae
Stylops
Stylosanthes
Stymphalian
Stymphalian birds
Stymphalid
Stymphalides
Stymphalus
Styphelia
Styr
Styracaceae
Styrax
Styria
Styrian
Styrofoam
Styx
Styxian
Su
Su-chou
Suaeda
Suakin
Sualocin
Suamico
Suanitian
Suanne
Suarez
Sub-adiatic
Sub-apenine
Sub-atlantic
Sub-carboniferous
Sub-carpathian
Sub-christian
Sub-himalayan
Sub-mycenaean
Sub-northern
Sub-parliament
Sub-pyreanean
Subak
Subakhmimic
Subanun
Subarian
Subcarboniferous
Subclamatores
Suberites
Suberitidae
Subiaco
Subic
Subic Bay
Subir
Subiya
Subkingdom Metazoa
Subkingdom Parazoa
Subkingdom Protozooa
Sublett
Sublette
Sublime
Sublime Porte
Sublimity
Submytilacea
Suboscines
Subotica
Subphylum Vertebrata
Subroc
Subulicornia
Subungulata
Sucaryl
Succasunna
Succisa
Succoth
Succubus
Suches
Suchos
Suchta
Suckling
Suckow
Sucre
Suctoria
Sucy
Sudafed
Sudan
Sudan grass
Sudanese
Sudani
Sudanian
Sudanic
Sudburian
Sudbury
Sudder
Sudderth
Sudermann
Sudeten
Sudetenland
Sudetes
Sudhir
Sudic
Sudith
Sudlersville
Sudnor
Sudra
Sue
Suecism
Sueco-gothic
Suellen
Suelo
Suerre
Suessiones
Suetonius
Sueve
Suevi
Suevian
Suevic
Suez
Suez Canal
Sufism
Suff
Sufferings of Young Werther, The
Suffern
Suffield
Suffolk
Suffolk punch
Suffr
Sufi
Sufi order
Sufism
Sufistic
Sufis
Sufism
Sufistic
Sufu
Sug
Sugar
Sugar Land
Sugar Loaf Mountain
Sugarland
Sugarloaf
Sugarloaf Mountain
Sugartown
Sugar tree
Sugden
Sugihara
Suh
Suhail
Suharto
Sui
Suidae
Suilmann
Suina
Suiogoth
Suio gothic
Suiones
Suiset
Suisse
Suiy
Suk
Sukarnapura
Sukarno
Sukarno Peak
Sukey
Sukhum
Sukhumi
Suki
Sukin
Sukkoth
Suku
Sula
Sulaba
Sulafat
Sulaib
Sulamith
Sulawesi
Suleiman
Suleiman Franjeh
Suleiman I
Suleyman Demirel
Sulfasuxidine
Sulfathalidine
Sulfonal
Sulidae
Sulides
Suliope
Sulla
Sullan
Sulligent
Sullivan
Sully
Sully-Prudhomme
Sulome Anderson
Sulphur
Sulphur Springs
Sulpician
Sulpicius
Sultana
Sultanabad
Sulu
Sulu Archipelago
Sulu Sea
Suluan
Sulus
Sum
Sumac
Sumak
Sumas
Sumass
Sumatra
Sumatra camphor
Sumatra java
Sumatra leaf
Sumatran
Sunapee
Sunapee trout
Sunay
Sunbelt
Sunbright
Sunburg
Sunburst
Sunbury
Sunbury-on-Thames
Suncook
Sunda
Sunda Islands
Sunda Strait
Sunda land
Sundance
Sundanese
Sundanesian
Sunday
Sunday Morning
Sunday School
Sunday best
Sunday child
Sunday citizen
Sunday clothes
Sunday drive
Sunday driver
Sunday letter
Sunday painter
Sunday punch
Sunday saint
Sunday school
Sunday supplement
Sunday-go-to-meeting
Sunday-go-to-meeting clothes
Sunday-go-to-meetings
Sunday-schoolish
Sundayfied
Sundayish
Sundayism
Sundaylike
Sundayness
Sundayproof
Sundays
Sundberg
Sunderland
Sundin
Sundstrom
Sundsvall
Suneya
Sunfield
Sung
Sung-hua
Sungari
Sungkiang
Sunil
Sunland
Sunman
Sunna
Sunni
Sunni Muslim
Sunniah
Sunnism
Sunnite
Sunny
Sunnyside
Sunnysouth
Sunnyvale
Sunol
Sunray
Sunshine
Sunshine State
Sunyata
Suomi
Suomic
Sup
Supai
Supat
Supen
Super Talos
Super-christian
Superfort
Superfortress
Superi
Superior
Superman
Supersonic Age
Suplee
Suppe
Supple
Suppliers, The
Supra-christian
Suprematism
Supreme Being
Supreme Council
Supreme Court
Supreme Court of Judicature
Susannah
Susanne
Susanoo
Susanowo
Susanville
Susette
Susi
Susian
Susiana
Susianian
Susie
Suslov
Susquehanna
Sussex
Sussex man
Sussex pig
Sussex spaniel
Sussexman
Sussi
Sussman
Sussna
Susu
Susuhunan
Susuida
Susumu
Susy
Susy-Q
Sutaio
Sutcliffe
Suter
Sutersville
Suth
Sutherland
Sutherland
Sutherland Falls
Sutherlandia
Sutherlin
Sutherland Falls
Sutlej
Suto
Sutphin
Sutta Pitaka
Suttapitaka
Sutter
Suttner
Sutton
Sutton Coldfield
Sutton Hoo
Sutton-in-Ashfield
Suu
Suva
Suvorov
Suwanee
Suwannee
Suzan
Suzann
Suzanna
Suzanne
Suzetta
Suzette
Suzi
Suzie
Suzuki
Suzy
Suzy Azar
Suzzy
Svalbard
Svan
Svanetian
Svanish
Svantovit
Svarloka
Svea
Sveciaost
Svedberg
Sven
Svend
Svengali
Svensen
Sverdlovsk
Sverige
Sverre
Svetambara
Svetlana
Svetlana Alliluyeva
Svign
Svizzera
Svoboda
Svres
Sw
Swab
Swabia
Swabian
Swadeshi
Swadeshism
Swoope
Swope
Swor
Sword of Damocles
Swords
Swoyersville
Swtz
Sy
Sybaris
Sybarital
Sybaritan
Sybarite
Sybaritic
Sybaritical
Sybaritically
Sybaritish
Sybertsville
Sybil
Sybila
Sybilla
Sybille
Syble
Sybley
Sybyl
Sycamore
Sychaeus
Syck
Sycon
Syconaria
Sycones
Syconidae
Syd
Sydel
Sydelle
Sydneian
Sydney
Sydney silky
Sydneyite
Syneysider
Syene
Sykes
Sykeston
Sykesville
Syktyvkar
Syl
Sylacauga
Sylas
Syleus
Syllabus
Syllabus of Errors
Syllidae
Syllis
Sylmar
Sylni
Sylow
Sylphon
Sylva
Sylvain Trugeon
Sylvan
Sylvan Cote
Sylvana
Sylvaner
Sylvani
Sylvania
Sylvanus
Sylvester
Sylvester I
Sylvester II
Sylvester's dialytic method
Sylvestrian
Sylvestrine
Sylvia
Sylvia Bertolaccini
Sylvian
Sylvian fissure
Sylvicolidae
Sylvie
Sylviidae
Sylviinae
Symaethis
Syman
Symbranchia
Symer
Symington
Symmachus
Symon
Symonds
Symons
Sympetalae
Symphalangus
Symphoricarpos
Symphyla
Symphyta
Symphyta
Symphytum
Symplegades
Symplocaceae
Symplocarpus
Symplocos
Symsonia
Synanon
Synapsida
Synaptera
Synaptosauria
Synarmogoida
Synascidiacea
Synarchida
Synchytriaceae
Synchytrium
Syncom
Syncrepta
Syndesmon
Synyoceras
Synedra
Synedria
Synedrion
Synedrium
Synentognathi
Synge
Syngenesia
Syngman
Syngnatha
Syngnathi
Syngnathidae
Syngnathus
Synn
Synodontidae
Synodus
Synoptical Gospels
Synoptist
Synoptistic
Synthetism
Synura
Syosset
Syr
Sy Darya
Syracusan
Syracuse
Syracuse watch glass
Syria
Syriac
Syriacism
Syriacist
Syrian
Syrian bear
Syrianic
Syrianism
Syrianize
Syriarch
Syriasm
Syrinx
Syriologist
Syrma
Syrmian
Syrnium
Syro-
Syro-arabian
Syro-babylonian
Syro-chaldaic
Syro-chaldean
Syro-chaldee
Syro-egyptian
Syro-galilean
Syro-hebraic
Syro-hexaplar
Syro-hitite
Syro-macedonian
Syro-mesopotamian
Syro-persian
Syro-roman
Syrophoenician
Syrphidae
Syrtis
Syrtis Major
Syryenian
Syst
Systems
Systternational d'Unit
Syverson
Syzran
Szabadka
Szczecin
Szechwan
Szeged
Szekely
Szekler
Szekliian
Szekszrd
Szell
Szewinska
Szigeti
Szilard
Szold
T-headed
T-junction
T-man
T-men
T-number
T-shirt
T-slot cutter
T-square
T-stop
T-stop system
T/D
T1
T1FE
T1OS
T3
TA
TAB
TAC
TACCS
TAE
TAG
TAL
TAM
TANSTAAFL
TAO
TAP
TAR
TAS
TASC
TASI
TASS
TAT
TAU
TAVR
TB
TBA
TBD
TBO
TBS
TC
TCA
TCAP
TCAS
TCB
TCBM
TCC
TCCC
TCG
TNN
TNOP
TNPC
TNT
TO
TO'd
TOC
TOD
TODS
TOEFL
TOMS
TOOIS
TOP
TOPICS
TOPLAS
TOPS
TORES
TOS
TOW
TOY
TP
TP0
TP4
TPC
TPE
TPI
TPI test
TPM
TPMP
TPN
TPO
TPS
TPT
TQC
TR
TR box
TR switch
TR tube
TR unit
TRAC
TREAT
TRH
TRIB
TRMTR
TRODI
TROFF
TRON
TRR
Tabina
Tabiona
Tabira
Tabitha
Table Bay
Table Mountain
Table a
Table mountain series
Tabloid
Tabor
Taborite
Tabriz
Tabshey
Tabula amalfitana
Tabula smaragdina
Tabulata
Tacana
Tacanan
Tacca
Taccaceae
Tace
Tachardia
Tachardiinae
Tachina
Tachinaria
Tachinidae
Tachyglossidae
Tachyglossus
Tacita
Tacitean
Tacitus
Tacklind
Tacloban
Tacna
Tacna-Arica
Tacoma
Tacoman
Taconian
Taconic
Taconite
Tacquet
Tacsonia
Tacubaya
Taculli
Tacy
Tacye
Tad
Tada
Taipei
Taipi
Taiping
Taira
Tairou Congacou
Taisho
Tait
Taita
Taiwan
Taiwan Strait
Taiwanese
Taiwanhemp
Taiyal
Taiyuan
Taj Mahal
Tajik
Tajiki
Tajo
Tak
Taka
Takakura
Takamatsu
Takao
Takara
Takashi
Takashi Ishi
Takelma
Takeo
Takeo Fukuda
Takeshi
Takhaar
Takhtadjy
Takilman
Takitumu
Takken
Takoradi
Taku
Tal
Tala
Talaemenes
Talaing
Talala
Talamanca
Talamancan
Talanian
Talanta
Talara
Talassio
Talavera de la Reina
Talbert
Talbot
Talbott
Talbotton
Talca
Talcahuano
Talcher
Talco
Talcott
Tale of Genji, The
Tale of Two Cities, A
Tale of a Tub, A
Talegallinae
Talegallus
Tales of Hoffman, The
Tales of a Wayside Inn
Tali
Talia
Taliacotian
Talich
Talie
Taliien
Taliesin
Taliesin North
Taliesin West
Talihina
Talinum
Talisheek
Talishi
Talitha
Talladega
Tallahassee
Tallapoosa
Tallassee
Tallbot
Tallbott
Tallchief
Tallega
Tallevast
Talley
Talleyrand-Prigord
Tallia
Tallie
Tallinn
Tallis
Tallmadge
Tallman
Tallmansville
Tallou
Tallu
Tallula
Tallulah
Tally
Tallys
Talmage
Talmo
Talmud
Talmud Torah
Talmudic
Talmudical
Talmudism
Talmudist
Talmudistic
Talmudistical
Talmudization
Talmudize
Taloga
Talos
Talpa
Talpidae
Talphybius
Taltushtuntude
Taluche
Taluhet
Talya
Talyah
Talys
Talyshin
Tam
Tam O'Shanter
Tama
Tamaceae
Tamachek
Tamah
Tamale
Tamanac
Tamanaca
Tamanaco
Tamanaha
Tamaqua
Tamar
Tamara
Tamarah
Tamaricaceae
Tamarindus
Tamarix
Tamaroa
Tamarra
Tamaru
Tamas
Tamashak
Tamasine
Tamasssee
Tamatave
Tamaulipas
Tamaulipecc
Tamaulipececan
Tamayo
Tamberg
Tambookie
Tambookie grass
Tambora
Tambouki
Tambov
Tambuki
Tamburlaine
Tamburlaine the Great
Tame
Tamer
Tamera
Tamerlane
Tamerlanism
Tamesada
Tami
Tamias
Tamiko
Tamil
Tamil Nadu
Tamilian
Tamilic
Tamils
Tamiment
Taming of the Shrew, The
Tamis
Tamma
Tammanial
Tammanize
Tammany
Tammany Hall
Tammany man
Tammany society
Tammanyism
Tammanyite
Tamhser
Tannie
Tannu Tuva
Tannu Tuvan
Tanny
Tano
Tanoan
Tanquelinian
Tansey
Tansy
Tanta
Tantalean
Tantalian
Tantalic
Tantalus
tantalus cup
tantaluses
Tantony
Tantra
Tantrika
Tantrism
Tantrist
Tanya
Tanyoan
Tanystomata
Tanzan Ishibashi
Tanzania
Tanzine
Tao
Tao Te Ching
Taoism
Taoist
Taoistic
Taonurus
Taopi
Taos
Tapa
Tapachula
Tapachulteca
Tapacura
Tapaj
Tapajo
Tapajos
Tape
Tapeats
Tapes
Tapetron
Taphiae
Taphria
Taphrina
Taphrinaceae
Tapijulapane
Tapinoma
Tapiridae
Tapiro
Tapirus
Tapley
Tapley mark
Tapleyism
Taplin
Tapoco
Taposa
Tappahannock
Tappan
Tappen
Tappertit simon
Tappertitian
Taprobane
Tapuya
Tapuyan
Tapuyo
Tara
Tarabar
Tarabulus el Gharb
Tarabulus esh Sham
Taracahitian
Tarah
Tarahumar
Tarahumara
Tarahumare
Tarahumari
Tarai
Taraktogenos
Taramembe
Taran
Taranchi
Tarandean
Tarandian
Taranis
Taranto
Tarantula nebula
Tarantulidae
Tarapon
Tarapoto
Taras Bulba
Tarasc
Tarn-et-Garonne
Tarne
Tarnhelm
Tarnkappe
Tarnopol
Tarnow
Taro
Tarpeia
Tarpeian
Tarpeian Rock
Tarpley
Tarpon Springs
Tarquin
Tarquinish
Tarr
Tarra
Tarragona
Tarrah
Tarrance
Tarrant
Tarrasa
Tarrateen
Tarratine
Tarrel
Tarrs
Tarrsus
Tarry-john
Tarryn
Tarrytown
Tarshish
Tarsiidae
Tarsipedidae
Tarsipedinae
Tarsipes
Tarsius
Tarski
Tarsonemidae
Tarsonemus
Tarsus
Tarsuss
Tartaglia
Tartan
Tartar
Tartar horse
Tartar sable
Tartar-nosed
Tartarean
Tartareous
Tartarian
Tartarian aster
Tartarian dogwood
Tartarian honeysuckle
Tartaric
Tartarin
Tartarism
Tartarization
Tartarize
Tartarized
Tartarlike
Tartarology
Tartarus
Tartary
Tartini
Tarton
Tarttan
Tartu
Tartufe
Tartufes
Tartuffe
Tartuffery
Tartuffes
Tartuffian
Tartuffish
Tartuffism
Taruma
Tarumari
Taruntius
Tarvia
Taryba
Taryn
Taryne
Tarzan
Tarzana
Tarzanish
Tas
Tasha
Tashi Lama
Tashkend
Tashkent
Tashlich
Tashlik
Tashmit
Tashnakist
Tashnakist
Tashnasai
Tasia
Tchetchentsish
Tchetnitsi
Tchi
Tchula
Tchwi
Td
Te
Te Deum
Te Kanawa
Te arawa
Tea Act
Teaberry
Teach
Teachey
Teador
Teagan
Teagarden
Teage
Teague
Teagueland
Teaguelander
Teahan
Teak
Teaneck
Tearle
Teasdale
Teays
Tebbetts
Tebet
Tebeth
Tebu
Teca
Tecate
Tech
Technicolor
Technion
Technological Age
Techny
Tecla
Tecmessa
Teco
Tecoma
Tecoma yew
Tecopa
Tecpanec
Tectibranchia
Tectibranchiata
Tecton
Tectona
Tectosages
Tectospondyli
Tecu
Tecumseh
Tecumtha
Tecuma
Ted
Ted Sator
Teda
Tedd
Tedda
Tedder
Teddi
Teddie
Teddman
Teddy
Teddy Higuera
Teddy bear
Teddy boy
Teddy girl
Tedi
Tedie
Tedman
Tedmann
Tedmund
Tedra
Tedric
Teece
Teena
Teerell
Tees
Teesside
Teeswater
Teeter
Teevens
Teferi
Tefft
Teflon
Tega
Tegan
Tegea
Tegean
Tegeates
Tegeticula
Tegmine
Tegucigalpa
Teguima
Tegyrius
Teh
Tehachapi
Tehama
Teheran
Tehillim
Tehran
Tehuacana
Tehuantepec
Tehuantepec wind
Tehuantepec winds
Tehuantepecan
Tehuantepecer
Tehuaco
Tehuelche
Tehuelchean
Tehuelches
Tehuellet
Teian
Teichmann's crystals
Teide
Teiidae
Teilhard de Chardin
Teillo
Teilo
Teind Court
Teind court
Teiresias
Tejo
Tejon
Tejon formation
Tekakwitha
Tekamah
Tekintsi
Tekke
Tekkintzi
Tekla
Tekoa
Tekonsha
Tektronix
Tel
Tel Aviv
Tel Aviv-Jaffa
Tel Avivian
Tel el Amarna
Tel-Eye
TelAutograph
TelAutography
Teodoro
Teotihuacan
Tepanec
Tepecano
Tepehua
Tepehuane
Tephillah
Tephrlosia
Tepic
Teplica
Teplitz
Tepper
Tequistlateca
Tequistlatecan
Ter Borch
Tera
Terah
Terai
Terbecki
Terborch
Terburg
Terceira
Terchie
Terebellidae
Terebinthaceae
Terebinthus
Terebrantia
Terebratula
Terebratulidae
Terebridae
Teredinidae
Terena
Terence
Terencio
Terentia
Terentian
Tererro
Teresa
Terese
Tereshkova
Teresian
Teresina
Teresita
Teressa
Tereus
Terfezia
Terfeziaceae
Terhune
Test Act
Testacea
Testament
Testamentum domini
Testicardines
Testudinaria
Testudinata
Testudinidae
Teseque
Tete de Maure
Tete de Moine
Teteak
Tethys
Teton
Teton Range
Tetonia
Tetralobodon
Tetabranchia
Tetramerus
Tetracoralla
Tetractinellida
Tetracyn
Tetradecapoda
Tetradesmus
Teträdit
Tetradydynamia
Tetragonion
Tetragoniiaceae
Tetragrammaton
Tetragynia
Tetralin
Tetrameria
Tetrandria
Tetranichus
Tetrao
Tetradon
Tetraodontidae
Tetraonidiae
Tetraoninae
Tetrapanax
Tetrapneumona
Tetrapneumones
Tetrapoda
Tetraperturus
Tetraschichidae
Tetraschichus
Tetraxonia
Tetraxonida
Tetrazzini
Tetrigidae
Tetrix
Tetrodon
Tetrodontidae
Tettigidae
Tettigoniidae
Tetu
Tetuan
Tetum
Tetzel
Teucer
Teucr
Teucrion
Teucrium
Teufel
Teufert
Teut
Teuth
Teuthras
Teuto-british
Teuto-celt
Teuto-celtic
Teutoburger Wald
Teutolatry
Teutomania
Teutomaniac
Teuton
Teutondom
Teutonesque
Teutonia
Teutonic
Teutonic Knights
Teutonic Order
Teutonic order
Teutonically
Teutonicism
Teutonisation
Teutonise
Teutonised
Teutonising
Teutonism
Teutonist
Teutonity
Teutonization
Teutonize
Teutonized
Teutonizing
Tezel
Tgu Mure
Th
ThB
ThD
ThM
Thabana-Ntlenyana
Thabantshonyana
Thach
Thacher
Thacker
Thackeray
Thackerayan
Thackerayana
Thackerayesque
Thackerville
Thad
Thad Eure
Thaddaus
Thaddeus
Thaddus
Thadentsonyane
Thadeus
Thagard
Thai
Thailand
Thailander
Thain
Thaine
Thais
Thakur
Thalamiflorae
Thalamophora
Thalarctos
Thalassa
Thalassarctos
Thalassinidea
Thalassochelys
Thales
Thalesia
Thalesian
Thalessa
Thalia
Thaliacea
Thalian
Thaliard
Thalictrum
Thallo
Thalophyta
Tham
Thamar
Thames
Thamesis
Thammuz
Thamnidium
Thamnophilineae
Thamnophilus
Thamnophis
Thamora
Thamos
Thamudean
Thamudene
Thamudic
Thamus
Thamyras
Thamyris
Thanasi
Thanatos
Thanatotic
Thane
Thanet
Thanh
Thanjavur
Thanksgiving Day
Thanom
Thanos
Thant
Thapa
Thapsia
Thapsus
Thar
Thar Desert
Thare
Thargelia
Thargelion
Tharp
Tharsis
Thasian
Thaspium
Thatch
Thatcher
Thaumantian
Thaumantias
Thaumas
Thawville
Thaxter
Theodosius II
Theodotian
Theola
Theon Junior
Theona
Theone
Theonoe
Theopaschist
Theopaschitally
Theopaschite
Theopaschitic
Theopaschitism
Theopane
Theophania
Theophila
Theophilus
Theophilus Donges
Theophrastaceae
Theophrastan
Theophrastean
Theophrastian
Theophrastus
Theorell
Theos
Theosophist
Theosophy
Theotocopoulos
Theotocos
Theotokos
Theoxenius
Thera
Theraean
Theran
Therapeutae
Therapeutic
Theraphosa
Theraphosidae
Therapne
Therapsida
Theravada
Theravada Buddhism
Theravadín
Theresa
Theresa of Avila
Theresa of Lisieux
Therese
Theresina
Theresita
Theresa
Thereva
Therevidae
Therezina
Theria
Theridiidae
Theridion
Thermachus
Therine
Theriodonta
Theriodontia
Theriot
Theritas
Therma
Thermidor
Thermidorean
Thermidorian
Thermit
Thermofax
Thermopolis
Thermopsis
Thermopylae
Thermos
Thermos bottle
Thermos flask
Thero
Therock
Theromora
Theromores
Theromorpha
Theron
Theropoda
Therron
Thersander
Thersilochus
Thersites
Thesda
Thesean
Theseum
Theseus
Theseus and Pirithoës
Thesium
Thesmoria
Thesmophoria
Thesmophorian
Thesmophoric
Thesmophorus
Thespisia
Thielen
Thiells
Thiensville
Thier
Thierry
Thierry Tulasne
Thiers
Thieves' Carnival
Thilanottine
Thilda
Thilde
Thill
Thimbu
Thin
Thin Snow, The
Thinia
Thinker, The
Thinocoridae
Thinocorus
Thiobacillus
Thiobacteria
Thiobacteriales
Thiodamas
Thiokol
Thiospira
Thiothrix
Thira
Third International
Third Order
Third Reich
Third Republic
Third World
Third of May, The
Third-Class Carriage, The
Thirion
Thirlmere
Thirty Years' War
Thirty-nine Articles
Thirza
Thirzi
Thirzia
This earth of majesty
This other Eden
This royal throne of kings
Thisbe
Thisbee
Thissa
Thistle
Thompson submachine gun
Thompsons
Thompsoontown
Thompstown
Thompsonville
Thomsen
Thomson
Thomson atom
Thomson effect
Thomson's hypothesis
Thomsonian
Thomsonianism
Thonburi
Thondracians
Thondraki
Thondrakians
Thonga
Thonotosassa
Thoon
Thor
Thor Able Star
Thor Heyerdahl
Thor-Agena
Thor-Delta
Thora
Thoracica
Thoracostei
Thoracostraca
Thorazine
Thorbert
Thorbjorn Falldin
Thorburn
Thordia
Thordis
Thoreau
Thoreauvian
Thorez
Thorfinn
Thorin
Thorlay
Thorley
Thorlie
Thorma
Thorman
Thormora
Thorn
Thornburg
Thorncombe
Thorndale
Three Kings
Three Kings of Cologne
Three Kings' Day
Three Lives
Three Musketeers, The
Three Rivers
Three Signs of Being
Three Wise Men
Three in One and One in Three
Three-cornered Hat
Three-cornered Hat, The
Threefold Unity
Threepenny Opera, The
Threlkeld
Threskiornithidae
Threskiornithinae
Thrift
Thrinax
Thripidae
Throckmorton
Thrombolysin
Throop
Throttlebottom
Through the Looking-Glass
Thrsieux
Thrush
Thrushvec
Thruway
Thrymheim
Thryonomys
Thsos
Thuban
Thucydidean
Thucydides
Thuidium
Thuja
Thuropsis
Thule
Thule culture
Thulite pink
Thumbelina
Thummim
Thun
Thunar
Thunbergia
Thunder Bay
Thunell
Thuner See
Thunnidae
Thunnus
Thunor
Thur
Thurber
Thurberia
Thurberia weevil
Thurgau
Thurgood
Thuringer
Thuringia
Thuringian
Thuringian Forest
Thurio
Thurlough
Thurlow
Thurman
Thurmann
Thurmond
Thurmont
Thurnau
Thurnia
Thurniaceae
Thurs
Thursby
Thursday
Thursday Island
Thursdays
Thurso's Landing
Thurstan
Thurston
Thury
Thury thread
Thushi
Thutmose III
Thuyopsis
Thwing
Thyatira
Thyeiads
Thyestean
Thyestean banquet
Thyestes
Thyiad
Thyiades
Thylacoleo
Thylacynus
Thymallidae
Thymallus
Thymbraeus
Thymelaeae
Thymelaeaceae
Thymelaeales
Thymoetes
Thymus
Thynne
Thynnidae
Thyone
Thyraden
Thyratron
Thyreocoridae
Thyrididae
Thyris
Thyrostraca
Thysanocarpus
Thysanoptera
Thysanoura
Thysanura
Thyssen
Ti
Tia
Tia Juana
Tia Maria
Tiahuanacan
Tiahuanaco
Tiam
Tiamat
Tiana
Tiananmen
Tiatinagua
Tibbett
Tibbetts
Tibbie
Tibbitts
Tibbs
Tibbu
Tiber
Tiber green
Tiberian
Tiberias
Tiberine
Tiberinus
Tiberius
Tibesti
Tibet
Tibetan
Tibetan antelope
Tibeto-Burman
Tibeto-Burmese
Tibeto-burman
Tibeto-chinese
Tibeto-himalayan
Tibold
Tibouchina
Tibullus
Tibur
Tiburcio
Tiburon
Tiburtine
Tiburtine sibyl
Tica
Tice
Tichnor
Tichodroma
Tichon
Tichonn
Ticino
Tickfaw
Ticknor
Ticon
Ticonderoga
Ticuna
Ticunan
Tideswell
Tidioute
Tidwell
Tiebold
Tiebout
Tieck
Tiedeman
Tiemroth
Tien
Tien Shan
Tiena
Tientsin
Tiepolo
Tiereil
Tiergarten
Tieman
Tierney
Tierra del Fuego
Tiersten
Tiertza
Tierza
Tiesiding
Timaliidae
Timaliinae
Timandra
Timani
Timaru
Timberville
Timbira
Timblin
Timbo
Timbuktu
Time
Time and tide stayeth for no man
Time rolls his ceaseless course
Time's revolving wheels
Time's winged chariot
Timelia
Timeliidae
Times Roman
Times Square
Timewell
Timex
Timi
Timias
Timisoara
Timken
Timm Rosenbach
Timmi
Timmie
Timmons
Timmonsville
Timms
Timmy
Timmath
Timme
Timocharis
Timofei
Timoleon
Timon
Timon of Athens
Timonian
Timonism
Timonist
Timonistic
Timonium
Timonize
Timor
Timor Sea
Timorese
Timoshenko
Timote
Timotean
Timoteo
Timotea
Timotean
Timotee
Timoteus
Timothy
Timour
Timpson
Timucua
Timucuan
Timuquan
Timuquanan
Timur
Tin Pan Alley
Tina
Tinamidae
Tinaret
Tindal
Tindale
Tindall
Tine
Tineidae
Tineina
Tineoidea
Ting
Tingey
Tinggian
Tingidae
Tingis
Tingitidae
Tingley
Tinguian
Tini
Tinia
Tinley Park
Tinne
Tinni
Tinnie
Tino
Tinoceras
Tinsley
Tintagel Head
Tintah
Tintoretto
Tiny
Tiny Tim
Tinya
Tioga
Tiona
Tionesta
Tionontates
Tionontati
Tiossem
Tiou
Tiphane
Tiphani
Tiphanie
Tiphany
Tiphia
Tiphiiidae
Tiplersville
Tippecanoe
Tipperary
Tippets
Tippett
Tippo
Tips
Tipton
Tiptonville
Tipu Sahib
Tipula
Tipularia
Tipulidae
Tipuloidea
Tipura
Tir-na-n'Og
Tiran
Tirana
Tiresias
Tirhutia
Tirich Mir
Tiro
Tirol
Tirolean
Tirolese
Tironian
Tiros
Tirpitz
Tirrell
Tirribi
Tirso de Molina
Tirthankara
Tiruchirapalli
To Althea from Prison
To His Coy Mistress
To Lucasta Going to the Wars
To a Skylark
To be young was very Heaven
Toaalta
Toabaja
Toag
Toano
Tob
Toba
Tobacco Road
Tobaccoville
Toback
Tobago
Tobe
Tobey
Tobi
Tobiah
Tobias
Tobie
Tobies
Tobikhar
Tobin
Tobinsport
Tobit
Tobol
Tobolsk
Tobruk
Toby
Toby Fillpot jug
Toby jug
Toby-jug
Tobyte
Tobyhanna
Toe H
Toe h
Tocantins
Tocci
Toccoa
Toccopola
Tocharese
Tocharian
Tocharic
Tocharish
Tocobaga
Tocsin
Tod
Tod in Venedig, Der
Toda
Todd
Todd Lichti
Toddie
Toddville
Toddy
Todea
Todhunter
Todidae
Todt
Todus
Toffey
Toffie
Tofieldia
Toft
Toft ware
Tofte
Togliatti
Togo
Togoland
Togolander
Togolese
Toh
Tohatchi
Tohome
Toiboid
Toinette
Toivola
Tojo
Tokay
Tokeland
Tokelau
Tokharian
Tokio
Toklas
Tokugawa
Tokugawa Ieyasu
Tokyo
Tokyo Bay
Tokyoite
Tol
Toland
Tolar
Tolbert
Toledan
Toledo
Toledoan
Toler
Toleration Act
Toletan
Tolima
Tolkan
Toll
Toll House cookie
Tolland
Toller
Tollesboro
Tolleson
Tolley
Tolliver
Tollman
Tollmann
Tolmach
Tolman
Tolmann
Tolna
Tolono
Tolowa
Tolpuddle Martyrs
Tolstoy
Tolstoyan
Tolstoyism
Tolstoyist
Toltec
Toltecan
Toltecs
Tolu
Toluca
Toluca de Lerdo
Toluifera
Tolumnius
Tolyatti
Tolypeutes
Tom
Tom Candiotti
Tom Collins
Tom Decair
Tom Dick and Harry
Tom Glavine
Tom Grieve
Tom Hulce
Tom Jones
Tom Monaghan
Tom Sawyer
Tom Thumb
Tom and Jerry
Tom collins
Tom o’ Bedlam
Tom show
Tom, Dick, and Harry
Tom-and-jerry
Tom-and-jerryism
Tom-come-tickle-me
Toma
Tomah
Tomahawk
Tomas
Tomasina
Tomasine
Tomaso
Tomasz
Tombalbaye
Tomball
Tombaugh
Tombean
Tombigbee
Tombouctou
Tomchay
Tome
Tomi
Tomistoma
Tomkiel
Tomkin
Tomkins
Tomlin
Tomlinson
Tommaso
Tomme
Tommer
Tommi
Tommie
Tomming
Tommy
Tommy Atkins
Tommy Chaiken
Tommy gun
Tommye
Tomonaga
Tomopteridae
Tomopteris
Tomoyuki
Tompion
Tompkins
Tompkinsville
Toms
Toms River
Tomsbrook
Tomsk
Tomtitmouse
Ton Duc Thang
Ton Ton Macoutes
Tonalea
Tonasket
Tonawanda
Tonbridge
Toney
Tonga
Tonga Islands
Tongan
Tonganoxie
Tongas
Tongking
Tongrian
Tongue
Toni
Tonia
Tonica
Torie
Tonies
Tonikan
Tonina
Tonjes
Tonkawa
Tonkawan
Tonkin
Tonkinese
Tonking
Toni
Tonle Sap
Tonna
Tonneson
Tonnie
Tonnies
Tonopah
Tonry
Tontitown
Tonto
Tontobasin
Tontogany
Tony
Tourcoing
Toure
Tournai
Tourmay
Tournefortia
Tournefortian
Tourneur
Tours
Toussaint L'Ouverture
Toutle
Tova
Tovaria
Tovariaceae
Tove
Tovey
Towaco
Towanda
Towaoc
Towbin
Tower
Tower Hamlets
Tower of Babel
Tower of London
Tower weight
Towers
Towill
Towland
Town
Towne
Towner
Townes
Towney
Townie
Townley
Townsend
Townsend avalanche
Townsend plan
Townsend's solitaire
Townsendia
Townsendite
Townshend
Townshend Acts
Townsville
Townville
Towny
Towrey
Towroy
Towson
Toxeus
Toxey
Toxicodendron
Toxifer
Toxodon
Toxodontia
Toxoglossa
Toxostoma
Toxotes
Toxotidae
Toxylon
Toy
Toyah
Toyahvale
Toyama
Toye
Toynbee
Toyoiko
Toyota
Toyotomi
Tpr
Tr
Trabue
Trabzon
Tracaulon
Tracay
Trace
Tracee
Tracey
Trachearia
Tracheata
Trachelospermum
Tracheophorae
Trachiniae
Trachinidae
Trachinus
Trachodon
Trachodontidae
Trachoma
Trachomusae
Trachycarpus
Trachylinae
Trachymedusae
Trachypteridae
Trachypterus
Traci
Tracie
Tract
Tractarian
Tractarianism
Tracite
Tracy
Tracyton
Trades Union Congress
Tradescantia
Tradition sunday
Traer
Trafalgar
Trafford
Tragasol
Tragelaphus
Trager
Tragopogon
Tragulidae
Tragulina
Traguloidea
Tragulus
Trahern
Trahorne
Trahurn
Traill's flycatcher
Trainer
Trainor
Trajan
Trakas
Tralee
Tralles
Trallian
Trametes
Traminer
Trammel
Trampas
Tran
Tran Buu Kiem
Tran Thien Khiem
Tranquada
Tranquility
Tranquillity
Trans-Jordan
Trans-New Guinea phylum
Trans-Siberian Railroad
Trans-Siberian Railway
Trans-acherontic
Trans-adriatic
Trans-african
Trans-algerian
Trans-alleghenian
Trans-altaian
Trans-american
Trans-andean
Trans-andine
Trans-antarctic
Trans-apennine
Trans-arabian
Trans-asiatic
Trans-australian
Trans-austrian
Trans-balkan
Trans-baltic
Trans-canadian
Trans-carpathian
Trans-caspian
Trans-congo
Trans-cordilleran
Trans-danubian
Trans-egyptian
Trans-euphratean
Trans-euphrates
Trans-euphratic
Trans-eurasian
Trans-gangetic
Trans-germanic
Trans-grampian
Trans-himalayan
Trans-hispanic
Trans-iberian
Trans-indus
Trans-iraq
Trans-jordan
Trans-jovian
Trans-kei
Trans-libyan
Trans-manchurian
Trans-martian
Trans-martian
Trans-mersey
Trans-mississippi
Trans-mongolian
Trans-neptunian
Trans-niger
Trans-paraguayan
Trans-persian
Trans-pyrenean
Trans-rhenish
Trans-sahara
Trans-saharan
Trans-saturnian
Trans-severn
Trans-siberian
Trans-stygian
Trans-tiberine
Trans-ural
Trans-uranian
Trans-volga
Trans-zambezian
TransJordan
Transalpine Gaul
Transcaucasia
Transcaucasian
Transfiguration
Transit
Transite
Transition series
Transition zone
Transitional
Transjordanian
Transkei
Transteverine
Transvaal
Transvaal daisy
Transvaal jade
Transvaaler
Transvaalian
Transylvanian
Transylvanian
Transylvanian Alps
Trant
Tranzschelia
Trapa
Trapaceae
Trapani
Trappe
Trappe, La
Trappism
Trappist
Trappist cheese
Trappistes
Trappistine
Trasentine
Trasimene
Trasimeno
Trasimenus
Trask
Trema
Tremadoc slates
Tremain
Tremaine
Tremandra
Tremandraceae
Tremann
Trematoda
Trematodea
Trematodes
Trematosaurus
Tremayne
Trembly
Tremella
Tremellaceae
Tremellales
Trententina
Tremml
Tremont
Tremonton
Trempealeau
Trenary
Trenchard
Trengganu
Trenna
Trent
Trent Kaese
Trentepohlia
Trentepohliaceae
Trente
Trentino-Alto Adige
Trento
Trenton
Trentonian
Treponema
Trepostomata
Treron
Treronidae
Treroninae
Tresa
Tresca section
Trescha
Tresckow
Trescott
Trespedras
Trespinos
Tressa
Tressia
Treta Yuga
Treulich
Trev
Trev a
Trevah
Trevar
Trevelyan
Trever
Treves
Trevelthick
Trevett
Treviso
Treviso
Trevelthick
Trevor
Trevor
Trevorton
Trew
Trexlertown
Trey
Treynor
Trezevant
Tri
Tri-state
Triad
Triadelphia
Triadenum
Trial, The
Trianda
Triandria
Triangle
Triangula
Trianguli Australis
Triangulid
Triangulum
Triangulum Australis
Triangulum australis
Triangulum minor
Trianon
Trianta
Triarthus
Trias
Triassic
Triatoma
Tribett
Tribbett
Tribolium
Tribonema
Tribonemaceae
Tribulus
Triceratops
Trichechidae
Trichechus
Trichilia
Trichina
Trichinella
Trichinopoly
Trichiuridae
Trichiurus
Trichocephalus
Trichoderma
Trichodesmium
Trichodontidae
Trichoglossidae
Trichoglossinae
Trichogramma
Trichogrammatidae
Tricholaena
Tricholoma
Trichomanes
Trichomonadidae
Trichomonas
Trichonympha
Trichophyton
Trichoplax
Trichoptera
Trichopterygidae
Trichosanthes
Trichosporum
Trichostema
Trichostrongylus
Trichuris
Trici
Tricia
Tricladida
Triconodon
Triconodonta
Tricyrtis
Tridacna
Tridacnidae
Tridell
Tridentine
Tridentinian
Tridentum
Trient
Trientalis
Trier
Trieste
Trifolium
Trigere
Trigla
Trigidae
Triglochin
Trigona
Trigonella
Trigonia
Trigoniaceae
Trigoniidae
Trigonocephalus
Trigynia
Trikora
Trilafon
Trilbee
Trilbi
Trilbie
Trilby
Triley
Trilisa
Trill
Trilla
Trillbee
Trillby
Trilley
Trilliaceae
Trillium
Trilly
Trilobita
Trilophodon
Trimble
Trimera
Trimeresurus
Trimmer
Trimont
Trimurti
Trin
Trina
Trinacria
Trinacrian
Trinatte
Trinatte
Trinchera
Trincomalee
Trincomali
Trinee
Trinetta
Trinette
Tringa
Trini
Trinia
Trinidad
Trinidad and Tobago
Trinidadian
Trinil
Trinil man
Trinitarian
Trinitarianism
Trinity
Trinity Brethren
Trinity House
Trinity Sunday
Trinity in Unity
Trinity season
Trinity sitting
Trinity sunday
Trinity term
Trinkgeld
Trinl
Trinobantes
Trinorantum
Trinovant
Trinovantes
Trinucleus
Trinway
Triny
Trio
Triodon
Triodontes
Triodontidae
Triodontotoidea
Triodontoidei
Triodontophorus
Trioezia
Trion
Trional
Trionychidae
Trionychoideachid
Trionyx
Triopidae
Triops
Triostea
Trip
Triphasia
Trihora
Triphysite
Tritoma
Triton
Tritoness
Tritonia
Tritonic
Tritonidae
Tritonis
Trituberculata
Triturus
Tritylodon
Triumfetta
Triumph
Triune
Triune God
Triunitarian
Triunity
Triuridaceae
Triuridales
Triuris
Trivandrum
Trivoli
Trix
Trixi
Trixie
Trixy
Trizona
Tro
Troad
Troas
Trobiand Islands
Trochaic
Trochalopoda
Trochelminthes
Trochidae
Trochila
Trochili
Trochilus
Trochius
Trochodendraceae
Trochodendron
Trochosphaera
Trochosphaerida
Trochozoa
Trochus
Trocki
Troezenian
Troglodytes
Troglodytidae
Trot
Troth
Trotman's anchor
Trotsky
Trotskyism
Trotskyist
Trotskyist International
Trotskyite
Trotta
Trotter
Trotters
Trotwood
Troubetzkoy
Troup
Troupsburg
Trout
Troutdale
Troutman
Troutville
Trouvelot
Trouville
Trouvillion
Trow
Trowbridge
Troxell
Troxelville
Troy
Troyes
Troynovant
Troyon
Troytown
Trst
Trstram
Trubetskoi
Trubetzkoy
Trubow
Truc
Truce of God
Trucial Coast
Trucial Oman
Trucial States
Trucial sheikdoms
Truckee
Truckles
Truda
Trude
Trudeau
Trudey
Ts'ao Kuo-ch'iu
Tsai
Tsai Shen
Tsan
Tsana
Tsana Lake
Tsao Chin
Tsaritsyn
Tsattine
Tschaikovsky
Tscherkess
Tse
Tselinograd
Tseng
Tshi
Tshiluba
Tshombe
Tsaltaden
Tsimshian
Tsimshians
Tsinghai
Tsingyuan
Tsinkiang
Tsiolekovsky
Tsiranana
Tsitsihar
Tsoneca
Tsonecan
Tsonga
Tsuda
Tsuga
Tsugaru Strait
Tsugouharu
Tsui
Tsukahara
Tsuma
Tsung-li yamen
Tsushima
Tsushima current
Tsutsutsi
Tswna
Tswanas
Tu
Tualati
Tualatin
Tuamotu
Tuamotu Archipelago
Tuamotuan
Tuareg
Tuba
Tubac
Tubal-cain
Tubalcaín
Tubatulabal
Tubb
Tuberaceae
Tuberales
Tubercularia
Tuberculariaceae
Tubicola
Tubicolae
Tubifex
Tubificidae
Tubiflorales
Tubinares
Tubingen
Tubipora
Tubiporidae
Tubman
Tubuai Islands
Tubularia
Tubulariae
Tubularida
Tubulariidae
Tubulibranchiata
Tubulidentata
Tubulifera
Tubulipora
Tubuliporidae
Tubus astronomicus
Tucana
Tucanae
Tucano
Tuchman
Tuck
Tuckahoe
Tuckasegee
Tucker
Tuckerman
Tuckerton
Tuckie
Tucky
Tucson
Tucum
Tucuman
Tucumcari
Tucuna
Tuddor
Tudela
Tudesque
Tudor
Tudor arc
Tudor arch
Tudoresque
Tues
Tuesday
Tuesdays
Tufts
Tugela
Tugman
Tuileries
Tuinal
Tuinal pill
Tuinenga
Tujunga
Tukuler
Tukulor
Tula
Tulalip
Tulane
Tulare
Tulare County
Tularosa
Tulbaghia
Tulear
Tuleta
Tulia
Tulipa
Tulkepaia
Tull
Tullahassee
Tullahoma
Tulle
Tulley
Tullia
Tullian
Tullio
Tullius
Tullos
Tullus
Tullusus
Tully
Tulostoma
Tulsa
Tulu
Tulua
Tumacacori
Tumaco
Tumbes
Tumboa
Tumer
Tumion
Tums
Tumupasa
Tumwater
Tunas
Tunbridge Wells
Tuneberg
Tunebo
Tung
Tung Wang Kung
Tung-hu
Tunga
Tungan
Tungar Tube
Tungar rectifier
Tungting
Tungus
Tunguses
Tungusian
Tungusic
Tunguska
Tunica
Tunican
Tunicata
Tunis
Tunisia
Tunisian
Tunker
Tunkhannock
Tunnell
Tunnelton
Tunney
Tunnit
Tuolumne
Tuonela
Tupaia
Tupaiidae
Tupamaro
Tupamaro
Tupelo
Tupi
Tupi-Guarani
Turgot
Turi
Turin
Turina
Turing
Turing machine
Turino
Turisheva
Turk
Turk's-cap cactus
Turk's-cap lily
Turk's-head
Turk's-head cactus
Turkana
Turkdom
Turkery
Turkess
Turkestan
Turkey
Turkey Adana
Turkey carpet
Turkey oak
Turkey red
Turkey umber
Turkey-carpeted
Turkeydom
Turkeyism
Turki
Turkic
Turkicize
Turkification
Turkify
Turkish
Turkish Empire
Turkish bath
Turkish carpet
Turkish cat
Turkish coffee
Turkish crescent
Turkish delight
Turkish knot
Turkish paste
Turkish pound
Turkish rug
Turkish runic
Turkish tobacco
Turkish towel
Turkish-blue
Turkishly
Turkishness
Turkism
Turkistan
Turkize
Turklike
Turkman
Turkmen
Turkmenian
Turkmenistan
Turko-Tartar
Turko-albanian
Turko-bulg
Turko-bulgarian
Turko-byzantine
Turko-cretan
Turko-egyptian
Turko-german
Turko-greek
Turko-imamic
Turko-iranian
Turko-italian
Turko-mongol
Turko-persian
Turko-popish
Turko-tatar
Turko-tataric
Turko-teutonic
Turko-ugrian
Turko-venetian
Turkologist
Turkology
Turkoman
Turkoman carpet
Turkoman rug
Turkomania
Turkomanic
Turkomanize
Turkomans
Turkomen
Turkophil
Turkophile
Turkophilia
Turkophilism
Turkophobe
Turkophobia
Turkophobist
Turks and Caicos Islands
Turku
Turley
Turlock
Turlupin
Turmel
Turn of the Screw, The
Turnbull
Turnbull's blue
Turne
Turner
Turner's syndrome
Turnera
Turneraceae
Turneresque
Turnerian
Turnerism
Turners
Turnersburg
Turnersville
Turnerville
Turney
Turnhalle
Turnheim
Turnices
Turnicidae
Turnicomorphae
Turnix
Turnus
Turnus butterfly
Turoff
Turon
Turonian
Turpin
Turrell
Turrilepas
Turrilites
Turrilitidae
Turritella
Turritellidae
Turro
Tursenoi
Tursha
Tursiops
Turtan
Turtle
Turtletown
Turton
Turneydrop
Tuyuneiri
Tuzla
Tver
Twaddell
Twain
Twana
Twedy
Tweed
Tweeddale
Tweedledum and Tweedledee
Tweedsmuir
Twelfth Day
Twelfth Night
Twelfth-day
Twelfth-night
Twelfth-tide
Twelfth tide
Twelve
Twelve Tables
Twelve Tables, The
Twelver
Twenty-ounce
Twenty-six Men and a Girl
Twi
Twice-Told Tales
Twickenham
Twila
Twilight of the Gods
Twin Cities
Twin Falls
Twin Stars
Twinbrooks
Twining
Twinoaks
Twins
Twinsburg
Twisp
Twitt
Twittering Machine, The
Two Gentlemen of Verona, The
Two Harbors
Two Sicilies
Two Years Before the Mast
Two-and-a-half International
Two-kettle
Twombly
Twum
Twyla
U tube
U valley
U's
U-boat
U-boot
U-cut
U-shaped
U-stirrup
U-turn
U/S
UA
UAB
UAE
UAM
UAPDU
UAR
UARS
UART
UAW
UB
UBA
UBC
UBM
UC
UCAR
UCB
UCC
UCCA
UCD
UCI
UCL
UCLA
UCR
UCSB
UCSC
UCSD
UCSF
UDA
UDB
UDC
UDI
UDMH
UDP
UDR
UDT
UEC
UEL
UFC
UREP
US
US Air Force
US Air Force Academy
US Air Force Reserve
US Army Air Force
US Army Reserve
US Cabinet
US Coast Guard Academy
US Coast Guard Reserve
US Customs Service
US Marine Corps Reserve
US Merchant Marine Academy
US Military Academy
US National Air Service
US Naval Academy
US Naval Reserve
US agency
US attorney
US cavalry saddle
US dry measure
US highway
US liquid measure
US money
USA
USAAF
USAC
USAF
USAF Academy
USAN
USAR
USB
USC
USC&GS
USCA
USCG
USD
USDA
USE
USECC
USES
USFL
USG
USGA
USGS
USH
USHGA
USIA
Ultra-pluralism
Ultra-pluralist
Ultra-presbyterian
Ultra-puritan
Ultra-puritanical
Ultra-romanist
Ultra-tory
Ultra-toryism
Ultra-whig
Ultrasuede
Ultun
Ulu
Ulu-juz
Ulua
Ulund
Ulva
Ulvaceae
Ulvales
Ulvan
Ulyanovsk
Ulyssean
Ulysses
Uma
Umatilla
Umaua
Umayyad
Umbarger
Umbellales
Umbelliferae
Umbellula
Umbellularia
Umbellulidae
Umberto
Umberto I
Umbilicaria
Umbra
Umbria
Umbrian
Umbrian school
Umbriel
Umbro-etruscan
Umbro-florentine
Umbro-latin
Umbro-italic
Umbro-roman
Umbro-sabellian
Umbro-samnite
Umbro-sienese
Umbundu
Ume
Umea
Umeh
Umeko
Ummersen
Umont
Umpqua
Umtali
Un
Un Ballo in Maschera
Un-african
Un-american
Un-americanism
Un-americanization
Un-americanize
Un-anacreontic
Un-anglican
Un-anglicized
Un-asian
Un-athenian
Un-attic
Un-augian
Un-australian
Un-babylonian
Un-biblical
Un-biblically
Un-bostonian
Un-brahminic
Un-brazilian
Un-british
Un-buddhist
Un-chinese
Un-christlike
Un-christlikeness
Un-christliness
Un-christly
Un-christmaslike
Un-dominican
Un-doric
Un-egyptian
Un-elizabethan
Un-english
Un-englished
Un-englishmanlike
Un-etruscan
Un-european
Un-fenian
Un-finnish
Un-flemish
Un-florentine
Un-franciscan
Un-french
Un-georgian
Un-german
Un-germanic
Un-germanize
Un-grandisonian
Un-grecian
Un-greek
Un-gregorian
Un-hamitic
Un-hebraic
Un-hebrew
Un-hellenic
Un-hibernically
Un-hindu
Un-homeric
Un-horatian
Un-iberian
Un-icelandic
Un-indian
Un-indianlike
Un-ionic
Un-iranian
Un-irish
Un-irishly
Un-italian
Un-italiamate
Un-jacobean
Un-japanese
Un-jeffersonian
Un-johnsonian
Un-judaize
Un-kantian
Un-korean
Un-lacedaemonian
Un-latin
Un-lutheran
Un-machiavellian
Un-magyar
Un-malay
Un-maltese
Un-manchaeanize
Un-mediterranean
Un-methodize
Un-mexican
Un-miltonic
Un-mohammedan
Un-mongolian
Un-moorish
Un-mormon
Un-mosaic
Un-moslem
Un-moslemlike
Un-neapolitan
Un-norman
Un-norwegian
Un-olympian
Un-ovidian
Un-parisian
Un-parisianized
Un-peloponnesian
Un-persian
Un-petrarchan
Un-philadelphian
Un-pindaric
Un-pindarical
Un-pindarically
Un-platonic
Un-platonically
Un-polish
Un-portuguese
Un-presbyterian
Un-protestant
Un-protestantlike
Un-prussian
Un-prussianized
Un-pythagorean
Un-roman
Un-romanize
Un-romanized
Un-saracenic
Un-saxon
Un-scotch
Un-scottish
Un-scripturality
Un-semitic
Un-serbian
Un-shakespearean
Un-siberian
Un-sicilian
Un-slavic
Un-slavic
Un-southern
Un-spaniardized
Un-spanish
Un-spartan
Un-spenserian
Un-sundaylike
Un-swedish
Un-swiss
Un-teutonic
Un-thespian
Un-tudor
Un-turkish
Un-tuscan
Un-vedic
Un-venetian
Un-vergilian
Un-victorian
Un-viennese
Un-virgilian
Un-virginian
Un-voltairian
Un-wagnerian
Un-washingtonian
Un-welsh
Un-wordsworthian
Un-yankee
Una
Una boat
Unadilla
Unakhotana
Unalachtigo
Unalaska
Unalaska Island
Unami
Unamuno
Uncaria
Uncasville
Uncinaria
Uncinata
Uncinula
Uncle
Uncle Remus
Uncle Sam
Uncle Sugar
Uncle Tom
Uncle Tom's Cabin
Uncle Vanya
Uncompahgre
Unders
Underwood
Undine
Undis
Undry
Undset
Une
Une Saison En Enfer
Uneeda
Unesco
Unfederated Malay States
Ungava
Unger
Ungley
Unguiculata
Ungulata
Uni
Uniat
Uniat Rites
Uniate
Uniate Rites
Uniatism
Unicoi
Unifolium
Uniform Code of Military Justice
Uniformity Act
Unimak Island
Unio
Uniola
Union
Union Day
Union Flag
Union Jack
Union List of Serials
Union flag
Union of Burma
Union of South Africa
Uniondale
Unionhall
Unionidae
Unionism
Unionist
Unionist Party
Unionport
Uniontown
Unionville
Uniopolis
Uniroyal
Unit
Unit Citation
Unitarian
Unitarianism
Unitarianize
Unitas Fratrem
United
United Arab Emirates
United Arab Republic
United Arab States
United Brethren
United Church of Christ
United Empire Loyalist
United Kingdom
United Mexican States
United Nations
United Nations Children's Fund
United Nations Day
United Nations Educational
United Nations troops
United Party
United Presbyterian
United Press International
United Provinces
United Reformed Church
United States
United States Army
United States District Court
United States Employment Service
United States Information Agency
United States Marine Corps
United States Navy
United States Postal Service
United States Ship
United States Supreme Court
United States Tariff Commission
United States Tax Court
United States attorney
United States of America
United states
United-states-man
United-statesian
Unity
Unityhouse
Unityville
Univ
Univac
Universal Postal Union
Upper Chinook
Upper Cretaceous
Upper Egypt
Upper Michigan
Upper Palaeolithic
Upper Palatinate
Upper Peninsula
Upper Sandusky
Upper Silesia
Upper Tertiary
Upper Tunguska
Upper Volta
Upperco
Upperville
Uppsala
Upsala
Upshaw
Upson
Upton
Upupa
Upupidae
Ur
Ur of the Chaldees
Ur-Nammu
Uragoga
Ural
Ural Mountains
Ural-Altaic
Ural-altaian
Ural-altai
cUralian
Uralian emerald
Uralic
Uralo-altaian
Uralo-altai
Uralo-caspian
Uralo-finnic
Uran
Urana
Urania
Urania blue
Uranian
Uranicentric
Uranie
Uranidae
Uranoscopidae
Uranoscopus
Uranus
Urartean
Urartian
Urartic
Urata
Uravan
Urba
Urbai
Urbain
Urban
Urban I
Urban II
Urban III
Urban IV
Urban V
Urban VI
Urban VII
Urban VIII
Urbana
Urbani
Urbanist
Urbanna
Urbannai
Urbannal
Urbano
Urbanus
Urbas
Urbicolae
Urceolina
Urd
Urdar
Urdu
Urdummheit
Urdur
Uredinales
Uredineae
Urediniopsis
Uredo
Urena
Urey
Urfa
Urga
Urgel
Urginea
Urgonian
Urho Kekkonen
Uri
Uria
Uriah
Uriah Heep
Urial
Urian
Urias
Urich
Uriel
Urien
Uriia
Uriiah
Uriisa
Urim and Thummim
Urina
Urion
Uris
Urissa
Urita
Urmia
Urmston
Uro
Urocerata
Uroceridae
Urochorda
Urocoptidae
Urocoptis
Urocyon
Urocystis
Urodela
Uroglena
Uromastix
Uromyces
Uromycladium
Uropeltidae
Urophylctis
Uropsilus
Uropygi
Urquhart
Ursa
Ursa Major
Ursa Minor
Ursae Majoris
Ursae Minoris
Ursae minorids
Ursal
Ursala
Ursas
Ursel
Ursi
Ursid
Ursidae
Ursina
Ursola
Urson
Ursprache
Ursula
Ursulette
Ursulina
Ursuline
Ursus
Urta-juz
Urtext
Urtica
Urticaceae
Urticales
Urticastrum
Uru
Uruapan
Uruguayana
Uruguay
Uruguayan
Uruk
Urukuena
Uruchchi
Urumtsi
Urundi
Ury
Usanis
Usbeg
Usbegs
Usbek
Usbekas
Ushak
Ushant
Ushas
Usheen
Usher
Usherian
Ushijima
Usipetes
Usk
Uskara
Uskdar
Uskok
Uskub
Uskudar
Usnach
Usnea
Usneaceae
Uspallata Pass
Uspanteca
Ussher
Ussuri
Ust-Kamenogorsk
Ustarana
Ustash
Ustbem
Ustilaginaceae
Ustilaginales
Ustilaginoidea
Ustilago
Ustinov
Ustulina
Ustyurt
Usumbura
Usun
Ut
Uta
Utah
Utahan
Utamaro
Utas
Ute
Utes
Utgard
Utgard-Loki
Utham
Uther
Uther Pendragon
Uthrop
Utica
Uticas
Utimer
Utley
Utman khel
Utnapishtim
Uto-Aztecan
Uto-aztecan
Utopia
Utopian
Utopianize
Utopianizer
Utraquism
Utraquist
Utrecht
Utrecht velvet
VAFB
VAN
VANS
VAP
VAR
VASCAR
VASI
VAST
VAT
VAV
VAX
VAXBI
VB
VC
VCCI
VCM
VCO
VCR
VCS
VCU
VD
VDC
VDE
VDFM
VDI
VDM
VDT
VDU
VE
VEEGA
VEU
VEX
VF
VFEA
VFO
VFR
VFS
VFW
VFY
VG
VGA
VGF
VGI
VHD
VHDL
VHF
VHS
VHSIC
VI
VIC
VIFRED
VILE
VINE
VINES
VIP
VIR
VISTA
VITA
VIU
VJ
VL
VLA
VLBA
VLBI
VLF
VLIW
VLSI
VLT
VM
VMC
VMCF
VMCMS
VMD
VME
VMM
VMOS
VMR
VMRS
VMS
VMSP
VMTP
VN
VNF
VNL
VNLF
VNY
VO
VOA
VODAS
VOIR
VOIS
VOM
VOQ
VOR
VORT
VP
VPF
VPISU
VPN
VR
VRC
VRI
VRM
VRS
VS
VSAM
VSAT
VSB
VSE
VSO
VSOP
VSP
VSR
VSS
VSSP
VSX
VT
VT fuse
VT fuze
V TAM
VTC
VTI
VTO
VTOC
VTOL
VTP
VTR
VTS
VTVM
VU
VUIT
VUP
VV
VVSS
VW
VWS
VXI
Va
Vaal
Vaalpens
VaaS
Vaasa
Vaasta
Vacation Bible School
Vaman
Vampyrella
Vampyrellidae
Vampyrum
Van
Van Allen belt
Van Allen radiation belt
Van Buren
Van Devanter
Van Diemen Gulf
Van Diemen's Land
Van Dyck
Van Gogh
Van de Graaff generator
Van der Waal's forces
VanAtta
VanHook
Vanhaheim
Vanalstyne
Vanbrugh
Vance
Vanceboro
Vanceburg
Vancourt
Vancouver
Vancouveria
Vanda
Vandal
Vandalia
Vandalic
Vandemere
Vandemonian
Vandemonianism
Vanden
Vandenberg
Vander
Vanderbilt
Vandergrift
Vanderhoek
Vanderpoel
Vanderpool
Vandervelde
Vandervoort
Vandiemengan
Vandiver
Vanduser
Vandyke
Vandyke beard
Vandyke brown
Vandyke collar
Vandyke edge
Vandyke red
Vandyke-edged
Vandyne
Vane
Vanellus
Vanessa
Vanetha
Vanetten
Vange
Vanguard
Vanguardist
Vangueria
Vanhomrigh
Vanhorn
Vanhornesville
Vani
Vania
Vanier
Vanir
Vanist
Vanitory unit
Vanity Fair
Vanity fair
Vanity-fairian
Vanna
Vannai
Vanndale
Vannes
Vannevar
Vanni
Vannic
Vannie
Vannuys
Vanny
Vano
Vanorin
Vansant
Vansittart
Vantassell
Vanthe
Vanua Levu
Vanuatu
Vanvleck
Vanwert
Vanwyck
Varrian
Varro
Varronia
Varronian
Varronian canon
Varronian satire
Varsovian
Varuna
Varuni
Vary
Varysburg
Vas
Vasa
Vasa Cubrilovic
Vasari
Vasco da Gama
Vascons
Vaseline
Vashon
Vashtee
Vashti
Vashtia
Vasileior
Vasilek
Vasili
Vasiliki
Vasilis
Vasiliu
Vasily
Vasily Aksyonov
Vasily Garbuzov
Vasos
Vasquez
Vass
Vassalboro
Vassar
Vassaux
Vassell
Vassil Kolarov
Vassili
Vassili Dendramis
Vassily
Vassily Chuikov
Vasta
Vastah
Vasteras
Vastha
Vasthi
Vasti
Vasudeva
Vasundhara
Vasya
Vasyuta
Vat
Vateria
Vaterland
Vatican
Vatican City
Vatican Council
Vatican Library
Vatican Palace
Vatican city
Vatican codex
Vatican fragment
Vaticanism
Vaticanist
Vaticanization
Vaticanize
Vaticanus
Vatteluttu
Vatter
Vauban
Vauceria
Vauceriaceae
Vaucluse
Vaud
Vaudism
Vaudois
Vaughan
Vaughan Williams
Vaughn
Vaughnsville
Vaules
Vauxhall
Vauxhallian
Vayu
Vazimba
Ve
Veadar
Veal
Veator
Veats
Veblen
Veblenian
Veblenism
Veblenite
Veneres
Veneres
Veneridae
Veneta
Venetes
Veneti
Venetia
Venetian
Venetian ball
Venetian blind
Venetian dentil
Venetian door
Venetian galley
Venetian glass
Venetian point
Venetian red
Venetian school
Venetian sumac
Venetian window
Venetianed
Venetic
Venitis
Veneto
Venez
Venezia
Venezia Giulia
Venezia Tridentina
Venezia-Euganea
Venezuela
Venezuelan
Venice
Venice blue
Venice glass
Venice treacle
Venice turpentine
Venita
Venite
Venizelist
Venizelos
Venlo
Venloo
Venn
Venn diagram
Veno
Venola
Venolia
Vent
Venterea
Venterdorp
Vento
Ventose
Ventre
Ventress
Ventriculites
Ventriculitidae
Ventris
Ventura
Venture Scout
Venturi meter
Venturi tube
Venturia
Venu
Venus
Venus and Adonis
Venus de Milo
Venus flytrap
Venus hairstyle
Venus of Willendorf
Venus probes
Venus's curse
Venus's flower basket
Venus's flytrap
Venus's girdle
Venus's looking-glass
Venus's-flytrap
Venus's-girdle
Venus's-hair
Venusberg
Venuses
Venusian
Venustiano
Venuti
Venutian
Veps
Vepse
Vepshish
Ver
Vera
Vera Cruz
Veracruz
Verada
Veradale
Veradi
Veradia
Veradis
Veraly
Verny
Veron
Verona
Verona brown
Verona orris
Veronal
Veronese
Veronese green
Veronica
Veronicella
Veronicellidae
Veronika
Veronike
Veronique
Verpa
Verplanck
Verras
Verrazano
Verroccchio
Verrucaria
Verrucariaceae
Versailles
Vershen
Vershire
Versie
Verstand
Vertebraria
Vertebrata
Verthandi
Verticillium
Vertrees
Vertumnus
Verulamian
Verulanium
Verwanderung
Verwandlung, Die
Verwoerd
Verworn theory
Very Reverend
Very flare
Very light
Very lights
Very pistol
Vesalian
Vesalius
Vescuso
Veselin Djuranovic
Vesicularia
Vesiculata
Vesiculatae
Vespa
Vespasian
Vesper
Vespertilio
Vespertiliones
Vespertilionidae
Vespertilioninae
Vespidae
Vespina
Vespoidea
Vespucci
Vesta
Vestaburg
Vestalia
Vestas
Vestie
Vestigian
Vestini
Vestinian
Vestorian blue
Vesty
Vesuvian
Vesuvio
Vesuvius
Veta
Veterans Administration
Veterans Day
Veterans' Affairs
Veterans' Day
Vetiveria
Vetter
Vevay
Vevina
Vevine
Vey
Vezza
Vharat
Vi
Via
Via Dolorosa
Via Lactea
Via lactea
Viafore
Vial
Vian
Viareggio
Viatcheslav Fetisov
Vibhu
Viborg
Vibrio
Viburnum
Vic
Vic-en-Bigorre
Vicar of Bray
Vicar of Christ
Vicar of Jesus Christ
Vicara
Vicco
Viccora
Vice
Vice Chancellor's Court
Vice Pres
Vice-apollo
Vice-christ
Vice-god
Vice-godhead
Vicente
Vicenza
Vichy
Vichyite
Vici
Vicia
Vick
Vickers
Vickers number
Vickers-Maxim
Vickery
Vickey
Vicki
Vickie
Vicks Vaporub
Vicksburg
Vicky
Vico
Viconian
Viet
Victoir
Victoire
Victor
Victor Afanasiev
Victor Andrade
Victor Emmanuel III
Victor I
Victor II
Viddhal
VideoComp
Videvdat
Vidhan Sabha
Vidian
Vidor
Vidovic
Vidovik
Vidua
Viduinae
Viehmann
Vienna
Vienna International
Vienna Union
Vienna green
Vienna sausage
Vienne
Viennese
Viens
Vientiane
Vieques
Viereck
Vierendeel girder
Vierendeel truss
Vierno
Vierwaldstattersee
Viet
Viet Minh
Viet Nam
Vieta
Vietcong
Vietminh
Vietnam
Vietnam War
Vietnamese
Vietnamization
Vieva
Viewtown
Vig
Vigdis Finnbogadottir
Vigen
Vigilious
Viglione
Vignola
Vigny
Vigo
Vigor
Vigrad
Vilonia
Viminal
Vimy
Vin
Vina
Vinalia
Vinaya
Vinaya Pitaka
Vinca
Vince
Vince Boryla
Vincelette
Vincennes
Vincent
Vincent Askew
Vincent Barabba
Vincent Bugliosi
Vincent Cianci
Vincent de Paul
Vincent sauce
VinCENT's angina
VinCENT's infection
Vincenta
Vincete Aleixandre
Vincente Cauce
Vincentia
Vincentian
Vincentown
Vincents
Vincenty
Vincenz
Vincenzo
Vincetoxicum
Vinci
Vindelici
Vindemiatrix
Vindhya Hills
Vindhya Pradesh
Vindhya Range
Vine
Vineburg
Vineland
Vinemont
Vinethene
Vineyarder
Vingolf
Vinia
Vinicio Cerezo
Vislinsky Zaliv
Visotoner
Vistula
Vistulian
Vita
Vita Nuova
Vitaceae
Vitaglass
Vitale
Vitale Fedorchuk
Vitalian
Vitalis
Vitallium
Vitaphone
Vite
Vitebsk
Vitek
Vitharr
Vithi
Viti
Viti Levu
Vitia
Vitis
Vitkun
Vito
Vito Genovese
Vitoria
Vitria
Vitrina
Vitruvian
Vitruvian scroll
Vitruvian wave
Vitruvianism
Vitruvius
Vitruvius Pollio
Vitry
Vittore
Vittoria
Vittorio
Vitus
Vitus's dance
Viv
Viva
Vivaldi
Viveca
Vivekananda
Viverridae
Viverrinae
Vivi
Vivia
Vivian
Viviana
Viviane
Vivianna
Vivianne
Vivica
Vivie
Vivien
Viviene
Vivienne
Viviyan
VivI
Vivle
Vivyan
Vivyanne
Viyella
Viyella flannel
Vizagapatam
Vizcaya
Vize
Vizsla
Vizza
Vizzone
Vlaardingen
Vlach
Vlad
Vlada
Vladamar
Vladamir
Vladi
Vladikavkaz
Vladimar
Vladimir
Vladimir Ashkenazi
Vladimir Cernik
Vladimir Clementis
Vladimir Dedijer
Vladimir Dzhanibekov
Vladimir Houdek
Vladimir I
Vladimir Kirillin
Vladimir Kobylka
Vladivostok
Vlaminck
Vlasos Eliphteros
Vliets
Vlissingen
Vlor
Vlos
Vltava
Vlund
Vnern
Vo Nguyen Giap
Voca
Vocal Memnon
Voccola
Vochysiaceae
Vod
Voe
Voetian
Vogel
Vogele
Vogeley
Vogelweide
Vogul
Voiotia
Voityck Frykowski
Vojvodina
Vola
Volans
Volant
Volantis
Volapk
Volapuk
Volapuker
Volapukism
Volapukist
Volborg
Volcae
Volcanalia
Volcano Islands
Volcanus
Volding
Voleta
Voletta
Volga
Volga-baltaic
Volgograd
Volhynia fever
Volin
Volk
Vulkan
Volkerwanderung
Volksdeutsche
Wagneriana
Wagnerianism
Wagnerism
Wagnerist
Wagnerite
Wagnerize
Wagogo
Wagoma
Wagon
Wagoner
Wagontown
Wagram
Wagshul
Wagstaff
Wagtail
Waguha
Wagweno
Waha lake trout
Wahabi
Wahabiism
Wahabism
Wahabit
Wahabitism
Wahehe
Wahhabi
Wahhabiism
Wahhabism
Wahiawa
Wahima
Wahkiacus
Wahkon
Wahkuna
Wahl
Wahlenbergia
Wahlstrom
Wahoo
Wahpeton
Waialua
Waianaе
Waibling
Waicuri
Waicurian
Waiguли
Waiilatpuan
Waiikato
Waiikiki
Wailaki
Wailing Wall
Walliw
Wallkill
Wallon
Wallonian
Walloon
Walloon sword
Wallowa
Wallraff
Walls
Wallsburg
Wallsend
Wallula
Wally
Wally Masur
Walnut Creek
Walnut Ridge
Walnutshade
Walpapi
Walpole
Walpole tea
Walpolean
Walpurga
Walpurgis
Walpurgis Night
Walpurgisnacht
Walras
Walrath
Walsall
Walsenburg
Walsh
Walshville
Walsingham
Walston
Walstonburg
Walt
Walt Poddubny
Walter
Walter Mitty
Walterboro
Walterene
Walters
Waltersburg
Walterville
Walthall
Waltham
Waltham Forest
Walthamstow
Walther
War industries board
War of 1812
War of American Independence
War of Secession
War of the Austrian Succession
War of the Grand Alliance
War of the Nations
War of the Polish Succession
War of the Rebellion
War of the Spanish Succession
War office
Warangal
Warba
Warbeck
Warchaw
Ward
Warda
Warde
Wardell
Warden
Warden, The
Wardensville
Warder
Wardian case
Wardieu
Wardlaw
Wardle
Wardsboro
Wardtown
Wardville
Ware
Ware Shoals
Waregga
Wareham
Wareing
Warene
Waresboro
Wareshoals
Waretown
Warfeld
Warfield
Warfold
Warford
Warfordsburg
Warfore
Warfouard
Warga
Wargentin
Warhol
Warila
Waring
Warley
Warm Springs
Warminster
Warms
Warne
Warner
Warners
Warnerville
Warnock
Warori
Warp
Warr Acres
Warram
Warrau
Warren
Warren girder
Warren hoe
Warrendale
Warrenne
Warrens
Warrensburg
Warrensville
Warrenton
Warrensville
Warrenville
Warri
Warrick
Warrin
Warring
Warrington
Wars of the French Revolution
Wars of the Roses
Warsaw
Warsaw Pact
Warsaw Treaty Organization
Warta
Wartburg
Warthe
Warthen
Warthman
Warton
Wartow
Wartrace
Warua
Warundi
Warwick
Waterville
Watervliet
Watford
Watha
Wathen
Wathena
Watkin
Watkins
Watkins Glen
Watkinsville
Watling Island
Watonga
Watrous
Wateka
Watson
Watson and the Shark
Watson-Watt
Watsonia
Watsonian psychology
Watsonontown
Watsonville
Watt
Watteau
Watteau back
Wattenberg
Wattenscheid
Watters
Watterson
Watton
Watts
Wattsburg
Wattsville
Watusi
Watusis
Waubun
Wauchula
Waucoma
Wauconda
Waugh
Waukau
Waukee
Waukegan
Waukesha
Waukomis
Waukon
Wauna
Waunakee
Wauneta
Waupaca
Waupun
Waura
Waukapan
Waurika
Wausa
Wausau
Wausauke
Wauseon
Wauters
Wautoma
Wauwatosa
Wauzeka
Wave
Waveland
Wavell
Waverley
Waverley Novels
Waverly
Waves
Wavira
Wawaka
Wawarsing
Wawina
Wawro
Waxahachie
Waxhaw
Waxler
Waxman
Way
Way of All Flesh, The
Wayan
Wayao
Waycross
Waylan
Wayland
Waylen
Waylin
Waylon
Waymart
Waynant
Wayne
Wayne Angell
Wayne Fontes
Wayne Grady
Wayne Gretzky
Wayne Levi
Waynesboro
Waynesburg
Waynesfield
Waynesville
Waynetown
Waynoka
Wayolle
Ways and Means
Wayzata
Wazir
Wazirabad
Waziristan
Wb
WbN
WbS
Wbn
Wburg
Wea
Weaks
Weald
Wealden
Wealthy
Wealthy spot
Weanoc
Weapemeoc
Wear
Weare
Wearing
Weary Willie
Weasner
Weatherby
Weatherford
Weatherley
Weatherly
Weathers
Weatogue
Weaubleau
Weaver
Weavers, The
Weaverville
Web
Webb
Webbe Shebeli
Webbe Shibeli
Webber
Webberville
Webbville
Weber
Weber formation
Weberian
Weberian apparatus
Weberian ossicle
Webi Shebeli
Webley-Scott
Webster
Webster-Ashburton Treaty
Websterian
Websterville
Wechsler-Bellevue Scale
Wed
Weddell Sea
Weddell seal
Wedderburn
Wedekind
Wedge furnace
Wedgefield
Wedgie
Wedgies
Wedgwood
Wedgwood blue
Wedgwood green
Wedgwood ware
Wednesday
Wednesdays
Wedowee
Wedron
Wedurn
Weeb Ewbank
Weed
Weeda
Weedsport
Weedville
Weekley
Weeks
Weeksbury
Weelkes
Weems
Weepingwater
Weesatche
Wega
Wehner
Wehr
Wehrle
Wehrmacht
Wei
Weibel
Weichsel
Weidar
Weide
Weider
Weidman
Weidner
Weierstrass
Weierstrassian
Weig
Weigel
Weigela
Weight
Weightometer
Weigle
Weihai
Weihaiwei
Weihs
Weikert
Weil
Weil's disease
Weil-felix reaction
Weilaw Gornicki
Weiler
Weill
Weiman
Weimar
Weimar Republic
Weimaraner
Wein
Weinberg
Weinberger
Weinek
Weiner
Weinert
Weingarten
Weingartner
Weinhardt
Weinman
Weinmannia
Weinreb
Weinrich
Weinhienk
Weinstein
Weinstock
Weintrob
Weippe
Weir
Weird Sisters
Weirds
Welfare Island
Welfic
Welford
Welker
Welkom
Well-born
Welland Canal
Welland Ship Canal
Wellborn
Weller
Wellerism
Welles
Wellesley
Weltesz
Wellford
Welling
Wellingborough
Wellington
Wellington boots
Wellingtonia
Wellingtons
Wellman
Wellpinit
Wells
Wellsboro
Wellsburg
Wellsian
Wellston
Wellsville
Wellton
Wels
Welsbach burner
Welsbach mantle
Welsh
Welsh Black
Welsh Mountain
Welsh collie
Welsh corgi
Welsh dresser
Welsh harp
Welsh mountain pony
Welsh pony
Welsh poppy
Welsh rabbit
Welsh rarebit
Welsh springer spaniel
Welsh terrier
Welsh vault
Welsh-begotten
Welsh-born
Welsh-english
Welsh-fashion
Welsh-looking
Welsh-made
Welsh-rooted
Welsh-speaking
Welsh-wrought
Welshery
Welshism
Welshland
Welshlike
Welshman
Welshmen
Welshness
Welshry
Welshwoman
Welshwomen
Welshy
Weltanschauung
Weltansicht
Welton
Weltpolitik
Weltschmerz
Welty
Welwitschia
Welwyn Garden City
Wembley
Wemyss
Wen Ch'ang
Wen chang
Wen ti
Wenatchee
Wenceslaus
Wenchow
Wenchowese
Wend
Wenda
Wendall
Wendalyn
Wende
Wendel
Wendelin
Wendelina
Wendeline
Wendell
Wendell Berge
Wenden
Wendi
Wendic
Wendie
Wendin
Wendish
Wendolyn
Wendover
Wendt
Wendy
Wendy house
Wendye
Wenger
Wengert
Wenham
Wenlock
Wenlock formation
Wenlockian
Wenn
Wennerholn
Wenoa
Wenona
Wenonah
Wenrohronon
Wensleydale
Wensleydale cheese
Wentworth
Wentzville
Wenz
Wenzel
Wenzel bible
Weogufka
Weott
Wera
Werbel
Werby
Werchowinci
Werdnig-Hoffmann disease
Werfel
Werner
Wernerian
Wernerism
Wernersville
Wernher
Wernick
Wernsman
Werra
Wershba
Wertheim effect
Wertheimer
Werther
Wertherian
Wertherism
Wertz
Wes
Wesa
Wesco
Wescott
Weser
Wesermde
Weskan
Wesker
Wesla
Weslaco
Wesle
Weslee
Wesley
Wesleyan
Wesleyan Methodist
Wesleyanism
Wesleyism
Wesleyville
Wessex
Wessex saddleback
Wessexman
Wessington
Wessling
Wesson
West
West Allis
West Atlantic
West Bengal
West Berlin
West Bromwich
West Burlington
West Caldwell
West Carrollton
West Chester
West Chicago
West Coast
West Coast jazz
West Country
West End
West Flanders
West Flemish
West Frankfort
West Frisian
West German
West Germanic
West Germany
West Glamorgan
West Glens Falls
West Goth
West Gulfport
West Ham
West Hartford
West Hartlepool
West Haven
West Haverstraw
West Hazleton
West Helena
West Highland
West Highland white terrier
West Homestead
West Indian
West Indian cedar
West Indian gherkin
West Indian kale
West Indian satinwood
West Indies
West Indies Associated States
West Irian
West Linn
West Lothian
West Memphis
West Miami
West Midlands
West Mifflin
West Milwaukee
West Monroe
West New Guinea
West New York
West Newton
West Norriton
West Pakistan
West Palm Beach
West Paterson
West Pittston
West Plains
West Point
West Portsmouth
West Prussia
West Riding
West Saxon
Western Islands
Western Isles
Western Ocean
Western Reserve
Western Roman Empire
Western Sahara
Western Samoa
Western Slavs
Western Thrace
Western imperialism
Western saddle
Western story
Westerner
Westernport
Westerville
Westfahl
Westfalen
Westfall
Westfield
Westhead
Westinghouse
Westinghouse brake
Westland
Westlander
Westleigh
Westley
Westley Richards
Westlund
Westm
Westmeath
Westminster
Westminster Abbey
Westminster Assembly
Westmont
Westmoreland
Westmorland
Westmorland wrestling
Westney
Weston
Weston cell
Weston standard cell
Weston-super-Mare
Westphal
Westphal balance
Westphalia
Westphalian
Westport
Westpreussen
Whiskeytown
Whisson
Whistler
Whistler's Mother
Whistlerian
Whistonian
Whit
Whit Monday
Whit Sunday
Whit Week
Whit-Tuesday
Whit-week
Whitaker
Whitaker's Almanack
Whitakers
Whitaturalist
Whitby
Whitcher
Whitcomb
White
White Ensign
White Friar
White Hall
White House
White House, The
White Ladies of Normandy
White Lady
White Lady of Avenel
White Monk
White Mountains
White Nile
White Pass
White Plains
White Power
White River
White River Junction
White Rock
White Russia
White Russian
White Sea
White Slave Act
White Sunday
White Surrey
White Volta
White man's burden
White supremacy
Whitebird
Whitebook
Whiteboy
Whiteboyism
Whiteboys
Whitechapel
Whitechapel cart
Whiteclay
Whitefield
Whitefieldian
Whitefieldism
Whitefieldite
Whitefish
Whitefish Bay
Whitefoot
Whiteford
Whitehall
Whitehall Palace
Whitehall boat
Whitehead
Whiteheath
Whitehorse
Whitehouse
Whitehurst
Whiteland
Whitelaw
Whiteley
Whiteowl
Whitepost
Whitesboro
Whitesburg
Whiteside
Whitestone
Whitestown
Whitesville
Whitethorn
Whiteville
Whitewater
Whitewood
Whitewright
Whitfield
Whitford
Whitharral
Whiting
Whitchingham
Whitinsville
Whitlam
Whitlash
Whitley Bay
Whitleyism
Whitleyville
Whitlock
Whitman
Whitmanese
Whitmanesque
Whitmanism
Whitmanize
Whitmer
Whitmire
Whitmonday
Whitmore
Whitnell
Whitney
Whitneyville
Whitsett
Whitson
Whitsun
Whitsun ale
Whitsun farthings
Whitsun gillyflower
Whitsun monday
Whitsun tuesday
Whitsunday
Whitsuntide
Whitt
Whittaker
Whittemore
Whitten
Whittier
Whittington
Whittle
Whitver
Whitweek
Whitwell
Whitworth
Who's Who
Whon
Whorffian hypothesis
Whorton
Whyalla
Whyte
Wiak
Wiatt
Wibaux
Wiborg
Wiburg
Wichern
Wichita
Wichman
Wick
Wickatunk
Wickenburg
Wickes
Wickett
Wickham
Wickliffe
Wicklow
Wickman
Wickner
Wicks
Wicif
Wiconico
Wiconisco
Wideman
Widener
Widera
Widgery
Widnes
Widnoon
Widukind
Wie
Wiehmer
Wieche
Wiedmann
Wiegendled
Wieland
Wien
Wienecke
Wiener
Wiener Neustadt
Wiener Schnitzel
Wiener schnitzel
Wier
Wielen
Wiersma
Wiesbaden
Wiese
Wiesner theory
Wig
Wigan
Wiggin
Wiggins
Wigglesworth
Wight
Wightman
Wigner
Wigtown
Wigtownshire
Wilhnyk
Wijayananda Dahanayake
Wikeno
Wikieup
Wikstroemia
Wil
Wilbar
Wilber
Wilber Brucker
Wilberforce
Wilbert
Wilbraham
Wilbur
Wilburite
Wilburn
Wilburt
Wilburton
Wilcoe
Wilcox
Wild Duck, The
Wild Geese
Wild Hunt
Wild Huntsman
Wild West
Wild West show
Wilda
Wilde
Wildee
Wilden
Wilder
Wildermuth
Wilderness
Wildersville
Wildhorse
Wildie
Wildomar
Wildon
Wildorado
Wildrose
Wildsville
Wildwood
Wildwood Crest
Wileen
Wilek
Wilen
Willem Drees
Willem I
Willemstad
Willendorf
Willene
Willernie
Willesden
Willet
Willett
Willetta
Willette
Willey
Willi
Willi Daume
William
William Chappel
William Chappell
William Connole
William Crowe
William Dyess
William Foehre
William Francis Giauque
William Freund
William Gaess
William Gallegos
William Goppallawa
William Grede
William Gutse
William Heikkila
William Higham
William I
William II
William III
William IV
William Jennings Bryan
William Rose Benet
William Seidman
William Tell
William Van Rij
William of Malmesbury
William the Conqueror
Williams
Williamsburg
Williamsen
Williamsfield
Williamson
Williamsonia
Williamsoniaceae
Wimauma
Wimberley
Wimbledon
Wimpy
Wimsatt
Wimshurst generator
Wimshurst machine
Win
Wina
Winamac
Winburne
Wincer
Winchell
Winchendon
Winchester
Winchester bushel
Winchester rifle
Winckelmann
Wind
Wind Cave National Park
Wind River Range
Windaus
Windber
Windbreaker
Windelband
Winder
Windermere
Windesheimer
Windham
Windhoek
Windom
Windsor
Windsor Heights
Windsor bench
Windsor chair
Windsor knot
Windsor rocker
Windsor settee
Windsor tie
Windthorst
Windward Islands
Windward Passage
Windy
Windy City
Windyville
Windzer
Winebaum
Winebrennerian
Winer
Winesap
Winesburg
Winfall
Winfield
Winfred
Winfrid
Wing
Wingdale
Winged Victory
Winger
Wingina
Wingo
Wings of the Dove, The
Wini
Winifield
Winifred
Winifrede
Winigan
Winikka
Winkelman
Winkelried
Winlock
Winn
Winna
Winnabow
Winnah
Winne
Winnebago
Winnebagos
Winneconne
Winnecowet
Winnemucca
Winnepesaukee
Winner
Winnetka
Winnetoon
Winnett
Winnfield
Winni
Winnick
Winnie
Winnifred
Winnipeg
Winnipeg couch
Winnipegger
Winnipegosis
Winnipesaukee
Winzler
Wiota
Wira
Wirephoto
Wirephotoed
Wirephoting
Wirephotos
Wiros
Wirral
Wirth
Wirtz
Wis
Wisacky
Wisby
Wisc
Wiscasset
Wisconsin
Wisconsin Rapids
Wisconsin cheese
Wisconsinite
Wisd
Wisdom of Jesus
Wisdom of Solomon
Wise
Wise Men of the East
Wiseman
Wishek
Wisheksan
Wishram
Wisigothic
Wiskind
Wisla
Wislny Zalew
Wismar
Wisner
Wisnicki
Wissler
Wistaria
Wister
Wisteria
Wistrup
Wit
Witbooi
Witcher
Witha
Withams
Withania
Withee
Wolseley
Wolsey
Wolsky
Wolverhampton
Wolverine
Wolverine State
Wolverton
Womack
Womelsdorf
Women in Love
Women's Air Force
Women's Air Force Service Pilots
Women's Army Auxiliary Corps
Women's Army Corps
Women's Auxiliary Air Force
Women's Institute
Women's Liberation
Women's Royal Air Force
Women's Royal Army Corps
Women's Royal Naval Corps
Won
Wonacott
Wonalancet
Wonder
Wonewoc
Wong
Wongara
Wonnie
Wonsan
Woo
Wood
Wood Dale
Wood Tech
Wood cree
Wood's metal
Woodacre
Woodall
Woodard
Woodberry
Woodbine
Woodbourne
Woodbridge
Woodburn
Woodbury
Woodcliff Lake
Woodcock
Wooddale
Wooden
Woodfield
Woodford
Woodhead
Woodhouse
Woodhull
Woodie
Woodinville
Woodlake
Woodlawn
Woodleaf
Woodley
Woodlyn
Woodman
Woodmere
Woodring
Woodrow
Woodruff
Woodruff key
Woods
Woodsboro
Woodcross
Woodser
Woodsfield
Woodshole
Woodsia
Woodson
Woodson Terrace
Woodstock
Woodston
Woodstown
Woodsum
Woodsville
Woodville
Woodward
Woodwardia
Woodworth
Woody
Woolcott
Wooldridge
Woolf
Woolford
Woolley
Woollum
Woolrich
Woolson
Woolstock
Woolwa
Woolwich
Woolwine
Woolworth
Woomera
Woonsocket
Woop Woop
Wooster
Woosung
Wootan
Wootten
Wooton
Wooten
Worcester
Worcester china
Worcester sauce
Worcester ware
Worcestershire
Worcestershire sauce
Word
Worden
Wordsworth
Wordsworthian
Wordsworthianism
Work
Works Progress Administration
Works and Days
Worksop
Worl
Worland
World Almanac
World Bank
World Bank Group
World Council of Churches
World Court
World Cup
World Day of Prayer
World Federalism
World Health Organization
World Reason
World Series
World War I
World War II
World calendar
World war
World's Series
Worley
Worlock
Wormian
Worms
Wronskian
Wrottlesley
Wrycht
Wsan
Wtemberg
Wu
Wu'er Kaixi
Wu-lu-mu-ch'i
Wuchang
Wuchereria
Wuhan
Wuhsien
Wuhu
Wulf
Wulfe
Wulfila
Wullie
Wun
Wunder
Wunderkind
Wunderkinder
Wunderkinds
Wundt
Wundtian
Wuppertal
Wurm
Wurmian
Wurst
Wurster
Wurtsboro
Wurttemberg
Wurtz
Wurzburg
Wurzburger
Wusih
Wuthering Heights
Wutsin
Wy
Wyacunda
Wyalusing
Wyandot
Wyandots
Wyandotte
Wyandottes
Wyanet
Wyano
Wyarno
Wyat
Wyatan
Wyatt
Wyche Fowler
Wycherley
Wyck
Wyckoff
Wycliffe
Wycliffian
Wycliffism
Wycliffist
Wycliffite
Wyclifism
Wyclifite
Wyco
Wycoff
Wycombe
Wye
Wyeth
Wyethia
Wyeville
Wykeham
Wykehamical
Wykehamist
Wykoff
Wyld
Wylde
Wylen
Wyler
Wylie
Wylliesburg
Wylma
Wyly
Wyman
Wymer
Wymore
Wyn
Wynantskill
Wyncote
Wyndham
Wyndmere
Wyne
Wyneberley Coerr
Wyner
Wynn
Wynnburg
Wynne
Wynnewood
Wynnie
X-wave
X25
XA
XB
XBT
XCF
XD
XDMCP
XDR
XFE
XFER
XID
XIE
XIM
XINU
XL
XMI
XMM
XMS
XMTR
XN
XNS
XO
XOR
XP
XPG
XPG2
XPORT
XQ
XRM
XSECT
XT
XTAL
XTC
XUI
XUV
XVIEW
XWSDS
Xanadu
Xantha
Xanthe
Xanthian
Xanthidium
Xanthinthique
Xanthippe
Xanthisma
Xanthium
Xanthocephaeus
Xanthoceras
Xanthochroi
Xanthochroic
Xanthomelanoi
Xanthomonas
Xanthophyceae
Xanthopia
Xanthorrhiza
Xanthorrhoea
Xanthosoma
Xanthoura
Xanthoxalis
Xanthus
Xantippe
Xaverian
Xavier
Xavier Mcdaniel
Xavier Suarez
Xaviera
Xavler
Xe
Xema
Xena
Xenacanthini
Xenarchi
Xenarthra
Xenia
Xenicidae
Xenicus
Xeno
Xenoclea
Xenocratean
Xenocrates
Xenocratic
Xenoni
Xenomorpha
Xenopeltidae
Xenophanean
Xenophanes
Xenophon
Xenophonic
Xenophontean
Xenophontian
Xenophontic
Xenophontine
Xenophora
Xenophoridae
Xenopodidae
Xenopsylla
Xenopteri
Xenopterygii
Xenopus
Xenorhynchus
Xenos
Xenosauridae
Xenosaurus
Xenurus
Xeranthemum
Xeres
Xerophyllum
Xerox
Xerox copy
Xerox machine
Xerus
Xerxes
Xerxes I
Xever
Xhosa
Xi particle
Xian
Xicak
Xicaque
Ximena
Ximenes
Ximenes de Cisneros
Ximenez
Ximenez de Cisneros
Ximenia
Xina
Xinca
Xincan
Xing
Xingu
Xinhua
Xipe
Xipe Totec
Xipe-totec
Xiphias
Xipiidae
Xiphisura
Xiphiura iris
Xipiura
Xiphias
Xiphodon
Xiphodontidae
Xiphosura
Xiphosuridae
Xiphosurus
Xiphura
Xiphydria
Xiphydriidae
Xiraxara
Xmas
Xn
Xnty
Xograph
Xopher
Xosa
Xt
Xtian
Xty
Xuthus
Xylaria
Xylariaceae
Xyleborus
Xyla
Xylina
Xylocopa
Xylocopidae
Xylon
Xylonite
Xylophaga
Xylophagidae
Xylophagus
Xylophia
Xylomas
Xylotrya
Xymenes
Xyrichthys
Xyridaceae
Xyridales
Xyris
Y
Y axis
Y box
Y branch
Y bridge
Y chromosome
Y connection
Y cross
Y current
Y curve
Y joint
Y level
Y ligament
Y moth
Y point
Y potential
Y theodolite
Y track
Y tube
Y winding
Y's
Y-chromosome
Y-gun
Y-level
Y-potential
Y-shaped
YA
YACC
YB
YCL
YHA
YHVH
YHWH
YMCA
YMCathA
YMHA
YOB
YP
YPSCE
YPVS
YRS
YSO
YST
YT
YTD
YU
YV
YWCA
YWHA
YY
Yaakov
Yablon
Yablonoi Mountains
Yablonovoï
Yablonovy Mountains
Yabucoa
Yabuku Gowon
Yacano
Yachats
Yacolt
Yankee horse trader
Yankee-doodle
Yankee-doodledom
Yankee-doodleism
Yankeedom
Yankeeified
Yankeeify
Yankeeifying
Yankeeism
Yankeeist
Yankeize
Yankeeland
Yankeeeness
Yankeetown
Yankton
Yanktonai
Yann
Yannigan
Yannina
Yantic
Yantis
Yao
Yao yin
Yao-min
Yaounde
Yaoundor Yaunde
Yap
Yaphank
Yapman
Yapur
Yaqui
Yaquina
Yarak
Yarborough
Yard
Yardley
Yards
Yarkand
Yarmouth
Yarmuk
Yarnell
Yaron
Yaroslavl
Yaru
Yarura
Yaruran
Yaruro
Yarvis
Yasht
Yashts
Yasmeen
Yasmin
Yasmine
Yasna
Yasnian
Yasser Arafat
Yassy
Yasu
Yasuhiro Nakasone
Yasui
Yasuo
Yate
Yates
Yatesboro
Yatesville
Yatigan
Yatvyag
Yatzeck
Yauapery
Yauco
Yaunde
Yavapai
Yavar
Yawata
Yawkey
Yaya
Yazbak
Yazd
Yazdegerdian
Yazoo
Yb
Ydalir
Yeaddiss
Yeager
Yeagertown
Yeargain
Yearwood
Yeaton
Yeats
Yeatsian
Yecies
Yed posterior
Yed prior
Yedo
Yee
Yefremov
Yonatan
Yoncalla
Yong
Yonina
Yonit
Yonita
Yonkalla
Yonkers
Yonkersite
Yonne
Yoo
Yoong
Yordan
Yorgen
Yorgo
Yorgos
Yorick
York
York boat
Yorke
Yorke Peninsula
Yorker
Yorkish
Yorkist
Yorklyn
Yorks
Yorkshire
Yorkshire Dales
Yorkshire bond
Yorkshire pudding
Yorkshire terrier
Yorkshire tyke
Yorkshireism
Yorkshireman
Yorksppings
Yorkton
Yorktown
Yorkville
Yoruba
Yorubaland
Yoruban
Yorubas
Yosef Burg
Yosemite
Yosemite Falls
Yosemite National Park
Yoshi
Yoshihito
Yoshiko
Yoshio
Yoshkar-Ola
Yost
You Can't Go Home Again
You Can't Take It With You
Youlou
Youlton
Young
Young Ireland
Young Italy
Young Lonigan
Young Pretender
Young Turk
Young plan
Young's modulus
Younger
Younger Edda
Younglove
Youngman
Youngran
Youngstown
Youngsville
Youngtown
Youngwood
Yountville
Your Excellency
Your Highness
Your Ladyship
Your Lordship
Your Majesty
Yousaf Abu Hantash
Youskevitch
Yousuf
Yvonnda
Yponomeuta
Yponomeutid
Yponomeutidae
Ypres
Ypsilanti
Ypurinan
Yqem
Yreka
Ysabel
Ysaye
Yser
Yseult
Yseulta
Yseulte
Ysolde
Yssel
Yt
Yu
Yuan
Yuapin
Yucaipa
Yucat
Yucatan
Yucatec
Yucatecan
Yucateco
Yucatecs
Yucatnel
Yucca
Yuchi
Yuechi
Yueh-pan
Yuga
Yugo
Yugo-Slav
Yugoslav
Yugoslavia
Yugoslavian
Yugoslavic
Yuhas
Yuille
Yuit
Yuji
Yuk
Yukaghir
Yukaghirs
Yukawa
Yuki
Yukian
Yukio
Yukon
Yukon River
Yukon time
Yukoner
Yul
Yulan
Yule
Yule log
Yulee
Yuletide
Yulma
Yuma
Yuman
Yumas
Yumuk
Yun
Yunca
Yuncan
Yunfei
Yung
Yung-cheng
Yungkia
Yungning
Yunick
Yunnan
Yunnanese
Yup
Yurak
Yurev
Yuri
Yuri Andropov
Yuri Churbanov
Yuri Dubynin
Yuri Gagarin
Yuria
Yurik
Yurimaguas
Yurok
Yursa
Yurt
Yurucare
Yurucarean
Yurucari
Yurujure
Yuruk
Yuruna
Yurupary
Yusem
Yustaga
Yusuk
Yutan
Yuu
Yuzik
Yuzovka
Yvelines
Yves
Yves Chataigneau
Yvette
Yvon
Zacatec
Zacatecas
Zacateco
Zaccaria
Zacek
Zach
Zachar
Zacharia
Zachariah
Zacharias
Zacharie
Zachary
Zacherie
Zachery
Zachow
Zack
Zackariah
Zackary
Zacks
Zacynthus
Zadack
Zadar
Zadkiel
Zadkine
Zadoc
Zadok
Zadokite
Zagazig
Zaghlul Pasha
Zaglossus
Zagreb
Zagreus
Zagros Mountains
Zagut
Zahara
Zahavi
Zahedan
Zahidan
Zahl
Zaid
Zailer
Zaire
Zairean
Zaitha
Zak
Zakaria
Zakarias
Zaki Hashem
Zantedeschia
Zanthorrhiza
Zanthoxylaceae
Zanthoxylum
Zantiot
Zantos
Zanuck
Zanzalian
Zanze
Zanzibar
Zanzibar copal
Zanzibari
Zapara
Zaparan
Zaparo
Zaparoan
Zapata
Zaphetic
Zaphrentidae
Zaphrentis
Zapodidae
Zapodinae
Zaporogian
Zaporogue
Zaporozhe
Zaporozhye
Zapotec
Zapotecan
Zapoteco
Zappa
Zaptoeca
Zapus
Zaqaziq
Zaque
Zara
Zaragoza
Zarah
Zaramo
Zarathustra
Zarathustrian
Zarathustrianism
Zarathustric
Zarathustrism
Zard Kuh
Zardeh Kuh
Zardushti
Zare
Zared
Zeeman effect
Zeena
Zeffirelli
Zeguha
Zehe
Zeidae
Zeidman
Zeiger
Zeigler
Zeiler
Zeiss
Zeist
Zeitgeist
Zeitler
Zeke
Zel
Zela
Zelanian
Zelazny
Zelda
Zelde
Zelienople
Zelig
Zelikow
Zeljko Franulovic
Zelkova
Zell
Zella
Zellamae
Zelle
Zellerbach
Zellner
Zellwood
Zelma
Zelmira
Zelos
Zelten
Zeltinger
Zemstrom
Zen
Zen Buddhism
Zena
Zenaga
Zenaida
Zenaidinae
Zenaidura
Zenas
Zend
Zend-Avesta
Zend-avesta
Zend-avestaic
Zendah
Zendic
Zenelophon
Zener diode
Zenger
Zenia
Zenic
Zenist
Zennas
Zennie
Zeno
Zeno of Citium
Zeno of Elea
Zeno the Stoic
Zenobia
Zenon Kliszko
Zenonian
Zenonic
Zeoidar
Zeona
Zep
Zeph
Zephan
Zephaniah
Zephyr
Zephyranthes
Zephyrhills
Zephyrinh
Zephyrus
Zepelin
Zeralda
Zerelda
Zerk
ZerlaZerlina
Zerline
Zerma
Zermatt
Zermelo's axiom
Zernike
Zero-zero
Zerol gear
Zerubbabel
Zervan
Zervanism
Zervanite
Zeta
Zetana
Zetes
Zethar
Zethus
Zetland
Zetta
Zeuctocoelomata
Zeuglodon
Zeuglodonta
Zeuglodontia
Zeuglodontidae
Zeugobranchia
Zeugobranchiata
Zeus
Zeuxian
Zeuxis
Zeuzera
Zeuzeridae
Zhang
Zhang Aiping
Zhang Chungqiao
Zhao Ziyang
Zhdanov
Zhitomir
Zhivkov
Zhmud
Zhukov
Zia
Zia ul Haq
Ziagos
Ziaur Rahman
Zicarelli
Zidkijah
Ziegfeld
Ziegler
Ziegler catalyst
Zieglererville
Zielsdorf
Zif
Zigeuner
Zigmund
Zigrang
Ziguard
Ziguinchor
Zilber
Zildjian
Zilla
Zillah
Zilpah
Zilvia
Zim
Zima
Zimbabwe
Zimbalist
Zimmer
Zimmerman
Zimmermann
Zimmerwaldian
Zimmerwaldist
Zina
Zinah
Zincalo
Zinck
Zinder
Zindman
Zinfandel
Zingale
Zingg
Zingiber
Zingiberaceae
Zinjanthropus
Zink
Zinn
Zinnes
Zinnia
Zino
Zinoviev
Zinovievsk
Zins
Zinsser
Zinzar
Zinzendorf
Zinziberaceae
Zion
Zion National Park
Zionism
Zionist
Zionistic
Zionite
Zionless
Zionsville
Zionville
Zionward
Zip
Zoarite
Zoba
Zobe
Zobias
Zobkiw
Zoe
Zoeller
Zoellick
Zoes
Zoffany
Zogu I
Zoha
Zohak
Zohar
Zohara
Zoharist
Zoharite
Zoi
Zoie
Zoiia
Zoilean
Zoilism
Zoilist
Zoilla
Zoilus
Zola
Zolaesque
Zolaism
Zolaist
Zolaistic
Zolaize
Zoldi
Zoller
Zollernia
Zollie
Zollner
Zollner illusion
Zollverein
Zolly
Zolnay
Zolner
Zoltai
Zoltan Gombos
Zomba
Zona
Zonaria
Zond
Zonda
Zosteraceae
Zosteria
Zosteropinae
Zosterops
Zouave
Zouave jacket
Zoubek
Zoug
Zoysia
Zr
Zrich
Zrike
Zsa
Zsa Zsa
Zsa Zsa Gabor
Zsazsa
Zsigmondy
Zsolway
Ztopek
Zu’lkadah
Zu-zu
Zuben el genubi
Zubeneschamali
Zubird
Zubkoff
Zuccari
Zuccaro
Zucchero
Zucker
Zuckerman
Zug
Zui
Zuian
Zuider Zee
Zuidholland
Zulch
Zuleika
Zulema
Zulfikar Ali Bhutto
Zulhijjah
Zulinde
Zulkadah
Zullinger
Zullo
Zuloaga
Zulu
Zulu-kaffir
Zuludom
Zuluize
Zululand
Zulus
Zumbrota
Zumstein
Zumwalt
Zungaria
Zuni
Zunian
Zupus
Zurbar
Zurbaran
Zurek
Zurheide
Zurich
Zurkow
Zurn
Zurvan
Zusman
Zutugil
Zuyder Zee
Zuzana
Zviad Gamsakhurdia
Zwart
Zweig
Zwick
Zwickau
Zwicky
Zwieback
Zwiebel
Zwingle
Zwingli
Zwinglian
Zwinglianism
Zwinglianist
Zwolle
Zworykin
Zygadenus
Zygaena
Zygaenidae
Zygnema
Zygnemaceae
Zygnemales
Zygnemataceae
Zygnematales
Zygobranchia
Zygobranchiata
Zygocactus
Zygodactylae
Zygodactyli
Zygomycetes
Zygophyceae
Zygophyllaceae
Zygophyllum
Zygoptera
Zygopteraceae
Zygopterides
Zygopteris
Zygosaccharomyces
Zyrenian
Zyrian
Zyryan
Zysk
Zythia
Zyzomys
Zyyzogeton
Zz
a Chinaman's chance
a Roland for an Oliver
a bad penny
a barren waste
a bas
a base
a battery
a being
a belief
a beneplacito
a better place
a bill of goods
a billion
a bit
a bit different
a bit much
a bit previous
a bit thick
a bit thin
a blanc
a bon marche
a brain-spattering
a breath
a broken reed
a bum rap
a bundle of nerves
a capite ad calcem
a cappella
a capriccio
a car in every garage
a card up your sleeve
a certain
a certain number
a cheval
a chicken in every pot
a comedy to those who think
a continental
a contre cour
a corner on
a corps perdu
a corpse upon the road of night
a couple of
a couvert
a crore
a crown of glory
a curse
a cut above
a damn
a dark illimitable ocean
a darn
a datu
a deal
a debt we all must pay
a decent sort of fellow
a demain
a deux
a diet of cake
a dime a dozen
a discretion
a disgrace to your name
a divinity that shapes our ends
a dog's life
a dome of many-colored glass
a drawing toward
a drop in the bucket
a drop in the ocean
a due
a fabulous
a fair field and no favor
a far cry
a far cry from
a fat chance
a fat lot
a fatal complaint
a feather in your cap
a few
a few words of wisdom
a finder of occasions
a fire-red cherubim's face
a fond
a fool
a form of catharsis
a form of genius
a fortiori
a fortiori reasoning
a game of circles
a game two can play
a gentleman and a scholar
a ghost of a chance
a globe burnt out
a god in ruins
a gogo
a good hand at
a good ways off
a great deal
a greater number
a habit
a hall
a hand at
a hand for
a handicraft in flower
a handmaid to religion
a hard
a hieroglyphic
a high
a hit below the belt
a hive of glass
a hog for
a hoot
a huis clos
a hundred to one
a jillion
a kind of praise
a knave
a l'allemande
a l'americaine
a l'anglaise
a l'aurore
a l'espagnole
a l'estragon
a l'étouffée
a l'improviste
a l'italienne
a la
a la Chateaubriand
a la Crecy
a la Croissy
a la Maintenon
a la Marengo
a la Maryland
a la Newburg
a la Perigord
a la Soubise
a la bearmaise
a la bonne femme
a la bordelaise
a la bourgeoise
a la carte
a la casserole
a la cocotte
a la coque
a la creole
a la dauphine
a la dauphinoise
a la derobee
a la diable
a la francaise
a la godiveau
a la grecque
a la jardiniere
a la julienne
a la king
a la lyonnaise
a la macedoine
a la maitre d'hôtel
a la matelote
a la mire
a la mode
a la mode de Caen
a la mort
a la napolitaine
a la normande
a la parisienne
a la polonaise
a la printaniere
a la ravigote
a la reine
a la russe
a la serviette
a la sourdine
a la suisse
a la tartare
a la vinaigrette
a lac
a lakh
a lamp unto my feet
a leg up
a lick and a promise
a life of dignified otiosity
a lily-livered
a little
a little at a time
a little learning
a little one-eyed
a little sleep
a little slumber
a little thing
a little too thick
a load off your mind
a long cry to
a long lesson in humility
a long pull
a long time ago
a long way off
a long while ago
a lot
a lot alike
a lot going for one
a lot on the ball
a lot to do with
a lot to say about
a man
a man among men
a mass of
a mensa et thoro
a mile long
a mile off
a million
a mind of your own
a minor form of despair
a mite different
a moment standing still for ever
a monster begot upon itself
a month of Sundays
a myriad
a necessary evil
a new lease on life
a nickname of Providence
a nipping and an eager air
a noble and expressive language
a nobody
a nonillion
a nose for news
a nothing
a novice at
a number
a number of times
a outrance
a pack of lies
a paltry thing
a party to
a pas de geant
a pat on the back
a per se
a person of low taste
a perte de vue
a piacere
a pick a back
a piece of cake
a piece of the action
a place in the sun
a placing over against
a plague upon
a play for time
a play of passion
a plomb
a poco
a poem without words
a poor
a posteriori
a posteriori reasoning
a pox upon
a prendre
a preparation
a pretty mocking of the life
a pretty penny
a priori
a priori knowledge
a priori principle
a priori reasoning
a priori truth
a propos
a punta d'arco
a pure and grandfather moss
a putting or inflicting upon
a putting or lying between
a quadrillion
a quarter after
a quarter of
a quarter past
a quarter to
a quo
a radical change
a rascal
a rascally yeaforsooth knave
a reasoning animal
a reh break
a reckoning of
a reculons
a rivederci
a robbery
a ruined world
a runout powder
a sadder and a wiser man
a sandpile we run our fingers in
a screw loose
a seat where gods might dwell
a set of lies agreed upon
a short life and a merry one
a short time ago
a single separate person
a slipper and subtle knave
a sort of second nature
a sound mind in a sound body
a stitch in time
a stranger to
a string to it
a stroke above
a strong brown god
a strong pull
a sucker
a tale told by an idiot
a tale-bearing animal
a tall order
a tattered coat upon a stick
a temple sacred by birth
a tempo
a tergo
a theft
a thing for
a thing that shades
a thing to be desired
a thinking reed
a third something
a thousand
a thousand and one
a thousandfold
a thrusting away
a tinker's damn
a tool-making animal
a tool-using animal
a tooth for a tooth
a toute a l'heure
a toute outrance
a tragedy to those who feel
a transient madness
a turn to the right-about
a tyrant
a tyro at
a vast
a verray parfit gentil knight
a vinculo matrimonii
a vol
a votre sante
a way back
a whoreson
a wild of sand
a will of your own
a wise passiveness
a world of
a world-without-end bargain
a year and a day
a young person
a zillion
a-
a-be
a-bomb
a-borning
a-c
a-clock
a-coast
a-cock-bill
a-cock-horse
a-compass
a-cry
a-dance
a-dangle
a-dead
a-deep
a-doors
a-flicker
a-game
a-glimmer
a-glucosidase
a-good
a-gore-blood
a-height
a-hey
a-high
a-high-lone
a-hold
a-horizon
a-horseback
a-hunt
a-morrow
a-pieces
a-pinch
a-plenty
a-poop
a-quarter
a-quiver
a-rake
a-riot
a-ripple
a-roar
a-room
a-root
a-row
a-sale
a-sea
a-seethe
a-seity
a-shake
a-shine
a-shipboard
a-shiver
a-simmer
a-slug
a-smear
a-smoulder
a-snort
a-soak
a-south
a-sparkle
a-spout
a-sprawl
a-spread
a-sprout
a-squat
a-squirm
a-starboard
a-stare
a-start
a-stay
a-stays
a-straddle
a-strain
a-strand
a-strut
a-sudden
a-swarm
a-swash
a-sway
a-sweat
a-swim
a-swing
a-swoon
a-temporal
a-thrill
a-throb
a-throng
a-tiptoe
a-tolyl
a-tremble
a-trip
a-try
a-tumble
a-twain
a-twist
a-twitter
a-two
a-v
a-weather
a-week
a-west
a-wheels
a-whet
a-whiles
a-whir
a-whirl
a-wing
a-wink
a-wobble
a-work
a-wrack
a-wreak
a-year
a-yelp
a/cs pay
a/cs rec
ab aeterno
ab extra
ab initio
ab intra
ab origine
ab ovo
ab ovo usque ad mala
ab urbe condita
ab-
abacus major
abacus pythagoricus
abalone shell
abandon hope
abandon the world
abandoned person
abandoned thing
abase bemean
abase yourself
abatement of differences
abb wool
abbey counter
abbey laird
abbey lands
abbey lubber
abbot cloth
abbreviated number
abc soil
abdominal epilepsy
abdominal hernia
abdomino-uterotomy
abducens nerve
abducent nerve
abelian group
aberdeen angus
aberrant duct
aberration constant
abide by
abide in
abide with
abide your time
abiding place
abietic acid
abject apology
abject defeat
abject fear
ablative absolute
ablative operation
able rating
able seaman
able to adapt
able to bend without breaking
able to pay
able to roll with the punches
able to walk the chalk
able to walk the chalk line
able to walk the chalk mark
able-bodied
able-bodied seaman
able-bodiedness
able-minded
able-mindedness
ablation room
abnormal psychology
abo group
abo system
aboard the bandwagon
abode of the blessed
abode of the damned
abode of the dead
aboli fruit
abominable snowman
abortive attempt
abound with
abounding in riches
about face
about it and about
about ship
about the bush
about this size
about to
about to be
about to happen
about to piss your pants
about turn
about-face
about-faced
about-facing
about-ship
about-shipped
about-shipping
about-sledge
about-turn
above all
above all that
above and beyond
above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
above-cited
above-found
above-given
above-mentioned
above-named
above-quoted
above-reported
above-said
above-water
above-written
abraham-man
abraum salts
abraxia stone
abreast of
abreast of the times
abruptly acuminate
abruptly pinnate
abs-
abscisic acid
absciss layer
abscission layer
abscission zone
absence flag
absence of assignable cause
absence of authority
absence of charge
absence of color
absence of mind
absence of motion
absence state
absence without leave
absent flag
absent treatment
absent voter
absent without leave
absent yourself
absent yourself from
absent-minded
absent-mindedly
absent-mindedness
absente reo
absentee ballot
absentee landlord
absentee vote
absentee voter
absentee voting
absinthe green
absinthe oil
absit omen
absolute alcohol
absolute altimeter
absolute altitude
absolute angstrom
absolute ceiling
absolute certainty
absolute complement
absolute contradiction
absolute convergence
absolute credibility
absolute ego
absolute fact
absolute free will
absolute humidity
absolute idea
absolute idealism
absolute idealist
absolute impediment
absolute index of refraction
absolute indication
absolute interest
absolute likeness
absolute magnitude
absolute majority
absolute master
absolute maximum
absolute minimum
absolute monarch
absolute monarchy
absolute music
absolute permeability
absolute permittivity
absolute pitch
absolute power
absolute realism
absolute ruler
absolute scale
absolute space
absolute spirit
absolute temperature
absolute unit
absolute value
absolute veto
absolute viscosity
absolute zero
absolutely no
absolutely right
absorb the attention
absorb the shock
absorb the thought
absorb the thoughts
absorbed attention
absorbed by
absorbed in
absorbed in thought
absorbed interest
absorbed with
absorbent cotton
absorber oil
absorbing well
absorption and regurgitation
absorption band
absorption bands
absorption circuit
absorption coefficient
absorption current
absorption discontinuity
absorption dynamometer
absorption edge
absorption factor
absorption limit
absorption lines
absorption pipette
absorption screen
absorption spectrum
absorption system
abstain from
abstinence from food
abstinence theory
abstract algebra
abstract art
abstract classicism
abstract classicist
abstract expressionism
abstract expressionist
abstract group
abstract idea
abstract mathematics
acajou balsam
acanth-
acantho-
acanthosis nigricans
acanthus family
acanthus leaf
acaroid gum
acaroid resin
acaroid resins
accede to
accede to prejudice
accede to the throne
acceleration coefficient
acceleration due to gravity
acceleration note
acceleration of free fall
acceleration of gravity
acceleration principle
accelerator globulin
accelerator nerve
accent mark
accentual meter
accept Christ
accept a challenge
accept advice
accept for gospel
accept implicitly
accept obligation
accept responsibility
accept the responsibility
accept unquestioningly
accept your fate
accept your lot
acceptable person
acceptance bill
acceptance house
acceptance race
acceptance sampling
acceptance speech
acceptance supra protest
accepted conduct
accepted fact
accepted masons
accepted meaning
acceptor atom
acceptor impurity
acceptor supra protest
access road
accrual basis
accrue from
accrue to
accrued dividend
accrued dividends
accrued interest
accrued liability
accumulated dividends
accumulation factor
accumulation point
accusative-dative
accuse of
accuse yourself
accustom yourself to
ace in the hole
ace point
ace-high
acet-
acetal phosphatide
acetate green
acetate nitrate
acetate rayon
acetic acid
acetic acid amide
acetic anhydride
aceto-
acetoacetic acid
acetone alcohol
acetone body
acetone chloroform
acetone oil
acetous fermentation
acetyl benzoyl peroxide
acetyl bromide
acetyl carbinol
acetyl chloride
acetyl group
acetyl index
acetyl number
acetyl oxide
acetyl radical
acetyl value
acetylene acid
acetylene alcohol
acetylene black
acetylene burner
acetylene dichloride
acetylene dinitrile
acetylene gas
acetylene generator
acetylene linkage
acetylene series
acetylene tetrabromide
acetylene tetrachloride
acetylene torch
acetylene urea
acetylene welder
acetylene welding
acetylformic acid
acetylsalicylic acid
acy-deucy
ach-y-fi
ache for
ache to
achemon sphinx
aches and pains
achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
achieve your purpose
achievement age
achievement quotient
achievement test
achilles tendon
achilles' heel
aching for
aching heart
aching to
aching void
achingly sweet
achromat-
achromatic color
achromatic colour
achromatic lens
achromatic prism
achromatic vision
achroo-
achyliasa gastrica
acid albumin
acid albuminate
acid alizarin black
acid alizarin red
acid amide
acid anhydride
acid anthracene brown
acid azide
acid bath
acid bessemer process
acid black
acid blast
acid blower
acid boiler
acid bronze
acid brown
acid burner
acid casein
acid cell
acid color
acid concentrator
acid dipper
acid drop
acid dye
acid dyspepsia
acid egg
acid ester
acid freak
acid fuchsine
acid gloss
acid green
acid halide
acid honey
acid hydrolysis
acid kiln
acid metaprotein
acid nitrile
acid number
acid oil
acid phosphate
acid ponceau
acid precipitation
acid process
acid purifier
acid radical
acid reaction
acid reserve
acid resist
acid rock
acid salt
acid sludge
acid sodium carbonate
acid soil
acid steel
acid test
acid test ratio
acid tide
acid value
acid violet
acid wood
acid worker
acid works
acid yellow
acid-ash diet
acid-base metabolism
acid-binding
acid-fast
acid-fastness
acid-forming
acid-head
acid-mordant dye
acid-treat
acidity coefficient
acidophilus milk
ack emma
ack-ack
ack-pirate
acknowledge defeat
acknowledge receipt of
ac clinic line
acme harrow
acme of perfection
acme screw thread
acme thread
acne vulgaris
aconite violet
acorn barnacle
acorn chair
acorn clock
acorn cup
acorn duck
acorn moth
acorn shell
acorn spoon
acorn squash
acorn sugar
acorn tube
acorn valve
acorn weevil
acorn worm
acorn-shell
acouchi resin
acoustic feature
acoustic gramophone
acoustic impedance
acoustic inertance
acoustic mass
acoustic meatus
acoustic mine
acoustic nerve
acoustic ohm
acoustic phonetics
acoustic reactance
acoustic resistance
acoustic tile
acoustic wave
acoustical cloud
acoustical engineer
acoustical network
acoustical phenomenon
acoustico-
acquaint yourself with
acquainted with
acquiesce in
acquire information about
acquire intelligence about
acquired character
acquired characteristic
acquired epilepsy
acquired immunity
acquired syphilis
acquired taste
acquired tolerance
acquisition of knowledge
acquit yourself
acquit yourself of
acquittance roll
acr-
acre-dale
acre-foot
acre-inch
acridine dye
acridine dyes
acridine yellow
acriflavine hydrochloride
acro-
acrobatic evolutions
acrobatic maneuvers
across the board
across the grain
across the sea
across-the-board
acrylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acrylyl group
acrylyl radical
act a part
act a role
act all over the stage
act as
act as a cathartic
act as feeder
act as foil
act beneath yourself
act between
act call
act curtain
act drop
act for
act holier than thou
act in concert
act in opposition to
act in the interests of
act in the place of
act like
act like a tonic
act like a trouper
act of God
act of accomplishing
act of contrition
act of courtesy
act of faith
act of folly
act of god
act of grace
act of kindness
act of love
act of lowering
act of politeness
act of rising
act of thought
act of war
act on
act on behalf of
act on the spur of the moment
act on your own responsibility
act opposite
act out
act psychology
act the fool
act the grand seigneur
act the hypocrite
act the part of
act the traitor
act together
act toward
act tune
act up
act up to
act upon
act warning
act well
act with
act with regard to
act your age
act your part
act-wait
actin-
acting area
acting company
acting corporal
acting device
acting school
acting sergeant
acting-out
actinic light
actinic radiation
actinic ray
actinide series
actinium emanation
actinium series
actino-
actinouranium series
action and reaction
action busher
action consciousness
action current
action extension
action filer
action finisher
action forger
action freer
action jointer
action machiner
action noun
action painter
action painting
action potential
action rail
action regulator
action replay
action sermon
action stations
action theory
action time
action viewer
action-taking
action-taking knave
activated alumina
activated carbon
activated charcoal
activated epilepsy
activated sludge
activated-sludge process
activation energy
active algolagnia
active carbon
active communications satellite
active current
active duty
active fancy
active immunity
active layer
active list
active market
active operations
active principle
active reason
active securities
active service
active stock
active treatment
active use
active voice
active-bodied
active-limbed
active-minded
activist art
activity coefficient
activity stream
activity theory
actor's agent
actor's lines
actor-manager
actor-proof
actual cautery
actual cost
actual energy
actual fact
actual grace
actual presence
actual price
actual sin
actual thing
actuality theory
actuarial calculation
actuarial prediction
actuarial table
acute accent
acute alcoholism
acute angle
acute anterior poliomyelitis
acute arch
acute arthritis
acute articular rheumatism
acute bisectrix
acute bronchitis
acute condition
acute conjunctivitis
acute disease
acute inflammation
acute leukemia
acute pain
acute sense of hearing
acute sight
acute-angled
cyclic triangle
acut-
custo-
acuyari palm
acuyari wood
acyclic co-ordinates
acyclic terpene
acyl group
acyl radical
ad Kalendas Graecas
ad arbitrium
ad astra per aspera
ad captandum vulgus
ad esse
ad eundem
ad extremum
ad fin
ad gloriam
ad hoc
ad hoc committee
ad hoc measure
ad hominem
ad hominem attack
ad in
ad inf
ad infinitum
ad init
ad initium
ad int
ad interim
ad lib
ad libitum
ad limina
ad litem
ad litteram
ad loc
ad majorem Dei gloriam
ad nauseam
ad out
ad patres
ad quem
ad rem
ad utrumque paratus
ad val
ad valorem
ad valorem duty
ad valorem tax
ad verbum
ad vitam
ad vivum
ad-
ad-lib
ad-libbed
ad-libber
ad-libbing
adam's apple
adam's needle
additive inverse
additive primary
additive process
addle egg
addle the wits
address a warning to
address book
address the four walls
address to
address yourself to
addressing machine
adduce evidence
adductor canal
adductor impressions
aden-
adeno-
adenohypophyseal luteotropin
adenosine diphosphate
adenosine phosphate
adenosine triphosphatase
adenosine triphosphate
adenosinediphosphoric acid
adenosinetriphosphoric acid
adenylic acid
adenylpyrophosphoric acid
adaptn in
adequate supply
ader wax
adhere to
adhere to your principles
adherence to the old and tried
adherent noun
adhesive cell
adhesive compress
adhesive factor
adhesive inflammation
adhesive plaster
adhesive tape
adiabatic absorption
adiabatic chart
adiabatic demagnetization
adiabatic diagram
adiabatic expansion
adipic acid
adipose fin
adipose tissue
adjacent angles
adjectival phrase
adjective equivalent
adjective pronoun
adjoint curve
adjoint differential equation
adjunct Logic
adjust to
adjust yourself to
adjustable propeller
adjustable spanner
adjustable wrench
adjustable-pitch
adjusted to
adjustive reaction
adjustment bond
adjustment mortgage
adjutant bird
adjutant crane
adjutant general
adjutant general corps
adjutant stork
adjutant-general
adjutants general
adjuvant treatment
administer Communion
administer a sacrament
administer absolution
administer an oath
administer extreme unction
administer justice
administer rites
administer the Eucharist
administer to
administration of justice
administration, the
administrative county
administrative engineer
administrator ad litem
admiral of the fleet
admiral shell
admiralty alloy
admiralty bond
admiralty brass
admiralty bronze
admiralty cloth
admiralty law
admiralty metal
admiralty mile
admiration mark
admission fee
admission of light
admit everything
admit exceptions
admit of
admit of comparison
admit of no doubt
admit of no option
admitted fact
admitting no denial
admitting no dispute
admitting no doubt
admitting no exception
admitting no question
admitting that
adobe bug
adobe flat
adobe house
adobe lily
adobe tick
adolescent beard
adolescent stream
adopt a belief
adopt the cause of
adorer le veau d'or
adp-
adq-
adren-
adrenal gland
adrenal insufficiency
adrenocorticotrophic hormone
adrenocorticotropic hormone
adsorption compound
adsorption isotherm
adsuki bean
adult education
adulterous affair
advance against
advance agent
advance base
advance fee
advance guard
advance man
advance note
advance notice
advance party
advance payment
advance poll
advance sheets
advance signal
advance to the rear
advance tracks
advance upon
advanced age
advanced degree
advanced gas-cooled reactor
advanced guard
advanced in life
advanced in years
advanced standing
advanced trainer
advanced work
advanced years
advancing color
advantage ground
advantageous purchase
advection fog
advent sunday
adventure playground
adventure story
adverb equivalent
adverbal noun
adverbial phrase
adversative asyndeton
adversative conjunction
adverse circumstances
adverse criticism
adverse party
adverse possession
adverse to
advert to
advertise of
advertise yourself
advertisement canvasser
advertisement contractor
advertising account
advertising agency
advertising man
advertising matter
advertising writer
advice boat
advise colleague
advise with
advise with your pillow
advisory body
advisory council
advisory opinion
advocacy journalism
advocatus diaboli
advocatus ecclesiae
adz block
adz eye
adzuki bean
ae-
aeolian harp
aeolian lyre
aeolo-
aeons ago
aequo animo
aer-
aerating root
aere perennius
aeri-
aerial bomb
aerial combat
aerial heights
aerial infection
aerial ladder
aerial mine
aerial mosaic
aerial navigation
aerial perspective
aerial photograph
aerial photographer
aerial photography
aerial pingpong
aerial railway
aerial reconnaissance camera
aerial survey
aerial tactics
aerial torpedo
aerial tramway
aerial warfare
aero arrow
aero engine
aero-
aero-otitis
aero-otitis media
aerobic bacteria
aerobic organism
aerodynamic center
aerodynamic pitch
aerodynamic trajectory
aerodynamic volume
aerodynamic wave drag
aerogenic tuberculosis
aerological instrument
aeronautical chart
aeronautical engineer
aeronautical engineering
aeronautical meteorology
aeronautical relay
aerootitis media
aeroplane cloth
aeroplane spin
aerosol bomb
aerosol therapy
aerospace engineer
aerospace engineering
aerospace medicine
aerospace research
aerospace science
aerospace technology
aerostatic lift
aerothermodynamic duct
aerotitis media
aesthesio-
aesthetic distance
aesthetic form
aesthetic judgment
aesthetic proportions
aesthetic taste
aesthetically appealing
aesth-o-physiology
aetatis suae
aethiops mineral
af-
afar off
afebrile delirium
aff loof
affair of honor
affair of the heart
affaire d'amour
affaire d'honneur
affaire de coeur
affaires d'amour
affaires d'honneur
affaires de coeur
affect emotionally
affect epilepsy
affect memory
affect the guise of
affect the interest
affect the manner of
affect your mind
affectedly nice
affectionate name
affective faculty
affective meaning
afferent neuron
affiliate to
affiliate with
affiliated stations
affiliation order
affiliation proceedings
affine connection
affine geometry
affine group
affine transformation
affinity constant
affirmative action
affirmative attitude
affirmative expression
affirmative flag
affirmative voice
affirmative vote
affirmative-action
affirming gun
afford hope
afford proof of
afford support
afford to pay
afford you pleasure
affording no hope
afghan hound
afghan stitch
afghani rupee
afoot and lighthearted
afore-acted
afore-cited
afore-coming
afore-decried
afore-given
afore-going
afore-granted
afore-heard
afore-known
afore-mentioned
afore-planned
afore-quoted
afore-running
afore-seeing
afore-seen
afore-spoken
afore-stated
afore-told
afoul of
afr-
afraid of your shadow
african violet
afro-american
afro-asiatic languages
aft the fantail
after a fashion
after a time
after a while
after all
after all is said and done
after bridge
after death
after deck
after mast
after shroud
after that
after the Fall
after the fact
after the flood
after the manner of men
after the war
after this
after this fashion
after time
after which
after your fancy
after your heart
after your own heart
after-
after-acquired
after-born
after-course
after-described
after-designed
after-dinner
after-dinner speaker
after-dinner speech
after-game
after-grass
after-guard
after-hours joint
after-image
after-life
after-mentioned
after-named
after-pain
after-shave lotion
after-specified
after-stampable
after-supper
after-theater
after-theatre
after-wit
after-written
afterbirth weed
afternoon lady
afternoon tea
afternoon watch
aftershave lotion
ag lug
ag-
again and again
again and yet again
again-
against all expectation
against order and discipline
against the
against the clock
against the grain
against the law
against the new and untried
against the sun
against the tide
against the time when
against the wind
against time
against your grain
against your will
agal-agal
agar-agar
agaric acid
agaric mineral
agaric acid
agate glass
agate gray
agate jasper
agate line
agate opal
agate shell
agate snail
agatho-
agave cactus
age class
age coating
age distribution
age grade
age group
age hardening
age limit
age norm
age of Aquarius
age of consent
age of discretion
age of growing pains
age of ignorance
age of matured powers
age of responsibility
age of retirement
age score
age society
age-adorning
age-bent
age-coeval
age-cracked
age-despoiled
age-dispelling
age-encrusted
age-enfeebled
age-group
age-harden
age-honored
age-lasting
age-long
age-old
age-peeled
age-struck
age-weary
age-weathered
age-worn
agee-jawed
agency shop
agent de bourse
agent intellect
agent noun
agent of production
agent officer
agent provocateur
agent-general
agents provocateurs
ageratum blue
ages ago
agger nasi
aggravated assault
aggravated larceny
aggregate fruit
aggregate polarization
aggregate to
aggregato-
aggressive mimicry
aggressive self-confidence
aggressively self-confident
aggressor nation
agile wit
agin the government
agitator feed
agnus castus
agnus dei
agogic accent
agonic line
agonize over
agonizing pain
agony column
agony of mind
agony of spirit
agony of suspense
agrarian economics
agrarian economy
agree for the sake of argument
agree in opinion
agree in principle
agree on
agree on a verdict
agree on terms
agree provisionally
agree to
agree to anything
agree to differ
agree to disagree
agree upon
agree with
agreeable rattle
agreeable to
agreeable-sounding
agreeably to
agreed case
agreed on all hands
agreement in principle
agreement of all
agreement to disagree
agricultural agent
agricultural ant
agricultural chemical
agricultural deities
agricultural engineer
agricultural geology
agricultural region
agriculture divinity
agrimony bark
agrimony water hemp
agro-
ague bark
ague cake
ague drop
ague grass
ague tree
ague-faced
ague-plagued
ague-rid
ague-sore
ague-struck
aguja volador
ahead both motors
ahead full
ahead of
ahead of its time
ahead of the game
ahead of time
ahead one-third
ahead standard
ahead two-thirds
ahoy there
aid and abet
aid and comfort
aid for the blind
aid grant
aid prayer
aid station
aid to dependent children
aid to navigation
aid to the blind
aid-de-camp
aide-de-camp
aide-de-campship
aide-memoire
aide-mmoire
aides-de-camp
aids-de-camp
aigre-doux
aigue-marine
ailanthus family
ailanthus moth
ailanthus silkworm
aileron angle
aileron roll
aim a blow at
aim at
aim at a pigeon and kill a crow
aim high
aim to
aimed at
aiming point
ain't it the truth
air a grievance
air age
air alert
air ambulance
air arm
air armada
air attack
air bag
air base
air bath
air bed
air bell
air belt
air bends
air billow
air bladder
air blast
air blow
air blue
air box
air brake
air breather
air brick
air bridge
air brush
air bubble
air bump
air bus
air cadet
air car
air cargo
air carrier
air casing
air castle
air cataract
air cavalry
air cell
air chamber
air chest
air chief marshal
air chuck
air circuit breaker
air cleaner
air coach
air cock
air combat
air command
air commodore
air compressor
air condenser
air conditioner
air conditioning
air conduction
air consignment note
air control
air controlman
air controls
air cooler
air cooling
air corps
air corridor
air course
air cover
air crash
air crew
air crossing
air cruiser
air current
air curtain
air cushion
air cushion car
air cylinder
air discharge
air division
air drain
air drainage
air drill
air duct
air ejector
air embolism
air engine
air express
air filter
air fleet
air float
air flow
air force
air freight
air furnace
air gap
air gas
air gauge
air glow
air gun
air hammer
air harbor
air hoist
air hole
air horn
air hostess
air hunger
air injection
air injector
air intake
air jack
air jacket
air lance
air lane
air law
air layering
air leak
air legs
air letter
air level
air lift
air line
air liner
air lock
air log
air machine
air mail
air maneuver
air map
air marshal
air mass
air mattress
air medal
air medicine
air meter
air mile
air motor
air navigation
air observer
air out
air oven
air passage
air philately
air photograph
air photography
air pillow
air pilot
air piracy
air pirate
air pistol
air plant
air plot
air plug
air pocket
air police
air pollution
air pore
air post
air potato
air power
air pressure
air propeller
air pump
air race
air raid
air raid warden
air raider
air ram
air remover
air rifle
air right
air route
air sac
air scoop
air scout
air scuttle
air separation
air service
air serviceman
air shaft
air shovel
air show
air shuttle
air sleeve
air sock
air space
air spade
air speed
air spray
air sprayer
air spring
air stack
air station
air stone
air stove
air strainer
air stream
air strike
air support
air survey
air switch
air system
air taxi
air tee
air terminal
air thermometer
air thread
air traffic
air train
air transport
air trap
air travel
air trumpet
air trunk
air tube
air turbine
air twist
air umbrella
air university
air valve
air varie
air vent
air vesicle
air vice-marshal
air volcano
air volume
air war
air warden
air warfare
air washer
air waybill
air well
air wood
air zone
air-balloon
air-bind
air-blasted
air-blown
air-born
air-borne
air-bound
air-braked
air-braving
air-break switch
air-breathe
air-breathed
air-breather
air-breathing
air-bred
air-built
air-chambered
air-cheeked
air-clear
air-clutch reverse
air-condition
air-conditioned
air-conditioning
air-conscious
air-conveying
air-cool
air-cooled
air-core
air-core coil
air-cure
air-cured
air-cushion vehicle
air-defiling
air-drawn
air-dried
air-driven
air-dry
air-drying
air-earth current
air-embraced
air-express
air-faring
air-filled
air-floated
air-formed
air-hardened steel
air-hardening
air-hardening steel
air-heating
air-insulated
air-intake
air-lance
air-lanced
air-lancing
air-line
air-logged
air-mail
air-mass shower
air-minded
air-mindedness
air-pervious
air-raid
air-raid alarm
air-raid shelter
air-raid warden
air-sea rescue
air-sea rescue amphibian
air-sea rescue plane
air-season
air-seasoned
air-shy
air-slake
air-slaked
air-slaking
air-speed head
air-speed indicator
air-spray
air-sprayed
air-spun
air-stirring
air-swallowing
air-threatening
air-to-air
air-to-ground
air-to-surface
air-traffic control
air-traffic controller
air-trampling
air-twisted
air-vessel
air-wall ionization chamber
air-wise
air-wiseness
airborne controls
airborne infection
airborne intercept radar
airborne operations
airborne particles
airborne radar
airborne radioactivity
airborne rocket
airborne tactics
aircraft carrier
aircraft cloth
aircraft division
aircraft engine
aircraft engines
aircraft fabric
aircraft hydraulics
aircraft mechanic
aircraft observer
aircraft section
aircraft station
aircraft tender
airle-penny
airline hostess
airline stewardess
airline travel
airman basic
airman third class
airplane carrier
airplane cloth
airplane flare
airplane heading
airplane hijacker
airplane hijacking
airplane parts
airplane spin
airplane spotter
airport beacon
airport surveillance radar
airs and graces
airs of
airship parts
airship shed
airship station
airspeed indicator
airtight secrecy
airway beacon
airy hope
airy nothing
airy sign
airy texture
airy-fairy
aisle seat
aitch-bone
ajax the less
ajowan oil
akamushi mite
akinetic epilepsy
al Marsala
al burro
al dente
al fine
al fresco
al limone
al piacere
al segno
al-
al-Fustat
al-Lat
al-Mamoun
al-Sahih
al-Uzza
alamo vine
alang grass
alang-alang
alant camphor
alant starch
alar cartilages
alar ligaments
alar septum
alar thoracic artery
alarm bell
alarm bird
alarm clock
alarm fire
alarm gauge
alarm post
alarm reaction
alarm signal
alarm valve
alarm watch
alarums and excursions
alaska time
alaskan malamute
albatross around your neck
albatross cloth
albedo unguis
albert-type
albite law
album board
album paper
albumen plate
albumin color
albumin tannate
albumino-
albuminoid ammonia
alchim-
alchym-
alco-ometer
alco-ometric
alco-ometrical
alco-ometry
alcohol acid
alcohol engine
alcohol stove
alcohol tax
alcohol torch
alcoholic addict
alcoholic addiction
alcoholic beverage
alcoholic drink
alcoholic meningitis
alcoholic psychosis
alcool blanc
alcresta ipecac
aldehyde ammonia
aldehyde collidine
aldehyde group
aldehyde resin
alder blight
alder buckthorn
alder dogwood
alder fly
alder flycatcher
alder-
alder-leaved
alderman lizard
aldol condensation
ale brewer
ale brewing
algebraic geometry
algebraic number
algebraic topology
algebraically closed field
algid cholera
algid fever
alg in fiber
alinic acid
algo-
algorithmic language
ali-
alias dictus
alias writ
alibi out of
alien corporation
alien enemy
alien priory
alien property custodian
alien water
alienable right
alienate yourself
alienation of affections
alienation office
alieni generis
alieni juris
alight on
alight upon
alighting gear
align with
align your march
align yourself
align yourself with
aligning punch
alignment chart
alike as two peas in a pod
alimentary canal
aliquote part
aliquote tone
alis volat propriis
alive and kicking
alive to
alive with
alizarin black s
alizarin blue black s
alizarin blue s
alizarin brown
alizarin crimson
alizarin cyanine
alizarin cyanine green
alizarin dye
alizarin red
alizarin saphirol
alizarin yellow
alk gum
alk gum tree
alkali albumin
alkali blue
alkali cellulose
alkali chlorosis
alkali disease
alkali flat
alkali grass
alkali heath
alkali metal
alkali metals
alkali metaprotein
alkali mustard
alkali reserve
alkali rock
alkali soil
alkali waste
alkali weed
alkali yellow r
alkaline cell
alkaline earth
alkaline earth metal
alkaline earths
alkaline metal
alkaline reaction
alkaline tide
alkaline water
alkaline-ash diet
alkaline-earth metal
alkaline-earth metals
alkane series
alkene series
alkyd paint
alkyd resin
alkyl cyanide
alkyl group
alkyl halide
alkyl hydrosulphide
alkyl radical
alkyne series
all aboard
all about
all abroad
all agog
all agreeing
all alone
all along
all along the line
all and some
all and sundry
all animate nature
all aquiver
all around
all at once
all ataunto
all atingle
all attwitter
all being
all bets off
all but
all by your lonesome
all clear
all comers
all creation
all depend
all ears
all engines
all engines ahead
all eyes
all eyes and ears
all fives
all flesh is grass
all fool's day
all fools’ day
all for
all for one
all for the best
all fours
all get out
all get-out
all gone
all good go with you
all hail
all hands
all hollow
all hopped up about
all hot and bothered
all ills that men endure
all in
all in a dither over
all in all
all in good time
all in hand
all in the day's work
all in the mind
all in the wind
all included
all jaw
all joking apart
all joking aside
all kinds of
all nerves
all night
all of
all of a flutter
all of a heap
all of a sudden
all of a twitter
all off
all on
all on one side
all one
all out
all over
all over but the shouting
all over hell
all over the lot
all over the map
all over the place
all over the shop
all over the town
all over the world
all over with
all over yourself
all present and accounted for
all put together
all ready
all right
all right already
all round
all said and done
all saints
all saints' day
all serene
all set
all set for
all shook up
all sorts
all sorts of
all souls
all souls' day
all square
all squares
all standing
all straight
all tears
all that
all that is
all that is coming to one
all that lives
all the
all the best
all the better
all the better for
all the comforts of home
all the cry
all the day long
all the days of your life
all the heart can desire
all the ills that men endure
all the more
all the more so
all the rage
all the same
all the thing
all the time
all the way
all the way to
all the while
all the world
all the worse for
all the year round
all there
all things considered
all things counter
all threes
all through
all through the night
all thumbs
all to
all to pieces
all to the good
all together
all told
all two
all up
all up with
all wet
all who love
all wool and a yard wide
all work
all wound up in
all wrapped up in yourself
all wrong
all you can bear
all you can do
all you can manage
all you can stand
all you can take
all your born days
all your got
all your natural life
all'ottava
all's well
all-
all-American
all-a-mort
all-abhorred
all-able
all-absorbing
all-accomplished
all-acting
all-admired
all-admiring
all-advised
all-affecting
all-afflicting
all-aged
all-air
all-amazed
all-american
all-appalled
all-appointing
all-approved
all-approving
all-armed
all-around
all-arraigning
all-arranging
all-assistless
all-atoning
all-attempting
all-availing
all-burning
all-beauteous
all-beautiful
all-beholding
all-bestowing
all-binding
all-bitter
all-black
all-blasting
all-blessing
all-bounteous
all-bountiful
all-bright
all-brilliant
all-changing
all-cheering
all-collected
all-colored
all-comfortless
all-commander
all-commanding
all-compelling
all-complying
all-composing
all-comprehending
all-comprehensive
all-comprehensiveness
all-concealing
all-conceiving
all-concerning
all-confounding
all-conquering
all-conscious
all-considering
all-constant
all-constraining
all-consuming
all-content
all-controlling
all-convincing
all-convincingly
all-covering
all-creating
all-creator
all-crop harvester
all-curing
all-daring
all-day
all-dazzling
all-deciding
all-defiance
all-defying
all-depending
all-designing
all-desired
all-despising
all-destroyer
all-destroying
all-devastating
all-devouring
all-dimming
all-directing
all-discerning
all-discovering
all-disgraced
all-dispensing
all-disposer
all-disposing
all-divine
all-divining
all-dreaded
all-dreadful
all-drowsy
all-earnest
all-eating
all-efficacious
all-efficient
all-eloquent
all-embracing
all-embracingness
all-encompasser
all-encompassing
all-ending
all-enduring
all-engrossing
all-engulfing
all-enlightened
all-enlightening
all-enraged
all-envied
all-essential
all-evil
all-excellent
all-expense
all-expenses-paid
all-eyed
all-fair
all-filling
call-fired
call-firedest
call-firedly
call-flaming
call-flotation
call-flower-water
call-flying tail
call-foreseeing
call-forgetful
call-forgetting
call-forgiving
call-forgotten
call-fullness
call-gas
call-giver
call-glorious
call-golden
call-governing
call-gracious
call-grasping
call-great
call-guiding
call-hallow
call-hallowed
call-happy
call-healing
call-hearing
call-heeding
call-helping
call-hiding
call-holy
call-honored
call-hoping
call-hurting
call-idolizing
call-illuminating
call-imitating
call-important
call-impressive
call-in
all-in-one
all-including
all-inclusive
all-inclusiveness
all-infolding
all-informing
all-interesting
all-interpreting
all-invading
all-involving
all-jarred
all-judging
all-just
all-justifying
all-kind
all-knavish
all-knowing
all-knowingness
all-land
all-lavish
all-licensed
all-lovely
all-loving
all-maintaining
all-maker
all-making
all-maturing
all-meaningness
all-merciful
all-metal
all-might
all-miscreative
all-murdering
all-night
all-night vigil
all-noble
all-nourishing
all-obedient
all-obeying
all-oblivious
all-obscuring
all-oil
all-or-none
all-or-none law
all-ordering
all-out
all-out campaign
all-out war
all-over
all-overs
all-overpowering
all-overpowering
all-panting
all-parent
all-pass
all-patient
all-peaceful
all-penetrating
all-peopled
all-perceptive
all-perfect
all-perfection
all-perfectness
all-perfective
all-persuasive
all-pervading
all-pervadingness
all-pervasive
all-pervasiveness
all-piercing
all-pitiless
all-pitying
all-pondering
all-possessed
all-potency
all-potent
all-potential
all-power
all-powerful
all-powerful ruler
all-powerfully
all-powerfulness
all-praised
all-praiseworthy
all-presence
all-present
all-prevailing
all-prevailingness
all-prevalency
all-prevalent
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quicken
all-rail
all-rapacious
all-surpassing
call-surrounding
call-surveying
call-sustainer
call-sustaining
call-swallowing
call-swaying
call-telling
call-terrible
call-thorny
call-time
all-time great
all-tolerating
all-transcending
all-triumphing
all-truth
call-turned
all-turning
all-understanding
all-unwilling
all-upholder
all-upholding
all-various
all-vast
all-watched
all-water
all-wave receiver
all-weak
all-weather
all-weather fighter
all-weight
all-whole
all-wisdom
all-wise
all-wisely
all-wiseness
all-wondrous
all-wood
all-wool
all-working
all-worshiped
all-worthy
all-wrongness
all-year
alla bolognese
alla breve
alla cacciatore
alla capella
alla diavola
alla fiorentina
alla marcia
alla marinara
alla milanese
alla parmigiana
alla pizzaiola
alla prima
alla romana
alla siciliana
alla veneziana
alla vostra salute
allan hawk
allantoic membrane
allee couverte
allegation of facts
allege in support
allege in vindication
allegheny spurge
allemande sauce
aller sans dire
aller-retour
allergic disease
allergic disorder
allergic gastritis
allergic rhinitis
allergic shock
allergy diet
alley cat
alley-oop
allez-vous-en
alice shad
alligation alternate
alligation medial
alligator apple
alligator bonnets
alligator buttons
alligator cacao
alligator clip
alligator fish
alligator forceps
alligator gar
alligator head
alligator jaw
alligator juniper
alligator lizard
alligator pear
alligator pepper
aloe creole
aloe hemp
aloe lace
aloe malgache
aloe-Emodin
aloes green
aloes wood
aloft there
along by
along in years
along of
along the side of
along the way
along these lines
along toward
along with
alongside of
aloof from
alopecia areata
alopecia Celsi
alopecia circumscripta
alouchi resin
alow and aloft
alpha and omega
alpha brass
alpha decay
alpha iron
alpha particle
alpha privative
alpha pulse analyzer
alpha radiation
alpha radiator
alpha ray
alpha rhythm
alpha score
alpha test
alpha-amylase
alpha-beta brass
alpha-cellulose
alpha-eucaine
alpha-hypophamine
alpha-naphthol
alpha-naphthyl group
alpha-naphthyl radical
alpha-naphthylamine
alpha-naphthylthiourea
alpha-particle scattering
alpha-stannic acid
alpha-tocopherol
alpha-truxilline
alphabet book
alphabet code
alphabet method
alphabet plant
alphabet soup
alphabetic character
alphabetic data
alphabetic symbol
alphabetical printer
alphanumeric code
alpine anemone
alpine aster
alpine azalea
alpine bartsia
alpine beardtongue
alpine bent grass
alpine birch
alpine bistort
alpine brook saxifrage
alpine campion
alpine catchfly
alpine chough
alpine clover
alpine cress
alpine eyebright
alpine fir
alpine fireweed
alpine forget-me-not
alpine garden
alpine geranium
alpine glacier
alpine goldenrod
alpine hemlock
alpine holy grass
alpine lady fern
alpine larch
alpine lousewort
alpine molewort
alpine oat grass
alpine poppy
alpine rice grass
alpine rock cress
alpine rose
alpine sedge
alpine spring beauty
alpine spruce
alpine strawberry
alpine tundra
alpine umbrella plant
alpine whitebark pine
alpine whorl grass
alpine woodsia
alps on alps
already in sight
alsike clover
also not
also-ran
alta vox
altar board
altar boy
altar bread
altar call
altar card
altar carpet
altar chime
altar cloth
altar desk
altar dues
altar facing
altar front
altar hearse
altar mound
altar of prothesis
altar of repose
altar plate
altar rail
altar side
altar slab
altar stair
altar stand
altar stead
altar stole
altar stone
altar tomb
altar wine
altazimuth mounting
alter ego
alter idem
alter into
alter your course
altered chord
alternate angles
alternate choice
alternate plumage
alternate school
alternate straight
alternate-leaved
alternating current
alternating current motor
alternating group
alternating light
alternating personality
alternating series
alternating voltage
alternating-current circuit
alternating-current servo
alternating-gradient focusing
alternation of generations
alternative school
alternative vote
alterni-
alti-
alti-rilievi
altitude dial
altitude mixture control
altitude of flight
altitude peak
altitude pressure
altitude sickness
alto clarinet
alto clef
alto flute
alto horn
alto saxhorn
alto viol
alto-
alto-cumulus
alto-cumulus-castellatus
alto-relievo
alto-relieves
alto-rilievo
alto-stratus
altocumulus castellanus
altocumulus castellatus
altocumulus floccus
altocumulus lenticularis
altocumulus stratiformis
altogether, the
altruistic ethics
aluchi resin
aludel furnace
alum cake
alum carmine
alum cochineal
alum flower
alum glass
alum haematoxylin
alum meal
alum rock
alum schist
alum shale
alum stone
alum-hypo toning process
alumina cement
alumina cream
alumina trihydrate
aluminio-
aluminium hydroxide
aluminium oxide
aluminium sulphate
alumino-
aluminous cake
aluminum acetate
aluminum ammonium sulfate
aluminum borate
aluminum borohydride
aluminum brass
aluminum bronze
aluminum carbide
aluminum chloride
aluminum family
aluminum fluosilicate
aluminum foil
aluminum gold
aluminum hydrate
aluminum hydroxide
aluminum monostearate
aluminum nitrate
aluminum oxide
aluminum paint
aluminum potassium sulfate
aluminum silicate
aluminum sulfate
aluminum sulphate
alu-alun
alva marina
alveolar arch
alveolar process
alveolar ridge
alveolo-
alveololabial sulci
alveololingual sulci
always and everywhere
always trot out
alyce clover
amalgam arc
amalgam gilding
amalgamation process
amande amere
amande douce
amande pralinee
amandes mondees
amanita hemolysin
amanita toxin
amarant family
amaranth family
amaranth pink
amaranth-purple
amaryllis family
amassing evidence
amateur athlete
amateur band
amateur radio operator
amateur standing
amateur station
amateur status
amateur theatricals
amateur transmitter
amazing thing
amazon ant
ambary hemp
ambassador-at-large
ambassadors-at-large
amber brown
amber forest
amber jack
amber light
amber malt
amber mica
amber miner
amber oil
amber opal
amber pear
amber seed
amber snail
amber tree
amber yellow
amber-clear
american standard version
american trotter
amерико-
ames-ace
amethyst cutter
amethyst violet
amiable weakness
amicable number
amicus curiae
amicus curiae
amicus humani generis
amicus usque ad aras
amid the blaze of noon
amid-
amide powder
amido-
amido-urea
amidonaphthol red
amin-
amino acid
amino acids
amino azobenzene
amino group
amino nitrogen
amino radical
amino resin
amino-
amino-oxypurin
aminoacetic acid
aminobenzoic acid
aminooquin naphthoate
aminsuccinic acid
ammo dump
ammo-
ammonia alum
ammonia condenser
ammonia gelatin
ammonia liquor
ammonia meter
ammonia nitrogen
ammonia process
ammonia soda
ammonia soda ash
ammonia soda process
ammonia solution
ammonia turpeth
ammonia valve
ammonia water
ammoniac plant
ammoniacal liquor
ammoniaco-
ammonio-
ammonioferic oxalate
ammonium acetate
ammonium alum
ammonium amalgam
ammonium base
ammonium bicarbonate
ammonium bifluoride
ammonium binoxalate
ammonium bromide
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium chrome alum
ammonium chromic sulfate
ammonium cyanate
ammonium hydrosulphide
ammonium hydroxide
ammonium lactate
ammonium molybdate
ammonium nitrate
ammonium oxalate
ammonium persulphate
ammonium phosphate
ammonium purpurate
ammonium salt
ammonium selenate
ammonium stearate
ammonium sulfate
ammonium sulphate
ammonium sulphide
ammonium thiocyanate
ammonium thiosulfate
ammono acid
ammono base
ammono salt
ammunition box
ammunition bread
ammunition chest
ammunition depot
ammunition hoist
ammunition legs
ammunition scuttle
ammunition ship
ammunition shoes
amnesic aphasia
amnestic aphasia
amniotic fluid
amniotic sac
amobarbital sodium
amoeba disease
amoeban verse
amoebic dysentery
among other things
among the blest
among the living
among us
amor patriae
amorous dalliance
amorous looks
amorous pursuit
amorpho-
amorphous ergotinine
amorphous phosphorus
amount at risk
amount due
amount limit
amount of money
amount of stock
amount to
amount to something
amour propre
amour-propre
amparo blue
amparo purple
ampere arc
ampere balance
ampere turn
ampere-foot
ampere-hour
ampere-hour meter
ampere-minute
ampere-second
ampere-turn
amperometric titration
ampheta mine sulfate
ampheta mine sulphate
ampheta mine withdrawal symptoms
amphi-
amphibian tractor
amphibian transport
amphibious attack
amphibious operations
amphibious warfare
amphibole group
ample scope
ample sufficiency
amplification factor
amplifier chain
amplifier circuit
amplifying circuit
amplifying generator
amplitude compass
amplitude control
amplitude factor
amplitude modulation
amply endowed
ampullar sense
ampus-and
amrad gum
amuse yourself
amusement arcade
amusement device
amusement park
amusement ride
amusement tax
amygdalic acid
amygdalo-uvular
amygdaloid nucleus
amygdonitrile glucoside
amyl acetate
amyl alcohol
amyl ether
amyl group
amyl isovalerate
amyl nitrite
amyl oxide
amyl propionate
amyl radical
amyl salicylate
amyl sulfide
amyl-
amyl-acetate lamp
amylacetic ether
amylene hydrate
amypo-
amyloid degeneration
amylum body
amylum center
amylum grain
amylum star
amyotrophic lateral sclerosis
amyris oil
an O without a figure
an arm and a leg
an arrant
an average
an awfully big adventure
an ear for
an eater of broken meats
an echo of the invisible world
an emblem
an epidemic insanity
an error
an eternity
an existence
an eye for
an eye for an eye
an in
an incurable disease
an inhabiting
an instant arrested in eternity
an intelligence served by organs
an itch for the praise of fools
an old dog at
an old hand at
an uncertainty
an unfathomable Somewhat
an unhappy crossbreed
an universal wolf
an-
an-end
ana-
anabolic steroid
anacardium nut
anaconda gourd
anadama bread
anaerobic bacteria
anaerobic organism
anak kuching
anal canal
anal character
anal fin
anal intercourse
anal sex
anal vein
analcite basalt
analog computer
analog feedback control
anchor bend
anchor bolt
anchor box
anchor buoy
anchor chain
anchor chock
anchor dart
anchor deck
anchor drag
anchor escapement
anchor hold
anchor hoy
anchor ice
anchor knot
anchor lift
anchor light
anchor lining
anchor link
anchor log
anchor man
anchor money
anchor nurse
anchor plant
anchor plate
anchor pocket
anchor ring
anchor rocket
anchor rod
anchor rode
anchor shackle
anchor shot
anchor space
anchor span
anchor tee
anchor watch
anchor watchman
anchor well
anchor-shaped
anchorage ground
anchorite monasticism
anchoritic monasticism
anchors aweigh
anchovy pear
ancien régime
ancien régime
ancienne noblesse
ancient history
ancient language
ancient literature
ancient manuscript
ancient times
ancient wisdom
and Cultural Organization
and God knows what
and Harry
and Holy Ghost
and I don't know what
and Ireland
and Robinson
and Slovenes
and Welfare
and a light unto my path
and a pull all together
and all
and all like that
and all that
and all that sort of thing
and also
and an eminently contagious one
and ancient as the sun
and arithmetic
and barrel
and be merry
and blue
and bobtail
and built by hands divine
and candle
and circuit
and circumstance
and collected
and crack your cheeks
and delivered
and dissolve itself
and everything else
and everywhere
and fish
and flesh of my flesh
and handsome
and happy
and hates them for it
and heaven knows what
and jump
and keep your powder dry
and listen
and making it five
and many more
and more of the same
and night
and no mistake
and not
and nothing but the truth
and of Night
and off the hinges
and other things
and others
and pence
and pine
and portents and evils imminent
and pursue it
and quarter
and quit yourselves like men
and running over
and shaken together
and sinker
and so
and so forth
and so on
and strength
and stuff like that
and suchlike
and tell them
and the blind
and the fish of the sea
and the following
and the like
and the post
and the pursuit of happiness
and the queen of sleep
and the rest
and the seeing of blind
and the waste of life
and then some
and unprofitable
and weep with them that weep
and what have you
and what not
and-
anda oil
anda-assu
anda-assu oil
andante moderato
andante tempo
andr-
andro-
androgenital syndrome
anem-
anemia lymphatica
anemo-
anemone camphor
anemone fish
anemone-flowered dahlia
aneroid barograph
aneroid barometer
aneroid capsule
anesthetic ether
ang-khak
angel bed
angel cake
angel fish
angel food
angel food cake
angel gold
angel light
angel of death
angel of light
angel of love
angel red
angel shark
angel shot
angel sleeve
angel tree
angel water
angel's footstool
angel's tears
angel's-trumpet
angel-borne
angel-bright
angel-builted
angel-eyed
angel-faced
angel-guarded
angel-heralded
angel-noble
angel-seeming
angel.warned
angelic host
angelica tree
angelica-root
angelin seeds
angels' tears
angels-on-horseback
angi-
angico gum
angina pectoris
angio-
angioneurotic edema
angle away
angle bar
angle bead
angle beam
angle board
angle brace
angle bracket
angle brackets
angle brick
angle bulb
angle capital
angle chair
angle cleat
angle clip
angle collar
angle for
angle gear
angle iron
angle measurement
angle meter
angle of attack
angle of bank
angle of climb
angle of dead rise
angle of deviation
angle of dip
angle of heel
angle of incidence
angle of lag
angle of lead
angle of pitch
angle of polarization
angle of reflection
angle of refraction
angle of repose
angle of roll
angle of sideslip
angle of stabilizer setting
angle of view
angle of vision
angle of wing setting
angle of yaw
angle off
angle plate
angle rafter
angle reflector
angle rib
angle set
angle shaft
angle shear
angle staff
angle steel
angle tie
angle with a silver hook
angle-off
angle-rack tool
angled draft
angled-toothed
angler fish
anglo-
anglo-catholic
anglo-french
anglo-indian
anglo-norman
anglo-saxon
angora cat
angora goat
angora rabbit
angostura bark
angostura bitters
angry clouds
angry look
angry young man
angry young woman
angry-eyed
angry-looking
angstrom unit
angstrom unit Angstrom
angular acceleration
angular data
angular dispersion
angular displacement
angular frequency
angular geometric
angular geometric figures
angular leaf spot
angular magnification
angular momentum
angular momentum quantum number
angular motion
angular perspective
angular velocity
angular-toothed
angular-winged katydid
angulated sail
angulato-
angulo-
anguloso-
angusti-
anhalonium alkaloid
anharmonic ratio
anhydro base
anhydro-
anidian monster
aniline black
aniline blue
aniline dye
aniline hydrochloride
aniline oil
aniline purple
aniline salt
aniline yellow
anima aloes
anima bruta
anima humana
anima mundi
animadvert on
animadvert upon
animal abode
animal and vegetable kingdom
animal black
animal capable of reason
animal carver
animal cell
animal cellulose
animal charcoal
animal charge
animal color
animal comfort
animal cracker
animal culture
animal cunning
animal disease
animal diseases
animal dyestuff
animal electricity
animal enclosure
animal faith
animal fiber
animal flower
animal force
animal handler
animal heat
animal husbandman
animal husbandry
animal hypnosis
animal kingdom
animal life
animal like types
animal magnetism
animal mechanics
animal mound
animal nature
animal noise
animal oat
animal oil
animal oils
animal physiologist
animal physiology
animal pleasure
animal pole
animal psychology
animal raiser
animal raising
animal rearing
animal rouge
animal science
animal scientist
animal size
animal soul
animal sound
animal spirit
animal spirits
animal starch
animal stuffer
animal stuffing
animal unit
animal worship
animal worshiper
animal young
animal-sized
animate existence
animate matter
animated cartoon
animated oat
animating force
animating power
animating principle
animating spirit
animation photography
animis opibusque parati
animistic spirit
animus cancellandi
animus capiendi
animus derelinquendi
animus furandi
animus injuriandi
animus lucrandi
animus manendi
animus possidendi
animus recipiendi
animus remanendi
animus revertendi
animus revocandi
animus testandi
anionic detergent
anis-
anise camphor
anise hyssop
anise oil
anise plant
anise-scented goldenrod
aniseed fox
aniseed oil
aniseed star
aniseed tree
anisic alcohol
anisic aldehyde
aniso-
anisyl acetate
anisyl alcohol
ankle boot
ankle clonus
ankle cutter
ankle jerk
ankle ring
ankle sock
ankle strap
ankle tie
ankle-deep
ankle-jacked
annatto tree
anni mirabiles
annihilation radiation
anno Domini
anno Hejirae
another go
another kettle of fish
another shot
another time
another try
another-gates
another-guess
another-guise
anoxic anoxia
anp-
ansa hypoglossi
ansa subclavia
ansate cross
anserine skin
answer back
answer book
answer conclusively
answer for
answer the call of duty
answer the helm
answer the purpose
answer to
answer to a problem
answer to no man
answer-back
answerable for
answerable to
answering pennant
answering service
ant acacia
ant bear
ant bird
ant catcher
ant cattle
ant cow
ant egg
ant fly
ant heap
ant hill
ant hillock
ant king
ant lion
ant pipit
ant plant
ant rice
ant shrike
ant thrush
ant tree
ant worm
ant wren
ant-
ant-eater
ant-pipit
ant-thrush
antarctic beech
antarctic circle
antarctic circumpolar current
ante Christum
ante bellum
ante meridiem
ante mortem
ante partum
ante up
ante-
ante-Christum
ante-Nicaean
ante-Nicene
ante-Nicene Fathers
ante-acted
ante-ambulo
ante-bellum
ante-chapel
ante-ecclesiastical
ante-eternity
ante-mortem
ante-mortem clot
ante-orbital
ante-partum
ante-room
ante-temple
antecendent right
antecendent used in
antediluvian patriarch
antelope brush
antelope chipmunk
antelope squirrel
antenna array
antenna circuit
antenna filter
antenna grounding switch
antenna inductance
antenna mine
antenna resistance
antenna switch
antenna tower
antennae sword
antennal gland
antennal lobe
antenuptial contract
antenuptial settlement
anterior pituitary
anterior pituitary luteotropin
anterior tooth
antero-
anterograde amnesia
anterograde memory
anth-
anthelic arcs
anther cell
anther lobe
anther sac
anther smut
antho-
anthracene brown
anthracene oil
anthracene yellow
anthracite black
anthracite coal
anthraquinone dye
anthrax vaccine
anthrop-
anthropo-
anthropoid ape
anti-
anti-American
anti-Arab
anti-Aristotelian
anti-Aristotelianism
anti-Australian
anti-Austria
anti-Austrian
anti-Bible
anti-Biblical
anti-Biblically
anti-Bolshevik
anti-Bolshevism
anti-Bolshevist
anti-Bolshevistic
anti-British
anti-Calvinism
anti-Calvinist
anti-Calvinistic
anti-Calvinistical
anti-Catholic
anti-Catholicism
anti-Darwin
anti-Darwinian
anti-Darwinism
anti-Darwinist
anti-English
anti-Europe
anti-European
anti-Europeanism
anti-France
anti-French
anti-Freud
anti-Freudian
anti-Freudianism
anti-G suit
anti-German
anti-Germanic
anti-Germanism
anti-Germanization
anti-Greece
anti-Greek
anti-Irish
anti-Italian
anti-Italianism
anti-Japanese
anti-Jesuit
anti-Jesuitic
anti-Jesuitical
anti-Jesuitically
anti-Jesuitism
anti-Jesuitry
anti-Jewish
anti-Judaic
anti-Judaism
anti-Judaist
anti-Judaistic
anti-Latin
anti-Latinism
anti-Malthusian
anti-Malthusianism
anti-Mexican
anti-Negro
anti-Negroes
anti-Negroism
anti-Nordic
anti-Oriental
anti-Orientalism
anti-Orientalist
anti-Plato
anti-Platonic
anti-Platonically
anti-Platonism
anti-Platonist
anti-Polish
anti-Populist
anti-Protestant
anti-Protestantism
anti-Puritan
anti-Puritanism
anti-Roman
anti-Romanist
anti-Russia
anti-Russian
anti-Scandinavia
anti-Scripture
anti-Scripturist
anti-Semite
anti-Semitic
anti-Semitism
anti-Serb
anti-Slav
anti-Slavic
anti-Socrates
anti-Socratic
anti-Soviet
anti-Spain
anti-Spanish
anti-Sweden
anti-Swedish
anti-Teuton
anti-Teutonic
anti-Trinitarian
anti-Trinitarianism
anti-Turkish
anti-Zionism
anti-Zionist
anti-acid
anti-aircraft
anti-attribution
anti-birmingham
anti-christian
anti-depressant
anti-emetic
anti-ethnc
anti-federalist
anti-gallic
anti-gallican
anti-gallican hitch
anti-gallicanism
anti-god
anti-guggler
anti-hero
anti-heroic
anti-hog-cholera
anti-icer
anti-icteric
anti-idealism
anti-idealist
anti-idealistic
anti-idealistically
anti-idolatrous
anti-immigration
anti-immigrationist
anti-immune
anti-imperialism
anti-imperialist
anti-imperialistic
anti-incrustator
anti-indemnity
anti-induction
anti-inductive
anti-inductively
anti-inductiveness
anti-infallibilist
anti-infantal
anti-innovationist
anti-intellectual
anti-intellectualism
anti-intellectualist
anti-intellectuality
anti-intermediary
anti-isolation
anti-isolationism
anti-isolationist
anti-isolysin
anti-jacobin
anti-jacobinism
anti-laissez-faire
anti-leaguer
anti-lecomption
anti-lecomptom
anti-maniacal
anti-mony-yellow
anti-nebraska
anti-nicaean
anti-novel
anti-novelist
anti-odontalgic
anti-open-shop
anti-orgastic
anti-over
anti-pre-existentiary
anti-roman
anti-semite
anti-sub rocket
anti-submarine rocket
anti-trade
anti-worlds
antiaircraft artillery
antiaircraft barrage
antiaircraft fire
antiaircraft gun
antiaircraft gun positioner
antiaircraft radar
antiaircraft rocket
antiballistic missile
antiballistic-missile system
antiberi-beri factor
antiblackout suit
antiblastic immunity
antic wit
anticipate a blessed event
anticipating a blessed event
anticrepuscular arch
antidote cacoön
antidote lily
antidrag wire
antifouling paint
antifriction bearing
antifriction curve
antifriction metal
antifriction wheels
antigen treatment
antigen-antibody product
antilift wire
antimine rocket
antimissile missile
antimonic acid
antimonioso-
antimonous hydride
antimony blende
antimony bloom
antimony chloride
antimony cinnabar
antimony crocus
antimony crude
antimony glance
antimony glass
antimony hydride
antimony ocher
antimony orange
antimony oxide
antimony oxychloride
antimony pentachloride
antimony pentasulfide
antimony pentasulphide
antimony pentoxide
antimony potassium tartrate
antimony red
antimony regulus
antimony rubber
antimony saffron
antimony salt
antimony sulfate
antimony sulfide
antimony sulphide
antimony tetroxide
antimony trichloride
antimony trifluoride
antimony trioxide
antimony trisulfide
antimony trisulphide
antimony vermilion
antimony white
antimony yellow
antimonyl potassium tartrate
antinoise microphone
antiophthalmic factor
antiophthalmic vitamin
antipernicious anemia factor
antipersonnel bomb
antipersonnel mine
antiphonal chanting
antiphonal singing
antipodal points
antiquated expression
antiquated person
antiquated word
antique brass
antique bronze
antique brown
antique cloth
antique collector
antique crown
antique dealer
antique drab
antique glass
antique gold
antique green
antique plane
antique red
antique store
antique-car collector
antiradar rocket
antisepctic surgery
antisocial attitudes
antisocial personality
antisocial sentiments
antisterility factor
antisubmarine bomb
antisubmarine mortar
antisubmarine patrol
antisubmarine plane
antisubmarine projector
antisubmarine radar
antisymmetrical tensor
antitank gun
antitank mine
antitank rifle
antitank rocket
antitorque rotor
antitoxic globulin
antitoxic serum
antitwilight arch
antixerophthalmic vitamin
antler moth
antlion fly
ants in your pants
antsy-pantsy
anvil block
anvil chisel
anvil cloud
anvil cupper
anvil cutter
anvil dross
anvil forger
anvil maker
anvil top
anvil vise
anvil-drilling
anvil-faced
anvil-facing
anvil-headed
anxiety equivalent
anxiety hysteria
anxiety neurosis
anxiety reaction
anxiety state
anxious bench
anxious concern
anxious for
anxious seat
anxiously up
any Tom
any color
any day
any he
any hour
any minute
any moment
any more
any old way
any one
any road
any time
any time now
any which way
any-kyn
anything but
anything like
anything soever which
anywhere near
ao dai
aoi tsuba
aortic arch
aortic incompetence
aortic insufficiency
aortic stenosis
aortic valve
ap proving
ap-
apache dance
apar-
apart from
apartment building
apartment hotel
apartment house
ape about
ape fissure
ape hand
ape man
ape over
ape-headed
ape-man
ape-men
apel-
apen-
aper-
aperiodic discharge
aperture card
aperture ratio
aperture stop
aperture vignette
apet-
apex beat
apex rule
aph-
aphid lion
aphid rosette
aphid-lion
aphis fly
aphis foot
aphis lion
aphis wolf
aphis-lion
aphlogistic lamp
aphthous fever
aphthous stomatitis
apical meristem
apico-alveolar
apico-dental
aplastic anemia
apo-
apocha trium annorum
apocrine gland
apologize for
apoplectic stroke
aposematic mimicry
apostle bird
apostle jug
apostle spoon
apostles' creed
apostolic age
apostolic brief
apostolic church
apostolic delegate
apostolic faith
apostolic father
apostolic orders
apostolic succession
apostolic vicar
apothecaries' measure
apothecaries' weight
apothecary jar
apothecary's shop
appalachian tea
apparatus belli
apparatus criticus
apparent candlepower
apparent character
apparent destiny
apparent fate
apparent heir
apparent horizon
apparent magnitude
apparent soundness
apparent time
apparent wind
apparently sound
appeal motion
appeal to
appeal to a higher court
appeal to arms
appeal to the country
appeal to the law
appeal to the sword
appeal to you for
appeal to your better feelings
appear for
appear in print
appear like
appear on the horizon
appear on the scene
appear on the stage
appear to be
appear to your eyes
appear unexpectedly
appearance money
appearances are in favor of
appellate court
appellate division
appellate jurisdiction
appendico-enterostomy
appendicular skeleton
appendix vermiformis
apperception mass
apperception test
appertain to
appetizing store
appian way
applaud to the very echo
apple anthracnose
apple aphid
apple banana
apple bee
apple blight
apple blossom
apple blotch
apple box
apple brandy
apple bucculatrix
apple butter
apple canker
apple cheese
apple curculio
apple dumpling
apple essence
apple family
apple fly
apple fritter
apple geranium
apple grain aphid
apple green
apple grunt
apple gum
apple haw
apple juice
apple knocker
apple leaf
apple maggot
apple mildew
apple mint
apple moss
apple moth
apple of discord
apple of your eye
apple oil
apple pandowdy
apple pie
apple polisher
apple pox
apple psylla
apple rosette
apple rust
apple sauce
apple scab
apple scald
apple scale
apple shell
apple slump
apple snail
apple sucker
apple tart
apple toddy
apple tree
apple tree borer
apple turnover
apple weevil
apple wine
apple worm
apple-checked
apple-eating
apple-faced
apple-fallow
apple-john
apple-pie
apple-pie bed
apple-pie order
apple-polish
apple-polisher
apple-polishing
apple-scented
apple-shaped
apple-stealing
apple-twig
apple-twig beetle
apple-twig borer
applejack brandy
apples and pears
appleton layer
appletree borer
applicate number
application for retrial
application lace
applied chemistry
applied kinematics
applied linguistics
applied mathematics
applied mechanics
applied physics
applied psychology
applied science
applied tactics
applique lace
apply for
apply margin
apply paint
apply pressure
apply reason
apply the attention to
apply the match to
apply the mind
apply the mind to
apply the torch to
apply the yardstick to
apply to
apply yourself
apply yourself to
applying color
appoint yourself
appointed lot
appointment calendar
appointment schedule
apportionment bill
apposition beach
appositive genitive
appraisal clause
appreciate differences
appreciation bond
appreciation of differences
appreciation of excellence
appreciative of
apprentice printer
apprentice seaman
apprentice teacher
apprentice work
apprentice yourself to
apprised of
approach anchorage
approach leg
approach light
approach of time
approach path
approach shot
approach trench
appropriate for
appropriate to
appropriation bill
approval book
approval sheet
approve of
approved school
apricot brandy
apricot palm
apricot plum
apricot scale
apricot sour
apricot vine
apricot wine
apricot yellow
apricot-kernal
april fool
april fools' day
apron converyer
apron lining
apron man
apron piece
apron plate
apron roll
apron shield
apron stage
apron string
apron wall
apron-squire
apron-string
apropos of
apse aisle
apse line
apt to
aptitude test
aqua ammonia
aqua ammoniae
aqua aromaticia
aqua bromata
aqua bulliens
aqua caelestis
aqua camphirae
aqua chlorata
aqua fortis
aqua green
aqua labyrinthi
aqua marina
aqua mirabilis
aqua phagedaenica nigra
aqua pura
aqua regia
aqua rosea
aqua tofana
aqua vitae
aqua-vitae
aquamarine chrysolite
aquamarine topaz
aquatic plant
aqueduct bridge
aqueduct of Sylvius
aqueo-
aqueous ammonia
aqueous humor
aqueous humour
aquiline-nosed
aquo-ion
ar-
arabian coffee
arabic numeral
arabica coffee
arable land
arachidic acid
arachis oil
arachnoid granulation
arachnoid membrane
arba kanfoth
arbiter elegantiae
arbiter elegantiarum
arbiter of fashion
arbiter of taste
arbitrament of the sword
arbitrated par
arbitration bar
arbitration treaty
arbor day
arbor press
arbor shaft
arbor vine
arbor vitae
arborization block
arborvitae leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
arc flame
arc furnace
arc generator
arc lamp
arc light
arc lighting
arc pitch
arc process
arc secant
arc sine
arc spectrum
arc tangent
arc transmitter
arc weld
arc welder
arc welding
arc-back
arc-boutant
arc-jet engine
arc-over
arc-shaped
arcane meaning
arcanum arcanorum
arch aurora
arch bar
arch barrel
arch beam
arch board
arch brace
arch brick
arch bridge
arch buttress
arch dam
arch head
arch order
arch over
arch press
arch ring
arch solid
arch spring
arch stone
arch support
arch-
arch-brahman
arch-butler
arch-buttress
arch-chanter
arch-christendom
arch-christianity
arch-enemy
arch-fiend
arch-flamen
arch-foe
arch-gravity dam
arch-heretic
arch-poet
arch-prelate
arch-presbyter
arch-protestant
arch-sea
arch-traitor
arch-villain
arch-whig
archae-
archaeo-
archaic smile
archaic white race
arched roof
arched truss
archepiscopal cross
archery ground
arches-court
archetypal idea
archetypal image
archetypal myth
archetypal pattern
archetypal symbol
archetypal world
archi-
archiepiscopal cross
archil extract
archil liquor
archimedes' screw
archippus butterfly
architect's table
architectural bronze
architectural capitals
architectural draftsman
architectural engineer
architectural ornamentation
architectural ornamentations
architectural sculpture
architectural topping
architectural toppings
architecture styles
arcing contact
arcing jaws
arcs-boutants
arctic char
arctic circle
arctic fox
arctic rescue helicopter
arctic sea smoke
arctic seal
arctic smoke
arctic tern
arctic timothy
arctico-altaic
arcus senilis
arcwise connected set
ardent friend
ardent friendship
ardent imagination
ardent spirits
ardor urinae
area bombing
area code
area gate
area graph
area measure
area measures
area opaca
area pellucida
area rule
area sneak
area study
area vasculosa
area vector
area vitellina
area wall
area-moment method
areal linguistics
areca catechu
areca nut
areca palm
arena theater
arena theatre
arenaceo-
arenoso-
areo-
areolate mildew
argan oil
argan tree
argemone oil
argent-vive
argentella lace
argentine thistle
argento-
argento-cuprous sulfide
argillaceo-
argillo-
arginine phosphagen
argle-bargie
argle-bargle
argon lamp
argon potassium dating
argue at the bar
argue down
argue for
argue insincerely
argue into
argue to no purpose
argue your case
argue-bargue
argument by analogy
argument from design
argument principle
argumentMaths
arguments at the bar
argumentum a fortiori
argumentum ad baculum
argumentum ad captandum
argumentum ad captandum vulgus
argumentum ad hominem
argumentum ad rem
argumentum baculinum
argus brown
argus pheasant
argus shell
argus tortoise beetle
argus-eyed
argy-bargied
argy-bargies
argy-bargy
argy-bargying
argyr-
arh-
aria buffa
aria cantabile
aria d'agilita
aria d'imitazione
aria da capo
aria da chiesa
aria di bravura
aria di coloratura
aria fugata
aria parlante
aria singer
arias da capo
arid region
ariel gazelle
ariel petrel
ariel toucan
arise and go to
arise from
arising from
aristo-
aristocratic disdain
aristocratic presumption
arithmetic mean
arithmetic progression
arithmetic series
arithmetical progression
arithmetical proportion
arithmetico-geometric
arithmetico-geometrical
arithmo-
arjun wax
ark shell
arkwright furniture
arle penny
arles penny
arm band
arm board
arm coil
arm garter
arm gear
arm guard
arm in arm
arm of the law
arm of the sea
arm of the service
arm stake
arm viol
arm wrestling
arm-chair
arm-great
arm-headed
arm-hole
arm-in-arm
arm-linked
arm-shaped
armadillo shell
armature assembler
armature bender
armature binder
armature reaction
armature winder
armature winding
armchair authority
armchair philosopher
armed and ready
armed assault
armed at all points
armed bullhead
armed cap-a-pie
armed combat
armed conflict
armed force
armed forces
armed guard
armed neutrality
armed robbery
armed service
armed to the teeth
armed with patience
armes parlantes
armillary sphere
arming cap
arming chest
arming doublet
armistice day
armless chair
armor belt
armor grating
armor plate
armor plating
armor-bearer
armor-clad
armor-piercing
armor-plate
armor-plated
armored cable
armored car
armored combat
armored corps
armored cruiser
armored dinosaur
armored forces
armored heart
armored scale
armored tactics
armored vessel
armorial bearings
armour plate
armour-bearer
armour-clad
armour-piercing
armour-plate
armoured car
armoured troops
arms of Morpheus
arms race
army ant
army area
army brat
army brown
army corps
army cutworm
army engineer
army engineering
army group
army nurse corps
army of occupation
army reserves
army service corps
army troops
army worm
arnica bud
aroint thee
aromatic compound
aromatic gum
aromatic spirits of ammonia
aromatic water
aromatized wine
around the bush
around the clock
around-the-clock
arouse notice
arouse the memory
arouse your enthusiasm
arouse your passion
arrange a match
arrange evidence
arrange for
arrange in layers
arrange in levels
arrange in strata
arrange in tiers
arrange itself
arrange matters
arrange your ideas
arrange your thoughts
arrant coward
arras-wise
arrear-guard
arrear-ward
arrest attention
arrest of judgment
arrest the thoughts
arrest your notice
arrested development
arresting gear
arrestor hook
arriere fee
arriere tenant
arriere vassal
arriere-ban
arriere-pensee
arris fillet
arris gutter
arris piece
arris rail
arrive at
arrive at a conclusion
arrive at an agreement
arrive in
arrive upon
arrogate to yourself
arrow aimed at your heart
arrow arum
arrow cane
arrow for
arrow grass
arrow horn
arrow maker
arrow making
arrow mehl
arrow release
arrow rest
arrow shot
arrow snake
arrow stave
arrow straightener
arrow-back
arrow-back chair
arrow-bearing
arrow-grass
arrow-grass family
arrow-head
arrow-leaved
arrow-root
arrow-shaped
arrow-slain
arrow-smitten
arrow-toothed
arrow-wood
arrow-wounded
arrowroot family
arroyo grape
arroyo willow
arroz con pollo
ars est celare artem
ars gratia artis
ars longa vita brevis
ars nova
ars poetica
arse licker
arsen-
arsenic acid
arsenic antidote
arsenic bloom
arsenic calciner
arsenic disulfide
arsenic eater
arsenic eating
arsenic glass
arsenic green
arsenic mirror
arsenic mold
arsenic monosulfide
arsenic orange
arsenic refiner
arsenic smelter
arsenic trichloride
arsenic trioxide
arsenic yellow
arsenic-
arsenical babbitt
arsenical pyrite
arsenio-
arsenious acid
arsenious oxide
arseniuretted hydrogen
arseno group
arseno radical
arseno-
aromatic acid
arsenous anhydride
arsenous oxide
arsha rite
arsino group
arsino radical
arson investigator
arsy-varsiness
arsy-varsy
arsy-versy
art autre
art brown
art brut
art center
art column
art composition
art critic
art criticism
art dealer
art deco
art department
art design
art director
art editor
art equipment
art exhibition
art expression
art film
art form
art gallery
art glass
art gray
art green
art guild
art league
art lining
art manual
art museum
art music
art nouveau
art object
art of public speaking
art of reason
art of war
art paper
art period
art school
art schools
art shade
art song
art square
art student
art styles
art supervisor
art teacher
art theater
art union
art work
art-colored
art-conscious
art-like
art-minded
artemisia green
arteri-
arterial aneurism
arterial blood
arterial highway
arterial street
arterial transfusion
arterial varix
arterio-
arteriosclerotic psychosis
artery forceps
artesian borer
artesian well
artful dodge
artful endearments
arthr-
arthritis deformans
arthritis fungosa
arthritis pauperum
arthro-
artichoke bottom
artichoke green
article of commerce
article of faith
article of merchandise
article of virtu
article writer
articled clerk
articles of association
articles of faith
articles of religion
articulated locomotive
articulated lorry
articulatory phonetics
artificer branch
artificial aids
artificial antenna
artificial blond
artificial dye
artificial feedback kidney
artificial feel
artificial fiber
artificial heart
artificial horizon
artificial immunity
artificial insemination
artificial intelligence
artificial isotope
artificial kidney
artificial lake
artificial language
artificial languages
artificial leech
artificial magnet
artificial nucleation
artificial pacemaker
artificial person
artificial radioactivity
artificial respiration
artificial satellite
artificial satellites
artificial selection
artificial sweetener
artificial turf
artificial voice
artillery hub
artillery park
artillery plant
artillery train
artillery wagon
artillery wheel
artisan work
artist lithography
artist's model
artist's proof
artist-in-residence
artiste-peintre
artistic administrator
artistic director
artistic flair
artistic imagination
artistic invention
artistic judgment
artistic production
artistic quality
artistic school
artistic skill
artistic style
artistic taste
artistic temperament
artists’ canvas
arts and crafts
arts college
arts of design
arts-man
arts-master
artsy-craftsiness
artsy-craftsy
arty-craftiness
arty-crafty
arum family
arum lily
aryl group
aryl radical
aryteno-
arlyteno-epiglottic
arytenoid cartilages
as I live and breathe
as a body
as a bonus
as a case in point
as a consequence
as a cover
as a cover-up
as a gift
as a guess
as a joke
as a matter of course
as a matter of fact
as a matter of form
as a pretext
as a profession
as a replacement for
as a result
as a result of
as a rough guess
as a rule
as a substitute for
as a vocation
as a whole
as agreed upon
as all creation
as all get-out
as an alibi
as an alternative
as an alternative to
as an approximation
as an example
as an excuse
as an instance
as attested by
as bad as bad can be
as bad as they come
as bad as they make ’em
as best as you can
as big as life
as boundless as the sea
as broad as long
as can be
as chaste as Diana
as chaste as unsunn'd snow
as clear as day
as close as a vise
as cold as any stone
as compared with
as compensation
as contracted for
as destiny wills
as earnest
as every schoolboy knows
as expected
as far as
as far as I am concerned
as far as possible
as far as the eye can see
as far as you can see
as far as you can tell
as far as you desire
as far as you know
as fate wills
as firm as a stone
as fit as a fiddle
as for
as full as a tick
as good as
as good as good can be
as good as they come
as good as they make 'em
as good as your word
as hard as nails
as here defined
as here interpreted
as how
as if
as ill luck would have it
as in duty bound
as is
as is fitting
as is just
as is only fair
as is only right
as is proper
as is right
as is the custom
as is usual
as is your due
as is your right
as is your wont
as it chanced
as it has been said
as it is
as it is said
as it may be
as it may chance
as it may happen
as it may turn out
as it may turn up
as it ought to be
as it pleases yourself
as it seems
as it seems best
as it seems good
as it should be
as it suits yourself
as it was said of old
as it were
as large as life
as lief
as lief as not
as lies in your power
as like as can be
as like as eggs
as like as two peas in a pod
as lissome as a hazel wand
as little as may be
as long as
as long as your arm
as luck wills
as luck would have it
as matters stand
as may be
as may be expected
as merry as the day is long
as much again
as much as
as much as in one lies
as much as lieth in you
as much as to say
as near as makes no difference
as near as no matter
as new
as no one would have predicted
as of
as of a chapter
as of now
as often as can be
as often as not
as often as you like
as often as you wish
as one
as one goes
as one man
as ordered
as our guest
as per usual
as plain as a pikestaff
as plain as plain can be
as promised
as proud as Punch
as proxy for
as red
as regards
as representing
as required
as respects
as safe as houses
as seen
as soon
as soon as
as such
as sure as I live and breathe
as the case may be
as the crow flies
as the day is long
as the fellow says
as the matter stands
as the saying goes
as the saying is
as the sparks fly upward
as the story goes
as the story runs
as the tree falls
as the world goes
as they say
as things are
as things go
as things may fall
as things turn out
as things worked out
as thou wilt
as though
as tightfisted as a kulak
as times go
as to
as transient as the clouds
as usual
as well
as well as
as well as can be said
as who should say
as wide asunder as pole and pole
as yet
as you may have suspected
as you might suppose
as you might think
as you please
as you say
as you sees it
as you think best
as you will
as you wish
as-
asa dulcis
asafetida oil
asarum camphor
asarum oil
asbestos blanket
asbestos board
asbestos braid
asbestos carder
asbestos cement
asbestos cloth
asbestos covering
asbestos crusher
asbestos curtain
asbestos doubler
asbestos felt
asbestos fiber
asbestos filter
asbestos flooring
asbestos lagging
asbestos lining
asbestos listing
asbestos lumber
asbestos paper
asbestos porcelain
asbestos rock
asbestos tile
asbestos toaster
asbestos weaver
asbestos wood
asbestos-coated
asbestos-corrugated
asbestos-covered
asbestos-packed
asbestos-protected
asbestos-welded
asc-
ascend the throne
ascending aorta
ascending colon
ascending node
ascension day
ascetical theology
asclepias butterfly
asco-
ascorbic acid
ascot tan
ascot tie
ascribe importance to
ascribe to
ascus fruit
aseptic surgery
asexual generation
asexual reproduction
ash barrel
ash bin
ash blond
ash bread
ash bud
ash cake
ash can
ash canker
ash cart
ash chute
ash collector
ash color
ash cone
ash furnace
ash gray
ash heap
ash hopper
ash key
ash leaf
ash oven
ash pile
ash pole
ash pone
ash pumpkin
ash rock
ash spear
ash staff
ash tray
ash tree
ash wednesday
ash wood
ash-bellied
ash-blonde
ash-blue
ash-colored
ash-free
ash-gray
ash-gray blister beetle
ash-leaved
ash-leaved maple
ash-looking
ash-staved
ash-throated
ash-wednesday
ash-white
ashamed of yourself
ashen-hued
ashes in the mouth
asphalt jungle
asphalt macadam
asphalt mastic
asphalt oil
asphalt paint
asphalt paper
asphalt rock
asphalt tile
asphalt-base
asphalt-base oil
asphodel green
asphyxia neonatorum
asphyxiating gas
aspirating stroke
aspiration pneumonia
aspire after
aspire to
ass between two bundles of hay
ass in lion's skin
ass over elbows
ass parsley
ass-backwards
ass-chewing
ass-ear
ass-head
ass-headed
ass-kisser
ass-kissing
ass-licker
ass-licking
ass-reaming
ass-ship
assai palm
assail the ear
assail the nostrils
assassin bug
assault and battery
assault and robbery
assault boat
assault line
assault sexually
assault the ear
assault transport
assault-troop plane
assay balance
assay bar
assay beam
assay crucible
assay cup
assay flask
assay foot
assay furnace
assay groove
assay mill
assay office
assay oven
assay pound
assay ton
assay-office bar
assembling mark
assembly conveyer
assembly district
assembly hall
assembly language
assembly line
assembly plant
assembly room
assembly routine
assembly-line housing
assembly-line production
assent grudgingly
assent to
assent under protest
assented bond
assert a claim to
assert a right to
assert a title to
assert the contrary
assert under oath
assert yourself
assertiveness training
asses' bridge
assess a tax upon
assessable stock
assessed valuation
assessment company
assessment insurance
assessment on default
assessment work
asset currency
asset-stripping
assets and liabilities
assign lessons
assign to
assign to a place
assignation house
assigned counsel
assigned risk
assigned task
assigned to
assignment of cause
assimilate to
assimilate with
assistant agent
assistant auditor
assistant barber
assistant bookkeeper
assistant buyer
assistant cashier
assistant chemist
assistant chief
assistant clerk
assistant deputy
assistant director
assistant driver
assistant druggist
assistant editor
assistant engineer
assistant examiner
assistant foreman
assistant guard
assistant housekeeper
assistant inspector
assistant janitor
assistant janitress
assistant librarian
assistant manager
assistant professor
associate professor
associate with
associate yourself with
associated statehood
association area
association book
association by contiguity
association by similarity
association by sound
association copy
association fiber
association football
association neuron
association neurosis
association of ideas
association psychology
association test
association time
associative algebra
associative anamnesis
associative neuron
assort with
assume airs
assume command
assume the
assume the guise of
assume the identity of
assume the offensive
assumed bond
assumed name
assumed position
assuming that
assumption of superiority
assure yourself
assured faith
assured of success
assured probity
astable circuit
astasia-abasia
astatic galvanometer
aster daisy
aster family
aster purple
aster ray
aster yellows
asterias swallowtail
asthma herb
asthma paper
asthma weed
asthmatic cigarette
asthmatic wheeze
astigmatic lens
astonishing thing
astr-
astragal Architect
astrakhan cloth
astral body
astral crown
astral influences
astral lamp
astral plane
astral projection
astral ray
astral spirit
astrangent bitters
astro hatch
astro station
astro-
astro-inertial guidance
astro-meteorology
astronomical almanac
astronomical calendar
astronomical chart
astronomical clock
astronomical day
astronomical distance
astronomical frame of reference
astronomical longitude
astronomical number
astronomical observatory
astronomical refraction
astronomical telescope
astronomical twilight
astronomical unit
astronomical year
asymmetric carbon atom
asymmetric time
asymmetric transmission
asymmetry potential
at a bargain
at a blow
at a clip
at a declining rate
at a disadvantage
at a discount
at a distance
at a first approximation
at a funeral pace
at a glance
at a good clip
at a great rate
at a halt
at a high price
at a later time
at a loose end
at a loss
at a low ebb
at a low price
at a nonplus
at a premium
at a price
at a profit
at a reduction
at a sacrifice
at a slant
at a snail's pace
at a stand
at a standstill
at a stretch
at a stroke
at a subsequent time
at a tangent
at a turtle's pace
at a venture
at a word
at about
at all
at all accounts
at all costs
at all events
at all hazards
at all points
at all risks
at all times
at an advanced age
at an angle
at an end
at an impasse
at anchor
at another time
at any cost
at any price
at any rate
at any sacrifice
at any straw
at any time
at arm's length
at attention
at auction
at bar
at bat
at bay
at bayonet point
at best
at bottom
at budget prices
at choice
at close hand
at close quarters
at cockerow
at concert pitch
at cost
at cost price
at cross-purposes
at cross-purposes with
at daggers
at daggers drawn
at dawn
at dawn of day
at death's door
at demand
at discretion
at each other's throat
at ease
at ease and lighthearted
at enmity
at established periods
at every turn
at fault
at feud
at fever pitch
at first
at first blush
at first hand
at first light
at first sight
at first view
at fixed periods
at flank speed
at flood
at full
at full blast
at full drive
at full length
at full pelt
at full speed
at full throttle
at gaze
at grade
at great cost
at great expense
at grips
at gunpoint
at hack
at half cock
at hand
at haphazard
at haven
at hazard
at heart
at heavy cost
at heel
at home
at home in
at home with
at infrequent intervals
at intervals
at irregular intervals
at issue
at it
at just the wrong time
at large
at last
at least
at leisure
at length
at liberty
at loggerheads
at long last
at loose ends
at mid-day
at most
at next hand
at night
at no
at no great distance
at no hand
at no time
at noon
at odd times
at odds
at odds with
at once
at once and on the spot
at one
at one and the same time
at one blow
at one fell swoop
at one jump
at one stroke
at one swoop
at one time
at one with
at opposite extremes
at outcry
at outs
at par
at peace
at piggy-bank prices
at pleasure
at present
at prime cost
at public auction
at public outcry
at random
at reduced rates
at regular intervals
at rest
at right angles
at rock bottom
at sea
at second hand
at short notice
at sight
at sixes and sevens
at small cost
at some other time
at square
at stake
at stated times
at straws
at strife
at sunrise
at swords' points
at that
at that instant
at that moment
at that rate
at that time
at the bar
at the base of
at the beck and call of
at the bottom
at the bottom of
at the bottom of the heap
at the bottom of the scale
at the bound
at the breast
at the bursting point
at the conclusion
at the core
at the crack of dawn
at the dip
at the double
at the drop of a handkerchief
at the drop of a hat
at the eleventh hour
at the end
at the end of your rope
at the end of your tether
at the expense of
at the feet of
at the first blush
at the first go-off
at the first opportunity
at the foot of
at the gun
at the hand
at the hand of
at the hands of
at the head
at the heart of
at the height
at the helm
at the instance of
at the last
at the last extremity
at the last gasp
at the last minute
at the latest
at the least
at the limit
at the mercy of
at the most
at the nadir
at the option of
at the outside
at the peak
at the periphery
at the pinnacle
at the pitch of your breath
at the point of
at the point of a gun
at the point of death
at the point of the bayonet
at the point of the gun
at the point of the sword
at the portals of death
at the present time
at the reins
at the same instant
at the same moment that
at the same time
at the same time as
at the same time that
at the start
at the summit
at the threshold
at the threshold of
at the time of
at the time that
at the top
at the top of the ladder
at the top of the tree
at the top of your bent
at the top of your lungs
at the top of your voice
at the wheel
at the word of command
at the zenith
at this instant
at this juncture
at this moment
at this point
at this time
at this time of day
at times
at twelve-o’clock sharp
at variance
at variance with
at variance with the facts
at various times
at war
at war ’twixt will and will not
at war with
at what price
at what time
at whatever time
at which
at which instant
at which moment
at which time
at wholesale
at will
at work
at worst
at wt
at your beck and call
at your best
at your bidding
at your call
at your command
at your convenience
at your discretion
at your disposal
at your door
at your ease
at your elbow
at your feet
at your fingertips
at your heels
at your last gasp
at your leisure
at your mercy
at your nod
at your orders
at your own discretion
at your own sweet time
at your own sweet will
at your pleasure
at your service
at your side
at your will
at your will and pleasure
at your wit's end
at your wits' end
at-
at-home
at-homeish
at-homeishness
at-homeness
at-large
atamascoc lily
ate-
atef crown
atef-crown
atelets sauce
atelo-
ater-
athanasian creed
athel tree
athlete's foot
athlete's heart
athletic coach
athletic equipment
athletic field
athletic heart
athletic socks
athletic support
athletic supporter
athwart the hawse
atka mackerel
atlantic time
atlanto-
atlas folio
atlee gall
atlo-
atlo-odontoid
atloido-occipital
atmo-
atmospheric attenuation
atmospheric boundary layer
atmospheric braking
atmospheric condition
atmospheric electricity
atmospheric engine
atmospheric layer
atmospheric perspective
atmospheric pressure
atmospheric tides
atmospheric visibility
atom blast
atom bomb
atom counter
atom gun
atom model
atom smasher
atom soul
atom war
atom-bomb
atom-chipping
atom-rocket
atom-smashing
atom-tagger
atom-tagging
atom-tracing spectrometer
atomic accelerator
atomic age
atomic arsenal
atomic attack
atomic battery
atomic beam
atomic bomb
atomic cannon
atomic chemistry
atomic clock
atomic cluster
atomic cocktail
atomic constants
atomic decay
atomic disintegration
atomic energy
atomic energy plant
atomic engine
atomic explosion
atomic furnace
atomic gun
atomic heat
atomic hydrogen torch
atomic hydrogen welding
atomic hypothesis
atomic mass
atomic mass unit
atomic model
atomic nucleus
atomic number
atomic particle
atomic particles
atomic pile
atomic power
atomic power plant
atomic project
atomic radiation
atomic ray
atomic reaction
atomic research
atomic science
atomic scientist
atomic structure
atomic submarine
atomic theory
atomic units
atomic units and constants
atomic volume
atomic war
atomic warfare
atomic warhead
atomic weapons
atomic weight
atomic-powered submarine
atone for
atrial fibrillation
atrioventricular block
atrioventricular bundle
atrioventricular node
atro-
atro-cren pain
atrocity story
atrophic arthritis
atrophic inflammation
attacca subito
attach a condition
attach a proviso
attach importance to
attach little importance to
attach some weight to
attach to
attach too much importance to
attach yourself to
attach case
attached to
attachment disk
attachment plug
attack bomber
attack in force
attack like lightning
attack of illness
attack of nerves
attack plane
attack squadron
attack time
attack transport
attain fulfillment
attain majority
attain mastery of
attain to
attain your objective
attar of roses
attempt the impossible
attempt to
attend Communion
attend Mass
attend classes
attend closely to
attend on
attend rites
attend school
attend to
attend to business
attend to orders
attend to your work
attend upon
attendance allowance
attendance centre
attendance officer
attendant godling
attendant spirit
attended by
attended with danger
attending physician
attention signal
attention span
attention to detail
attention to fact
attention-getting
attenuation charge
attested copy
attic order
attic room
attic story
attitude art
attitude-control rocket
atto-
attorney general
attorney generals
attorney in fact
attorney-at-law
attorney-generalship
attorney-in-fact
attorneys general
attorneys-at-law
attorneys-in-fact
attract attention
attract notice
attract your interest
attracted to
attracted-disk
attraction cone
attraction sphere
attractive nuisance
attributable to
attribute to
attributed to
atypical pneumonia
au beurre fondu
au beurre noire
au beurre roux
au bleu
au contraire
au courant
au fait
au fond
au fromage
au gras
au gratin
au jus
au kirsch
au lait
au maigre
au naturel
au pair
au pair girl
au pied de la lettre
au reste
au revoir
au vert pre
au vin blanc
au vol
aubergine purple
auburn-haired
auction agent
auction block
auction bridge
auction euchre
auction hearts
auction off
auction pinochle
auction pitch
auction pool
auction room
auction sale
aucuba green
aucuba mosaic
audibility meter
audience chamber
audience court
audience room
audience success
audience-proof
audio amplifier
audio channel
audio detector
audio devices
audio distortion
audio frequency
audio monitor
audio signal
audio sound system
audio transmitter
audio truck
audio-IF oscillator
audio-frequency
audio-frequency amplification
audio-frequency amplifier
audio-frequency circuit
audio-frequency detector
audio-frequency oscillator
audio-frequency tube
audio-visual
audio-visual aids
audio-visually
audit ale
audit book
audit certificate
audit date
audit house
audit office
audit room
auditor-general
auditors-general
auditory amnesia
auditory aphasia
auditory apparatus
auditory canal
auditory effect
auditory impairment
auditory meatus
auditory nerve
auditory organ
auditory ossicles
auditory phenomenon
auditory phonetics
auditory range
auditory sense
auditory stimulus
auditory tube
auditory vesicle
auf Wiedersehen
auf wiedersehen
augen-gabbro
augen-gneiss
auger bit
auger box
auger crank
auger drill
auger feed
auger handle
auger hole
auger lathe
auger machine
auger press
auger shell
auger stem
auger tongue
auger worm
auger-nose
auger-type
augite-porphyrite
augite-porphyry
augmented interval
augmented sixth
augmented triad
augur well
auld lang syne
auld-farran
auld-farrand
auld-farrant
auld-warld
auln-
aunc-
auntie man
aur-
aural examination
aural sense
aurea mediocritas
aurene glass
aureolin yellow
auri-iodide
auricula purple
auricular appendage
auricular confession
auricular fibrillation
auriculo-infraorbital
auriculo-occipital
auro-
aurora australis
aurora borealis
aurora glory
aurora orange
aurora particle
aurora particle counter
aurora particles
auto pilot
auto polish
auto radio
auto sacramental
auto show
auto-
auto-alarm
auto-audible
auto-da-f
auto-da-fe
auto-dafe
auto-infection
auto-inoculability
auto-inoculable
auto-inoculation
auto-objective
auto-observation
auto-omnibus
auto-ophthalmoscope
auto-ophthalmoscopy
auto-oxidation
auto-oxidize
auto-rickshaw
auto-rifle
autoconvection gradient
autodyne reception
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automanual system
automated factory
automated satellite
automatic analyzer
automatic analyzers
automatic block signal
automatic boost control
automatic choke
automatic control
automatic control engineering
automatic control system
automatic data processing
automatic detector
automatic detectors
automatic device
automatic devices
automatic dishwasher
automatic drill
automatic drive
automatic electronic navigation
automatic electronics
automatic engineering
automatic exchange
automatic factory
automatic feed mechanism
automatic frequency control
automatic gain control
automatic guidance
automatic gun
automatic gun director
automatic heater
automatic indicating scale
automatic indicator
automatic indicators
automatic iron
automatic laundry
automatic machine
automatic piano
automatic pilot
automatic pinspotter
automatic pistol
automatic plotter
automatic premium loan
automatic printer
automatic range finder
automatic reaction
automatic response
automatic rifle
automatic screw machine
automatic sight
automatic sprinkler
automatic stability
automatic stop
automatic switch
automatic technician
automatic technology
automatic telegraph
automatic telephone
automatic telephone exchange
automatic telephone system
automatic tracking
automatic transmission
automatic trip
automatic typesetting
automatic washer
automatic washer-dryer
automatic writing
automatic-weapons fire
automation technology
automobile board
automobile insurance
automobile liability insurance
automobile race
automobile racing
automobile registration tax
automobile showroom
automobile sled
automorphic-granular
automotive engineer
automotive engineering
autonomic epilepsy
autonomic nervous system
autonomic reaction
autos sacramentales
autoserum therapy
autotransformer starter
autotrophic organism
autotuberculin test
autourine test
autoxidation-reduction
autre chose
autre vie
autres temps autres murs
autumn bellflower
autumn blond
autumn catchfly
autumn crocus
autumn green
autumn leaf
autumn mange
autumn oak
autumn of your days
autumn snowflake
autumn squill
autumn violet
autumn willow
autumn-brown
autumn-spring
autumnal equinox
autumnal point
aux abois
aux aguets
aux armes
aux fines herbes
auxiliary boat
auxiliary equation
auxiliary language
auxiliary note
auxiliary power unit
auxiliary rafter
auxiliary tone
auxiliary verb
av-
avail nothing
avail yourself of
available funds
available gain
available light
available means
available resources
avalanche conduction
avalanche lily
avalanche wind
avant-
avant-courier
avant-garde
avant-garde jazz
avant-gardism
avant-gardist
avant-propos
avarice on stilts and masked
ave maria
avec plaisir
avellan cross
avenging spirit
aver-
average adjuster
average book
average clause
average deviation
average down
average life
average man
average out
average person
average revenue
average run
average stater
average up
average-life period
averse to
aversion therapy
avert the eyes
avian diphtheria
avian leukosis
avian pneumoencephalitis
avian pox
avian pseudoplaque
avian spirochetosis
aviation badge
aviation beacon
aviation beacons
aviation cadet
aviation field
aviation gasoline
aviation instrument
aviation insurance
aviation medicine
aviation radar
aviation radio
aviation technology
aviation wings
aviator glasses
avignon berry
avion-canon
avocado fat
avocado green
avocado oil
avocado pear
avocado weevil
avoid both Scylla and Charybdis
avoid excess
avoid extremes
avoid the limelight
avoid your gaze
avoidance mechanism
avoidance play
avoidance reaction
avoiding reaction
avoirdupois pound
avoirdupois weight
avowed Communist
aw-
awake a doubt
awake a suspicion
awake the dead
awake the echoes
awake to
awake to life immortal
awaken the memory
awaken the mind
awaken the thoughts
awaken to
award wage
award winner
aware of
away back
away from
away from home
away from the point
away off
away with you
away-going
away-going crop
awe-awakening
awe-band
awe-bound
awe-commanding
awe-compelling
awe-filled
awe-inspired
awe-inspiring
awe-inspiringly
awe-stricken
awe-strike
awe-struck
awful silence
awful-eyed
awful-gleaming
awful-looking
awful-voiced
awkward age
awkward person
awkward squad
awl bird
awl-fruitied
awl-leaved
awl-shaped
awn grass
awned wheat grass
awning cloth
awning deck
awning window
awless brome grass
ax eye
ax grinder
ax handle
ax helve
ax maker
ax sheath
ax wedge
ax, the
ax-adz
ax-shaped
axe-breaker
axial flow compressor
axial motion
axial pencil
axial skeleton
axial-flow
axial-flow turbine
axial-flow turbojet
axial-flow unit
axial-type engine
axiological ethics
axiom of choice
axiom of countability
axis cylinder
axis cylinder process
axis deer
axis of abscissas
axis of ordinates
axis of revolution
axis of symmetry
axle adjuster
axle arm
axle assembler
axle bar
axle bearing
axle bender
axle bolt
axle box
axle bush
axle cap
axle case
axle centerer
axle cutter
axle dresser
axle ender
axle filer
axle finisher
axle forger
axle grease
axle grinder
axle guard
axle guide
axle hammer
axle hammerman
axle hardener
axle hook
axle journal
axle lagger
axle lathe
axle load
axle oiler
axle packer
axle pin
axle pinner
axle press
axle rougher
axle saddle
axle seat
axle setter
axle shaft
axle sleeve
axle slotter
axle spindle
axle stool
axle straightener
axle tooth
axle turner
axle wad
axle worker
axle-bending
axle-boring
axle-centering
axle-forging
axle-tooth
axle-tree
axletree arm
axonometric projection
ay-
ay-green
aye-aye
aye-ceaseless
aye-during
aye-dwelling
aye-lasting
aye-living
aye-remaining
aye-renewed
aye-restless
aye-rolling
aye-running
aye-sought
aye-troubled
aye-turning
aye-varied
aye-welcome
ayenbite of inwit
ayer-ayer
ayr stone
ayurvedic medicine
az-
aza-
azido group
azido radical
azimuth bar
azimuth circle
azimuth co-ordinate
azimuth compass
azimuth dial
azimuth distance
azimuth error
azimuthal equidistant projection
azimuthal projection
azimuthal quantum number
azine dye
azo blue
azo dye
azo group
azo radical
azo-
azo-orange
azo-orchil
azo-orseilline
azoic dye
azomethine group
azon bomb
azonal soil
azonium base
azonium salt
azoxy group
azure-blazoned
azure-blue
azure-canopied
azure-circled
azure-colored
azure-domed
azure-eyed
azure-footed
azure-inlaid
azure-mantled
azure-penciled
azure-plumed
azure-tinted
azure-vaulted
azure-veined
azarite blue
azygo-
b Physics
b and b
b battery
b complex
b-horizon
b/d Book-keeping
baal kore
baal marriage
baba au rhum
baba-koto
babas au rhum
babassu oil
babbit-metal
babbit metal
babbitting jig
babcock test
babe in the wood
babe in the woods
babe-faced
babies'-breath
baby act
baby beef
baby bird
baby blue
baby blue-eyes
baby blues
baby bond
baby bonus
baby boom
baby buggy
baby bunting
baby carriage
baby clothes
baby eyes
baby face
baby farm
baby farmer
baby farming
baby fern
baby grand
baby grand piano
baby heathberry
baby jib topsail
baby kisser
baby lace
baby linen
baby orchid
baby pin
baby pink
baby primrose
baby rambler
baby ribbon
baby seal
baby sitter
baby snatcher
baby split
baby spot
baby spotlight
baby step
baby talk
baby tears
baby threader
baby tooth
baby walker
baby's breath
baby's-breath
baby's-slippers
baby-blue-eyes
baby-browed
baby-doll
baby-face
baby-faced
baby-featured
baby-kissing
baby-sat
baby-sit
baby-sitter
baby-sitting
baby-sized
baby-snatching
baby-tears
bacalao bird
baccalaureate sermon
baccalaureate service
bach it
bachelor button
bachelor chest
bachelor girl
bachelor party
bachelor perch
bachelor's button
bachelor's degree
bachelor's gown
bachelor's-button
bachelor's-buttons
bachelor-at-arms
bachelors-at-arms
bacillary dysentery
bacillary white diarrhoea
back action
back air pipe
back airing
back anchor
back and fill
back and forth
back answer
back away
back balance
back band
back bar
back beam
back bench
back bender
back block
back boiler
back bond
back center
back check
back choir
back clearance
back cloth
back comb
back country
back crawl
back current
back debts
back dive
back door
back down
back draft
back eccentric
back electromotive force
back end
back entry
back fat
back file
back fillet
back focus
back formation
back four
back full
back gear
back green
back hair
back head
back home
back judge
back letter
back line
back liner
back lining
back link
back list
back lot
back maker
back marker
back matter
back molding
back number
back o' Bourke
back o' beyond
back of
back of beyond
back off
back one-third
back order
back out
back out of
back overman
back pack
back page
back painting
back passage
back paternoster
back payments
back pitch
back plastering
back play
back pressure
back projection
back rest
back-alley
back-and-forth
back-angle
back-bencher
back-berend
back-biting
back-blocker
back-blowing
back-board
back-breaking
back-breathing
back-broken
back-burner
back-check
back-cloth
back-cloths
back-coming
back-connected
back-connected switch
back-country
back-door
back-drawing
back-drawn
back-end
back-face
back-facing
back-fanged
back-fence gossip
back-filleted
back-fire
back-flowing
back-flung
back-focused
back-formation
back-geared
back-glancing
back-going
back-hand
back-handed
back-handed compliment
back-hander
back-lash
back-leaning
back-light
back-lighted
back-lighting
back-list
back-lit
back-log
back-looking
back-lying
back-making
back-number
back-paddle
back-paint
back-palm
back-pedal
back-pedaled
back-pedaling
back-pedalled
back-pedalling
back-piece
back-plaster
back-plate
back-pressure arm-lift method
back-pressure valve
back-pulling
back-putty
back-racket
back-raking
back-scratcher
back-scratching
back-seat driver
back-set
back-set bed
back-settler
back-sey
back-slang
back-slanging
back-slapping
back-spiker
back-staff
back-starting
back-stepping
back-stitch
back-stope
back-strapped
back-streeter
back-stroke
back-surging
back-sword
back-talk
back-tan
back-titrate
back-titration
back-to-back
back-to-back switching circuit
back-to-front
back-trailer
back-trip
back-up
back-up light
back-ward
back-way
backache brake
backache root
backbreaking work
backdoor trots
backed-off
backer-up
backers-up
backflap hinge
backflow valve
background detail
background music
background projection
background radiation
backhand rent
backing angle
backing bar
backing jointer
backing light
backing metal
backing off
backing out
backing paper
backing store
backing strip
backing striplight
backing up
backing wind
backing-off
backing-off lathe
backpacking tent
backpedaling brake
backseat driver
backspace key
backstairs influence
backstay stools
backup light
backup man
backward and forward
backward blessing
backward change
backward deviation
backward motion
backward step
backwards and forwards
backwater valve
bacon and eggs
bacon beetle
bacon hog
bacon-and-eggs
bacon-lettuce-tomato sandwich
bacteri-
bacteria bed
bacterial blight
bacterial canker
bacterial disease
bacterial plaque
bacterial therapy
bacterial vaccine
bacterial wilt
bacterio-
bacterio-opsonic
bacterio-opsonin
bacteriological warfare
baculo-metry
bad actor
bad behavior
bad blood
bad books
bad boy
bad break
bad breath
bad case
bad cess
bad character
bad check
bad child
bad condition
bad conduct discharge
bad copy
bad debt
bad debts
bad deed
bad dream
bad ear
bad egg
bad example
bad eyesight
bad fairy
bad faith
bad feeling
bad for
bad fortune
bad graces
bad grammar
bad guy
bad habit
bad hand
bad handwriting
bad hat
bad humor
bad influence
bad job
bad language
bad light
bad likeness
bad liquor
bad lot
bad luck
bad man
bad manners
bad money
bad move
bad name
bad news
bad notices
bad odor
bad off
bad people
bad peri
bad person
bad poet
bad poetry
bad policy
bad press
bad quality or effect
bad report
bad reputation
bad repute
bad smell
bad spelling
bad spirit
bad taste
bad temper
bad time
bad times
bad turn
bad will
bad woman
bad writing
bad-headed
bad-hearted
bad-humored
bad-looking
bad-minded
bad-mouth
bad-order freight
bad-smelling
bad-tempered
badge of infamy
badge of office
badger baiting
badger bird
badger dog
badger game
badger plane
badger skunk
badger-legged
badging hook
badly off
badminton court
badminton cup
bae-
baeberry bark
baffle board
baffle description
baffle gate
baffle painting
baffle plate
baffling problem
baffling wind
bag and baggage
bag bearer
bag beater
bag boom
bag bundler
bag cap
bag clasp
bag cleaner
bag cutter
bag dryer
bag feeder
bag filler
bag fitter
bag folder
bag fox
bag frame
bag framer
bag holder
bag house
bag loader
bag machinist
bag maker
bag marker
bag mender
bag net
bag of bones
bag of tricks
bag of wind
bag packer
bag picker
bag printer
bag rack
bag repairer
bag riveter
bag sewer
bag sleeve
bag sorter
bag stacker
bag stitcher
bag table
bag twine
bag work
bag worker
bag wrinkle
bag-bearing
bag-bedded
bag-bundling
bag-cheeked
bag-closing
bag-cutting
bag-filling
bag-flower
bag-folding
bag-printing
bag-reef
bag-sewing
bag-shaped
bag-wig
baggage agent
baggage car
baggage cart
baggage check
baggage clerk
baggage inspector
baggage man
baggage porter
baggage rack
baggage room
baggage train
baggage van
baggage wagon
baggage-smasher
bags I
bagworm moths
baib grass
bail bond
bail out
bail up
bail you out
bail-dock
bail-out
bailer shell
bailey bridge
bain-marie
bains-marie
bait and switch
bait bug
bait casting
bait set
bait the hook
baited trap
bake cart
bake kettle
bake sale
bake-meat
bake-off
baked Alaska
baked beans
baked goods
baked meat
baked sheep's head
baked-apple
baken by surprise
baker bird
baker sheet
baker's cheese
baker's dozen
baker's legs
baker-knee
baker-kneed
baker-leg
baker-legged
bakers' yeast
bakery moth
bakery proofer
baking powder
baking soda
bal costume
bal masque
balaclava helmet
balance accounts
balance adjuster
balance arm
balance beam
balance bob
balance bridge
balance clerk
balance cock
balance coil
balance crane
balance dock
balance electrometer
balance fish
balance frame
balance gate
balance in hand
balance income with outgo
balance level
balance link
balance lug
balance maker
balance of nature
balance of payments
balance of power
balance of precision
balance of trade
balance pin
balance piston
balance pit
balance plane
balance rail
balance reef
balance ring
balance rope
balance rudder
balance rynd
balance screw
balance sheet
balance spring
balance staff
balance step
balance the books
balance valve
balance watch
balance weight
balance wheel
balanced diet
balanced fund
balanced line
balanced personality
balanced rudder
balanced sentence
balanced step
balanced ticket
balanced valve
balancer set
balancing band
balancing coil
balancing condenser
balancing flap
balancing link
balancing ring
balancing set
balancing ways
balanitis gangrenosa
balanophore wax
balas ruby
balata belt duck
balata gum
bald as a coot
bald as an egg
bald coot
bald cypress
bald eagle
bald fact
bald-faced
bald-faced hornet
bald-headed
bald-headedness
bald-pated
bald-patedness
balder-brae
balder-herb
bale band
bale breaker
ball of fire
ball of wax
ball park
ball peen
ball peen hammer
ball pen
ball point pen
ball python
ball reamer
ball rest
ball rose
ball sage
ball screw
ball scater
ball smut
ball snake
ball stitch
ball tap
ball the jack
ball thistle
ball top
ball turret
ball up
ball valve
ball-and-claw foot
ball-and-socket joint
ball-bearing
ball-carrier
ball-flower
ball-hooter
ball-jasper
ball-park
ball-peen hammer
ball-planting
ball-point
ball-point pen
ball-shaped
ball-thrombus
ball-turret gun
ballad horn
ballad maker
ballad making
ballad measure
ballad meter
ballad metre
ballad opera
ballad poetry
ballad reciter
ballad rhyme
ballad singer
ballad singing
ballad stanza
ballad style
ballad writer
ballast brakesman
ballast car
ballast cleaner
ballast crusher
ballast engine
ballast fin
ballast ganger
ballast heaver
ballast hole
ballast inspector
ballast line
ballast loader
ballast master
ballast plant
ballast port
ballast pump
ballast regulator
ballast spreader
ballast stone
ballast tank
ballast tipper
ballast track
ballast trimmer
ballast tube
ballast unloader
ballast-cleaning
ballast-crushing
ballast-loading
balled up
balled-up
ballet blanc
ballet d'action
ballet dancer
ballet dancing
ballet divertissement
ballet girl
ballet master
ballet mistress
ballet music
ballet shoes
ballet skirt
ballet slipper
ballot-box stuffing
balloting place
ballpoint pen
ballroom dance
ballroom dancer
ballroom dancing
ballroom music
balls-up
bally gum
ballyhoo man
balm apple
balm cottonwood
balm cricket
balm dew
balm fir
balm leaf
balm mint
balm of Gilead
balm of gilead
balm oil
balm pine
balm shrub
balm tea
balm wine
balm-apple
balm-breathing
balm-cricket
balm-leaved
balm-shed
balmy sleep
balsa raft
balsam apple
balsam bog
balsam capivi
balsam copaiba
balsam cucumber
balsam fig
balsam fir
balsam flowers
balsam groundsel
balsam herb
balsam hickory
balsam of Mecca
balsam of Peru
balsam of fir
balsam of peru
balsam of tolu
balsam pear
balsam poplar
balsam shrub
balsam spruce
balsam spurge
balsam tree
balsam vine
balsam-tree family
balto-slavic
baluster column
baluster measure
baluster shaft
baluster stem
bambara butter
bamboo brier
bamboo curtain
bamboo fern
bamboo fish
bamboo grass
bamboo money
bamboo oyster
bamboo palm
bamboo partridge
bamboo rat
bamboo reed
bamboo screen
bamboo shade
bamboo shoot
bamboo shoots
bamboo sugar
bamboo turning
bamboo vine
bamboo ware
bambui butter
bambuk butter
banana bean
banana belt
banana bird
banana boa
banana eater
banana family
banana fish
banana flour
banana fly
banana freckle
banana liquid
banana moth
banana oil
banana quit
banana republic
banana root borer
banana seat
banana shrub
banana solution
banana split
banana water lily
banana weevil
banana wilt
band bracelet
band brake
band chain
band concert
band conveyer
band course
band creaser
band cutter
band driver
band filter
band iron
band leader
band major
band maker
band mill
band plant
band pulley
band resaw
band saw
band screen
band shell
band spectrum
band steel
band theory of solids
band together
band wagon
band wheel
band-aid
band-gala
band-pass filter
band-saw file
band-sawing
band-sawyer
band-shaped
band-tailed
band-tailed pigeon
bandage compress
bandar-log
banded anteater
banded purple
banded rattlesnake
banded rudderfish
banded together
banded about
handle linen
bandoleer fruit
bandtailed pigeon
bandy about
bandy leg
bandy legsbow-legged
bandy with
bandy words
bandy-bandy
bandy-legged
baneful dire
bang away at
bang beggar
bang into
bang off
bang on
bang up
bang's disease
bang-bang
bang-tail
bang-up
bangalore torpedo
banged-up
bangle ear
bangtail muster
banister back
banister-back
banjo clock
banjo eyes
banjo frame
banjo signal
banjo-picker
banjo-uke
banjo-ukulele
banjo-zither
bank acceptance
bank account
bank accountant
bank agent
bank annuities
bank annuity
bank assets
bank assistant
bank auditor
bank balance
bank barn
bank beaver
bank bill
bank bird
bank book
bank boss
bank brakesman
bank call
bank card
bank cashier
bank charter
bank check
bank claim
bank clearings
bank clerk
bank cod
bank court
bank credit
bank cress
bank deposit
bank deposit insurance
bank discount
bank draft
bank engine
bank examiner
bank fish
bank fisher
bank fisheries
bank footman
bank foreman
bank gravel
bank guaranty
bank guard
bank head
bank heading
bank holiday
bank indicator
bank inspector
bank jug
bank laborer
bank ledger
bank letter
bank loan
bank manager
bank martin
bank messenger
bank molder
bank money
bank night
bank note
bank oddman
bank of issue
bank officer
bank on
bank overman
bank paper
bank post bill
bank president
bank ranger
bank rate
bank receipt
bank receiver
bank reference
bank repairer
bank report
bank reserve
bank return
bank robber
bank robbery
bank roll
bank run
bank shot
bank sill
bank smack
bank statement
bank stock
bank superintendent
bank swallow
bank teller
bank tender
bank the fire
bank thistle
bank up
bank upon
bank vole
bank walker
bank water
bank weigher
bank winding
bank woman
bank-and-turn indicator
bank-bill
bank-book
bank-full
banns of matrimony
banquet of the soul
banquette slope
banquette tread
banyan day
banyan tree
banzai attack
banzai charge
baptism for the dead
baptism in the spirit
baptism of fire
baptismal dress
baptismal font
baptismal gown
baptismal name
baptismal regeneration
baptismal robe
bar beat
bar bell
bar billiards
bar bit
bar cent
bar chart
bar chuck
bar code
bar discharger
bar fee
bar fly
bar foot
bar gemel
bar girl
bar gown
bar graph
bar iron
bar joist
bar keel
bar line
bar magnet
bar mitzvah
bar mizvah
bar money
bar movement
bar opal
bar out
bar parlor
bar pin
bar plate
bar point
bar rigging
bar roller
bar screen
bar share
bar shoe
bar shot
bar sight
bar sinister
bar soap
bar spade
bar stall
bar stool
bar tack
bar the gate
bar tin
bar tracery
bar winding
bar-
bar-and-grill
bar-goose
bar-headed goose
bar-share plow
bar-stock lathe
bar-tailed
bar-wound
bara-picklet
barb bolt
barb the dart
barba amarilla
barba amarillas
barbaric splendor
barbary ape
barbecue sauce
barbecued beef
barbecued spareribs
barbed cat
barbed tributary
barbed wire
barbed-wire entanglement
barbed-wire grass
barber bug
barber chair
barber college
barber pole
barber's basin
barber's chair
barber's itch
barber's pole
barber's shop
barber-bug fever
barber-surgeon
barberry family
barberry fig
barberry rust
barbershop chords
barbershop harmony
barbette carriage
barbette gun
barbital sodium
barbiturate addiction
barbiturate pill
barbituric acid
bare as the back of your hand
bare cupboard
bare fact
bare fallow
bare flesh
bare minimum
bare necessities
bare of
bare pole
bare possibility
bare skin
bare subsistence
bare sufficiency
bare suggestion
bare your fangs
bare-ankled
bare-armed
bare-ass
bare-assed
bare-backed
bare-bitten
bare-boned
bare-bosomed
bare-branched
bare-breasted
bare-chested
bare-clawed
bare-faced
bare-fingered
bare-gnawn
bare-handed
bare-headed
bare-kneed
bare-legged
bare-necked
bare-picked
bare-ribbed
bare-skinned
bare-skulled
bare-throated
bare-toed
bare-walled
bare-worn
bareback rider
bareboat charter
bareface tenon
barefaced lie
barefaced tenon
barefoot tea
barely audible
barely have a chance
barely see
barely sufficient
barely touching
bargain and sale
bargain away
bargain basement
bargain counter
bargain day
bargain driver
bargain for
bargain hunter
bargain on
bargain penny
bargain price
bargain prices
bargain sale
bargain table
bargain work
bargain-basement
bargain-counter
bargain-hunting
bargained for
bargaining session
bargaining unit
barge boom
barge canal
barge couple
barge course
barge in
barge into
barge rig
barge spike
barge stone
barge-board
barge-couple
barge-course
barge-laden
barge-rigged
barge-stone
baritone clef
barium bromate
barium carbonate
barium chloride
barium chromate
barium chrome
barium dioxide
barium enema
barium hydrate
barium hydroxide
barium meal
barium monoxide
barium nitrate
barium oxide
barium peroxide
barium protoxide
barium stearate
barium sulfate
barium sulfide
barium sulphate
barium sulphide
barium thiosulfate
barium yellow
bark at
bark at the moon
bark beetle
bark blazer
bark canker
bark chopper
bark cloth
bark conveyer
bark crusher
bark disease
bark dryer
bark extract
bark feeder
bark gouge
bark grafting
bark grinder
bark house
bark liquor
bark louse
bark maple
bark mark
bark mill
bark parenchyma
bark picker
bark pit
bark scaler
bark shredder
bark spud
bark spudder
bark stripper
bark tree
bark up the wrong tree
bark-bared
bark-cutting
bark-formed
bark-galled
bark-galling
bark-grinding
bark-shredding
bark-tanned
barkhausen effect
barking bill
barking deer
barking drum
barking frog
barking iron
barley broth
barley cake
barley candy
barley carrier
barley cleaner
barley clipper
barley coal
barley crusher
barley flour
barley fork
barley grass
barley mill
barley reel
barley scald
barley scourer
barley smut
barley straw
barley stripe
barley sugar
barley water
barley wine
barley-break
barley-bree
barley-broo
barley-cap
barley-clipping
barley-corn
barley-fed
barley-grinding
barley-hood
barley-hulling
barley-sugar
barn cake
barny beer
barn boards
barn dance
barn door
barn door skate
barn fowl
barn gallon
barn grass
barn gun
barn lantern
barn owl
barn raising
barn sash
barn swallow
barn-brack
barn-door
barn-door fowl
barn-door hanger
barn-door roller
barn-door skate
barn-door stay
barn-raising
barnacle goose
barnacle grass
barnacle scale
barnacle-back
barnacle-eater
barney-clapper
barns-breaking
barnyard fowl
barnyard golf
barnyard grass
barnyard millet
baro-
barograph camera
carometer gauge
carometer paper
caromeric error
carometric gradient
caromatic pressure
caromatic switch
caromatic wind rose
car on bailie
car on court
car on et femme
bar on of beef
baroque formalism
baroque formalist
baroque organ
barrack emperors
barrack roof
barracks bag
barracks lawyer
barrage balloon
barrage receiver
barrage reception
barrage rocket
barred owl
barred spiral
barred spiral galaxy
barred spiral nebula
barrel amalgamation
barrel arch
barrel bolt
barrel bulk
barrel cactus
barrel chair
barrel chest
barrel contractor
barrel copper
barrel cuff
barrel distortion
barrel drain
barrel driver
barrel engine
barrel fish
barrel gentian
barrel header
barrel helm
barrel hoop
barrel house
barrel knot
barrel maker
barrel of money
barrel organ
barrel packer
barrel palm
barrel pen
barrel pier
barrel process
barrel quartz
barrel repairer
barrel roll
barrel roof
barrel saw
barrel scale
barrel sewer
barrel shackle
barrel stave
barrel tile
barrel tree
barrel vault
barrel-back chair
barrel-bellied
barrel-boring
barrel-branding
barrel-chested
barrel-driving
barrel-heading
barrel-packing
barrel-roll
barrel-shaped
barrel-vaulted
barren brome grass
barren land
barrier-off
barrette file
barrier beach
barrier berg
barrier cream
barrier gate
barrier ice
barrier of secrecy
barrier pillar
barrier reef
barrier tactics
barrier treaty
barring out
barrio-dwellers
barrister-at-law
base bullion
base burner
base camp
base cinnamon
base circle
base clef
base coin
base component
base course
base current
base depot
base estate
base exchange
base fee
base fuse
base hit
base horehound
base hospital
base knob
base level
base line
base load
base map
base metal
base metals
base net
base of operations
base oil
base on
base on balls
base pay
base period
base piece
base plate
base plug
base point
base price
base rate
base resistance
base right
base ring
base rocker
base rocket
base runner
base running
base salary
base signal current
base signal voltage
base speed
base stone
base tenant
base tree
base vervain
base wage
base wallah
base-ball
base-begged
base-begot
base-born
base-burner
base-court
base-forming
base-level plain
base-mettled
base-minded
base-mindedly
base-mindedness
base-souled
base-spirited
base-spiritedness
base-witted
baseball bat
baseball cap
baseball field
baseball glove
baseball mitt
baseball rounders
baseball season
based on
basedow's disease
basement complex
basement house
basement membrane
bases on balls
bash up
bashi-bazouk
bashi-bazoukery
basi-
basic English
basic airman
basic anhydride
basic conductor physics
basic dichromate
basic dress
basic dye
basic education
basic english
basic facts
basic fuchsin
basic fuchsin
basic iron
basic lead carbonate
basic load
basic magenta
basic plumage
basic process
basic proposition
basic rate
basic salary
basic slag
basic substance weight
basic trainer
basic training
basic wage
basic weight
basic-lined
basil balm
basil mint
basil penny royal
basil thyme
basilar membrane
basilic vein
basin range
basing point
basing tariff
basis bundle
basis for belief
basis rate
basis weight
bask in
bask in the sun
bask in the sunshine
basket ash
basket beagle
basket bearer
basket boat
basket button
basket capital
basket carriage
basket case
basket cells
basket chair
basket clause
basket clerk
basket cloth
basket couching
basket elm
basket fern
basket fish
basket flower
basket grass
basket hare
basket hilt
basket hoop
basket maker
basket mast
basket oak
basket osier
basket palm
basket plant
basket salt
basket star
basket stitch
basket tree
basket weave
basket willow
basket withe
basket-ball
basket-bearing
basket-handle arch
basket-hilted
basket-of-gold
basket-star
basketball court
basketball season
basking shark
bass broom
bass bug
bass clef
bass deafness
bass drum
bass fiber
bass fiddle
bass flute
bass fly
bass guitar
bass hogfish
bass horn
bass killy
bass oboe
bass passage
bass player
bass reflex
bass response
bass saxophone
bass staff
bass sunfish
bass viol
bass violinist
bass-bar
bass-horn
bass-relief
bass-viol
bass-wood
basse danse
basse-taille
basses danses
basset griffon
basset horn
basset hound
basset oboe
basset table
basset-horn
bassi cantanti
bassi profundi
bassi-rilievi
basso buffo
basso cantante
basso continuo
basso da camera
basso ostinato
basso profundo
basso rilievo
basso-relievo
basso-relievos
basso-rilievo
bassra locust
bast cell
bast fiber
bast palm
bast parenchyma
bast ray
bast tree
bast vessel
bastard acacia
bastard agrimony
bastard alkanet
bastard aloe
bastard amber
bastard apple
bastard ash
bastard ashlar
bastard asphodel
bastard baldmoney
bastard balm
bastard bar
bastard blue gum
bastard box
bastard bryony
bastard bullet tree
bastard canna
bastard cedar
bastard cherry
bastard chestnut
bastard chickweed
bastard child
bastard chinaroot
bastard cinnamon
bastard clover
bastard cork tree
bastard cress
bastard culverin
bastard cusk
bastard daisy
bastard dittany
bastard dogwood
bastard dory
bastard eigne
bastard elder
bastard elm
bastard fallow
bastard feverfew
bastard fig
bastard file
bastard gemsbok
bastard gentian
bastard gidgee
bastard goosefoot
bastard grain
bastard granite
bastard gromwell
bastard gunter
bastard halibut
bastard hartebeest
bastard hawkweed
bastard hellbore
bastard hemp
bastard horehound
bastard hyssop
bastard indigo
bastard ipecac
bastard ironwood
bastard jarrah
bastard jasmine
bastard jute
bastard lignum vitae
bastard locust
bastard locust tree
bastard lupine
bastard mahogany
bastard manchineel
bastard margaret
bastard marjoram
bastard measles
bastard mouse-ear
bastard myall
bastard nettle
bastard nightshade
bastard olive
bastard parsley
bastard pellitory
bastard pennyroyal
bastard pimpernel
bastard pine
bastard plantain
bastard plover
bastard pointing
bastard quartz
bastard quince
bastard rhubarb
bastard rocket
bastard rosewood
bastard saffron
bastard sago palm
bastard sandalwood
bastard schooner
bastard sea grape
bastard senna
bastard sensitive plant
bastard service tree
bastard snapper
bastard speedwell
bastard spikenard
bastard spruce
bastard strangles
bastard sugar
bastard sycamore
bastard tamarind
bastard teak
bastard thread
bastard title
bastard toadflax
bastard tree
bastard trefoil
bastard trout
bastard trumpeter
bastard tuck pointing
bastard turtle
bastard type
bastard vervain
bastard vetchling
bastard weakfish
bastard windflower
bastard wing
bastard wormwood
bastard yellowlegs
bastard yellowwood
bastard-cut
bastard-saw
bastard-sawed
bastard-sawing
bastard-sawn
bastel house
bastel-house
bastille day
bastille house
bat about
bat around
bat bolt
bat bomb
bat boy
bat dance
bat ear
bat in
bat mitzvah
bat money
bat of an eye
bat out
bat out of hell
bat printing
bat ray
bat stingray
bat the breeze
bat the eyes
bat the eyes at
bat tick
bat tree
bat-eared
bat-fowl
bat-minded
bat-mindedness
bat-mule
batch loaf
batch processing
batch together
batcher plant
bateau bridge
bateau neck
bateau neckline
bated breath
bateleur eagle
batement light
bath asparagus
bath brick
bath brush
bath bun
bath cabinet
bath chair
bath cube
bath mat
bath mitzvah
bath salts
bath slipper
bath soap
bath sponge
bath towel
bath-
bath-loving
bathe with light
bathed in sweat
bathed in tears
bathed with light
bathing beach
bathing beauty
bathing belle
bathing cap
bathing costume
bathing girl
bathing gown
bathing hut
bathing machine
bathing place
bathing sandal
bathing shoe
bathing suit
bathing trunks
bathing-machine
batho-
bathroom tissue
bathtub gin
bathy-
bathyal zone
batiator root
batracho-
bats in one's belfry
bats in the belfry
bats-in-the-belfry
batswing burner
batswing coral
battalia pie
batten door
batten down
batten down the hatches
batten ends
batten on
batten plate
batten pocket
batten upon
batter board
batter brace
batter bread
batter pile
batter post
batter pudding
batter rule
batter stick
batter-out
battered baby
battered child syndrome
battering ram
battering train
battering-ram
battery acid
battery cable
battery case
battery cell
battery charger
battery chart
battery eliminator
battery jar
battery lamp
battery maker
battery mud
battery radio
battery supply voltage
battery tester
battery wagon
battery water
battery-charging
battery-powered
battery-testing
batting average
batting block
batting eye
batting hammer
batting order
battle array
battle brand
battle call
battle clasp
battle club
battle cruiser
battle cry
battle din
battle fatigue
battle flag
battle fleet
battle front
battle gaff
battle game
battle group
battle horn
battle hymn
battle it out
battle jacket
battle lantern
battle line
battle piece
battle place
battle plane
battle police
battle position
battle quoit
battle range
battle royal
battle shield
battle shout
battle sight
battle site
battle smoke
battle song
battle star
battle station
battle twig
battle wagon
battle word
battle-ax
battle-axe
battle-fallen
battle-scarred
battle-slain
battle-spent
battle-writhen
battled embattled
battledore and shuttlecock
battleship gray
batule board
batwing burner
batwing chair
batwing sleeve
baulk line
baum marten
bauple nut
bauson-faced
bawdy house
bawl out
bawling-out
bawsay fern
bay antler
bay at the moon
bay bar
bay bean
bay bird
bay camphor
bay cat
bay cedar
bay coot
bay floe
bay goose
bay grass
bay holly
bay hops
bay ice
bay lambs
bay laurel
bay lavender
bay leaf
bay lynx
bay mackerel
bay mahogany
bay mare
bay myrtle
bay oak
bay oil
bay plum
bay point
bay poplar
bay rum
bay rum tree
bay salt
bay snipe
bay stall
bay stater
bay stone
bay tree
bay willow
bay winders
bay window
bay yarn
bay-bay
bay-breasted
bay-cedar family
bay-colored
bay-head bar
bay-leaf willow
bay-rum tree
bay-salt
bay-top palmetto
bay-window
bay-winged
bayacura root
bayamo winds
bayberry bark
bayberry candle
bayberry family
bayberry oil
bayberry wax
bayeux tapestry
bayonet base
bayonet clasp
bayonet joint
bayonet leg
bayonet legs
bayonet plant
bayonet socket
bayou bass
bayou lake
bazooka rocket
bc soil
bcg vaccine
bechamel sauce
bd ft
be Greek to
be OK
be a bargain
be a bear for
be a cold fish
be a coward
be a dark horse
be a deal
be a deputy
be a dupe
be a fast study
be a father to
be a feature of
be a flop
be a gas
be a gasbag
be a gasser
be a go
be a good investment
be a good sport
be a good trencherman
be a graphic artist
be a hit
be a law to
be a law unto yourself
be a logical impossibility
be a man
be a man of heart
be a man of sentiment
be a member
be a mother to
be a must for
be a paradox
be a parasite
be a party to
be a patsy
be a pawn of
be a plaything of
be a prey to anxiety
be a prey to your feelings
be a printmaker
be a quality of
be a reproach to
be a sideliner
be a sign of
be a slow study
be a spectator
be a stretch of the imagination
be a success
be a sucker
be a thing of the past
be a timeserver
be a trait of
be a waste of time
be a windbag
be a yes man
be able
be about
be about to
be about to be borning
be above
be absent
be absentminded
be absorbed in
be abstracted
be accepted
be accepted for
be accountable for
be accurate
be acquainted with
be active
be added
be admitted
be admitted to the bar
be advised by
be affected
be affected with
be afraid
be after
be against
be agin
be agitated
be agreeable
be agreeable to
be ahead
be ahead of time
be airborne
be alert
be alive
be alive with
be all ears
be all eyes
be all heart
be all one to
be all over
be all over with
be all thumbs
be all up with
be allowed
be along
be amazed
be ambitious
be an
be an accessory to
be an easy mark
be an icicle
be an imperative for
be an impossibility
be an incubus to
be an indication of
be angry
be animate
be annihilated
be answerable for
be antipathetic
be apodictic
be apparent
be appreciative of
be apprised
be apprised of
be aromatic
be around
be arrogant
be as expected
be as good as
be as good as your word
be as one looked for
be as one thought
be ashamed
be asleep at the switch
be asleep with the Lord
be astonished
be astounded
be at
be at a standstill
be at cross-purposes
be at ease
be at fault
be at home
be at home in
be at home to
be at one with
be at peace among yourselves
be at sea
be at the bottom of
be at the conn
be at the controls
be at the head of
be at the helm
be at the mercy of
be at the rudder
be at the tiller
be at the wheel
be at variance
be at work on
be at your service
be at your wit's end
be attractive
be aware of
be axiomatic
be based on
be before
be beforehand
be begotten
be behind
be behindhand
be believed
be benevolent
be benighted
be bereaved of
be bereft of
be beside yourself
be betimes
be beyond one
be big
be blessed-eventing
be blind
be blind to
be blinded by your own glory
be blooded
be bombastic
be born
be born for
be born out of wedlock
be born so
be born to trouble
be born under an evil star
be born unto trouble
be bound
be bound to pay
be bounded by
be brewing
be brief
be bright
be brilliant
be broad-minded
be brought down
be built that way
be buoyed up
be burnt into your memory
be busy
be called
be capricious
be careful
be caught napping
be caught out
be caught short
be caught with your pants down
be cautious
be certain
be champing at the bit
be changed
be characteristic
be cheap
be cheek by jowl with
be cheerful
be chopfallen
be clear
be clobbered
be close friends with
be closeted with
be coerced
be coextensive with
be cognizant of
be cold
be cold as ice
be comfortable
be comforted
be commensurable
be comparable
be compelled
be comprised in
be concave
be conceived
be concerned
be concise
be conditional on
be confident
be confined
be conscious of
be conservative
be considerate
be consistent
be conspicuous
be constituted by
be construed as
be consumed
be consumed with desire
be contained in
be contemptuous of
be content
be content with
be contiguous
be contingent
be contingent on
be continuous
be contrary to
be conversant with
be converted
be converted into
be convicted
be convinced
be convincing
be convulsed with laughter
be correct
be courteous
be covetous of
be credulous
be crestfallen
be crowned with success
be cruel to be kind
be crushed
be curious
be damaged
be damned
be damp
be dark
be dated
be dead
be dead and gone
be deaf
be death on
be deceived
be defeated
be demonstrable
be dependent on
be deserving
be desirous of
be despaired of
be desperately in love
be despondent
be destined
be destined for one
be destined for you
be destroyed
be determined
be diagnostic of
be difficult
be diffident
be dilatory
be disagreeable
be disappointed
be disappointing
be discovered
be discriminating
be disenchanted
be disgraced
be dishonest
be disillusioned
be disorderly
be disposed to
be disrespectful
be dissonant
be distant
be distasteful
be distinct
be distinguished
be doing
be done for
be doomed
be doubly punished
be doubtful
be down on
be downbeat
be dressed in
be driven
be driven into a corner
be drunk
be dry
be dubious
be due
be due to
be dumb with grief
be dying for
be dying to
be eager
be eager about
be earless
be earlier
be early
be easy
be easy in your mind about
be easy of belief
be easy of persuasion
be easy on
be easy to recall
be easy with
be eaten away
be eating someone
be effective
be effortless
be elastic
be eloquent
be embarrassed
be employed
be employed in
be energetic
be enfeoffed of
be enfranchised
be engaged
be engaged in
be engrossed in
be enthusiastic
be entitled to
be envious of
be equal to
be eradicated
be erect
be ever the same
be evident
be excitable
be excited
be expectant
be expected
be expecting
be expedient
be experienced
be expert
be expert at
be expert in
be exposed
be exposed to
be extant
be extirpated
be eyeball to eyeball
be fair
be faithful to
be false
be famous
be far from your thoughts
be fashionable
be fastidious
be fat
be fated
be featured
be fed up
be feeling no pain
be felled
be financially committed
be firm
be fit to be compared
be fitted
be fitting
be fond of
be foolish
be for it
be forced
be forgetful
be forgotten
be formed
be fortunate
be found
be found guilty
be found wanting
be fragrant
be frank
be free
be frequent
be fresh in your memory
be friends
be frightened
be fruitful
be full of beans
be full of emotion
be full of ginger
be full of pep
be full of piss and vinegar
be full of zip
be gainful
be game
be garrulous
be gathered to your fathers
be generous
be generous with
be getting along
be given a jar
be given a jolt
be given a start
be given a turn
be glimpsed
be gone
be good
be good enough
be good for
be good to
be grateful
be gravid
be great with child
be green
be green in your memory
be guided by
be guilty
be had
be half-blind
be hand in glove with
be handy
be hanged
be hard on
be hard put
be hard to believe
be hard to please
be hard up
be harmonious
be heading for a fall
be healthy
be heard
be heavy
be heavy on one
be heavy on you
be heavy upon
be hell on
be hep to
be here again
be high
be holier than the Pope
be honest
be hopeful
be hopeless
be hostile
be hostile to
be hot
be humiliated
be hurting for
be hypocritical
be idle
be ignorant
be ill-humored
be illegitimate
be imbued with the spirit of
be imminent
be impatient
be imperfect
be imperturbable
be implicated in
be important
be impossible
be impotent
be impressed with yourself
be imprisoned
be improbable
be in
be in a brown study
be in a certain state
be in a dilemma
be in a hurry
be in a quandary
be in a rut
be in a speech situation
be in a state
be in accord with
be in action
be in bloom
be in cahoots
be in cahoots with
be in commission
be in concert
be in connection
be in contact
be in danger
be in desperate case
be in dissent
be in earnest
be in effect
be in error
be in existence
be in favor of
be in flower
be in for
be in for it
be in force
be in front
be in harmony with
be in heat
be in heaven
be in hopes
be in intercourse
be in it
be in league
be in line for
be in love with
be in luck
be in mortal dread of
be in need of
be in no hurry
be in office
be in on the decisions
be in operation
be in opposition to
be in paradise
be in peril
be in phase
be in process
be in progress
be in receipt of
be in rut
be in service with
be in seventh heaven
be in stitches
be in store
be in suspense
be in the best of health
be in the books
be in the cards
be in the dark
be in the debt of
be in the driver's seat
be in the family way
be in the fire
be in the future
be in the hopper
be in the neighborhood of
be in the pink
be in the pipeline
be in the prime of life
be in the running
be in the saddle
be in the van
be in the vanguard
be in the vicinity of
be in the way of
be in the works
be in the wrong
be in time
be in touch
be in tune
be in tune with
be in want
be in your dotage
be in your estimation
be in your mind
be in your second childhood
be in your thoughts
be inattentive
be incarnated
be inclined to think
be incognito
be incomunicado
be incomplete
be incomprehensible
be incredible
be incredulous
be incumbent on
be incumbent upon
be incurious
be indebted
be independent
be indicated
be indicative of
be indifferent
be indifferent to
be indiscreet
be industrious
be ineffective
be infanticipating
be inferior
be infinite
be infinitely repetitive
be influential
be informed
be inharmonious
be inhospitable
be inimical
be innocent of
be innocent of forethought
be inquisitive
be insane
be inscribed
be inseparable
be insolent
be inspired
be instated
be instrumental
be insufficient
be intelligent
be intelligible
be intemperate
be intimate
be into
be intoxicated
be invisible
be involved
be irrefutable
be irreligious
be irresolute
be it so
be jealous
be jealous of your good name
be jealous of your repute
be jobber for
be joined
be judged
be judgmental
be judicious
be just
be just like one
be just like you
be just right
be just the thing
be just the ticket
be just what the doctor ordered
be keen
be kept waiting
be killed
be kind
be knocked up
be known as
be known by
be lacking
be laid by the heels
be last off the mark
be late
be late off the mark
be latent
be lawless
be learned
be learned in
be led to believe
be left
be left at the post
be left at the starting gate
be left behind
be left over
be lengthy
be lenient
be let down
be liable
be liable for
be liberal with
be light
be like
be likely
be limited by
be listened to
be livid
be loaded
be located
be logical
be long
be long in the tooth
be long of the market
be loquacious
be lost
be lost in thought
be loving
be low
be lucky
be made one
be made public
be magnetic
be manifest
be master
be master of
be master of the situation
be meaningless
be merry with
be met with
be misguided
be misled
be missed
be mistaken
be moderate
be modest
be more than a match for
be moved
be mute
be nailed to the cross
be nauseated
be near
be near the truth
be necessary
be neglectful
be negligent
be nervous
be neutral
be nice
be nice to
be no more
be no revelation
be no secret
be nobody's fool
be noisy
be not all there
be not your day
be noticeable
be numerous
be nuts about
be obligated
be obligated for
be obliged
be obliged for
be observant
be obsessed with
be obstinate
be occupied with
be of advantage to
be of another mind
be of favorable disposition
be of good cheer
be of good hope
be of like mind
be of no importance
be of one
be of one mind
be of one mind with
be of service
be of service to
be of some help
be of the opinion
be of the same
be of the same order
be of two minds
be of use
be off
be off and running
be off the track
be off your guard
be on
be on a collision course
be on a collision course with
be on an ego trip
be on cloud nine
be on deck
be on everyone's lips
be on good terms
be on hand
be on her beam ends
be on pins and needles
be on pleasure bent
be on the
be on the alert
be on the anvil
be on the back of
be on the ball
be on the fence
be on the lookout
be on the lookout for
be on the point of
be on the right scent
be on the rolls
be on the safe side
be on the same wavelength
be on the skids
be on the spot
be on the watch
be on the watch for
be on to
be on your best behavior
be on your feet
be on your good behavior
be on your guard
be on your last legs
be on your mettle
be on your mind
be on your uppers
be on your way
be one all over
be open to
be operative
be opposed to
be opposite
be optimistic
be ordained
be ostentatious
be otherwise occupied
be out for blood
be out of all patience
be out of it
be out of line
be out of step
be out of the running
be out of the woods
be out of your depth
be out of your mind
be outdistanced
be outrun
be over
be overdue
be overfamiliar with
be overpossessive
be overpriced
be pacifistic
be paid
be painless
be painstaking
be parallel
be paralyzed with fear
be parsimonious
be partial to
be partners in
be past
be patient
be pensioned
be pensioned off
be permissive
be permitted
be persuaded
be persuasive
be pessimistic
be pinched
be pious
be pissed
be plain
be pleased
be pleased with
be pliant
be poised
be poleaxed
be poor
be possessed of
be possessed of the devil
be possessive
be possible
be practical
be precise
be predicated on
be predisposed
be pregnant
be prejudiced
be preoccupied
be prepared
be present
be present at
be present in
be printed
be prior
be probable
be prodigal with
be productive
be profitable
be prolonged
be prominent
be promiscuous
be promising
be proof against
be prosperous
be proud
be proud of
be proved
be pungent
be punished
be pushed to the wall
be put out of countenance
be put out to pasture
be put to the blush
be put to your wit's end
be putty in the hands of
be qualified
be quiet
be quits
be quits with
be rash
be ravenous
be ready
be ready and waiting
be ready for
be realized
be reasonable
be received
be reckless
be recognized
be reconciled to
be redolent of
be reflected
be regarded
be regarded as
be regulated by
be relaxed
be relieved
be relieved of choice
be religious
be remembered
be reminiscent of
be remunerated
be renewed
be repeated
be resentful
be resolute
be resolved
be responsible
be responsible for
be revealed
be rich
be right
be rightly served
be robbed of choice
be ruined
be safe
be salaried
be sanctimonious
be satisfactory
be satisfied
be seasick
be seated
be secluded
be secure in the belief
be security for
be seen
be seen in its true colors
be seen no more
be seen with half an eye
be seized by
be seized of
be seized with wonder
be self-consistent
be selfish
be sensible of
be sent back
be separated
be servile
be set by the current
be shamed
be sharp
be short
be short of the market
be sick
be significant of
be silent
be single
be situated
be skeptical
be skillful
be slow off the mark
be slow to accept
be slow to believe
be smitten
be so
be so good as to
be so in fact
be sociable
be sold
be somebody
be something
be somewhere else
be sorry for
be sought after
be spared
be spent
be sphinxlike
be spliced
be spoiling for
be sponsor for
be staggered
be stamped on your memory
be startled
be still
be stingy
be stood up
be straight
be straight man for
be strapped
be stricken
be stricken by
be strict
be stricken drunk
be strong
be strong in
be struck down
be stuck on yourself
be stuck-up
be stupid
be subject to
be subjected to
be successful
be such
be suicidal
be superannuated
be superseded
be superstitious
be surprised
be swallowed
be sweet on
be swept off your feet
be symptomatic of
be tactful
be taken aback
be taken as
be taken by death
be taken by surprise
be taken in
be taken unawares
be tasteful
be taught
be taught a lesson
be tedious
be telegraphic
be temperate
be thankful
be that as it may
be the bellwether
be the case
be the cause of
be the death of
be the death of one
be the death of you
be the decisive factor
be the duty of
be the effect of
be the equivalent of
be the fashion
be the front-runner
be the goat
be the incumbent
be the making of
be the mark of
be the matter
be the omen of
be the one that counts
be the patsy
be the plaything of
be the prey of
be the puppet of
be the rage
be the rule
be the saving of
be the sign of
be the soul of discretion
be the sport of
be the sport of winds and waves
be the style
be the thing
be the very image of
be the worse for
be the worse for wear
be theatrical
be there
be there for all to see
be thorough
be thoroughly grounded in
be thought of
be thoughtful of
be threatened
be thrilled
be thus
be timely
be tired
be to be
be to come
be to windward of
be to your liking
be told
be too deep
be too deep for
be too good for
be too much for
be touch and go
be touched
be tough
be transient
be transparent
be traumatized
be true
be truthful
be turbulent
be turned off by
be turned on by
be turned on to
be ugly
be unable to comprehend
be unable to get into your head
be unable to recall
be unable to recollect
be unable to retain
be unable to see
be unastonished
be unbelievable
be uncertain
be unchaste
be uncommunicative
be uncritical
be under an obligation
be under the impression
be under the necessity of
be under the sea
be under way
be understandable
be understood
be undesirable
be undiscriminating
be unexpected
be unfaithful
be unflappable
be ungrateful
be unguarded
be uniform with
be unimportant
be unintelligent
be uninteresting
be uninteresting
be unjust
be unmarried
be unmindful of
be unmoved
be unorthodox
be unpleasant
be unproductive
be unready
be unregretful
be unseen
be unselfish
be unsociable
be unsuccessful
be unsure
be untruthful
be unwary
be unwilling
be up against it
be up and doing
be up and stirring
be up on
be up to
be up to something
be upbeat
be uppermost in the mind
be uppermost in your thoughts
be used to
be used up
be vain
be vain as a peacock
be victorious
be vigilant
be vigorous
be virtuous
be visible
be vital
be wafted
be warm
be watchful
be weak
be wedded to a belief
be well-informed
be wholesaler for
be widely reputed
be willing
be wiped out
be wise as a serpent
be wise as an owl
be wise to
be with child
be with it
be with one
be with young
be without end
be wont
be worth your while
be worthwhile
be worthy of
be worthy of comparison
be wreathed in smiles
be wrong
be your charge
be your due
be your fate
be your funeral
be your mission
be your office
be your outlook
be your own boss
be your own man
be your probable destiny
be your probable fate
be your prospect
be your responsibility
be yourself
be yourself again
be-
be-all
be-all and end-all
be-east
be-smut
be-smutch
beach apple
beach aster
beach bag
beach ball
beach bird
beach boat
beach buggy
beach bum
beach clam
beach crab
beach cusp
beach drifting
beach flea
beach goldenrod
beach grass
beach heather
beach pea
beach plant
beach plover
beach plum
beach ridge
beach robin
beach strawberry
beach tan
beach umbrella
beach wagon
beach wormwood
beach-la-mar
beach-sap
beaching gear
beacon boat
beacon fire
beacon lights
beacon station
bead and reel
bead edging
bead furnace
bead lightning
bead molding
bead plane
bead plant
bead slick
bead snake
bead tree
bead-eyed
bead-hook
bead-like
bead-roll
bead-rubies
bead-ruby
bead-shaped
beaded brow
beaded lizard
beaded with sweat
beaded-edge
beading plane
beading tool  
beads of sweat  
beady-eyed  
beak flute  
beak molding  
beak rush  
beak sedge  
beak wattles  
beak willow  
beak-bearing  
beak-head  
beak-iron  
beak-like  
beak-nosed  
beak-shaped  
beaked salmon  
beaked whale  
beaker culture  
beaker folk  
beakhorn stake  
beaking joint  
beam aerial  
beam anchor  
beam antenna  
beam arm  
beam board  
beam brick  
beam bridge  
beam caliper  
beam center  
beam clamp  
beam compass  
beam engine  
beam fill  
beam filling  
beam hole  
beam knee  
beam knife  
beam light  
beam maker  
beam mill  
beam net  
beam of light  
beam plate  
beam pump  
beam reach  
beam riding  
beam roll
beam sea
beam tetrode
beam texture
beam transmission
beam trawl
beam trawler
beam trawling
beam tree
beam well
beam wind
beam-bending
beam-end
beam-ends
beam-power tube
beam-straightening
beam-switching tube
beam-tree
beaming knife
beaming machine
bean anthracnose
bean aphid
bean aphis
bean ball
bean beetle
bean blight
bean blower
bean cake
bean caper
bean clover
bean crake
bean curd
bean cutworm
bean dolphin
bean flour
bean goose
bean harvester
bean hole
bean honey
bean house
bean king
bean ladybird
bean leaf beetle
bean leaf roller
bean louse
bean mildew
bean mosaic
bean oil
bean picker
bean planter
bean pole
bean polisher
bean pot
bean rick
bean rust
bean shot
bean sprout
bean sprouts
bean thresher
bean tree
bean trefoil
bean tressel
bean vine
bean weevil
bean-bag
bean-caper family
bean-cleaning
bean-crushing
bean-feast
bean-fed
bean-planting
bean-pod borer
bean-polishing
bean-shaped
bear a child
bear a grudge
bear a hand
bear a helping hand
bear account
bear against
bear animalcule
bear arms
bear away
bear brush
bear bush
bear cap
bear cat
bear caterpillar
bear clover
bear corn
bear cub
bear date
bear down
bear down on
bear down on it
bear down upon
bear false witness
bear festival
bear for
bear fruit
bear garden
bear good will
bear grape
bear grass
bear hard upon
bear huckleberry
bear hug
bear ill will
bear in mind
bear in with
bear leader
bear malice
bear market
bear mat
bear more than your share
bear moss
bear no resemblance
bear no resemblance to
bear oak
bear off
bear off the land
bear on
bear out
bear pack
bear panic
bear pig
bear pit
bear plum
bear pool
bear raid
bear reign
bear resemblance
bear sail
bear skeiters
bear the brunt
bear the cost
bear the expense
bear the market
bear the name of
bear the palm
bear to leeward
bear to port
bear to starboard
bear to windward
bear trap
bear up
bear up against
bear up for
bear up to
bear up under
bear upon
bear warden
bear whortleberry
bear with
bear with composure
bear witness
bear witness against
bear you company
bear young
bear your cross
bear yourself
bear yourself with credit
bear's-breech
bear's-ear
bear's-foot
bear's-foots
bear's-paw
bear-baiting
bear-lead
bear-leader
bear-trap dam
bear-tree
beard grass
beard lichen
beard moss
beard plant
beard the lion in his den
beard tree
bearded darnel
bearded lizard
bearded tit
bearded vulture
bearding line
bearding machine
bearer bar
bearer bond
bearer certificate
bearer of glad tidings
bearer plate
bearer security
bearer-off
bearing arms
bearing arrow
bearing bar
bearing block
bearing bow
bearing brass
bearing bronze
bearing cloth
bearing door
bearing gear
bearing in mind
bearing metal
bearing neck
bearing note
bearing out
bearing pile
bearing plate
bearing rail
bearing rein
bearing ring
bearing robe
bearing steel
bearing sword
bearing timber
bearing wall
bearish market
bearish prices
bearnaise sauce
bearskin gray
bearskin jobber
bearskin rug
beast epic
beast fable
beast fly
beast god
beast of burden
beast of prey
beast tale
beasts of field
beasts of prey
beasts of venery
beat a dead horse
beat a devil's tattoo
beat a retreat
beat a ruffle
beat a tattoo
beat about
beat about for
beat about the bush
beat against
beat all hollow
beat an alarm
beat around
beat around the bush
beat back
beat black and blue
beat block
beat board
beat by a nose
beat down
beat generation
beat hollow
beat into
beat into your head
beat it
beat man
beat note
beat off
beat one
beat out
beat pin
beat poet
beat reception
beat signal
beat the Dutch
beat the air
beat the bounds
beat the bushes
beat the drum
beat the drum for
beat the drums
beat the game
beat the gums
beat the rap
beat the shit out of
beat the system
beat the tar out of
beat time
beat to a jelly
beat to the draw
beat to windward
beat tone
beat up
beat up against
beat your brains
beat your brains out
beat your breast
beat your gums
beat your swords into plowshares
beat your way
beat-beat
beat-frequency oscillator
beat-up
beaten biscuit
beaten egg
beaten path
beaten proof
beaten track
beaten up
beaten work
beater press
beater-out
beater-up
beaters-up
beatific vision
beatified soul
beating heart
beating machine
beating orders
beating reed
beating-up
beatrix antelope
beau brummell
beau garcon
beau geste
beau ideal
beau ideals
beau monde
beau sabreur
beau-ideal
beau-idealize
beau-monde
beau-pleader
beau-pot
beaufort scale
beaumont root
beaus ideal
beautiful friendship
beautiful man
beautiful people
beautiful person
beautiful thing
beautiful woman
beauty bush
beauty contest
beauty contest winner
beauty culture
beauty culturist
beauty of holiness
beauty parlor
beauty pin
beauty plaster
beauty queen
beauty salon
beauty shop
beauty sleep
beauty spot
beauty treatment
beauty unadorned
beauty wash
beauty-beaming
beauty-berry
beauty-blind
beauty-blooming
beauty-blushing
beauty-breathing
beauty-bright
beauty-bush
beauty-clad
beauty-fruit
beauty-loving
beauty-parlor chitchat
beauty-proof
beauty-waning
beaux arts
beaux esprits
beaux gestes
beaux ideal
beaux yeux
beaux-arts
beaux-esprits
beaver board
beaver brown
beaver cloth
beaver dam
beaver eater
beaver finish
beaver lily
beaver poison
beaver rat
beaver stones
beaver top
beaver tree
beaver-tree
beavertail beam
beavertail reflector
beazor nuts
beer et ongles
because of
because of that
because of this
bechamel sauce
beche-de-mer
beche-le-mar
beck and call
becket bend
becking hammerman
beckoning crab
become a habit
become a member
become acquainted with
become adept in
become airborne
become alive to
become an appendage of
become an individual
become angry
become attached to
become awake to
become aware of
become bankrupt
become bound to
become conscious of
become conversant with
become defunct
become disordered
become enamored
become engaged
become excited
become exhausted
become extinct
become familiar with
become fashionable
become fixed
become higher
become informed
become insolvent
become known
become larger
become lost to sight
become manifest
become nervous
become obsolete
become of
become old
become one
become overweight
become popular
become public
become pulverized
become red
become shallow
become sick
become sponsor for
become suicidal
become the rage
become unintoxicated
become versed in
become visible
become void
become weak
become well-versed in
becquerel ray
becuiba fat
bed ale
bed and board
bed and breakfast
bed bolt
bed chair
bed check
bed curtain
bed down
bed fuel
bed head
bed hinge
bed in
bed jacket
bed joint
bed lamp
bed lathe
bed light
bed linen
bed maker
bed mold
bed molding
bed moulding
bed of Procrustes
bed of roses
bed on
bed pad
closeup
bed piece
bed place
bed plane
bed reach
bed rest
bed rot
closeup
bed sandwort
bed sheet
bed shoes
bed slat
bed sore
bed steps
bed stone
bed tea
bed timber
bed tray
bed vein
bed wagon
bed warmer
closeup
bed-clothes
bed-davenport
bed-fere
bed-head
bed-maker
bed-sitter
bed-sitting room
bed-sitting-room
closeup
bed-wetting
bedbug hunter
closeup
bedda nut
bedding block
bedding course
bedding fault
bedding plane
bedding plant
closeup
beddy-bye
bedford cord
bedlam beggar
closeup
bedlam cowslip
bedlington terrier
bedridden invalid
closeup
bedrock valley
bedroom eyes
bedroom slipper
bedroom suburb
bedside manner
bedsitting room
bedspring type
bedstead fitter
bedstead wrench
bedstraw bellflower
bedtime prayer
bedtime story
bee balm
bee beetle
bee bird
bee block
bee brush
bee candy
bee cellar
bee culture
bee eater
bee escape
bee feed
bee fly
bee glue
bee gum
bee hawk
bee in the bonnet
bee in the head
bee in your bonnet
bee killer
bee kite
bee larkspur
bee laurel
bee louse
bee martin
bee milk
bee moth
bee nettle
bee orchid
bee orchis
bee plant
bee sage
bee scap
bee smoker
bee space
bee tree
bee wine
bee wolf
bee's knees
bee-butt
bee-eater
bee-headed
bee-loud
beech agaric  
beech cherry  
beech coal  
beech family  
beech fern  
beech leaf snake  
beech marten  
beech mast  
beech oil  
beech tree  
beech wheat  
beech-green  
beech-seedling mildew  
beechnut oil  
beechwood creosote  
beef Bourguignon  
beef Bourguignonne  
beef Wellington  
beef apple  
beef bouillon  
beef bread  
beef cattle  
beef dodger  
beef extract  
beef ham  
beef juice  
beef marrow  
beef road  
beef stearin  
beef stroganoff  
beef tallow  
beef tea  
beef up  
beef's blood  
beef-brained  
beef-eating  
beef-faced  
beef-steak  
beef-suet tree  
beef-witted  
beef-wittedly  
beef-wittedness  
beef-wood  
beefed-up  
beefing-up  
beefsteak begonia  
beefsteak fungus  
beefsteak geranium
beefsteak plant  
beefsteak saxifrage  
beefwood family  
beehive coke  
beehive house  
beehive kiln  
beehive oven  
beehive shelf  
beehive tomb  
beehive-shaped  
beena marriage  
beer and skittles  
beer barrel  
beer bottle  
beer bottler  
beer brewer  
beer cellar  
beer chiller  
beer drinker  
beer engine  
beer fall  
beer gallon  
beer garden  
beer glass  
beer grains  
beer hall  
beer heart  
beer keg  
beer maker  
beer money  
beer mug  
beer parlor  
beer pump  
beer scale  
beer stone  
beer vat  
beer vinegar  
beer yeast  
beer-up  
bees and honey  
bees-wax  
beeswax flint  
beet army worm  
beet blight  
beet blocker  
beet greens  
beet harvester  
beet heart rot
beet leafhopper
beet lifter
beet puller
beet root
beet rot
beet scab
beet sugar
beet webworm
beet-red
beetle brow
beetle over
beetle-browed
beetle-crusher
beetle-green
beetle-headed
beetling machine
befit the occasion
befit the season
befit the time
before Christ
before all
before an audience
before everything
before its time
before long
before noon
before now
before one
before the Christian Era
before the Common Era
before the Fall
before the Flood
before the bar
before the bench
before the court
before the fact
before the footlights
before the house
before the judge
before the mast
before the war
before the wind
before your eyes
before your face
before your time
before your very eyes
before-cited
before-created
before-delivered
before-going
before-known
before-mentioned
before-named
before-noticed
before-recited
before-said
before-tasted
before-thought
before-told
before-warned
before-written
beg a truce
beg for mercy
beg for your life
beg forgiveness
beg indulgence
beg leave
beg leave to doubt
beg off
beg pardon
beg the ear of
beg the question
beg to differ
beg, borrow, or steal
beggar boy
beggar brushes
beggar description
beggar girl
beggar maid
beggar's chicken
beggar's-lace
beggar's-tick
beggar's-ticks
beggar-lace
beggar-my-neighbor
beggar-my-neighbour
beggar-patched
beggar-tick
beggar-ticks
beggarly fellow
begging hermit
begging hermits
begging the question
begin again
begin to
beginner's luck
beginning and end
beginning of the end
begonia family
begonia rose
beguile of
beguile out of
beguile the time
behave ill
behave self-destructively
behave toward
behave yourself
behavior modification
behavior pattern
behavior psychology
behavior therapist
behavior therapy
behavioral norm
behavioral science
behavioral scientist
behavioristic psychology
behaviour therapy
behavioural science
behen oil
behenic acid
behenolic acid
behind bars
behind closed doors
behind the curtain
behind the eight ball
behind the eightball
behind the scenes
behind the times
behind the veil
behind the veil of secrecy
behind time
behind your back
behind your defenses
behind-the-scenes influence
behind-the-scenes operator
behind-the-scenes pressure
beholden to
beignet aux pommes
being ahead
being alive
being as how
being at rest
being brought to bed
being done
being here
being there
being uninteresting
bel canto
bel esprit
bel-accoil
bel-esprit
belay that
belay there
belaying cleat
belaying pin
belgian hare
belie-ve
believe anything
believe at the drop of a hat
believe in
believe without reservation
belittle yourself
bell animalcule
bell arch
bell beaker
bell book
bell borer
bell buoy
bell button
bell cage
bell canopy
bell captain
bell caster
bell casting
bell chasuble
bell chime
bell chuck
bell cord
bell cot
bell cote
bell cow
bell crank
bell crater
bell deck
bell founder
bell founding
bell frog
bell gable
bell gamba
bell glass
bell harp
bell heather
bell horse
bell jar
bell kite
bell ling
bell loft
bell magpie
bell maker
bell mare
bell metal
bell moth
bell olive tree
bell pepper
bell polyp
bell pull
bell punch
bell push
bell ringer
bell ringing
bell rope
bell salt
bell scraper
bell screw
bell seat
bell sheep
bell tent
bell the cat
bell thistle
bell toad
bell tower
bell transformer
bell trap
bell tree
bell vine
bell whistle
bell wire
bell-alarm switch
bell-bearer
bell-bird
bell-bottom
bell-bottomed
bell-bottoms
bell-cranked
bell-crowned
bell-faced
bell-flower
bell-flowered
bell-hanger's bit
bell-hooded
bell-house
bell-less
bell-like
bell-magpie
bell-metal
bell-metal ore
bell-mouthed
bell-nosed
bell-ringer
bell-shaped
bell-tongue
bell-up
bell-wether
belladonna lily
belladonna ointment
belle epoque
belle poque
belle tournure
belles lettres
belles-lettres
bellflower family
belli causa
bellow like a bull
bellow out
bellows blower
bellows boy
bellows engine
bellows fish
bellows maker
bellows mender
bellows pneumatic
bellows treader
bells of Ireland
belly ache
belly board
belly brace
belly buster
belly button
belly dance
belly dancer
belly dancing
belly doublet
belly flop
belly flopper
belly friend
belly gunner
belly guy
belly landing
belly laugh
belly offal
belly out
belly rail
belly roll
belly stay
belly tank
belly truss
belly whop
belly whopper
belly worshiper
belly-band
belly-beaten
belly-blind
belly-bound
belly-bumper
belly-cheer
belly-devout
belly-fed
belly-flop
belly-flopped
belly-flopping
belly-ful
belly-god
belly-gulled
belly-gun
belly-helve
belly-laden
belly-land
belly-landing
belly-naked
belly-piece
belly-pinched
belly-proud
belly-sprung
belly-timber
belly-wash
belly-whop
belly-whopped
belly-whopping
belly-worshiping
belong to
belong to by nature
belong to the past
beloved object
below contempt
below deck
below par
below stairs
below standard
below the belt
below the limen of hearing
below the line
below the mark
below the salt
below the threshold of hearing
below zero
belt awl
belt carrier
belt clamp
belt conveyer
belt coupler
belt course
belt cutter
belt fork
belt highway
belt hoist
belt idler
belt in
belt insulation
belt knitter
belt lacing
belt line
belt maker
belt man
belt out
belt pulley
belt punch
belt railroad
belt sander
belt saw
belt shifter
belt shipper
belt slip
belt speeder
belt tenter
belt up
belt-coupled
belt-cutting
belt-driven
belt-folding
belt-repairing
belt-sanding
belt-sewing
belt-tightening
belted bias tire
belted kingfisher
belted knight
belted radial tire
belted sandfish
belter-skelter
beltsville small white
ben chervil
ben nut
ben oil
ben trovato
ben-teak
bench clamp
bench dog
bench drill
bench hardening
bench holdfast
bench hook
bench jockey
bench key
bench knife
bench lathe
bench mark
bench plane
bench press
bench root
bench scales
bench screw
bench show
bench stamper
bench stop
bench strip
bench table
bench terrace
bench test
bench tester
bench warmer
bench warrant
bench winder
bench-hardened
bench-kneed
bench-legged
bench-made
bench-mark
bench-warmer
benching iron
bend an ear
bend an ear to
bend attention to
bend back
bend dexter
bend leather
bend might and main
bend over
bend over backward
bend over backwards
bend pipe
bend sinister
bend the elbow
bend the eyes
bend the head
bend the knee
bend the knee to
bend the mind
bend the mind to
bend the mind upon
bend the neck
bend the thoughts to
bend the truth
bend to
bend to your will
bend to your yoke
bend your course
bend your ear
bend your effort
bend your steps
bend your steps for
bend your steps to
bending moment
bending press
bending punch
bending shackle
bending the knee
bending works
bends, the
bendy tree
bendy-wavy
bene vale
beneath contempt
beneath notice
beneath one
beneath the sky
beneath the sod
beneath your dignity
beneath your station
benefice-holder
beneficial interest
beneficiary heir
benefit association
benefit club
benefit from
benefit of clergy
benefit performance
benefit society
benefits forgot
benevolent despotism
benevolent disposition
bengal light
benign tumor
benjamin bush
benjamin tree
benjamin-bush
benne oil
benneting time
benni cake
bent grass
bent land
bent on
bent on pleasure
bent with age
bent-taildog
benthic zone
bentu de soli
benz-
benzal chloride
benzal group
benzal radical
benzalkonium chloride
benzene hexachloride
benzene nucleus
benzene ring
benzene series
benzenecarboxylic acid
benzenesulfonic acid
benzethonium chloride
benzidine colors
benzidine dye
benzidine rearrangement
benzine cup
benzo fast scarlet
benzo orange
benzo paradiazine
benzo paroxazine
benzo-
benzotate of soda
benzoic acid
benzoic aldehyde
benzoic sulphinide
benzol distiller
benzol extractor
benzoyl acetyl peroxide
benzoyl chloride
benzoyl green
benzoyl group
benzoyl hydride
benzoyl peroxide
benzoyl radical
benzyl acetate
benzyl alcohol
benzyl benzoate
benzyl bromide
benzyl butyrate
benzyl chloride
benzyl cyanide
benzyl dichloride
benzyl fluoride
benzyl fumarate
benzyl group
benzyl isoamyl ether
benzyl radical
benzyl succinate
benzyl thiocyanate
benzylidene acetone
benzylidene chloride
berberine tree
berberonic acid
berbice chair
bereave of life
bereaved of
bereft of
bereft of life
bereft of light
bereft of reason
berenice's hair
berg adder
berg crystal
berg ice
berg till
berg wind
bergamot camphor
bergamot mint
bergamot oil
bergamot orange
bergy bit
beriberi heart
bering time
berlin eye
berlin head
berlin wool
berlin-landaulet
berline-landaulet
bermuda grass
bermuda rig
bermuda shorts
bernese mountain dog
bernicle goose
berry alder
berry cone
berry ladle
berry patch
berry pepper
berry pie
berry spoon
berry tree
berry-bearing
berry-brown
berry-formed
berry-on-bone
berry-shaped
berrybone fish
berth cargo
berth deck
bertillon system
beryl blue
beryl green
beryl-blue
beryl-green
beryllium bronze
beryllium copper
beryllium oxide
bes antler
bes-
bes-antler
beset with danger
besetting sin
beside the mark
beside the point
beside the question
beside yourself
beside yourself with joy
besom moss
best-learned
best-liked
best-loved
best-made
best-managed
best-meaning
best-meant
best-minded
best-natured
best-nourishing
best-paid
best-paying
best-pleasing
best-preserved
best-principled
best-read
best-resolved
best-selling
best-sighted
best-skilled
best-tempered
best-trained
bestir yourself
bestow consideration upon
bestow honor upon
bestow on
bestow thought upon
bestow your affections on
bestow your hand upon
bet against
bet on
bet upon
bet your boots
bet your bottom dollar
bet your bottom dollar on
beta brass
beta decay
beta function
beta globulin
beta iron
beta particle
beta radiation
beta radiator
beta ray
beta rhythm
beta test
beta transformation
beta-amylase
beta-euaine
beta-glucose
beta-indoleacetic acid
beta-naphthol
beta-naphthyl
beta-naphthyl benzoate
beta-naphthyl group
beta-naphthyl radical
beta-naphthyl salicylate
beta-naphthylamine
beta-orcin
beta-orcinol
beta-ray spectrograph
beta-ray spectrometer
betake yourself
betake yourself to
bete noire
betel nut
betel palm
betel pepper
betel phenol
bethink yourself
bethink yourself of
betray a confidence
betray itself
betray yourself
betrayed hope
better days
better for
better half
better off
better part
better self
better sort
better than nothing
better thoughts
better world
better yourself
better-advised
better-affected
better-balanced
better-becoming
better-behaved
better-born
better-bred
better-considered
better-disposed
better-dressed
better-humored
better-informed
better-knowing
better-known
better-liked
better-liking
better-meant
better-natured
better-omened
better-principled
better-regulated
better-seasoned
better-taught
better-witted
betterment tax
betting house
betting machine
betting parlor
betting ring
betting shop
betting system
betula camphor
betula oil
between Scylla and Charybdis
between acts
between brain
between decks
between halves
between now and then
between ourselves
between periods
between the hammer and the anvil
between the lines
between the teeth
between two fires
between two stools
between us
between wind and water
between you
between you and me
between your teeth
between-deck
between-decks
between-maid
between-whiles
betwixt and between
betwixt sleep and waking
beurre blanc
beurre fondu
beurre noir
bevel bearing
bevel edge
bevel gauge
bevel gear
bevel gearing
bevel joint
bevel pinion
bevel protractor
bevel siding
bevel square
bevel washer
bevel wheel
bevel-edged
bevel-faced hammer
beveling edge
beverage room
beyond a doubt
beyond a shade of doubt
beyond a shadow of doubt
beyond all bounds
beyond all expectation
beyond all limits
beyond all praise
beyond all question
beyond belief
beyond compare
beyond comparison
beyond control
beyond doubt
beyond expectation
beyond measure
beyond need
beyond one
beyond price
beyond question
beyond reach
beyond reason
beyond recall
beyond remedy
beyond seas
beyond the bounds
beyond the bounds of possibility
beyond the bounds of reason
beyond the call of duty
beyond the pale
beyond the shadow of a doubt
beyond understanding
beyond your ability
beyond your capacity
beyond your comprehension
beyond your control
beyond your depth
beyond your fondest dreams
beyond your means
beyond your power
beyond, the
bez antler
bez tine
bez-antler
bezoar antelope
bezoar goat
bezoar mineral
bezoar stone
bhut-bali
bi-
bi-bivalent
bi-guy
bi-iliac
bi-ischiadic
bi-ischiatic
bi-tri-
bialystok roll
bias binding
bias tire
bias your judgment
bib and brace
bib and tucker
bib nozzle
bib pout
bibble-babble
bible-christian
bible-clerk
biblico-
biblio-
bibliography of bibliographies
bicameral legislature
bicarbonate of soda
bice blue
bice green
bichloride of mercury
bichromate cell
bichromate filter
bick-iron
bicker over
bicolor lespedeza
bicuspide valve
bicycle chain
bicycle clip
bicycle path
bicycle pump
bicycle race
bicycle racing
bicycle saddle
bicycle seat
bicycle-built-for-two
bicyclic terpene
bid Godspeed
bid a long farewell to
bid ale
bid at auction
bid bond
bid come
bid defiance
bid defiance to
bid euchre
bid fair
bid fair to
bid farewell
bid for
bid good day
bid good morning
bid good-bye
bid hello
bid in
bid prayer
bid price
bid time return
bid to combat
bid up
bid well
bid you welcome
bid-a-bid
bid-ale
bid-and-asked prices
biddery ware
bidding prayer
biddy-bid
biddy-biddy
bide the issue
bide your time
bidgee-widgee
biding place
bien cuit
bien entendu
hier right
bifurcation theory
big Chief
big Daddy
big White Chief
big as you please
big baby
big bag of wind
big band
big bang theory
big battalions
big bedbug
big ben
big bluestem
big boss
big boy
big brother
big bruise
big bug
big business
big businessman
big casino
big cat
big cheese
big chief
big deal
big dipper
big drink
big drunk
big end
big game
big game hunter
big gun
big hand
big heart
big hit
big hook
big house
big idea
big laurel
big league
big lie
big man
big man on campus
big marigold
big mouth
big name
big noise
big operator
big person
big price tag
big screen
big shot
big sister
big skate
big smoke
big stick
big talk
big talker
big time
big toe
big top
big top, the
big tree
big wheel
big wind
big with child
big with meaning
big with young
big word
big-antlered
big-armed
big-bang theory
big-bearded
big-bellied
big-bodied
big-boned
big-bosomed
big-breasted
big-bulked
big-chested
big-city man
big-cone pine
big-cone spruce
big-eared
big-endian
big-eyed
big-footed
big-framed
big-gaited
big-handed
big-headed
big-hearted
big-hoofed
bilge rail
bilge saw
bilge strake
bilge water
bilge ways
bilge well
bilge-hoop
bilge-keel
bilge-water
bili-
biliary calculus
biliment lace
bilinear form
bilinear transformation
bilingual dictionary
bilingual edition
bilingual text
bilious cholera
bill and coo
bill book
bill broker
bill case
bill clerk
bill collector
bill discounter
bill discounting
bill file
bill of account
bill of adventure
bill of attainder
bill of complaint
bill of draft
bill of entry
bill of exchange
bill of fare
bill of goods
bill of health
bill of indictment
bill of lading
bill of mortality
bill of particulars
bill of rights
bill of sale
bill-and-cooers
bill-broker
bill-hook
bill-like
bill-patched
bill-shaped
billet at
billet boy
billet breaker
billet car
billet chipper
billet cutter
billet heater
billet man
billet piler
billet rolls
billet wheeler
billet worker
billet-doux
billets-doux
billiard ball
billiard cloth
billiard cue
billiard green
billiard match
billiard parlor
billiard player
billiard room
billiard table
billing and cooing
billing machine
billion-dollar grass
billow cloud
billowy cloud
billy check
billy club
billy fairplay
billy gar
billy gate
billy goat
billy owl
billy playfair
billy tea
billy-button
billy-goat
billy-goat weed
billycock hat
bimetallic balance
bimetallic strip
bin-
bin-burn
binary arithmetic
binary cell
binary code
binary digit
binary fission
binary form
binary notation
binary number
binary operation
binary opposition
binary scale
binary star
binary system
binary-coded decimal
binary-coded decimal system
binaural broadcasting
binaural system
bind day
bind off
bind over
bind rail
bind up
bind yourself to
bind-days
binder board
binder course
binder pulley
binder twine
binder's board
binder's cloth
binder's title
bindi-eye
binding agreement
binding arbitration
binding course
binding edge
binding energy
binding off
binding over
binding post
binding rafter
binding receipt
binding screw
binding stone
binding strake
binding tape
binding twine
bindle stiff
bindweed nightshade
binet-simon scale
binnacle list
binocular fusion
binocular microscope
binodal quartic
binomial coefficient
binomial distribution
binomial name
binomial nomenclature
binomial series
binomial theorem
bio-
bio-aeration
bio-assay
bio-economic
bio-electric
bio-electrogenesis
bio-energetics
bio-osmosis
bio-osmotic
biochemical oxygen demand
biographical dictionary
biographical material
biographical records
biographical sketch
biological adjustable reactions
biological classification
biological clock
biological control
biological death
biological diagnosis
biological evolution
biological method
biological oxygen demand
biological product
biological science
biological sociology
biological species
biological stain
biological supplies
biological taxonomy
biological urge
biological vector
biological warfare
biological weapons
biotic potential
bipartisan policy
biphenyl rearrangement
birch beech
birch beer
birch borer
birch camphor
birch family
birch oil
birch partridge
birch skeletonizer
birch wine
birch-bark call
birch-bark oil
birch-leaf mahogany
birch-leaf skeletonizer
birch-tar oil
bird augury
bird bell
bird bolt
bird brier
bird cactus
bird cage
bird call
bird cherry
bird colonel
bird dog
bird duffer
bird eagles
bird eye
bird fancier
bird flower
bird fly
bird font
bird food
bird grape
bird grass
bird group
bird in hand
bird in the hand
bird knotgrass
bird life
bird louse
bird malaria
bird mite
bird net
bird of Jove
bird of Juno
bird of Minerva
bird of another feather
bird of ill omen
bird of night
bird of paradise
bird of passage
bird of peace
bird of prey
bird pepper
bird pest
bird plant
bird pox
bird preserver
bird rattle
bird refuge
bird sanctuary
bird seed
bird shop
bird shot
bird skin
bird snake
bird song
bird sound
bird spider
bird strike
bird stuffer
bird table
bird thistle
bird tick
bird vetch
bird watcher
bird whistle
bird young
bird's beak
bird's egg
bird's mouth
bird's nest
bird's nest soup
bird's-eye
bird's-eye maple
bird's-eye primrose
bird's-eye view
bird's-eyes
bird's-foot
bird's-foot fern
bird's-foot trefoil
bird's-foot violet
bird's-foots
bird's-nest
bird's-nest fern
bird's-nest fungus
bird's-nest orchid
bird's-nest soup
bird-batting
bird-brained
bird-cage
bird-dog
bird-dogged
bird-dogging
bird-egg pea
bird-eyed
bird-faced
bird-fingered
bird-foot
bird-foots
bird-in-the-bush
bird-lime
bird-nest
bird-nesting
bird-of-paradise bush
bird-of-paradise flower
bird-ridden
bird-voiced tree frog
bird-watch
bird-watcher
bird-witted
birdcage clock
birding piece
birds of a feather
birds-in-the-bush
birdseed grass
birdseed rape
birth canal
birth certificate
birth control
birth control device
birth control pill
birth controller
birth date
birth defect
birth flower
birth gift
birth hour
birth month
birth name
birth pain
birth palsy
birth pang
birth pangs
birth phantasy
birth rate
birth sin
birth theory
birth throe
birth throes
birth trauma
birth year
birth-control pill
birthday cake
birthday gift
birthday present
birthday suit
birthwort family
bis-
biscuit bag
biscuit baker
biscuit baking
biscuit beetle
biscuit box
biscuit china
biscuit clay
biscuit cutter
biscuit drawer
biscuit fire
biscuit fireman
biscuit firing
biscuit kilnman
biscuit leaves
biscuit oven
biscuit painter
biscuit pan
biscuit plant
biscuit porcelain
biscuit pottery
biscuit tortoni
biscuit ware
biscuit warehouse
biscuit weevil
biscuit worm
biscuit-brained
biscuit-colored
biscuit-fired
biscuit-shaped
bisecting compass
bisecting dividers
bishop bird
bishop coadjutor
bishop cotton
bishop pine
bishop ray
bishop sleeve
bishop stool
bishop suffragan
bishop's mitre
bishop's palace
bishop's purple
bishop's ring
bishop's weed
bishop's-cap
bishop's-weed
bismuth blende
bismuth chromate
bismuth glance
bismuth ocher
bismuth oxychloride
bismuth oxynitrate
bismuth spar
bismuth subchloride
bismuth subnitrate
bismuth tribromphenate
bismuth white
bismuth yellow
bismuthyl chloride
bissextile day
bissextile year
bistable circuit
bister green
bit by bit
bit gauge
bit key
bit much, a
bit of your mind
bit part
bit pincers
bit player
bit stop
bit, a
bit-by-bit
bit-weight control
bit-wise
bitch box
bitch chain
bitch goddess
bitch up
bitch-kitty
bitched up
bite back
bite in
bite off more than you can chew
bite plate
bite the bullet
bite the dust
bite the hand that feeds one
bite the hand that feeds you
bite the thumb at
bite the tongue
bite your head off
bite your lip
bite your nails
bite your nose off
bite your tongue
bite-sheep
bite-tongue
biting angle
biting housefly
biting louse
biting midge
biting wind
biting your nails
bito tree
bitt pin
bitten-leaf disease
bitter almond
bitter almond oil
bitter apple
bitter as gall
bitter cassava
bitter chocolate
bitter cold
bitter cress
bitter cup
bitter defeat
bitter disappointment
bitter dock
bitter draft
bitter draught
bitter end
bitter enemy
bitter feeling
bitter herb
bitter lake
bitter lemon
bitter orange
bitter pill
bitter principle
bitter resentment
bitter rot
bitter weather
bitter wood
bitter words
bitter-
bitter-almond oil
bitter-biting
bitter-end
bitter-ender
bitter-enderism
bitter-endism
bitter-orange oil
bitter-rinded
bitter-sweet
bitter-sweeting
bitter-tasting
bitter-tongued
bitterly cold
bitterly disappointed
bitterness of spirit
bitumen process
bituminous coal
bituminous macadam
biuret reaction
biuret test
bivalvate Biology
biw-
blab out
blab school
black Angus
black Minorca
black Orpington
black Spanish
black Sumatra
black acacia
black alder
black and blue
black and tan
black and white
black ant
black arm
black art
black art, the
black as a crow
black as coal
black as ebony
black as ink
black as midnight
black as night
black as pitch
black balsam
black basaltes
black bass
black bead
black bean
black bear
black beast
black beetle
black belt
black bent
black bile
black bindweed
black blizzard
black board
black body
black book
black bottom
black box
black brant
black bread
black bryony
black buck
black buffaloo
black buran
black butter
black calla
black cap
black carpet beetle
black cat
black chaff
black cherry
black chokeberry
black clouds
black cod
black cohosh
black comedy
black copper
black cosmos
black crappie
black currant
black death
black despondency
black diamond
black diamonds
black disease
black dog
black drop
black duck
black durgon
black earth
black eye
black face
black face Highland
black fever
black fish
black flag
black flux
black fly
black fog
black foot
black fox
black friar
black frost
black game
black gang
black ghetto
black gnat
black gold
black gown
black gram
black grouse
black guillemot
black gum
black hand
black haw
black heat
black hellebore
black henbane
black hole
black huckleberry
black humor
black ice
black ink
black ivory
black jack
black kite
black knot
black lead
black letter
black light
black liquor
black list
black locust
black look
black looks
black lung
black magic
black mail
black man
black maple
black margate
black maria
black mark
black mark to
black market
black marketeer
black marketer
black marten
black mass
black measles
black medic
black medick
black mercuric sulfide
black mold
black molly
black monday
black monk
black moor
black mould
black mulberry
black mustard
black nickel oxide
black nightshade
black nob
black oak
black opal
black or white
black out
black paternoster
black pepper
black perch
black pewter
black pit
black plague
black poplar
black powder
black power
black prince
black pudding
black quarter
black race
black raspberry
black rat
black ring
black rod
black root rot
black rot
black rudderfish
black ruff
black rust
black sable
black sage
black salts
black saltwort
black sand
black sap
black scoter
black sea bass
black selenium
black shank
black sheep
black skimmer
black snake
black snakeroot
black soap
black spot
black spruce
black squall
black squirrel
black stem
black stick
black storm
black studies
black stuff
black stump
black sucker
black supremacy
black swallowtail
black swan
black tea
black tie
black titi
black tracker
black treacle
black turnstone
black treacle
black velvet
black vomit
black vote
black vulture
black walnut
black wash
black wattle
black whale
black widow
black widow spider
black witch
black-a-vised
black-a-visaged
black-a-vised
black-and-blue
black-and-blue mark
black-and-tan
black-and-tan terrier
black-and-white
black-and-white film
black-and-white photograph
black-and-white television
black-aproned
black-back flounder
black-backed
black-backed gull
black-ball
black-banded
black-bark pine
black-bearded
black-bellied
black-bellied plover
black-belt
black-berried
black-billed
black-billed cuckoo
black-billed magpie
black-blooded
black-blue
black-bodied
black-boding
black-bordered
black-boughed
black-breasted
black-browed
black-brown
black-bulb thermometer
black-bundle disease
black-capped
black-capped chickadee
black-chinned
black-clad
black-coat worker
black-coated
black-colored
black-cornered
black-crested
black-crowned
black-currant rust
black-eared
black-ears
black-edged
black-eye bean
black-eye sunfish
black-eyed
black-eyed Susan
black-eyed pea
black-eyed susan
black-faced
black-favored
black-feathered
black-figure
black-figured
black-fin snapper
black-footed
black-footed ferret
black-fruited
black-gowned
black-hafted
black-haired
black-head
black-headed
black-headed fireworm
black-headed gull
black-hearted
black-hilted
black-hole
black-hooded
black-hoofed
black-leg
black-legged
black-letter
black-letter day
black-lidded
black-lipped
black-locked
black-looking
black-maned
black-margined
black-market
black-marketeer
black-mouth
black-mouthed
black-neb
black-necked
black-necked stork
black-nosed
black-out
black-peopled
black-plumed
black-pot
black-red
black-robed
black-rooted
black-sander
black-shouldered
black-skinned
black-snake
black-spot canker
black-spotted
black-stoled
black-tail
black-tailed
black-tailed deer
black-thorn
black-throated
black-tie
black-toed
black-tongued
black-tressed
black-tufted
black-varnish tree
black-veiled
black-visaged
black-wash
black-whiskered
black-wood
blackback flounder
blackbanded sunfish
blackbelly rosefish
blackberry bark
blackberry lily
blackberry token
blackberry wine
blackbird bindweed
blackboy gum
blackcrowned night heron
blacken your good name
blacker than black synchronizing
blackest dye
blackfin cisco
blackfish oil
blackhead Persian
blackhead disease
blackhead grass
blackhead minnow
blackheart plover
blackjack oak
blackjack pine
blackland plow
blackout skit
blackpoll warbler
blacksmith shop
blacksmith welding
blacksmith's hammer
blacksmith's shop
blackstrap molasses
blacktail deer
blackwall hitch
blackwater fever
blad apple
bladder campion
bladder catchfly
bladder cherry
bladder fern
bladder fucus
bladder green
bladder herb
bladder kelp
bladder ketmia
bladder ketmie
bladder plum
bladder sedge
bladder senna
bladder snout
bladder tangle
bladder tree
bladder worm
bladder wrack
bladdernut family
bladderwort family
blade angle
blade apple
blade buffer
blade grader
blade harrow
blade roast
blade-point
blah feeling
blah-blah
blame for
blame on
blame upon
blame yourself
blame-shifting
blanc d'Espagne
blanc d'argent
blanc de blancs
blanc de fard
blanc de noirs
blanc fixe
blanch farm
blanch over
blanched almonds
blanco perch
bland diet
blank cartridge
blank check
blank cheque
blank despondency
blank determination
blank endorsement
blank flange
blank future
blank mind
blank out
blank shell
blank verse
blank wall
blank-eyed
blank-looking
blank-minded
blanket alga
blanket ballot
blanket binder
blanket binding
blanket chest
blanket cloth
blanket deposit
blanket drill
blanket fish
blanket holder
blanket leaf
blanket maker
blanket mortgage
blanket moss
blanket policy
blanket rate
blanket roll
blanket scum
blanket sheet
blanket stiff
blanket stitch
blanket washer
blanket weaver
blanket weaving
blanket-flower
blanket-stitch
blankety blank
blankety-blank
blanking amplifier
blanking die
blanking press
blanking punch
blanking signal
blanquette de veau
blare abroad
blare forth
blarney stone
blast away
blast bloomery
blast engine
blast fan
blast freezing
blast furnace
blast lamp
blast neurosis
blast off
blast pipe
blast propulsion
blast roasting
blast the ear
blast wave
blast your hope
blast-
blast-borne
blast-freeze
blast-freezing
blast-frozen
blast-furnace
blast-off
blasted expectation
blasting cap
blasting cartridge
blasting circuit
blasting detonator
blasting fuse
blasting gelatin
blasting machine
blasting mat
blasting needle
blasting oil
blasting paper
blasting powder
blasting spoon
blasting tools
blasting tube
blasto-
blatti family
blaze a trail
blaze about
blaze abroad
blaze current
blaze of glory
blaze of light
blaze of temper
blaze the trail
blaze up
blazing fire
blazing light
blazing star
blazon about
blazon abroad
blazon forth
bleach liquor
bleach out
bleach process
bleach wax
bleached blond
bleached out
bleached white
bleached-blond
bleaching agent
bleaching clay
bleaching croft
bleaching earth
bleaching engine
bleaching field
bleaching green
bleaching ground
bleaching powder
bleaching substance
bleaching tank
bleak outlook
bleak prognosis
bleak prospect
bleak weather
blear the eyes of
blear-eyed
blear-eyedness
blear-witted
bleary-eyed
bled white
bleed for
bleed nipple
bleed valve
bleed white
bleeder pipe
bleeder resistor
bleeder tile
bleeder's disease
bleeding disease
bleeding heart
bleeding-heart pigeon
bleeper Informal
blend in with
blend into
blend-word
blended whiskey
blending inheritance
blenno-
blenorrhagic arthritis
blephar-
blepharo-
bles mole
bles-bok
bless His holy name
bless my heart
bless out
bless the Lord
bless with
bless your stars
blessed event
blessed release
blessed sacrament
blessed thistle
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blighted area
blighted hope
blighted neighborhood
blighted section
blighting glance
blind Chance
blind Justice
blind alley
blind and naked Ignorance
blind as a bat
blind as a mole
blind as an owl
blind bargain
blind bombing
blind casing
blind coal
blind copy
blind date
blind door
blind drunk
blind faith
blind fish
blind flange
blind flight
blind floor
blind flying
blind guess
blind gut
blind header
blind hookey
blind impulse
blind instinct
blind landing
blind leaders of the blind
blind man
blind man's buff
blind man's holiday
blind man's rule
blind man's watch
blind nailing
blind pig
blind poker
blind pool
blind rage
blind salamander
blind seed
blind side
blind snake
blind spot
blind spots
blind stagers
blind stamping
blind the eyes
blind tiger
blind to
blind tooling
blind trust
blind window
blind your eyes
blind yourself
blind yourself to
blind, the
blind-alley
blind-head
blind-loaded
blind-man's-buff
blind-nail
blind-nettle
blind-pigger
blind-pigging
blind-punch
blind-stamp
blind-stamped
blind-tool
blind-tooled
blind-worm
blind-your-eyes
blindfold chess
blindfolded Justice
blinding light
blindman's bluff
blindman's buff
blink aside
blink at
blink away
blink beer
blink comparator
blink microscope
blink-eyed
blinker lamp
blinker light
blinker tube
blinking light
blinking sort o' place
bliss body
blister beetle
blister blight
blister bush
blister canker
blister canopy
blister cone
blister copper
blister flower
blister fly
blister gas
blister mite
blister pearl
blister plant
blister plaster
blister rust
blister spot
blister steel
blithe-looking
blithering idiocy
blithering idiot
blitz can
blitzkrieg tactics
blo doper
bloat clover
bloat colic
bloat herring
bloated aristocrat
bloated plutocrat
bloated with pride
bloater whitefish
blobber lip
blobber-lipped
block and block
block and fall
block and falls
block and tackle
block anesthesia
block ball
block bond
block book
block booking
block brake
block capital
blood disk
blood dock
blood donor
blood donor center
blood dust
blood feud
blood fine
blood flour
blood fluke
blood geranium
blood gill
blood gland
blood glue
blood groove
blood group
blood grouping
blood guilt
blood heat
blood horse
blood islands
blood knot
blood lily
blood lust
blood mare
blood meal
blood mole
blood money
blood orange
blood pheasant
blood picture
blood pink
blood plant
blood plasma
blood platelet
blood plum
blood poisoning
blood pressure
blood pudding
blood purge
blood rain
blood red
blood refiner
blood relation
blood relationship
blood relative
blood revenge
blood rite
blood royal
blood sacrifice
blood sausage
blood seller
blood serum
blood sister
blood spavin
blood sport
blood spot
blood strain
blood stream
blood substitute
blood sugar
blood test
blood ties
blood transfusion
blood tree
blood type
blood typing
blood vengeance
blood vessel
blood vine
blood-albumin glue
blood-and-guts
blood-and-thunder
blood-bedabbled
blood-bespotted
blood-besprinkled
blood-boltered
blood-bought
blood-cemented
blood-colored
blood-consuming
blood-defiled
blood-discolored
blood-drenched
blood-drop emlets
blood-drunk
blood-dyed
blood-extorting
blood-faced
blood-filled
blood-fired
blood-flecked
blood-frozen
blood-guilty
blood-gushing
blood-heat
blood-hot
blood-hued
blood-letter
blood-letting
blood-loving
blood-lye salt
blood-mad
blood-money
blood-plashed
blood-polluted
blood-polluting
blood-raw
blood-red
blood-relation
blood-root
blood-scrawled
blood-shaken
blood-shot
blood-shotten
blood-sized
blood-spattered
blood-spavin
blood-stain
blood-stirring
blood-stirringness
blood-stone
blood-strange
blood-suck
blood-sucker
blood-swelled
blood-swoln
blood-tinctured
blood-type
blood-vascular
blood-vessel
blood-warm
blood-wite
blood-won
blood-worm
blood-wort
bloodless operation
bloodless revolution
bloodless surgery
bloodwort family
bloody butchers
bloody flux
bloody hands
bloody mary
bloody mess
bloody murder
bloody noun
bloody shirt
bloody your hands with
bloody-back
bloody-bones
bloody-eyed
bloody-faced
bloody-handed
bloody-hearted
bloody-minded
bloody-mindedness
bloody-moutherd
bloody-nosed
bloody-red
bloody-sceptered
bloody-veined
bloom boy
bloom bud
bloom conveyer
bloom cutter
bloom heater
bloom hook
bloom late
bloom loader
bloom mill
bloom oil
bloom poison
bloom runner
bloom saw
bloom shearer
bloom shears
bloom side
bloom slinger
bloom smithy
bloom swinger
bloom tongs
bloom yard
bloom-colored
bloom-fell
bloom-shearing
bloomer girl
bloomer pit
blooming mill
blooming oil
blooming rolls
bloomy-down
blossom blight
blossom bud
blossom withy
blossom-bearing
blossom-billed
blossom-bordered
blossom-crested
blossom-end rot
blossom-faced
blossom-headed
blossom-laden
blossom-nosed
blot in your escutcheon
blot in your scutcheon
blot on your escutcheon
blot on your scutcheon
blot out
blot out your sins
blot up
blotch printing
blotch-shaped
blotting book
blotting case
blotting out
blotting pad
blotting paper
blow a fuse
blow a gasket
blow a horn
blow a hurricane
blow a kiss
blow a safe
blow about
blow accordion
blow away
blow case
blow down
blow for blow
blow great guns
blow hard
blow hot and cold
blow in
blow into
blow it
blow job
blow me down
blow milk
blow mold
blow molding
blow moulding
blow off
blow off steam
blow off the lid
blow on
blow open
blow out
blow over
blow post
blow sky-high
blow snake
blow the bugle
blow the chance
blow the clarion
blow the coals
blow the horn
blow the lid off
blow the tank
blow the trumpet
blow the whistle
blow the whistle on
blow through
blow to
blow to bits
blow to kingdom come
blow to pieces
blow tube
blow up
blow up a storm
blow up the fire
blow upon
blow valve
blow wash
blow your brains out
blow your cool
blow your cover
blow your lines
blow your mind
blow your own horn
blow your own trumpet
blow your stack
blow your top
blow yourself to
blow-
blow-bies
blow-by
blow-by-blow
blow-dry
blow-fly
blow-hard
blow-hole
blow-in
blow-iron
blow-molded
blow-pipe
blow-through
blow-up
blow-wave
blower-up
blowing charge
blowing cylinder
blowing engine
blowing fan
blowing furnace
blowing hot and cold
blowing iron
blowing machine
blowing mold
blowing pipe
blowing tube
blowing up
blown glass
blown over
blown up
blown up out of all proportion
blown-in-the-bottle
blown-mold
blown-molded
blown-out
blown-up
blowout grass
blowout magnet
blowpipe analysis
blowpipe reaction
blubber cask
blubber chopper
blubber fork
blubber grass
blubber lamp
blubber oil
blubber ship
blubber spade
blubber stove
blubber-cheeked
blubber-fed
blue Andalusian
blue Johnnies
blue Monday
blue Orpington
blue alert
blue angel
blue asbestos
blue baby
blue bag
blue bed
blue bell
blue belt
blue bird
blue black
blue blazing star
blue blindness
blue blood
blue bloods
blue bonnet
blue book
blue bottle
blue buck
blue bull
blue butcher
blue cat
blue cheese
blue chip
blue chip stock
blue coat
blue cohosh
blue colors and pigments
blue comb
blue copperas
blue coral
blue crab
blue crane
blue curls
blue daisy
blue dandelion
blue darter
blue dawn-flower
blue devil
blue devils
blue dicks
blue dogwood
blue dyer
blue ensign
blue eye
blue false indigo
blue fish
blue flag
blue flash
blue fox
blue funk
blue gas
blue goose
blue gown
blue grama
blue grosbeak
blue ground
blue grouse
blue gum
blue heaven
blue huckleberry
blue in the face
blue iron earth
blue jasmine
blue jay
blue jeans
blue john
blue joke
blue language
blue law
blue laws
blue lily-turf
blue line
blue lips
blue lobelia
blue lotus
blue mangler
blue marguerite
blue marlin
blue mass
blue melilot
blue mill
blue mixer
blue mockingbird
blue mold
blue moon
blue mould
blue movie
blue mud
blue myrtle
blue note
blue ointment
blue onyx
blue pencil
blue penguin
blue peter
blue phlox
blue pickerel
blue pigeon
blue pike
blue pikeperch
blue pill
blue plate
blue point
blue pointer
blue powder
blue presser
blue pressman
blue racer
blue ribband
blue ribbon
blue rockfish
blue ruin
blue runner
blue shark
blue sheep
blue shift
blue sky
blue spirea
blue spruce
blue star grass
blue stellar object
blue stem
blue stone
blue story
blue streak
blue succory
blue thistle
blue tit
blue trucker
blue turquoise
blue velvet
blue verditer
blue vervain
blue vitriol
blue walleye
blue water
blue whale
blue with cold
blue wood aster
blue ynde
blue, the
blue-annealed
blue-aproned
blue-arc phenomenon
blue-backed
blue-banded
blue-bellied
blue-belt
blue-berried
blue-billed
blue-bird
blue-black
blue-blackness
blue-blind
blue-blooded
blue-blossom
blue-bloused
blue-bottle
blue-breasted
blue-breasted darter
blue-brick university
blue-cap
blue-checked
blue-checked
blue-chip
blue-coated
blue-collar
blue-collar worker
blue-colored
blue-crested
blue-cross
blue-cross gas
blue-cross shell
blue-curls
blue-devilage
blue-devilism
blue-eared
blue-eye
blue-eyed
blue-eyed Mary
blue-eyed boy
blue-eyed grass
blue-eyed soul
blue-faced
blue-fish
blue-flowered
blue-footed
blue-fronted
blue-glancing
blue-glimmering
blue-gray
blue-gray gnatcatcher
blue-green
blue-green alga
blue-green algae
blue-green flame
blue-gum leaves
blue-haired
blue-headed
blue-headed vireo
blue-hearts
blue-hot
blue-john
blue-leaved
blue-lined
blue-mantled
blue-molded
blue-molding
blue-mottled
blue-mouthed
blue-nose
blue-nosed
blue-pencil
blue-penciled
blue-penciling
blue-pencilled
blue-pencilling
blue-rayed
blue-red
blue-ribbon
blue-ribbon jury
blue-ribbon panel
blue-ribboner
blue-ribbonism
blue-ribbonist
blue-roan
blue-rolled
blue-sailors
blue-sighted
blue-sky
blue-sky law
blue-slate
blue-spotted
blue-stained
blue-starry
blue-stemmed
blue-stocking
blue-striped
blue-tailed
blue-throated
blue-tinted
blue-tongued
blue-veined
blue-washed
blue-water
blue-water school
blue-wattled
blue-white
blue-winged
blue-winged teal
blue-yellow
blue-yellow blindness
blue-yellow-blind
blueback mullet
blueback salmon
blueback trout
blueberry ash
blueberry cornel
blueberry maggot
blueberry root
blueberry tree
bluebottle fly
bluebrick university
bluecoat boys
bluecoat school
bluefin tuna
bluehead sucker
bluejack oak
blueprint paper
blues singer
blues song
bluethroat pikeblenny
bluewater sailor
bluff formation
bluff off
bluff-bowed
bluff-headed
bluish-green
blunder away
blunder into
blunder on
blunders round about a meaning
blunt-angled
blunt-edged
blunt-ended
blunt-faced
blunt-headed
blunt-leaved
blunt-lobed
blunt-nosed
blunt-pointed
blunt-spoken
blunt-witted
blur circle
blur distinctions
blurred speech
blurring the eyes
blurt out
blush rose
blush unseen
blush up to the eyes
blush-colored
blush-compelling
blush-faced
blush-suffused
blush-tinted
blushing bride
blushing honors
bluster and bluff
bluster into
bluster out of
bo tree
bo-peep
bo-tree
boa constrictor
boa-constrictor
boar dog
boar grunt
boar hunt
boar stag
boar thistle
boar tree
boar-fish
boar-hunting
board and batten
board and board
board and room
board chairman
board check
board chopper
board cloth
board combiner
board company
board cover
board fence
board foot
board game
board liner
board lot
board maker
board measure
board of aldermen
board of commissioners
board of directors
board of education
board of elections
board of estimate
board of health
board of regents
board of supervisors
board of trade
board of trustees
board of visitors
board rack
board room
board rubber
board rule
board scale
board school
board side
board wages
board work
board worker
board-and-roomer
board-and-shingle
board-school
board-wages
boarder-up
boarding house
boarding nettings
boarding officer
boarding pike
boarding ramp
boarding school
boarding-out system
boards, the
boast of
boasting chisel
boat ax
bob down
bob for
bob runner
bob skate
bob skates
bob up
bob veal
bob wheel
bob wig
bob wire
bob-cherry
bob-haired
bob-sled
bob-tail
bob-white
bob-wig
bobbery pack
bobbin and fly frame
bobbin barreler
bobbin board
bobbin borer
bobbin boy
bobbin carrier
bobbin chucker
bobbin cleaner
bobbin filler
bobbin lace
bobbin maker
bobbin making
bobbin net
bobbin polisher
bobbin riveter
bobbin shifter
bobbin sinker
bobbin stripper
bobbin tester
bobbin tier
bobbin-net
bobby calf
bobby pin
bobby socks
bobby soxer
bobby-dazzler
bobby-socker
bobby-soxer
bobsy-die
bobtail drawbridge
bobtail flush
bobtail straight
bobtailed arrow
bobwhite quail
bock beer
bodd-
bodhi tree
bodice maker
bodies seven
bodily appetite
bodily charm
bodily comfort
bodily discharge
bodily grace
bodily love
bodily pleasure
bodily size
bodkin beard
body Brussels
body English
body and blood of Christ
body armor
body axis
body bag
body blight
body blow
body brace
body building
body cavity
body cell
body centrode
body check
body cloth
body clothes
body clothing
body coat
body color
body colour
body constituent
body corporate
body count
body curer
body designer
body ease
body erector
body fat
body finisher
body fluid
body former
body forth
body garment
body girth
body gripper
body harness
body heat
body height
body ill
body image
body ironer
body language
body linen
body lining
body loop
body louse
body maker
body mounter
body odor
body of Christ
body of Christians
body of advisers
body of affiliates
body of evidence
body of ideas
body of knowledge
body of law
body of learning
body of retainers
body of the crime
body of theory
body of water
body pain
body physician
body pigment
body plague
body plan
body plasm
body politic
body post
body scent
body servant
body shirt
body shop
body slam
body slave
body snatcher
body snatching
body stealing
body stocking
body suit
body surface
body track
body type
body varnish
body washer
body weight
body white
body whorl
body-breaking
body-build
body-centered
body-centred
body-guard
body-killing
body-line
body-line bowling
body-mind
body-snatching
boeuf a la bourguignonne
boeuf bourguignon
bofors gun
bog arum
bog asphodel
bog bean
bog bilberry
bog birch
bog blitter
bog blueberry
bog bull
bog bulrush
bog butter
bog cotton
bog cutting
bog deal
bog down
bog earth
bog featherfoil
bog fern
bog gale
bog garden
bog gentian
bog glede
bog grass
bog hay
bog hop
bog in
bog iron
bog iron ore
bog jumper
bog lemming
bog lime
bog manganese
bog mine
bog mold
bog moss
bog myrtle
bog nut
bog oak
bog onion
bog orchid
bog orchis
bog ore
bog peat
bog pimpernel
bog pine
bog pink
bog plant
bog rhubarb
bog rose
bog rosemary
bog rush
bog spavin
bog spruce
bog stalker
bog star
bog stitchwort
bog strawberry
bog timber
bog torch
bog trefoil
bog turf
bog violet
bog whortleberry
bog willow
bog-bred
bog-down
bog-eyed
bog-hoose
bog-iron ore
bog-rush
bog-trot
bog-trotter
bogey hole
bogey man
<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>bogey-hole</td>
</tr>
<tr>
<td>boggle-dy-botch</td>
</tr>
<tr>
<td>bogie engine</td>
</tr>
<tr>
<td>bogie roll</td>
</tr>
<tr>
<td>bogus money</td>
</tr>
<tr>
<td>bohemian bob</td>
</tr>
<tr>
<td>bohemian brethren</td>
</tr>
<tr>
<td>bohr theory</td>
</tr>
<tr>
<td>bohun upas</td>
</tr>
<tr>
<td>boil away</td>
</tr>
<tr>
<td>boil down</td>
</tr>
<tr>
<td>boil off</td>
</tr>
<tr>
<td>boil over</td>
</tr>
<tr>
<td>boil smut</td>
</tr>
<tr>
<td>boil up</td>
</tr>
<tr>
<td>boil-off</td>
</tr>
<tr>
<td>boiled dinner</td>
</tr>
<tr>
<td>boiled dressing</td>
</tr>
<tr>
<td>boiled eggs</td>
</tr>
<tr>
<td>boiled meat</td>
</tr>
<tr>
<td>boiled oil</td>
</tr>
<tr>
<td>boiled shirt</td>
</tr>
<tr>
<td>boiled sweet</td>
</tr>
<tr>
<td>boiler alarm</td>
</tr>
<tr>
<td>boiler blower</td>
</tr>
<tr>
<td>boiler cleaner</td>
</tr>
<tr>
<td>boiler compound</td>
</tr>
<tr>
<td>boiler coverer</td>
</tr>
<tr>
<td>boiler factory</td>
</tr>
<tr>
<td>boiler fitter</td>
</tr>
<tr>
<td>boiler fixer</td>
</tr>
<tr>
<td>boiler flue</td>
</tr>
<tr>
<td>boiler head</td>
</tr>
<tr>
<td>boiler horsepower</td>
</tr>
<tr>
<td>boiler inspector</td>
</tr>
<tr>
<td>boiler iron</td>
</tr>
<tr>
<td>boiler plate</td>
</tr>
<tr>
<td>boiler room</td>
</tr>
<tr>
<td>boiler scale</td>
</tr>
<tr>
<td>boiler shell</td>
</tr>
<tr>
<td>boiler shop</td>
</tr>
<tr>
<td>boiler suit</td>
</tr>
<tr>
<td>boiler tenter</td>
</tr>
<tr>
<td>boiler tube</td>
</tr>
<tr>
<td>boiler tuber</td>
</tr>
<tr>
<td>boiler-cleaning</td>
</tr>
<tr>
<td>boiler-off</td>
</tr>
<tr>
<td>boiler-out</td>
</tr>
</tbody>
</table>
boiler-testing
boiler-washing
boilermaker's hammer
boiling chip
boiling over
boiling point
boiling process
boiling spring
boiling stone
boiling water
boiling-house
boiling-point constant
boiling-water reactor
bois de vache
bois-brl
boite de nuit
bok choy
bold as a lion
bold as brass
bold conjecture
bold face
bold front
bold hand
bold ignorance
bold imagination
bold relief
bold stroke
bold-beating
bold-face
bold-faced
bold-facedly
bold-facedness
bold-following
bold-looking
bold-minded
bold-spirited
boldo family
boletic acid
boll hull
boll rot
boll weevil
bollard timber
bollix up
bollixed up
bolly cotton
bolo punch
bolo-bolo
bologna sausage
bolster plate
bolster up
bolt action
bolt auger
bolt boat
bolt chisel
bolt down
bolt forger
bolt from the blue
bolt hole
bolt hook
bolt in
bolt knife
bolt maker
bolt of lightning
bolt out of the blue
bolt rope
bolt strake
bolt the door
bolt threader
bolt upright
bolt upsetter
bolt-action
bolt-action rifle
bolt-cutting
bolt-forging
bolt-head
bolt-hole
bolt-pointing
bolt-rope
bolt-shaped
bolt-threading
bolt-turning
bolter-down
bolter-up
bolters-down
bolters-up
bolting cloth
bolting house
bolting hutch
bolting tub
bolus alba
bomah nut
bomahnut oil
bomb bay
bomb calorimeter
bomb ketch
bomb lance
bomb out
bomb plane
bomb rack
bomb release
bomb run
bomb shelter
bomb site
bomb thrower
bomb tube
bomb vessel
bomb-ketch
bomb-proof
bomb-shell
bomb-throwing
bombe glacee
bombe glacee
bon appetit
bon chretien
bon gre mal gre
bon jour
bon mot
bon soir
bon ton
bon vivant
bon viveur
bon voyage
bon-accord
bon-bon
bon-ton
bon-vivant
bona activa
bona fide
bona fide holder
bona fide purchaser
bona fideness
bona fides
bona roba
bona vacantia
bona-fide
bona-roba
bonace tree
bonaci arara
bonaci cardenal
bonaci gato
bonadventure mast
bonadventure mizzen
bonae fidei
bonaventure mast
bonaventure mizzen
bonbon spoon
bond anticipation note
bond coat
bond course
bond crowd
bond debt
bond issue
bond of matrimony
bond paper
bond servant
bond service
bond timber
bond washing
bond-land
bond-servant
bonded warehouse
bonded whiskey
bonding electron
bonds of harmony
bonduc nut
bone ash
bone bed
bone black
bone bleacher
bone boiler
bone breccia
bone brown
bone cartilage
bone carver
bone cell
bone char
bone charcoal
bone china
bone conduction
bone corpuscle
bone crusher
bone cutter
bone dust
bone earth
bone fat
bone forceps
bone glass
bone grinder
bone heap
bone house
bone idle
bone jack
bone lace
bone meal
bone mill
bone of contention
bone of my bones
bone oil
bone pain
bone phosphate
bone pitch
bone plombe
bone polisher
bone porcelain
bone pot
bone precipitate
bone shark
bone sorter
bone spavin
bone spirit
bone tallow
bone tankage
bone tar
bone to pick
bone turquoise
bone up
bone waste
bone whale
bone white
bone yard
bone-ace
bone-breaking
bone-bred
bone-bruising
bone-carving
bone-chilling wind
bone-crushing
bone-dry
bone-dryness
bone-eater
bone-grinding
bone-hard
bone-idle
bone-lace
bone-laced
bone-lazy
bone-piercing
bone-rotting
bone-setter
bone-tired
bone-weary
bone-white
bone-wort
bonehead into it
bonehead play
bonehead trick
bongo drum
bonheur-du-jour
bonheurs-du-jour
bonne amie
bonne bouche
bonne foi
bonne nuit
bonnes amies
bonnes bouches
bonnet glass
bonnet gourd
bonnet grass
bonnet laird
bonnet limpet
bonnet macaque
bonnet monkey
bonnet pepper
bonnet piece
bonnet rouge
bonnet shark
bonnet shell
bonnet skate
bonnet top
bonnet-headed
bonnethead shark
bonnets rouges
book isinglass
book jacket
book knowledge
book learning
book list
book lore
book louse
book lung
book machine
book madness
book manufacturing
book match
book muslin
book name
book notice
book of account
book of common prayer
book of fate
book of hours
book of original entry
book of verse
book out
book packet
book palm
book part
book post
book postage
book printer
book printing
book production
book profit
book publisher
book publishing
book review
book reviewer
book reviewing
book salesman
book scorpion
book size
book society
book stamp
book stitcher
book support
book table
book tile
book token
book tray
book truck
book value
book wagon
book-case
book-craft
book-fed
book-fell
book-flat
book-folder
book-keeper
book-keeping
book-latin
book-leaf trachea
book-learned
book-learning
book-lined
book-lore
book-loving
book-maker
book-match
book-minded
book-plate
book-read
book-sewer
book-sewing
book-stealer
book-stitching
book-taught
book-ways
book-wing
book-wise
book-work
book-worm
booking agent
booking clerk
booking hall
booking office
bookish person
booklet leaf
booklet pane
books of account
bookstall keeper
boolean algebra
boom brace
boom foresail
boom hoist
boom iron
boom jigger
boom mainsail
boom pole
boom rat
boom sail
boom shot
boom stay
boom tackle
boom town
boom vang
boom yard
boom-and-bust
boom-ended
booming economy
booming market
boon companion
boon companionship
boon day
boon earth
boon loaf
boon work
boost your pay
booster amplifiers
booster battery
booster charge
booster dose
booster pump
booster rocket
booster rocket unit
booster shot
booster stations
booster unit
boot camp
boot cleaner
boot closer
boot cloth
boot crimp
boot dressing
boot hill
boot hook
boot ironer
boot maker
boot needle
boot out
boot polish
boot polisher
boot powder
boot socks
boot spur
boot stretcher
boot the
boot top
boot tree
boot-cleaning
boot-hale
boot-leg
boot-topping
booted and spurred
booting out
bootlace worm
bootle-blade
bootleg liquor
bootleg play
bootleg sucker
bootless errand
boots and all
boots and saddles
booze fighter
booze up
booze-up
bor-
borage family
borax bead
borax carmine
borax glass
borax honey
borax pentahydrate
borax usta
bord gate
bord-and-pillar
bord-land
bord-lode
bordeaux mixture
border ballads
border ground
border irrigation
border light
border line
border on
border pen
border service
border stone
border terrier
border upon
border world
border-land
bordering on
bordering upon
boron carbide
boron counter
boron nitride
borosilicic acid
borough council
borough english
borough reeve
borough-English
borough-english
borough-holder
borough-man
borough-master
borough-reeve
borough-town
borracha entrefina
borracha fina
borracha grossa
borrow pit
borrow the loan of
borrow trouble
borrowed plumes
borrowed stock
borrowed time
borrowed word
borrower's card
borrowing capacity
borrowing days
borrowing power
borsch circuit
borscht belt
borscht circuit
borstal boy
borstal institution
borstal school
boskop man
bosom bar
bosom buddy
bosom friend
bosom friendship
bosom ironer
bosom knee
bosom maker
bosom making
bosom piece
bosom plate
bosom staff
bosom-breathing
bosom-deep
bottle jaw
bottle kiln
bottle labeler
bottle labeling
bottle maker
bottle mold
bottle molder
bottle nose
bottle opener
bottle ore
bottle palm
bottle party
bottle pool
bottle rinser
bottle screw
bottle slider
bottle soaker
bottle sterilizer
bottle stopper
bottle sucker
bottle swallow
bottle tit
bottle tree
bottle turning
bottle up
bottle washer
bottle-assed type
bottle-bellied
bottle-blowing
bottle-brush
bottle-brush buckeye
bottle-butted
bottle-capping
bottle-carrying
bottle-cleaning
bottle-corking
bottle-fed
bottle-feed
bottle-filling
bottle-gas stove
bottle-green
bottle-head
bottle-holder
bottle-nose
bottle-nosed
bottle-nosed dolphin
bottle-nosed whale
bottle-o
bottle-rinsing
bottle-shaped
bottle-soaking
bottle-sterilizing
bottle-tailed
bottle-tight
bottle-washer
bottle-washing
bottled gas
bottled in bond
bottlenose dolphin
bottlenose oil
bottlenose whale
bottling up
bottling works
bottom boards
bottom bolt
bottom canch
bottom disease
bottom dog
bottom dollar
bottom drawer
bottom fermentation
bottom gear
bottom glade
bottom grass
bottom heat
bottom house
bottom ice
bottom land
bottom line
bottom line, the
bottom of the barrel
bottom of the heart
bottom of the sea
bottom on
bottom out
bottom plate
bottom price
bottom rake
bottom rot
bottom round
bottom sawyer
bottom side
bottom side up
bottom stope
bottom tool
bottom up
bottom water
bottom waters
bottom yeast
bottom-dump bucket
bottom-road bridge
bottom-set
bottoming hole
bottoming out
bottoming tap
bottomless depths
bottomless pit
bottomless purse
bottomry bond
bottoms up
bottoms up!
botulismus toxin
boudoir cap
boudoir chair
boudoir dress
boudoir photograph
bough-pot
bought note
bought ready-to-wear
bougie decimale
bouillon cube
bouillon cup
bouillon spoon
bouillotte lamp
bouillotte table
boulder bast
boulder belt
boulder clay
boulder fern
boulder flat
boulder gravel
boulder raspberry
boulder train
boulder-stone
boulder-strewn
bouldering stone
boulevard stop
bounce back
bounce drill
bounce upon
bounced check
bouncing Bess
bouncing Bet
bouncing baby
bouncing bess
bouncing bet
bouncing check
bouncing-pin indicator
bound and determined
bound back
bound bailiff
bound book
bound charge
bound electron
bound foot
bound form
bound morpheme
bound over
bound to
bound up
bound up in
bound up with
bound variable
boundary condition
boundary layer
boundary light
boundary line
boundary point
boundary rider
boundary stone
boundary value problem
boundary-marking
bounden duty
bounden to
bounding bow
boundless pit
bounty hunter
bounty jumper
bounty jumping
bounty-fed
bouquet garni
bouquet larkspur
bouquets garnis
bourbon and branch water
bourbon rose
bourbon whiskey
bourbon whisky
bourdon lace
bourgeois gentilhomme
bourgeois taste
bouton pearl
bouts-rimes
bovine animal
bovine trichomoniasis
bovine vaccine
bovver boots
bow and arrow
bow and scrape
bow back
bow bearer
bow bells
bow brace
bow cap
bow chaser
bow chasing
bow collector
bow compass
bow divider
bow down
bow down and worship
bow down before
bow drill
bow dye
bow fast
bow file
bow front
bow hair
bow hand
bow legs
bow light
bow line
bow maker
bow net
bow oar
bow out
bow pen
bow pencil
bow pulpit
bow rudder
bow saw
bow stiffener
bow submission
bow the head
bow thistle
bow tie
bow to
bow to your will
bow trolley
bow wave
bow weight
bow window
bow your head
bow-and-quarter line
bow-back
bow-back chair
bow-backed
bow-beaked
bow-bearer
bow-bell
bow-bending
bow-compass
bow-draught
bow-dye
bow-dyer
bow-hand
bow-houghd
bow-iron
bow-legged
bow-less
bow-necked
bow-net
bow-shaped
bow-spring compass
bow-street
bow-string
bow-window
bow-windowed
bow-wow
bowed down
bowed-down
bowel movement
bowel-hive grass
bowels of compassion
bowels of mercy
bowels of the earth
bower anchor
bower plant
bower-bird
bowhead bird
bogie knife
bowie-knife
bowing acquaintance
bowing and scraping
bowing down
bowing stone
bowl a bosey
bowl a googly
bowl a wrong 'un
bowl along
bowl down
bowl game
bowl over
bowl spirit
bowl-shaped
bowled down
bowled over
bowline bridle
bowline cringle
bowline knot
bowling alley
bowling average
bowling ball
bowling crease
bowling green
bowling on the green
bowling stump
bowman's root
bows on
bows under
bowsprit bed
bowsprit cap
bowsprit shroud
bowstring beam
bowstring bridge
bowstring creeper
bowstring girder
bowstring hemp
bowstring roof
bowstring truss
bowtie antenna
bowwow theory
box barberry
box barrage
box barrow
box beam
box bed
box bill
box bolt
box bridge
box brier
box buggy
box caisson
box calf
box camera
box canyon
box chisel
box chronometer
box chuck
box clip
box cloth
box coat
box column
box cooper
box coot
box cornice
box couch
box coupling
box coverer
box crab
box cutter
box day
box dolly
box drain
box dresser
box edging
box elder
box end
box family
box frame
box front
box gauge
box girder
box grave
box green
box groove
box gutter
box hardening
box heading
box hedge
box hinging
box holder
box holly
box hook
box house
box huckleberry
box in
box iron
box jig
box junction
box keel
box key
box kite
box level
box lid
box loom
box maker
box metal
box midge
box myrtle
box nail
box nailer
box nut
box oak
box of cigarettes
box of cigars
box off
box office
box on the ear
box opener
box oyster
box pew
box plait
box plaiter
box plaeting
box pleat
box poison
box press
box respirator
box room
box scald
box scene
box score
box seat
box set
box settle
box sextant
box shook
box shop
box shutter
box sill
box sleigh
box spanner
box spring
box springs
box stair
box stall
box staple
box stew
box stoop
box stove
box strap
box stretcher
boxing glove
boxing gloves
boxing match
boxing ring
boxing shutter
boxing weight
boxing-day
boxing-in
boy bishop
boy friend
boy oh boy
boy scout
boy wonder
boy's love
boy-meets-girl
boyar palm
boyish bob
boys' haircuts
boys' room
brab tree
brace a yard fore and aft
brace and bit
brace bit
brace block
brace box
brace bumpkin
brace comb
brace game
brace head
brace in
brace jack
brace molding
brace pendant
brace piece
brace root
brace table
brace up
brace wire
brace wrench
brace yourself
braced arch
braced frame
bracelet tie
bracelet wood
brachialis anticus
brachio-
brachio-cephalic
brachisto-
brachy-
bracken sickness
bracket capital
bracket clock
bracket crab
bracket foot
bracket fungus
bracket plate
bracket saw
bracket trail
bracketed blenny
bract scale
brad punch
brady-
brag about
brag yourself up
braid bonnet
braid fern
braid wool
braided rope
braided stream
brain box
brain cactus
brain case
brain cavity
brain cell
brain cells
brain child
brain coral
brain damage
brain death
brain disease
brain drain
brain fag
brain fever
brain nerve
brain power
brain sand
brain specialist
brain stem
brain storm
brain surgery
brain teaser
brain trust
brain truster
brain tumor
brain twister
brain vesicle
brain wash
brain washing
brain wave
brain waves
brain-begot
brain-born
brain-breaking
brain-bred
brain-child
brain-cracked
brain-crazed
brain-crumpled
brain-damaged
brain-fever bird
brain-fevered
brain-fretting
brain-injured
brain-purging
brain-smoking
brain-spattering
brain-spun
brain-strong
brain-teaser
brain-tire
brain-trust
brain-wash
brain-washing
brains trust
brainstone coral
brake assembler
brake band
brake bar
brake beam
brake block
brake chain
brake chute
brake clevis
brake compartment
brake cylinder
brake drum
brake examiner
brake fitter
brake fluid
brake gear
brake hanger
brake harrow
brake horsepower
brake hose
brake lever
brake light
brake lining
brake maker
brake meter
brake operator
brake parachute
brake pedal
brake pipe
brake power
brake repairer
brake rod
brake shoe
brake spring
brake stripper
brake tester
brake valve
brake van
brake wheel
brake-testing
brake-van
braking parachute
braking power
braking ratio
bramble finch
bramble rose
bramble shark
bramble worm
bran boil
bran drench
bran duster
bran mash
bran steep
bran tub
bran-deer
bran-new
branch bank
branch banking
branch bar
branch circuit
branch cut
branch depot
branch gap
branch grass
branch herring
branch line
branch mark
branch of knowledge
branch of learning
branch of service insignia
branch of study
branch of the service
branch off
branch office
branch officer
branch out
branch point
branch trace
branch water
branch wilt
branch-bearing
branch-building
branch-charmed
branch-climber
branch-embellished
branch-rent
branch-strewn
branched chain
branches of
branches of medicine
branchial arch
branchial cleft
branchial groove
branching off
branching out
branchio-
branchiostegal ray
brand goose
brand iron
brand-goose
brand-mark
brand-new
brand-newness
brand-spanking new
branding iron
brandy Alexander
brandy and soda
brandy ball
brandy bottle
brandy butter
brandy mazzard
brandy mint
brandy smash
brandy snap
brandy snifter
brandy sour
brandy-bottle
brandy-burnt
brandy-faced
brandy-pawnee
brank-new
brank-ursine
brant bird
brant fox
brant goose
brant snipe
brant-fox
bras-dessus-bras-dessous
brash bearing
brass ankle
brass band
brass buffer
brass buttons
brass choir
brass farthing
brass finisher
brass fitter
brass founder
brass hat
brass instrument
brass knuckles
brass knucks
brass molder
brass pounder
brass quintet
brass section
brass spinner
brass tacks
brass turner
brass wind
brass, the
brass-armed
brass-bold
brass-browed
brass-cheeked
brass-colored
brass-eyed
brass-finishing
brass-fitted
brass-footed
brass-fronted
brass-handled
brass-headed
brass-hilted
brass-hooved  
brass-lined  
brass-melting  
brass-mounted  
brass-plated  
brass-renting  
brass-shapen  
brass-smith  
brass-tipped  
brass-visaged  
brass-wind instrument  
brass-working  
brattice cloth  
brave face  
brave front  
brave person  
brave show  
brave west winds  
brave-horsed  
brave-looking  
brave-minded  
brave-sensed  
brave-showing  
brave-souled  
brave-spirited  
brave-spiritedness  
braze-jointed  
brazen boldness  
brazen it out  
brazen law of wages  
brazen out  
brazen through  
brazen-barking  
brazen-browed  
brazen-clawed  
brazen-colored  
brazen-face  
brazen-faced  
brazen-facedly  
brazen-fisted  
brazen-floored  
brazen-footed  
brazen-fronted  
brazen-gated  
brazen-headed  
brazen-hilted  
brazen-hoofed  
brazen-imaged
brazil nut
brazing alloy
bre kekekek
breach of contract
breach of faith
breach of friendship
breach of law
breach of privilege
breach of promise
breach of public trust
breach of the peace
breach of trust
breach the law
bread and butter
bread and water
bread and wine
bread bag
bread baker
bread beetle
bread bin
bread corn
bread crumb
bread crumber
bread crust
bread cutter
bread flour
bread grain
bread knife
bread line
bread maker
bread mold
bread mould
bread pan
bread plate
bread pudding
bread rack
bread sauce
bread slicer
bread stick
bread stuff
bread toaster
bread tray
bread tree
bread wheat
bread wrapper
bread-and-butter
bread-and-butter model
bread-and-butter pickle
bread-baking
bread-basket
bread-corn
bread-crumb
bread-crumbling
bread-crust bomb
bread-cutting
bread-eating
bread-faced
bread-fruit
bread-liner
bread-stitch
bread-stuff
bread-tree
bread-winner
bread-wrapping
breadth extreme
breadth index
breadth molded
break Priscian's head
break a lance with
break a strike
break and entry
break away
break back
break bean
break boundary
break bounds
break bread
break bread with
break bulk
break camp
break cover
break down
break down and confess
break down and cry
break even
break faith
break flour
break for
break forth
break free
break front
break ground
break in
break in on
break in the market
break in upon
break into
break into a smile
break into music
break into pieces
break into smithereens
break iron
break it off
break it to
break it up
break jail
break jaws
break joint
break lathe
break line
break loose
break no bones
break of
break of day
break of serve Tennis
break off
break off combat
break on the wheel
break open
break out
break out a flag
break out ballast
break out in a rash
break out in a sweat
break out the anchor
break out with
break pin
break point
break prison
break sheer
break shock
break silence
break step
break the back of
break the back of something
break the bank
break the charm
break the fall
break the habit
break the ice
break the law
break the neck of
break the news
break the pattern
break the peace
break the record
break the seal
break the sound barrier
break the spell
break the thread
break the trail
break through
break to harness
break to pieces
break to smithereens
break up
break van
break water
break wind
break with
break with the past
break you up
break your back
break your bonds
break your chains
break your eyes away
break your fast
break your fetters
break your heart
break your heart over
break your neck
break your promise
break your word
break yourself away
break-
break-back
break-circuit
break-down
break-even
break-even point
break-front
break-in
break-neck
break-off
break-promise
break-through
breast board
breast collar
breast cut
breast cylinder
breast drill
breast fast
breast feathers
breast harness
breast hoe
breast hole
breast in
breast kerchief
breast knee
breast laws
breast line
breast milk
breast molding
breast of lamb
breast of veal
breast off
breast pang
breast pocket
breast pump
breast roll
breast stoping
breast strap
breast stroke
breast tea
breast the current
breast the flood
breast the tide
breast the wave
breast timber
breast wall
breast wheel
breast-beam
breast-beater
breast-beating
breast-board
breast-deep
breast-fed
breast-feed
breast-feeding
breast-high
breast-hook
breast-plate
breast-plough
breast-rending
breast-wheel
breasting knife
breastwork log
breath glide
breath group
breath of air
breath of life
breath of your nostrils
breath test
breath-bereaving
breath-blown
breath-giving
breath-stopping
breath-sucking
breath-tainted
breath-taking
breathe again
breathe down your neck
breathe easier
breathe easily
breathe easy
breathe fire and fury
breathe freely
breathe hard
breathe heavily
breathe in
breathe life into
breathe more freely
breathe new life into
breathe out
breathe the air of freedom
breathe vengeance
breathe your last
breather pipe
breathing apparatus
breathing capacity
breathing hole
breathing mark
breathing place
breathing pore
breathing space
breathing spell
breathing stress
breathing time
breathless adoration
breathless awe
breathless impatience
breathless wonder
breathy voice
bred in the bone
bred-in-the-bone
breech action
breech birth
breech bolt
breech delivery
breech mechanism
breech piece
breech pin
breech plug
breech screw
breech sight
breech-loader
breech-loading
breechblock plunger
breeches buoy
breeches money
breeches part
breeches pipe
breeching body
breeching loop
breeching strap
breed in and in
breed true
breeder reactor
breeder tulip
breeding ground
breeding place
breeding plumage
breeding sore
breeds of
breeds of cats
breeds of cattle
breeds of chickens
breeds of dogs
breeds of horses
breeds of sheep
breeds of swine
breeze along
breeze block
breeze box
breeze burner
breeze carrier
breeze concrete
breeze filler
breeze fly
breeze in
breeze into
breeze loader
breeze oven
breeze picker
breeze plant
breeze riddler
breeze tallyman
breeze up
breeze washer
breeze wheeler
breeze-borne
breeze-fanned
breeze-lifted
breeze-shaken
breeze-swept
breeze-wooing
brent goose
brent-new
brepho-
brest summer
bret-full
breu-
breve rest
brevet d'invention
brevi manu
brevi-
brewer's yeast
briar pipe
briar-hopper
bribe broker
bribe money
bribe-devouring
bribe-free
bribery and corruption
bribery oath
bric-a-brac
bric-a-brackery
brick arch
brick archer
brick ax
brick beam
brick burner
brick carrier
brick cheese
brick chipper
brick chisel
brick clay
brick cutter
brick drier
brick dust
brick earth
brick factory
brick hammer
brick hod
brick machine
brick machinist
brick mold
brick molder
brick nog
brick nogging
brick oven
brick paver
brick pointer
brick press
brick presser
brick red
brick sorter
brick stamp
brick stitch
brick tea
brick trimmer
brick trowel
brick wall
brick wheeler
brick-barred
brick-bound
brick-building
brick-built
brick-burning
brick-colored
brick-cutting
brick-drying
brick-dust
brick-dust deposit
brick-earth
brick-field
brick-fronted
brick-grinding
brick-hemmed
brick-kiln
brick-nogged
brick-paved
brick-red
brick-testing
brick-walled
bricklayer's hammer
bridle bar
bridle bridge
bridle cable
bridle chain
bridle gate
bridle hand
bridle iron
bridle joint
bridle part
bridle path
bridle port
bridle rein
bridle road
bridle rod
bridle stricture
bridle tape
bridle trail
bridle up
bridle way
bridle wire
bridle-wise
brief bag
brief case
brief of title
brief span
brief success
brier bamboo
brier bush
brier rose
brier stitch
brig-rigged
brigade major
brigadier general
brigadier generals
bright and early
bright and fair
bright and shining
bright and sunny
bright color
bright days
bright diffuse nebula
bright eyes
bright idea
bright light
bright lights
bright outlook
bright prospect
bright rose
bright sentinels of the sky
bright side
bright smile
bright thought
bright wanderer
bright with promise
bright wool
bright young man
bright's disease
bright-bloomed
bright-cheeked
bright-colored
bright-dyed
bright-eyed
bright-eyed and bushy-tailed
bright-faced
bright-featured
bright-field
bright-flaming
bright-haired
bright-headed
bright-hued
bright-leaved
bright-line spectrum
bright-minded
bright-robed
bright-spotted
bright-striped
bright-studded
bright-tinted
bright-witted
brighten up
brightline spectrum
brightness equation
brightness temperature
brill's disease
brilliant cut
brilliant idea
brilliant light
brilliant success
brilliant-cut
brim over
brimming eyes
brimstone acid
brimstone butterfly
brimstone yellow
brindled gnu
brine fly
brine gauge
brine pan
brine pit
brine pump
brine pumper
brine shrimp
brine worm
brine-bound
brine-cooler
brine-cooling
brine-dripping
brine-pumping
brine-soaked
brinell hardness
brinell number
bring a case before the bar
bring a case before the court
bring about
bring about a detente
bring accusation
bring action against
bring around
bring back
bring back to the memory
bring bad luck
bring balm to your sorrow
bring before
bring before the public
bring by the lee
bring by the wind
bring charges
bring crashing down
bring down
bring down about your ears
bring down around your ears
bring down the house
bring down the sun
bring down upon
bring down upon one
bring down upon you
bring down upon your head
bring down upon yourself
bring face to face with
bring forth
bring forward
bring glad tidings
bring home the bacon
bring home to
bring in
bring in a verdict
bring in a verdict of not guilty
bring in an indictment
bring in question
bring in the wind
bring into analogy
bring into being
bring into comparison
bring into court
bring into discredit
bring into existence
bring into focus
bring into play
bring into question
bring into relation with
bring into the limelight
bring into the open
bring into the wind
bring into the world
bring into view
bring low
bring near
bring off
bring off the wind
bring on
bring on the wind
bring out
bring out in bold relief
bring out in high relief
bring out in strong relief
bring over
bring pressure to bear upon
bring reason to bear
bring round
bring shame upon
bring suit
bring the anchor home
bring the mind to bear upon
bring through
bring to
bring to a happy issue
bring to a head
bring to a stand
bring to a standstill
bring to a stop
bring to account
bring to an end
bring to an understanding
bring to attention
bring to bay
bring to bear
bring to bear upon
bring to birth
bring to book
bring to completion
bring to effect
bring to fruition
bring to justice
bring to life
bring to light
bring to maturity
bring to mind
bring to naught
bring to nothing
bring to notice
bring to nought
bring to pass
bring to reason
bring to recollection
bring to ruin
bring to tears
bring to terms
bring to test
bring to the bar
bring to the block
bring to the boiling point
bring to the fore
bring to the front
bring to the gallows
bring to trial
bring to view
bring to your notice
bring to your senses
bring together
bring trouble
bring tumbling down
bring under the hammer
bring under your notice
bring up
bring up by hand
bring up for investigation
bring up short
bring up the rear
bring up to date
bring up to date
bring upon
bring upon yourself
bring word
bring you back to earth
bring you down
bring you to your knees
bring you up short
bring-and-buy sale
bringer-up
bringing back to earth
bringing forth
bringing in
bringing into disorder
bringing into question
bringing of charges
bringing out
bringing to book
bringing to fruition
bringing to light
bringing to the ground
bringing together
bringing-up
brise-soleil
brisk market
brisket disease
bristle cell
bristle fern
bristle grass
bristle moss
bristle picker
bristle rat
bristle up
bristle with
bristle worm
bristle-faced
bristle-grass
bristle-pointed
bristle-pointed oat
bristle-stalked
bristle-tailed
bristle-thighed
bristle-thighed curlew
bristle-toothed
bristlecone fir
bristlecone pine
bristlewort family
bristling with arms
bristly foxtail grass
bristly sarsaparilla
britannia metal
britannia ware
british english
brittany spaniel
brittle as glass
brittle fern
brittle star
brittle-star
brix scale
broach post
broach spire
broach to
broach turner
broad accent
broad arrow
broad as the world
broad awake
broad bean
broad church
broad comedy
broad day
broad daylight
broad gage
broad gauge
broad glass
broad grin
broad hatchet
broad hint
broad humor
broad in the beam
broad jump
broad jumper
broad lines
broad mind
broad of beam
broad on the beam
broad on the bow
broad on the quarter
broad pendant
broad reach
broad seal
broad side foremost
broad spectrum
broad-arrow
broad-axe
broad-backed
broad-based
broad-beamed
broad-bean weevil
broad-billed
broad-bladed
broad-blown
broad-bodied
broad-bosomed
broad-bottomed
broad-boughed
broad-bowed
broad-breasted
broad-brim
broad-brimmed
broad-built
broad-chested
broad-chinned
broad-crested
broad-eared
broad-eyed
broad-faced
broad-flapped
broad-fronted
broad-gage
broad-gaged
broad-gauge
broad-gauge person
broad-gauged
broad-guage
broad-handed
broad-headed
broad-hoofed
broad-horned
broad-jump
broad-leafed
broad-leaved
broad-leaved bottle tree
broad-leaved maple
broad-limbed
broad-lipped
broad-listed
broad-margined
broad-minded
broad-minded person
broad-mindedly
broad-mindedness
broad-mouthed
broad-nosed
broad-piece
broad-ribbed
broad-roomed
broad-set
broad-shouldered
broad-skirted
broad-souled
broad-spectrum
broad-spectrum antibiotic
broad-spectrum drug
broad-spoken
broad-spreading
broad-sterned
broad-striped
broad-tailed
broad-thighed
broad-tired
broad-toed
broad-toothed
broad-wayed
broad-wheeled
broad-winged
broad-winged hawk
broadbill dipper
broadcast band
broadcast channel
broadcast drama
broadcast journalism
broadcast loop
broadcasting regulation
broaden the mind
broadening the mind
broadleaf tree
broadloom carpet
broadly speaking
broadside aspect
broadside ballad
broadside on
broadtail cloth
broccoli brown
brock-faced
broderie anglaise
brogue hole
broil n
broiler house
broiling sun
broken accents
broken arch
broken chord
broken circuit
broken coal
broken color
broken dose
broken fortune
broken ground
broken heart
broken home
broken in
broken line
broken lot
broken marriage
broken mirror
broken off
broken pediment
broken record
broken speech
broken thread
broken to harness
broken tones
broken voice
broken water
broken wind
broken-arched
broken-backed
broken-bellied
broken-check
broken-down
broken-ended
broken-footed
broken-fortuned
broken-handed
broken-headed
broken-hearted
broken-heartedly
broken-heartenedness
broken-hipped
broken-hoofed
broken-in
broken-kneed
broken-legged
broken-minded
broken-mouthed
broken-nosed
broken-paced
broken-record
broken-shanked
broken-spirited
broken-winded
broken-winged
broker's agent
broker's loan
brokerage house
brokerage office
brolly-hop
brom-
brome grass
bromic acid
bromide paper
bromine pentafluoride
bromine water
bromo-
bromoil process
bromoil transfer
bronch-
bronchial asthma
bronchial pneumonia
bronchial tube
bronchial tubes
bronchio-
broncho-ronco grass
bronx cheer
bronze age
bronze caster
bronze diabetes
bronze medal
bronze smelter
bronze star medal
bronze-bearing
bronze-bound
bronze-brown
bronze-casting
bronze-clad
bronze-colored
bronze-covered
bronze-foreheaded
bronze-gilt
bronze-gleaming
bronze-golden
bronze-haired
bronze-purple
bronze-shod
bronze-winged
bronze-yellow
bronzed diabetes
broom sedge
broom straw
broom tea tree
broom toadflax
broom tops
broom tree
broom twine
broom wattle
broom-leaved
broom-sewing
broomcorn millet
broomrape family
broomstick marriage
brother-german
brother-in-arms
brother-in-law
brotherly love
brothers under the skin
brothers-in-law
brougham-landaulet
brought about
brought down
brought in from nowhere
brought low
brought to notice
brought to your knees
brow ague
brow antler
brow point
brow tine
brow-bent
brow-wreathed
brown Bess
brown Betty
brown alga
brown algae
brown as a berry
brown bagging
brown bear
brown belt
brown bent
brown bess
brown betty
brown bill
brown bread
brown bullhead
brown butter
brown canker
brown coal
brown coat
brown creeper
brown george
brown gravy
brown hackle
brown heart
brown hematite
brown hyena
brown lung disease
brown madder
brown man
brown of dusk
brown off
brown out
brown race
brown rat
brown recluse spider
brown rice
brown rot
brown sauce
brown snake
brown soap
brown spot
brown stem rot
brown study
brown sugar
brown swiss
brown thrasher
brown thrush
brown trout
brown-armed
brown-backed
brown-banded
brown-barreled
brown-bearded
brown-berried
brown-colored
brown-complexioned
brown-eyed
brown-eyed Susan
brown-faced
brown-green
brown-haired
brown-headed
brown-leaved
brown-locked
brown-nose
brown-nosed
brown-noser
brown-nosing
brown-purple
brown-red
brown-roofed
brown-sailed
brown-skinned
brown-sleeve
brown-spotted
brown-state
brown-stemmed
brown-strained
brown-tail moth
brown-tailed
brown-washed
browned off
browned-off
brownian motion
brownian movement
browning solution
browning trowel
brownish-red
brownish-yellow
brownstone front
browsing room
bruit about
bruited about
bruiting about
brumbo pulley
brunch coat
brunch-word
brush ape
brush apple
brush aside
brush ax
brush back
brush borer
brush boring
brush box
brush breaker
brush bronzewing
brush broom
brush by
brush case
brush cherry
brush coating
brush cut
brush deal
brush deer
brush discharge
brush drag
brush driller
brush drilling
brush fashioner
brush fiber
brush filler
brush fire
brush hand
brush harrow
brush heap
brush holder
brush hook
brush kangaroo
brush keeper
brush maker
brush myrtle
brush off
brush on paint
brush ore
brush pile
brush polisher
brush puller
brush rabbit
brush sawyer
brush scythe
brush shunt
brush stick
brush stock
brush trimmer
brush turkey
brush turner
brush up
brush up on
brush varnisher
brush wheel
brush wolf
brush yoke
brush-breaking
brush-fire
brush-footed
brush-footed butterfly
brush-off
brush-shaped
brush-tail
brush-tailed
brush-tongued
brush-treat
brusher-off
brusher-up
brushfire war
brussels carpet
brussels lace
brussels sprout
brut champagne
brut concrete
brutal act
brutal fact
brutal task
brute creation
brute force
brute matter
brute strength
bruzz iron
bry-
brys-
bton de commandement
buaze fiber
bubble and squeak
bubble bath
bubble canopy
bubble car
bubble chamber
bubble dance
bubble dancer
bubble glass
bubble gum
bubble hood
bubble nest
bubble over
bubble sextant
bubble shell
bubble tower
bubble tube
bubble up
bubble-and-squeak
bubble-bow
bubbling over
bubbly-jock
bubonic plague
buccinator novi temporis
bucco camphor
buchu camphor
buchu oil
buck ague
buck and wing
buck basket
buck bean
buck fat
buck fever
buck finch
buck fleece
buck for
buck grass
buck in
buck knee
buck law
buck moth
buck off
buck passer
buck private
buck rabbit
buck rake
buck sail
buck scraper
buck sheet
buck slip
buck thistle
buck up
buck's horn plantain
buck's turn
buck's-horn
buck-and-wing
buck-bean
buck-bean family
buck-eye
buck-eyed
buck-horn
buck-hound
buck-jump
buck-mast
buck-one
buck-passing
buck-shot
buck-stall
buck-tooth
buck-toothed
buck-washing
bucker-up
bucket about
bucket bench
bucket brigade
bucket carrier
bucket conveyer
bucket down
bucket dredge
bucket hook
bucket hooker
bucket ladder
bucket maker
bucket orchid
bucket out
bucket pump
bucket rope
bucket seat
bucket shop
bucket snapper
bucket up
bucket well
bucket wheel
bucket-eyed
bucket-shaped
bucket-shop
bucketeye rot
buckhorn brake
buckhorn plantain
buckhorn sight
bucking board
bucking bronco
bucking hammer
bucking kier
bucking plate
buckle bobber
buckle burnisher
buckle chain
buckle coverer
buckle down
buckle down to
buckle finisher
buckle forger
buckle into
buckle maker
buckle mounter
buckle on your armor
buckle presser
buckle rollerer
buckle stamper
buckle to
buckle tongue
buckle tonguer
buckle under
buckle yourself
buckle-beggar
buckler fern
buckler maker
buckler mustard
buckler play
buckler player
buckler-fern
buckler-headed
buckler-shaped
bucks-beard
buckshot pattern
buckthorn brown
buckthorn family
buckwheat cake
buckwheat coal
buckwheat family
buckwheat flour
buckwheat sage
buckwheat tree
buckwheat vine
bucolic caesura
bud brush
bud from
bud grafting
bud gum
bud moth
bud mutation
bud rot
bud sage
bud scale
bud sport
bud stick
bud variation
bud variety
bud vase
buddy sap
buddy system
buddy up
buddy-boy
buddy-buddy
budge bachelor
budge barrel
budge-barrel
budget account
budget items
budget of news
budget plan
budget prices
buenas noches
buenos dias
buff Orpington
buff coat
buff leather
buff nor stye
buff stick
buff top
buff wheel
buff, the
buff-backed
buff-bare
buff-breasted
buff-citrine
buff-colored
buff-orange
buff-tipped
buff-washed
buff-yellow
buffalo apple
buffalo berry
buffalo bird
buffalo bug
buffalo bur
buffalo bush
buffalo carpet beetle
buffalo chips
buffalo cholera
buffalo cloth
buffalo clover
buffalo cod
buffalo currant
buffalo dance
buffalo disease
buffalo fish
buffalo fly
buffalo gnat
buffalo gourd
buffalo grass
buffalo jack
buffalo mange
buffalo moth
buffalo nut
buffalo pea
buffalo robe
buffalo sunfish
buffalo thorn
buffalo tree
buffalo tree hopper
buffalo wallow
buffalo weed
buffalo wolf
buffalo-headed
buffer bar
buffer beam
buffer block
buffer salt
buffer solution
buffer state
buffer therapy
buffer value
buffer zone
buffered aspirin
buffet car
buffet lunch
buffet supper
buffet the waves
buffing apparatus
buffing head
buffing wheel
bufkle duck
bufkle-headed
buflo bass
buffy coat
bug agaric
bug bomb
bug in the ear
bug juice
bug light
bug off
bug word
bug-eyed
bug-eyes
bug-juice
bug-word
burger about
burger off
burger up
buggered up
bugging machine
buggy cultivator
buggy plow
bugle call
bugle corps
bugle horn
bugle-horn
bugle-weed
bugloss cowslip
bugs on
buhl clock
build a fire
build a house of cards
build castles in the air
build in
build into
build on
build the stately rime
build up
build up a stock
build up an inventory
build your house upon a rock
build-up
builder's knot
building anchor
building and loan association
building block
building blocks
building code
building construction
building contractor
building cradle
building inspector
building iron
building law
building lease
building line
building lot
building material
building mover
building paper
building permit
building rigger
building slip
building society
building surveyor
building trade
building trades
built for comfort
built like a brick shithouse
built on sand
built-in
built-up
built-up mast
bukk-
bulb angle
bulb bar
bulb fly
bulb iron
bulb keel
bulb mite
bulb plate
bulb rectifier
bulb rot
bulb scale
bulb-tee
bulbo-
bulbo-urethral
bulbourethral gland
bulbous bow
bulbous buttercup
bulbous crowfoot
bulbous-rooted
bulge hoop
bulging purse
bulk large
bulk line
bulk mail
bulk modulus
bulk out
bulk up
bulk-material conveyor
bulk-pile
bulkhead deck
bulkhead in
bulkhead line
bulky color
bull account
bull apple
bull bait
bull band
bull bay
bull birch
bull bit
bull block
bull brier
bull buttercup
bull chain
bull cook
bull daisy
bull dike
bull tongue
bull train
bull trout
bull wheel
bull's nose
bull's-eye
bull's-eye lantern
bull's-eye mirror
bull's-eye rot
bull's-eye squall
bull's-eyed
bull's-eyes
bull-
bull-bait
bull-baiter
bull-baiting
bull-bearing
bull-beggar
bull-bitch
bull-bragging
bull-browed
bull-dog
bull-dose
bull-faced
bull-fight
bull-frog
bull-fronted
bull-god
bull-grip
bull-headed
bull-horn
bull-horn acacia
bull-like
bull-man
bull-mastiff
bull-mouthed
bull-necked
bull-nosed
bull-nosed bow
bull-roarer
bull-roaring
bull-run
bull-running
bull-terrier
bull-tongue
bull-tongued
bull-tonguing
bull-trout
bull-voiced
bull-whack
bull-whip
bulla tympani
bullace grape
bulldog ant
bulldog bat
bulldog clip
bulldog courage
bulldog edition
bulldog forceps
bulldog pipe
bulldog spear
bulldog tenacity
bulldog wrench
bullen nail
bullen-bullen
bullet bolt
bullet catch
bullet compass
bullet hawk
bullet maker
bullet money
bullet screw
bullet shell
bullet tree
bullet wood
bullet-head
bullet-hole
bullet-resistant glass
bulletin board
bulletproof vest
bullhead kelp
bullhead lily
bullhead shark
bulling bar
bullion balance
bullion fringe
bullion lace
bullion melter
bullion point
bullion smelter
bullion stitch
bullish market
bullish prices
bullit grape
bullnose header
bullnose step
bullnose stretcher
bullnose tool
bullock block
bullock cart
bullock heart
bullock's heart
bullock's-heart
bullshit artist
bully beef
bully tree
bully-off
bully-rock
bulrush millet
bulwark plating
bum a ride
bum around
bum steer
bum's rush
bum's rush, the
bum-
bumble-bee
bumble-puppy
bumblebee coot
bumblebee hawk moth
bumblebee root
bump against
bump ball
bump heads
bump into
bump joint
bump off
bump start
bump up
bump-off
bump-start
bumper bag
bumper beam
bumper car
bumper crop
bumper guard
bumper jack
bumper spring
bumper sticker
bumping bag
bumping hammer
bumping post
bumping race
bumping-off
bumpy ash
bun fight
bun foot
bun ochra
bunch bean
bunch evergreen
bunch grape
bunch grass
bunch light
bunch oyster
bunch peanut
bunch pink
bunch plum
bunch together
bunch up
bunch-backed
bunch-word
buncher resonator
bunchflower family
bunchy top
bunco artist
bunco game
bunco steerer
bunder boat
bundle away
bundle branch
bundle branch block
bundle browning
bundle burial
bundle of His
bundle of isoglosses
bundle off
bundle out
bundle pillar
bundle sheath
bundle up
bundle work
bundle-rooted
bundu bashing
bung start
bung up
bung-full
bungalo tent
bunghole oil
bungup and bilge-free
bunji-bunji
bunk bed
bunk chain
burble point
burd-alone
burden adjustment
burden of care
burden of expenditure
burden of proof
burden stitch
burden the memory
burden the mind
burden the mind with
burden with
burdened with debt
burdened with sorrow
burdock grass
bureau company
bureau of investigation
bureau system
bureaucratic delay
burg-bryce
burgess-ship
burgh-english
burghal-penny
burglar alarm
burglary insurance
burial at sea
burial case
burial chamber
burial customs
burial ground
burial jar
burial mound
burial peal
burial place
burial service
burial tree
burial urn
burial vault
burial yard
burial-ground
burial-place
buried in
buried in oblivion
buried in thought
buried treasure
burlesque act
burlesque queen
burlesque show
burlesque theater
burly-boned
burly-faced
burly-headed
burmannia family
burmese cat
burn a hole in your pocket
burn at the stake
burn blue
burn daylight
burn down
burn in
burn in effigy
burn in your pocket
burn off
burn on
burn out
burn the candle at both ends
burn the midnight oil
burn to
burn to a cinder
burn to ashes
burn to death
burn to the ground
burn up
burn up your mortgage
burn with curiosity
burn with love
burn you up
burn your boats
burn your bridges
burn your fingers
burn yourself out
burn-
burn-ing
burn-beat
burn-nose
burn-nose bark
burn-the-wind
burn-up
burned down
burned out
burned to the ground
burned-out
burned-over
burner gas
burner-off
burnet bloodwort
burnet clover
burnet moth
burnet rose
burnet saxifrage
burning at the stake
burning bush
burning ember
burning ghat
burning glass
burning hot
burning issue
burning mirror
burning mountain
burning oil
burning out
burning pain
burning point
burning question
burning rage
burning shame
burning spot
burning up
burning with curiosity
burning with excitement
burning-bush
burning-glass
burning-in tool
burning-wood
burnished-gold
burnishing die
burnt Italian earth
burnt Roman ocher
burnt ale
burnt almond
burnt almonds
burnt carmine
burnt cork
burnt crimson lake
burnt lake
burnt lime
burnt line
burnt ocher
burnt offering
burnt orange
burnt rose
burnt sienna
burnt umber
burnt up
burnt-child
burnt-out
burnt-umber
burnt-up
burp gun
burr chisel
burr-pump
burr-stone
burras-pipe
burrel fly
burrel shot
burrel-fly
burrel-shot
burring machine
burro deer
burro-back
burrow duck
burrow-duck
burrowing blenny
burrowing owl
burrows-town
burst forth
burst in
burst into bloom
burst into flame
burst into laughter
burst into song
burst into tears
burst like a bubble
burst like a thunderbolt
burst like a thunderclap
burst of applause
burst of laughter
burst of light
burst of rain
burst of speed
burst on the ear
burst out
burst out laughing
burst the bubble
burst upon
burst upon one
burst upon the view
burst with
burst with energy
burst with health
burst with laughter
burst-cow
bursting at the seams
bursting charge
bursting of the bubble
bursting out
bursting point
bursting strength
bursting to
bursting with happiness
bursting with health
bury the hatchet
bury the tomahawk
bury your head in the sand
bury yourself in
burying beetle
burying ground
burying place
burying-ground
burying-place
bus bar
bus boy
bus conductor
bus driver
bus girl
bus line
bus rod
bus shelter
bus stop
bush baby
bush basil
bush bean
bush broom
bush canary
bush cat
bush cinquefoil
bush clover
bush coat
bush country
bush cow
bush cranberry
bush disease
bush doe
bush dog
bush dove
bush flying
bush forest
bush fruit
bush goat
bush grape
bush hammer
bush harrow
bush hawk
bush honeysuckle
bush hook
bush house
bush huckleberry
bush jacket
bush lark
bush lawyer
bush league
bush leaguer
bush lot
bush maple
bush marrow
bush metal
bush morning-glory
bush nut
bush oak
bush oyster
bush parole
bush pea
bush pepper
bush pig
bush pilot
bush poppy
bush pumpkin
bush quail
bush rat
bush rice grass
bush robin
bush scythe
bush shrike
bush sickness
bush soul
bush swamp
bush tamarind
bush tea
bush telegraph
bush tit
bush trefoil
bush up
bush vetch
bush warbler
bush wren
bush-fighter
bush-grown
bush-haired
bush-hammer
but-and-ben
but-end
butacaine sulfate
butane lighter
butane stove
butane torch
butch haircut
butcher bird
butcher knife
butcher linen
butcher paper
butcher rayon
butcher shop
butcher's broom
butcher's meat
butcher's saw
butcher's-broom
butcher-bird
butcher-row
butea gum
butea kino
butea seed
butenedioic acid
butler's pantry
butler's sideboard
buts-and-bens
butt against
butt block
butt bolt
butt chain
butt chisel
butt cut
butt end
butt fitter
butt handler
butt haulier
butt head
butt hinge
butt in
butt joint
butt knuckle
butt leather
butt lifter
butt on
butt out
butt packer
butt plate
butt puller
butt roller
butt rot
butt saw
butt shaft
butt shooting
butt sling
butt strap
butt striker
butt weld
butt welding
butt-headed
butt-in
butt-stock
butter ale
butter basket
butter bean
butter blender
butter boat
butter carrier
butter chip
butter clam
butter color
butter cooler
butter cress
butter crock
butter cutter
butter daisy
butter dealer
butter dipper
butter dish
butter dock
butter duck
butter firkin
butter grinder
butter kit
butter knife
butter maker
butter merchant
butter mold
butter muslin
butter of arsenic
butter of zinc
butter oil
butter packer
butter pat
butter pear
butter pick
butter plate
butter plum
butter print
butter roller
butter salve
butter sauce
butter server
butter shop
butter spreader
butter tooth
butter tree
butter tub
butter up
butter weight
butter yellow
butter your bread on both sides
butter-and-egg man
butter-and_eggs
butter-billed
butter-box
butter-bump
butter-colored
butter-cutting
butter-fingered
butter-mouthed
butter-nut
butter-print
butter-rigged
butter-rose
butter-smooth
butter-toothed
butterboat_bill
butterboat-billed
buttercup family
buttercup yellow
buttered eggs
buttered rum
butterfly agama
butterfly bomb
butterfly bush
butterfly chair
butterfly dam
butterfly damper
butterfly dance
butterfly dock
butterfly fish
butterfly flower
butterfly lily
butterfly map
button head
button hole
button lac
button maker
button making
button man
button mangrove
button mottler
button pearl
button piercer
button polisher
button quail
button sage
button saw
button scar
button seal
button sedge
button sewer
button shank
button shanker
button shoe
button shoes
button snakeroot
button snakeweeds
button sorter
button stamper
button stick
button strike
button switch
button thistle
button tree
button turner
button up
button up your pockets
button willow
button worker
button your lip
button-covering
button-down
button-down collar
button-eared
button-fastening
button-headed
button-hold
button-holder
button-hole
button-sewing
button-shaped
button-slitting
button-tufting
buttoner-up
buttonhead rivet
buttonhole stitch
buttonwood shrub
buttress pier
buttress root
buttress thread
buttress tower
butts and bounds
butty lark
butyl alcohol
butyl aldehyde
butyl group
butyl oxalate
butyl radical
butyl-chloral
butylene group
butylene radical
butyr-
butyric acid
butyric ether
butyro-
butyryl group
butyryl radical
buy a piece of
buy a pig in a poke
buy a share of
buy and sell
buy at a bargain
buy at cost
buy at wholesale prices
buy back
buy boat
buy dirt cheap
buy for a mere nothing
buy for a song
buy for nickels and dimes
buy in
buy in futures
buy into
buy it
buy off
buy on credit
buy on the cuff
buy on the installment plan
buy out
buy time
buy up
buyer four
buyer resistance
buyer ten
buyer's strike
buyers' market
buyers' strike
buying and selling
buying in
buying option
buying power
buying right
buying up
buzz about
buzz along
buzz bomb
buzz off
buzz planer
buzz saw
buzz session
buzz track
buzz word
buzzard clock
buzzard curlew
buzzard grass
by a fluke
by a great deal
by a hair
by a jot
by a long chalk
by a long shot
by a long way
by a nose
by a piece of luck
by a side door
by a side wind
by a strong arm
by a whit
by accident
by acclamation
by agent
by airmail
by airplane
by all manner of means
by all means
by all odds
by an ace
by an iota
by and by
by and large
by any chance
by any manner of means
by any means
by any possibility
by auction
by authority of
by birth
by bits and pieces
by brute force
by bus
by cable
by cards
by catches
by categories
by chance
by choice
by command
by common consent
by common report
by comparison with
by consensus
by contraries
by cracky
by degrees
by design
by destiny
by dint of
by disposition
by divisions
by ear
by easy stages
by election
by express
by eyeball
by fair means or foul
by far
by fits
by fits and starts
by foot
by force
by force of arms
by force of habit
by forced marches
by freight
by general consent
by good fortune
by guess and by God
by half
by half measures
by halves
by hand
by hazard
by heart
by his lane
by hit and miss
by hook or by crook
by hook or crook
by horse
by ill hap
by ill luck
by inches
by inchmeal
by installments
by instinct
by interpretation
by intervals
by intuition
by itself
by jerks
by land
by law
by leaps and bounds
by little and little
by long odds
by mail
by main force
by marriage
by me
by means of
by memory
by merest chance
by my halidom
by name
by nature
by necessity
by night
by no manner of means
by no means
by odds
by one
by order
by ordinary
by parol
by parts
by preference
by proxy
by quarters
by rail
by reason of
by reason of that
by reflex
by remote control
by request
by return mail
by right
by rights
by rote
by rule of thumb
by sea
by sections
by sight
by skips
by slow degrees
by snatches
by some means
by special delivery
by speech or action
by stages
by stealth
by steamer
by storm
by stress of
by suffrage
by surprise
by telegraph
by temperament
by the act of
by the agency of
by the aid of
by the board
by the book
by the by
by the bye
by the clock
by the good offices of
by the lee
by the logic of character
by the logic of temperament
by the numbers
by the people
by the rules of logic
by the run
by the same sign
by the same token
by the side of
by the skin of your teeth
by the stern
by the sweat of your brow
by the way
by the way of
by the wind
by this time
by transfer
by trial and error
by tricks
by trolley
by turns
by two
by types
by use of
by virtue of
by virtue of mind-set
by vote
by water
by way of
by way of example
by way of hypothesis
by way of opposition
by way of parenthesis
by what means
by what mode
by what name
by whatever name
by wholesale
by word of mouth
by your leave
by your lonesome
by your own petard
by yourself
by-
by-alley
by-altar
by-and-by
by-and-large
by-bid
by-bidder
by-bidding
by-blow
by-boat
by-product oven
by-purpose
by-reaction
by-respect
by-result
by-road
by-room
by-route
by-sitter
by-speech
by-spel
by-stake
by-street
by-stroke
by-talk
by-term
by-the-bye
by-the-way
by-thing
by-throw
by-thrust
by-time
by-tone
by-track
by-trail
by-turning
by-view
by-walk
by-walking
by-wash
by-water
by-way
by-west
by-wipe
by-wood
by-word
by-work
by-your-leave
bye-blow
bye-bye
bye-byes
bye-election
bye-low
bye-stake
bye-turn
bye-water
bye-wood
bygone days
bygone times
bypass burner
bypass condenser
bypass engine
bypass ratio
hypaths and crooked ways
byre-man
byre-men
byword of reproach
c & b
c battery
c clef
c ration
c'est autre chose
c'est bien
c'est ca
c'est la guerre
c'est la vie
c'est selon
c-axes
c-axis
c-horizon
c-mitosis
c/-
cS
c a canny
c a sa
c a' canny
c a'-thro'
c a'ing-whale
c a-ca
c aing whale
c ab fare
c ab hire
c abana set
c abaret tax
c abbage aphis
c abbage bark
c abbage bug
c abbage butterfly
c abbage lettuce
c abbage moth
c abbage palm
c abbage palmetto
c abbage repeatedly
c abbage root fly
c abbage rose
c abbage tree
cabbage white
cabbage-leaf miner
cabbage-root maggot
cabbage-tree
cabbage-tree hat
cabbaging press
cabin boat
cabin boy
cabin camp
cabin car
cabin class
cabin court
cabin cruiser
cabin deck
cabin hook
cabin plane
cabin tent
cabin-class
cabinet beetle
cabinet cherry
cabinet member
cabinet minister
cabinet picture
cabinet pudding
cabinet scraper
cabinet wine
cabinet-maker
cable address
cable bend
cable buoy
cable car
cable crane
cable length
cable molding
cable railroad
cable railway
cable release
cable road
cable ship
cable stitch
cable television
cable tramway
cable's length
cable-car
cable-laid
cable-stitch
cabriolet leg
cac-
cacao bean
cacao butter
cache-cache
cachectic fever
cachou de Laval
cack-handed
caco-
caco-zeal
cocoa bean
cacodyl group
cacodyl radical
cacodylic acid
cacoethes scribendi
cactus alkaloid
cactus dahlia
cactus family
cactus geranium
cactus wren
caddie bag
caddie car
caddie cart
caddis bait
caddis case
caddis fly
caddis worm
caddy spoon
cadency mark
cadet blue
cadet cloth
cadet gray
cadet grey
cadge a ride
cadmium bronze
cadmium carmine
cadmium cell
cadmium green
cadmium orange
cadmium poisoning
cadmium red
cadmium standard cell
cadmium sulfide
cadmium sulphate
cadmium sulphide
cadmium vermilion
cadmium yellow
cae-
caen-
caen-stone
caesarian section
caesium clock
cafe au lait
cafe chantant
cafe concert
cafe dansant
cafe noir
cafe society
cafe-society
caffoy paper
cag-handed
cage antenna
cage bird
cage zone melting
cager-on
caging knob
cahinca root
cahoun palm
caiman lizard
cain law
caiiper-callie
cairn tangle
cairn terrier
cairn-headed
caisson body
caisson disease
caisson limber
cajeput oil
caju rains
cajuput oil
cake baker
cake eater
cake flour
cake griddle
cake make-up
cake maker
cake pan
cake-eater
cake-mixing
caked breast
ckaded lac
cakes and ale
caking coal
calaba tree
calabar bean
calabar-bean
calabash nutmeg
calabash tree
calabur tree
calamander wood
calamine blue
calamine brass
calamint balm
calamity howler
calamondin orange
calamus oil
calc-
calc-aphanite
calc-sinter
calc-spar
calc-tufa
calc-tuff
calcaneocuboid ligament
calcareo-
calcareous tufa
calce-scence
calci-
calcined baryta
calcined lime
calcio-
calcium arsenate
calcium bisulphite
calcium carbide
calcium carbonate
calcium caseinate
calcium chloride
calcium creosotate
calcium cyanamide
calcium cyanide
calcium cyclamate
calcium cyclohexylsulfamate
calcium dibromobehenate
calcium fluoride
calcium hydrate
calcium hydroxide
calcium hypochlorite
calcium iodobehenate
calcium lactate
calcium lamp
calcium light
calcium nitrate
calcium oxide
calcium oxych
calcium oxychloride
calcium permanganate
calcium phosphate
calcium propionate
calculator

calculator

calcium soap

calculator

calcium sulfide

calculator

calcium sulphate

calculator

calcium sulphite

calculator

calcio-
calculator

calculate on

calculator

calculate upon

calculator

calculate your position

calculator

calculated deception

calculator

calculated distortion

calculator

calculated risk

calculator

calculated to

calculator

calculating machine

calculator

calculus of differences

calculator

calculus of finite differences

calculator

calculus of individuals

calculator

calculus of pleasure

calculator

calculus of variations

calculator

caldo verde

calculator

caldron bottom

calculator

calendar art

calculator

calendar clock

calculator

calendar day

calculator

calendar maker

calculator

calendar month

calculator

calendar of bills

calculator

calendar stone

calculator

calendar watch

calculator

calendar year

calculator

calendar-making

calculator

calenture of the brain

calculator

calf feed

calculator

calf leather

calculator

calf love

calculator

calf's brains

calculator

calf's head

calculator

calf's liver

calculator

calf's tongue

calculator

calf's-foot

calculator

calf's-foot jelly

calculator

calf-skin

calculator

cali-
calculator

caliatour wood

calculator

caliber compass

calculator

calibrated scale

calculator

calibrating circuit

calculator

calibrating terminal
calibrating unit
calico ash
calico aster
calico bass
calico bug
calico bush
calico cat
calico clam
calico crab
calico flower
calico pony
calico printing
calico scale
calico tree
california laurel
california poppy
california rosebay
caliper compass
caliper gauge
caliper rule
caliph willow
calisaya bark
calk weld
call a break
call a halt
call a halt to
call a recess
call a spade a spade
call a strike
call all bets off
call an intermission
call attention to
call away
call back
call back yesterday
call bell
call bird
call box
call card
call down
call down curses on the head of
call down evil upon
call for
call for help
call forth
call girl
call heads or tails
call heaven to witness
call house
call in
call in question
call into being
call into existence
call into play
call into question
call it a day
call it quits
call letters
call loan
call mark
call market
call money
call names
call number
call of duty
call off
call on
call on the carpet
call on the phone
call on you for
call option
call out
call over
call price
call rate
call sign
call slip
call spirits from the vasty deep
call the play
call the roll
call the shots
call the signals
call the tune
call the turn
call time
call time-out
call to
call to account
call to active duty
call to arms
call to mind
call to notice
call to order
call to quarters
call to the colors
call to witness
call together
call up
call up spirits
call upon
call upon you for
call upon you to
call your bluff
call your own
call your shot
call your shots
call-back pay
call-board
call-down
call-fire
call-in pay
call-off
call-out
call-over
call-up
calla green
calla lily
calla-
callable bond
callable securities
calcedra wood
called for
called home
called on
calli-
calling a spade a spade
calling before the mind's eye
calling card
calling crab
calling forth
calling party
calling to the mind's eye
calling-down
calling-over
calliope hummingbird
calliper compasses
calliper rule
calliper splint Med
callis sand
callis-sand
callithumpian band
callosal convolution
callosal gyrus
calm acceptance
calm and free
calm as a mill pond
calm before the storm
calm disposition
calm down
calm mind
calm of mind
calm weather
calm yourself
calm-eyed
calm-minded
calm-throated
calming hand
calo-
calomel electrode
calore sore
calorie chart
calorie counter
calorie engine
calorie-counting
calorific value
calorimeter bomb
calumet dance
calvary cross
calyx drill
calyx spray
calyx teeth
calyx tube
cam chain
cam cleat
cam contactor
cam engine
cam press
cam squeezer
cam switch
cam wheel
cam-contactor switch
cam-cutting machine
cam-wood
camadula seed
camara nutmeg
camass rat
camb sizer
cambe wood
camber arch
camber beam
camber piece
camber slip
camber-keeled
camberwell beauty
cambric grass
cambric muslin
cambric tea
camel back
camel caravan
camel driver
camel grass
camel hay
camel insect
camel litter
camel saddle
camel's hair
camel's hair rug
camel's-hair
camel-backed
camel-faced
camel-grazing
camel-hair
camel-haired
camel-kneed
camel-shaped
camel-yarn
camelback truss
cameline oil
cameo blue
cameo conch
cameo encrustation
cameo glass
cameo pink
cameo role
cameo stamper
cameo ware
camera angle
camera assembler
camera booth
camera deflection generator
camera lucida
camera obscura
camera tube
camera tubes
camera-eye
camera-ready copy
camera-shy
camino real
caminos reales
camomile oil
can sealer
can solderer
can sterilizer
can such things be
can system
can washer
can you beat that
can you feature that
can't be avoided
can't be helped
can't complain
can't help
can't keep from
can-beading
can-boxing
can-buoy
can-burnishing
can-can
can-capping
can-cleaning
can-closing
can-crimping
can-dock
can-filling
can-flanging
can-heading
can-hook
can-labeling
can-lacquering
can-lining
can-marking
can-opener
can-opening
can-polishing
can-quaffing
can-salting
can-scoring
can-sealing
can-seaming
can-slitting
can-soldering
can-squeezing
can-stamping
can-sterilizing
can-testing
can-washing
can-weighing
can-wiping
can-wrapping
cana brava
cana espina
canada balsam
canada lynx
canada thistle
canadian french
canal barge
canal boat
canal cell
canal coal
canal lock
canal ray
canal rays
canal system
canal-bone
canal-built
cananga oil
canard sauvage
canary bird
canary creeper
canary flower
canary glass
canary grass
canary moss
canary nut
canary seed
canary stone
canary vine
canary weed
canary wine
canary wood
canary yellow
canary-bird
canary-bird flower
canary-yellow
canarybird flower
canarybird vine
cancel out
canceled check
canceled type
cancellation clause
cancellation law
cancer cell
cancer eye
cancer jalap
cancer parasite
cancer stick
cancrinite-syenite
cancrum oris
candelabra lamp holder
candelabra plant
candelabrum tree
candelilla wax
candid camera
candid photograph
candid photography
candied apple
candle alder
candle anemone
candle auction
candle bearer
candle cactus
candle case
candle end
candle ends
candle fly
candle gleam
candle grease
candle hour
candle larkspur
candle lumen
candle mold
candle molder
candle paper
candle plant
candle power
candle rush
candle shade
candle snuff
candle snuffer
candle tree
candle tube
candle wicking
candle-beam
candle-bearing
candle-branch
candle-dipper
candle-end
candle-foot
candle-holder
candle-hour
candle-lighter
candle-meter
candle-rent
candle-shaped
cane reed
cane rush
cane rust
cane seat
cane seating
cane splicer
cane sugar
cane syrup
cane trash
cane weaver
cane webbing
cane withy
cane-backed
cane-bottomed
cane-chorus
cane-seated
canebrake rattler
canebrake rattlesnake
canella alba
canella bark
canella-bark family
cangica-wood
canicola fever
canicular days
canine appetite
canine distemper
canine leptospirosis
canine madness
canine tooth
canine typhus
canis major
canis minor
canister shot
canker bloom
canker blossom
canker lettuce
canker rash
canker rose
canker sore
canker violet
canker-bit
canker-bitten
canker-eaten
canker-hearted
canker-mouthed
canker-toothed
cankerworm of care
canna family
canvas maker
canvas primer
canvas quilter
canvas shoe
canvas stitch
canvas stitcher
canvas stitching
canvas work
canvas worker
canvas-back
canvas-covered
canvasback duck
canyon gooseberry
canyon grape
canyon live oak
canyon wind
canyon wren
cap and bells
cap and gown
cap bolt
cap cell
cap cloud
cap flashing
cap fungus
cap gun
cap in hand
cap jib
cap maker
cap nut
cap octavo
cap of darkness
cap of dignity
cap of estate
cap of maintenance
cap paper
cap piece
cap pistol
cap rhymes
cap rock
cap screw
cap scuttle
cap spinning
cap square
cap the climax
cap verses
cap-a-pie
cap-case
cap-flash
capital assets
capital bonus
capital budget
capital city
capital crime
capital expenditure
capital fellow
capital gain
capital gains
capital gains distribution
capital gains tax
capital goods
capital investment
capital joke
capital levy
capital loss
capital market
capital operation
capital punishment
capital ship
capital stock
capital stock n
capital structure
capital style
capital styles
capital sum
capital surplus
capital transfer tax
capitalist economy
capitalistic economy
capitalistic system
capitalization issue
capitalize on
capitate bone
capitation grant
capitation tax
capo taste
capoor cutchery
cappa magna
capped elbow
capped hock
capped pawn
capping fee
capping plane
capple-faced
capric acid
capricorn beetle
caprific fig wasp
caproic acid
caprylic acid
capsicum wool
capsizing moment
capstan bar
capstan bolt
capstan lathe
capstan screw
capstan table
capstan tool rest
capstan-headed
capsul-
captain ball
captain general
captain glass
captain lieutenant
captain of industry
captain's biscuit
captain's chair
captain's mast
captain's table
captain's walk
captain-generalcy
captain-lieutenant
captaincy general
captains general
captious critic
captive audience
captive balloon
captive bolt
captive nation
captive test
capture on film
capture theory
captured-air bubble
captured-air vehicle
capuchin capers
capucine buff
capucine lake
capucine madder
capucine orange
capucine red
capucine yellow
caput mortuum
car accounting
car bit
car brake
car card
car coat
car coupler
car coupling
car dumper
car ferry
car float
car frame
car framer
car greaser
car heater
car knocker
car line
car lot
car mileage
car movement
car of Jagannath
car of Juggernaut
car park
car pool
car rail
car replacer
car retarder
car ride
car sealer
car service
car shed
car sickness
car starter
car step
car track
car wash
car wheel
car wheeler
car-born
car-dumping
car-mile
car-replacing
car-tunnel kiln
caramel cream
caramel cutter
carap nut
carap oil
carap tree
carap wood
carapa nut
carapa oil
carapa tree
carapa wood
carat grain
carat grains
caravan boiler
caraway oil
caraway seed
caraway seeds
caraway-seed fern
carb-
carbamate insecticide
carbamic acid
carbazotic acid
carbo-
carbo-hydrate
carbocyclic compound
carbolic acid
carbolic oil
carbon 14
carbon arc
carbon bisulfide
carbon bisulphide
carbon black
carbon copy
carbon cycle
carbon dating
carbon diamond
carbon dichloride
carbon dioxide
carbon dioxide snow
carbon disulfide
carbon disulphide
carbon fibre
carbon flame
carbon knock
carbon lamp
carbon light
carbon microphone
carbon monoxide
carbon oxide
carbon oxychloride
carbon paper
carbon paper n
carbon pencil
carbon point
carbon process
carbon silicide
carbon spot
carbon star
carbon steel
carbon sulphochloride
carbon telephone
carbon tet
carbon tetrachloride
carbon tissue
carbon transfer
carbon transmitter
carbon trichloride
carbon tube
carbon- dating
carbon-14 dating
carbon-dioxide foam
carbon-dioxide recorder
carbon-dioxide snow
carbonated water
carbonic acid
carbonic acid gas
carbonic anhydride
carbonic-acid gas
carbonium ion
carbonization process
carbonyl chloride
carbonyl group
carbonyl radical
carborundum cloth
carboxyl group
carboxyl radical
carboxylic acid
carbonic-acid gas
carbureted-hydrogen gas
carburator altitude control
carcass beef
carcass flooring
carcass roofing
carcin-
carcinogenic substance
card bends
card brusher
card case
card catalog
card catalogue
card cheating
card cleaner
card cloth
card clothier
card clothing
card compass
card cutter
card doffer
card drawer
card dresser
card end
card ender
card feeder
card fettler
card field
card file
card filler
card game
card games
card gatherer
card grinder
card index
card ledger
card magnetic compass
card measurer
card parer
card punch
card reader
card roller
card setter
card sorter
card strip
card stripper
card table
card teasel
card tenter
card thistle
card tray
card up your sleeve
card vote
card voting
card winder
card wire
card writer
card-carrier
card-carrying
card-carrying Communist
card-carrying member
card-counting
card-cut
card-cutting
card-devoted
card-index
card-perforating
card-printing
card-setting machine
card-sorting
cardamom oil
carder bee
cardi-
cardiac arrest
cardiac cycle
cardiac epilepsy
cardiac glucoside
cardiac glycoside
cardiac hormone
cardiac infarction
cardiac insufficiency
cardiac neurosis
cardiac output
cardiac pacemaker
cardiac shock
cardiac stenosis
cardiac tamponade
cardiac thrombosis
cardigan jacket
cardigan sweater
cardinal archbishop
cardinal beetle
cardinal bird
cardinal bishop
cardinal climber
cardinal cloth
cardinal deacon
cardinal dean
cardinal fish
cardinal flower
cardinal grosbeak
cardinal humour
cardinal number
cardinal numeral
cardinal point
cardinal points
cardinal priest
cardinal red
cardinal system
cardinal virtue
cardinal virtues
cardinal vowel
cardinal’s hat
cardinal-bishop
cardinal-deacon
cardinal-flower
cardinal-priest
cardinal-red
carding hair
carding machine
carding thistle
carding wool
cardio-
cardio-aortic
cardio-inhibitory
cardiogenic shock
cardiod microphone
cardiogenic shock
cardiovascular disease
cards and spades
care a snap
care a snap of your fingers for
care about
care for
care for truth
care naught for
care nothing about
care nothing for
care of souls
care sunday
care-bewitching
care-bringing
care-charmer Sleep
care-charming
care-cloth
care-crazed
care-crossed
care-defying
care-dispelling
care-eluding
care-encumbered
care-fraught
care-killing
care-laden
care-lined
care-scorched
care-taker
care-tired
care-tuned
care-wounded
career building
career diplomat
career girl
career man
career politics
career soldiers
careers master
careful consideration
carefully ignore
careless abandon
daress the ear
cargo boat
cargo carrier
cargo checker
cargo clerk
cargo cluster
cargo coal
cargo cult
cargo dock
cargo handler
cargo lighter
cargo liner
cargo mast
cargo mill
cargo plane
cargo reflector
cargo ship
cargo transport
cargo worker
caribou moss
caricature plant
caring fair
carking care
carl hemp
carline thistle
carline wife
carload lot
carload rate
carmine crabapple
carmine lake
carnage trade
carnal abuse
carnal delight
carnal desire
carnal knowledge
carnal nature
carnal passion
carnal-minded

carnal-mindedness
carnation grass
carnation red
carnation rose
carnation rust
carnation-red
carnauba wax
carnegie unit
carnelian red
carnival glass
carnival lace
carnos-
carob bean
carob brown
carob gum
carob tree
caroline hat
carom ball
carom into
carotid artery
carotid body
carotid gland
carotid sinus
carp at
carp louse
carp sucker
carp-
carpal tunnel syndrome
carpe diem
carpenter ant
carpenter bee
carpenter bird
carpenter grass
carpenter moth
carpenter's hammer
carpenter's square
carpet alterer
carpet beating
carpet bed
carpet bedding
carpet beetle
carpet binding
carpet bombing
carpet braid
carpet broom
carpet brush
carpet bug
carpet chair
carpet cleaner
carpet cleaning
carpet dance
carpet dealer
carpet drive
carpet dyer
carpet fastener
carpet filler
carpet fillings
carpet finisher
carpet fitter
carpet fixer
carpet folder
carpet grass
carpet hemmer
carpet knight
carpet lining
carpet loom
carpet machinist
carpet maker
carpet mill
carpet moth
carpet needle
carpet opener
carpet picker
carpet pink
carpet planner
carpet printer
carpet printing
carpet rags
carpet renovator
carpet repairer
carpet rod
carpet sewer
carpet shark
carpet shell
carpet shredder
carpet slipper
carpet snake
carpet sorter
carpet stitch
carpet stretcher
carpet sweeper
carpet tack
carpet thread
carpet twisting
carpet weaver
carpet weaving
carpet wool
carpet yarn
carpet-bag
carpet-bagger
carpet-covered
carpet-cut
carpet-knight
carpet-smooth
carpet-sweeper
carpetweed family
carpo-
carpo-olecranal
carriage apron
carriage blind
carriage body
carriage bolt
carriage boot
carriage bow
carriage bridge
carriage builder
carriage building
carriage cleaner
carriage cleaning
carriage company
carriage coupler
carriage coupling
carriage dog
carriage drive
carriage driver
carriage entrance
carriage forward
carriage free
carriage gate
carriage guard
carriage harness
carriage head
carriage horse
carriage house
carriage hub
carriage iron
carriage ironer
carriage joiner
carriage lady
carriage lamp
carriage lampman
carriage maker
carriage making
carriage paid
carriage painter
carriage piece
carriage pole
carriage porch
carriage rider
carriage road
carriage searcher
carriage seat
carriage setter
carriage shackle
carriage shaft
carriage shed
carriage spring
carriage springer
carriage step
carriage strap
carriage top
carriage trade
carriage trimmer
carriage trimming
carriage washer
carriage way
carriage wheel
carriage works
carriage wrench
carriage-free
carrick bend
carrick bitt
carrick bitts
carrick head
carried away
carried by acclamation
carrier amplifier
carrier bag
carrier courier
carrier fighter
carrier frequency
carrier pigeon
carrier ring
carrier shell
carrier snail
carrier suppression
carrier wave
carrier-based plane
carrier-current system
carrier-free
carrier-pigeon
carriers of
carrion beetle
carrion buzzard
carrion crow
carrion flower
carrion fly
carrion fungus
carrion hawk
carron oil
carrot beetle
carrot eating
carrot family
carrot fern
carrot orange
carrot pudding
carrot red
carrot rust fly
carrot soft rot
carrot tree
carrot-colored
carrot-head
carrot-headed
carrot-pated
carrot-shaped
carrot-top
carry a card
carry a tune
carry all before one
carry all before you
carry arms
carry authority
carry away
carry back
carry back in recollection
carry bag
carry by storm
carry coals to Newcastle
carry conviction
carry forward
carry in your thoughts
carry into effect
carry into execution
carry it
carry lee helm
carry off
carry on
carry on a business
carry on a conversation
carry on a propaganda
carry on a trade
carry on an inquiry
carry on business
carry on hostilities
carry on over
carry on something scandalous
carry on war
carry on your books
carry out
carry out the anchor
carry over
carry sail
carry the
carry the ball
carry the banner of
carry the day
carry the mail
carry through
carry to
carry to completion
carry to excess
carry too far
carry too much sail
carry weather helm
carry weight
carry you off your feet
carry young
carry your point
carry your thoughts back
carry yourself
carry-all
carry-back
carry-forward
carry-in
carry-log
carry-on
carry-over
carry-tale
carrying a fetus
carrying an embryo
carrying arms
carrying capacity
carrying charge
carrying cost
carrying distance
carrying out
carrying place
carrying through
carrying trade
carrying-on
carrying-out
carryings-on
carse deposit
cart aver
cart away
cart driver
cart horse
cart ladder
cart leather
cart maker
cart off
cart road
cart rope
cart track
cart wheel
cart whip
cart-rutted
cart-track plant
cart-wheel
cartage contractor
carte blanche
carte d'entree
carte de visite
carte du jour
carte-de-visite
cartel ship
cartes blanches
cartes de visite
cartes du jour
cartesian coordinate
cartilage bone
cartilage cell
cartilage pit
cartilaginous fish
cartilaginous quittor
carton of cigarettes
carton-pierre
cartridge annealer
cartridge bag
cartridge belt
cartridge blocker
cartridge box
cartridge brass
cartridge buff
cartridge case
cartridge clip
cartridge filler
cartridge fuse
cartridge gauge
cartridge heater
cartridge loader
cartridge loading
cartridge maker
cartridge making
cartridge paper
cartridge pen
cartridge primer
cartridge priming
carve out
carve up
carve your way
carvel joint
carvel work
carvel-built
carvel-planked
carving fork
carving knife
cary-
caryo-
casaba melon
casagha pine
casca bark
cascade amplification
cascade connection
cascade control
cascade converter
cascade method
cascade screen
cascade system
cascade transformer
cascade-connect
cascara amarga
cascara buckthorn
cascara sagrada
cascarilla bark
cascarilla oil
case bay
case binding
case bolt
case bottle
case card
case count
case ending
case furniture
case glass
case goods
case grammar
case gun
case hammer
case harden
case hardening
case history
case in point
case in question
case knife
case law
case lawyer
case made
case method
case of need
case of nerves
case oil
case phrase
case record
case shot
case springs
case stake
case study
case system
case tablet
case the
case work
case worker
case-bearer
case-bound
case-harden
case-hardened
case-hardened steel
case-knife
case-shot
case-weed
case-worker
case-worm
cased book
cased glass
casein glue
casein paint
casein plastic
casemaking clothes moth
casement cloth
casement door
casement window
caser-in
cash account
cash advance
cash assets
cash audit
cash basis
cash capital
cash carrier
cash clerk
cash contract
cash credit
cash crop
cash customer
cash desk
cash discount
cash dividend
cash down
cash drawer
cash flow
cash in
cash in hand
cash in on
cash in your checks
cash in your chips
cash journal
cash letter
cash line
cash money
cash on delivery
cash on the barrelhead
cash on the nail
cash payment
cash price
cash purchase
cash railway
cash ratio
cash register
cash remittance
cash reserves
cash sale
cash store
cash supply
cash surrender value
cash tenant
cash terms
cash up
cash value
cash-and-carry
cash-book
cash-refund annuity
cashed up
cashew apple
cashew bird
cashew family
cashew lake
cashew nut
cashier's check
cashmere shawl
cashmere sweater
casing cutter
casing dog
casing head
casing knife
casing nail
casing shoe
casing spear
casing splitter
casing spool
casing swab
casing-head gas
casing-head gasoline
casing-in
casinghead gas
casino pink
cask marker
cask-shaped
cassava wood
casse paper
casse-tete
casserole fish
cassia bark
cassia bud
cassia fistula
cassia flask
cassia lignea
cassia nut
cassia oil
cassia pod
cassia pods
cassia pulp
cassia tree
cassia-bark tree
cassia-stick tree
cassie paper
cassiopeia's chair
cassowary tree
cast a ballot
cast a glance
cast a gloom over
cast a gloom upon
cast a horoscope
cast a laggen-gird  
cast a nativity  
cast a pall upon  
cast a reproach upon  
cast a shadow  
cast a slur on  
cast a slur upon  
cast a spell  
cast a traverse  
cast about  
cast about for  
cast anchor  
cast aside  
cast aspersions on  
cast at  
cast away  
cast back  
cast blame upon  
cast coquettish glances  
cast down  
cast envious eyes  
cast forth  
cast gear  
cast in a different mold  
cast in prison  
cast in the eye  
cast in the same mold  
cast in your lot with  
cast in your teeth  
cast into hell  
cast iron  
cast light upon  
cast loose  
cast lots  
cast naked upon the naked earth  
cast of characters  
cast of countenance  
cast of the dice  
cast off  
cast on  
cast out  
cast out devils  
cast pearls before swine  
cast plastic  
cast plow  
cast reflection upon  
cast reflections on  
cast reproach upon
cast scrap
cast sheep's eyes at
cast steel
cast the evil eye
cast the eyes back
cast the eyes on
cast the eyes over
cast the eyes upon
cast the first stone
cast the gorge
cast the lead
cast their shadows before
cast to the dogs
cast to the winds
cast up
cast up accounts
cast your bread upon the waters
cast your eye
cast your eyes down
cast your fortune
cast your hook
cast your net
cast your vote
cast your vote for
cast-back
cast-by
cast-iron
cast-iron-plant
cast-me-down
cast-off
cast-steel
cast-weld
castana nut
caste mark
caste-ridden
castellated beam
castellated nut
caster sugar
caster-off
castile soap
casting away
casting bottle
casting box
casting couch
casting counter
casting director
casting down
casting line
casting lots
casting net
casting on
casting table
casting voice
casting vote
casting wax
casting weight
casting wheel
casting your ballot
castle ditch
castle earth
castle gate
castle gilliflower
castle in Spain
castle in spain
castle in the air
castle in the skies
castle in the sky
castle nut
castle top
castle town
castle wall
castle-builder
castle-building
castle-built
castle-buttressed
castle-crowned
castle-guard
castle-guarded
castoff skin
castor aralia
castor bean
castor cake
castor gray
castor oil
castor pomace
castor seed
castor sugar
castor tree
castor wheel
castor-bean
castor-bean meal
castor-bean tick
castor-oil plant
castration complex
castrator mine
casual acquaintance
cat pine
cat plague
cat purchase
cat rig
cat salt
cat schooner
cat shark
cat silver
cat sleep
cat snake
cat spruce
cat squirrel
cat stopper
cat strip
cat suit
cat tackle
cat the anchor
cat thyme
cat tree
cat typhoid
cat whisker
cat yawl
cat’s cradle
cat’s ear
cat’s foot
cat’s paw
cat’s tail
cat’s whisker
cat’s whiskers
cat’s-claw
cat’s-cradle
cat’s-ear
cat’s-eye
cat’s-eyes
cat’s-feet
cat’s-foot
cat’s-head
cat’s-paw
cat’s-tail
cat’s-tail speedwell
cat-a-mountain
cat-and-dog
cat-and-dog life
cat-and-dog weather
cat-and-doggish
cat-bed
cat-built
cat-chop
cat-clover
cat-eyed
cat-fish
cat-foot
cat-hammed

cat-harpin
cat-harpings
cat-head

cat-hole

cat-lap
cat-like

cat-locks
cat-o'-mountain

cat-o'-nine-tails
cat-o-nine-tails
cat-rigged
cat-scratch disease
cat-scratch fever
cat-stick

cat-train

cat-whistles
cat-witted

cata-
cataleptic hypnosis
catalog buying
catalog card
catalog goods
catalog selling
catalogue raisonn
catalogue raisonne
catalpa sphinx
catalytic agent
catalytic converter
catalytic cracker
catamenial discharge
catapult flight
catapult fruit
cataract bird
catarhal fever

catarhal inflammation
catarhal pneumonia
catastrophe hazard
catastrophe reserve
catastrophe risk
catastrophic change
catatonic schizophrenia
catatonic stupor
catawba rhododendron
catawba rose bay
catawba tree
catbird grape
catbird seat
catch a Tartar
catch a crab
catch a glimpse of
catch a likeness
catch a lobster
catch a ride
catch a smell of
catch a train
catch a turn
catch a wink
catch as catch can
catch asleep at the switch
catch at
catch at straws
catch basin
catch boom
catch box
catch cold
catch colt
catch crop
catch cropping
catch drain
catch fire
catch flat-footed
catch hell
catch hold of
catch in
catch in a trap
catch in the act
catch it
catch it in the neck
catch line
catch meadow
catch napping
catch off base
catch off side
catch off your guard
catch off-guard
catch on
catch on fire
catch on to
catch out
catch phrase
catch pit
catch points
catch question
catch red-handed
catch short
catch siding
catch sight of
catch stitch
catch the attention
catch the drift
catch the ear
catch the eye
catch the flame
catch the infection
catch the scent of
catch the thoughts
catch title
catch tripping
catch unawares
catch up
catch up in
catch up with
catch with your pants down
catch you flatfooted
catch your breath
catch your death
catch your death of cold
catch your eye
catch-
catch-22
catch-all
catch-as-catch-can
catch-cord
catch-up
catcher resonator
catchfly grass
catchment area
catchment basin
catchwater drain
catchword entry
catclaw acacia
catechetical method
catechetical school
categoric contact
categorical imperative
categorical proposition
categorical syllogism
categorically reject
categorically true
catenary furnace
catenary system
cater to
cater trey
cater-corner
cater-cornered
cater-cousin
cater-cousinship
cattercorner ar catty-corner
cattercorner kitty-corner
caterpillar catcher
caterpillar fern
caterpillar fungus
caterpillar gate
caterpillar hunter
caterpillar plant
caterpillar tractor
caterpillar tread
catfoot poplar
cath-
catharine wheel
cathead chuck
cathead stopper
cathetic energy
cathedral builder
cathedral ceiling
cathedral chimes
cathedral church
cathedral close
cathedral dome
cathedral glass
cathedral music
cathedral service
cathedral tower
cathedral town
cathedral walk
cathedral-like
catherine wheel
catheter fever
cathode current
cathode dark space
cathode drop
cathode glow
cathode luminescence
cathode particle
cathode ray
cathode rays
cathode-ray oscillograph
cathode-ray oscilloscope
cathode-ray tube
cathodic protection
cathodo-luminescent
catholico-
cation detergent
cation-active
cationic detergent
catjang pea
cats and dogs
cattail family
cattail flag
cattail fungus
cattail grass
cattail millet
cattail rush
cattle boat
cattle breeder
cattle breeding
cattle buyer
cattle camp
cattle car
cattle crossing
cattle dealer
cattle dehorner
cattle dog
cattle drover
cattle egret
cattle farcy
cattle farm
cattle farmer
cattle feed
cattle feeder
cattle feeding
cattle float
cattle floater
cattle grub
cattle guard
cattle horn
cattle leader
cattle lifting
cattle loader
cattle louse
cattle mange
cattle marker
cattle marking
cattle pass
cattle pen
cattle plague
cattle pump
cattle raising
cattle ranch
cattle range
cattle run
cattle rustler
cattle rustling
cattle scab
cattle ship
cattle shipper
cattle show
cattle stall
cattle station
cattle stealing
cattle steamer
cattle tender
cattle thief
cattle tick
cattle trade
cattle trader
cattle train
cattle truck
cattle wire
cattle-grid
cattle-guard
cattle-plague
cattle-ranching
cattle-specked
cattleya guava
cattleya fly
catty-co
catty-corner
catty-cornered
caucus nomination
cauda galli
cauda-galli grit
caudal anesthesia
caudal appendage
caudal fin
caudal peduncle
caudle cup
cought in your own trap
cought napping
cought off balance
cought off base
cought short
cought tripping
caught up in
cought with your pants down
caul board
caul fat
cauliflower cheese
cauliflower disease
cauliflower ear
cauliflower excrescence
cauliflower ware
cauliflower-eared
caulk off
caulking chisel
caulking cotton
caulking iron
caulking tool
caulo-
causa causans
causa finalis
causa sine qua non
causal body
causal glance
causal sequence
causal treatment
cause and effect
cause celebre
cause clbre
cause dislike
cause for alarm
cause in court
cause list
cause pain
cause the mind to stray
cause the mind to wander
cause to
cause to believe
cause to go out of your way
cause to resign
cause trouble
cause trouble for
cause unpleasantness
cause vertigo
cause-and-effect
cased by
causeway grass
causing cause
cautic alcohol
cautic baryta
cautic critic
caustic curve
cautious lime
cautious potash
cautious remark
cautious soda
cautious surface
cautious light
cautious money
cavalier battery
cavalier projection
cavalier servant
cavalier servente
cavalier servitude
cavaliere servente
cavalieri serventi
cavalry bone
cavalry horse
cavalry saddle
cavalry tactics
cavalry twill
cave art
cave bear
cave beetle
cave canem
cave cricket
cave drawing
cave dweller
cave dwelling
cave earth
cave fish
cave hunter
cave hyena
cave in
cave lion
cave man
cave of Trophonius
cave of despair
cave painting
cave pearl
cave period
cave rat
cave right
cave tomb
cave-guarded
cave-in
cave-keeping
cave-lodged
cave-loving
caveat emptor
cavi-relievi
cavi-rilievi
caviar to the general
caviare to the general
caving system
cavity block
cavity magnetron
cavity resonator
cavity source
cavity wall
caviuna wood
cavo-relievo
cavo-relievos
cavo-rilievo
cayenne pepper
cayenne whist
cease fire
cease hostilities
cease not
cease resistance
cease to be
cease to exist
cease to live
cease to use
cease-and-desist order
cease-fire
cecropia moth
cedant arma togae
cedar apple
cedar bird
cedar camphor
cedar chest
cedar elm
cedar grass
cedar green
cedar leaf
cedar maker
cedar manna
cedar moss
cedar nut
cedar of Lebanon
cedar pine
cedar rust
cedar swamp
cedar tree
cedar waxwing
cedar-brown
cedar-colored
cedarwood oil
ced-
cee spring
ceiling balloon
ceiling board
ceiling fixture
ceseling floor
ceseling hook
ceseling joist
ceseling light
ceseling piece
ceseling plate
ceseling price
ceseling projector
ceseling unlimited
ceseling zero
ceseling-height indicator
ceilinged roof
cela saute aux yeux
cela va sans dire
celadon green
celandine green
celandine poppy
celebrate Mass
celery blight
celery cabbage
celery family
celery grass
celery mosaic
celery oil
celery pine
celery root
celery salt
celery seed
celery yellows
celery-leaved
celery-topped
celestial being
celestial beings
celestial blue
celestial body
celestial chart
celestial crown
celestial equator
celestial globe
celestial guidance
celestial hierarchy
celestial horizon
celestial kingdom
celestial latitude
celestial longitude
celestial marriage
celestial mechanics
celestial meridian
celestial navigation
celestial pole
celestial spaces
celestial sphere
celestial throne
celiac disease
celiac plexus
cell body
cell bridge
cell cavity
cell charger
cell cleavage
cell count
cell cup
cell division
cell doctrine
cell family
cell house
cell kernel
cell membrane
cell multiplication
cell nest
cell nucleus
cell organ
cell physiology
cell plasm
cell plate
cell product
cell proliferation
cell sap
cell substance
cell tester
cell theory
cell wall
cell-blockade
cell-like
cell-shaped
cellar book
cellar door
cellar pipe
cellar sash
cellophane tape
cellular kite
cellular tissue
cellulo-
cellulocutaneous plague
celluloid collar
cellulose acetate
cellulose ether
cellulose flour
cellulose nitrate
cellulose plastic
cellulose triacetate
cellulose xanthate
celo-navigation
celtic cross
celto-
cembal damore
cembra nut
cembra pine
cement a union
cement conveyer
cement disease
cement dusting
cement filler
cement gauger
cement gland
cement grinder
cement hardener
cement kiln
cement layer
cement maker
cement mill
cement miller
cement mixer
cement of friendship
cement organ
cement paver
cement pulverizer
cement rod
cement sprayer
cement steel
cement tester
cement-coated
cement-covered
cement-drying
cement-faced
cement-forming
cement-lined
cement-lining
cement-temper
cendres blue
censer bearer
censer box
censer pot
census report
census returns
census taker
census tract
centauro-triton
center about
center anchor
center back
center bit
center circle
center drill
center field
center fielder
center gambit
center gauge
center halfback
center in
center jam
center jump
center line
center mold
center of action
center of activity
center of area
center of attention
center of attraction
center of authority
center of buoyancy
center of consciousness
center of curvature
center of displacement
center of effort
center of figure
center of flotation
center of gravity
center of immersed bulk
center of immersion
center of inertia
center of interest
center of inversion
center of lateral resistance
center of life
center of manufacture
center of mass
center of origin
center of oscillation
center of ossification
center of percussion
center of pressure
center of projection
center of similitude
center of suspension
center of symmetry
center of the mind
center of volume
center on
center punch
center reamer
center round
center seal
center spider
center spread
center square
center staff
center tester
center valve
center wheel
center zone
center-fire
center-freeze system
center-of-pressure coefficiency
center-sawed
center-second
centerboard damper
centerboard trunk
centered dot
centerhole guitar
centering machine
centering square
centi-
centigrade scale
centigrade thermal unit
centigrade thermometer
centimeter-gram
centimeter-gram-second
centimetre-gram-second
centimetre-gramme-second
centipede grass
centipede legs
centipede locomotive
centipede plant
centr-
central administration
central angle
central apparatus
central bank
central body
central city
central cylinder
central dogma
central eclipse
central heating
central limit theorem
central moment
central nervous system
central office
central position
central processing unit
central projection
central reserve
central school
central station
central sulcus
central tendency
central time
central-fire
centralized school
centrally heated
centre bit
centre forward
centre half
centre of curvature
centre of gravity
centre of mass
centre of pressure
centre punch
centre section
centre spread
centre three-quarter
centre-fire
centred dot
centri-
centrifugal action
centrifugal box
centrifugal casting
centrifugal force
centrifugal pot
centrifugal pump
centrifugal spinning
centripetal action
centripetal force
centro-
centum languages
centuple calorie
century aloe
century plant
cephal-
cephalic index
cephalo-
cephalopelvic disproportion
ceramic cartridge
ceramic engineer
ceramic engineering
ceramic material
ceramic microphone
ceramic pickup
ceramic ware
cerator-
cerato-
cercis-leaf
cereal bowl
cereal plant
cerebellar hemispheres
cerebello-olivary
cerebr-
cerebral accident
cerebral cortex
cerebral dominance
cerebral hemisphere
cerebral hemispheres
cerebral meningitis
cerebral palsied
cerebral palsy
cerebral rheumatism
cerebral shock
cerebral tabes
cerebral tuberculosis
cerebro-
cerebro-ocular
cerebro-spinal
cerebrospinal fever
cerebrospinal fluid
cerebrospinal meningitis
cerebrospinal nervous system
cerebrovascular accident
ceremonial attire
ceremonial tea
ceric oxide
cerinic acid
cerium dioxide
cerium metal
cerium metals
cerium oxide
cero-
ceroso-
cerotic acid
cerre-tree
cerro green
certain knowledge
certain person
certainly not
certifiable case
certificate of admeasurement
certificate of character
certificate of deposit
certificate of enrollment
certificate of incorporation
certificate of indebtedness
certificate of insurance
certificate of invention
certificate of origin
certificate of proficiency
certificate of registry
certificate of stock
certified check
certified copy
certified mail
certified milk
certified public accountant
certified teacher
cerulean blue
cerulean warbler
ceruleo-
cervical smear
cervico-
cervico-occipital
cervico-orbicular
ceryl alcohol
cessation of combat
cessation of life
cessio bonorum
cestui que trust
cestui que use
cet-
cetane number
cetane rating
cetera desunt
ceteris paribus
cetyl alcohol
cetyl palmitate
cetylic acid
cetylic alcohol
cevitamic acid
cgs units
cha-cha
cha-cha-cha
cha-chaed
cha-chaing
cha-chas
chac-chac
chack-bird
chafe at the bit
chafe iron
chafe-wax
chaff scale
chaff-flower
chaff-weed
chaffer whale
chaffeur-ship
chafing dish
chafing gear
chafing pan
chagas' disease
chagual gum
chai meu
chai vai
chain argument
chain armor
chain banking
chain belt
chain bit
chain block
chain boat
chain bolt
chain brake
chain cable
chain cent
chain closure
chain conveyer
chain coral
chain pulley
chain pump
chain reaction
chain reactor
chain reasoning
chain reflex
chain riveting
chain rule
chain saw
chain shot
chain smoker
chain smoking
chain snake
chain splice
chain stitch
chain store
chain survey
chain syllogism
chain tape
chain tongs
chain towing
chain twist
chain victory to your car
chain wale
chain warper
chain welder
chain well
chain wheel
chain whip
chain winding
chain wrench
chain-bag
chain-bridge
chain-driven
chain-drooped
chain-grate stoker
chain-mail armor
chain-pull lamp holder
chain-pull switch
chain-pump
chain-react
chain-reacting
chain-reacting pile
chain-shaped
chain-shot
chain-smoke
chain-smoked
chain-smoker
chain-smoking
chain-spotted
chain-stitch
chain-stitching
chain-swung
chain-testing
chain-wale
chain-welding
chain-work
chaining pin
chair arm
chair back
chair bed
chair binder
chair bottom
chair bottomer
chair cane
chair car
chair leg
chair lift
chair of English
chair organ
chair rail
chair seat
chair seater
chair shaper
chair table
chair turner
chair, the
chair-fast
chair-mortising
chair-shaped
chair-warmer
chairman of the board
chaise cart
chaise d'or
chaise longue
chaise longues
chaise lounge
chaise-longue
chaise-marine
chaises longues
chakazzi copal
chalcedony yellow
chalcid fly
chalcid wasp
chalcis fly
chalco-
chalice cell
chalice flower
chalice moss
chalice veil
chalice vine
chalk and talk
chalk burner
chalk cliff
chalk down
chalk dust
chalk engraving
chalk flint
chalk hill
chalk lime
chalk line
chalk maple
chalk mixture
chalk out
chalk pit
chalk plant
chalk process
chalk quarry
chalk stripe
chalk talk
chalk talker
chalk up
chalk-eating
chalk-eyed
chalk-plate process
chalk-stone
chalk-talk
chalk-white
challenge comparison
challenge cup
chamber acid
chamber barrister
chamber blast
chamber chorus
chamber composer
chamber concert
chamber council
chamber counsel
chamber fellow
chamber filter
chamber gas
chamber horse
chamber kiln
chamber master
chamber mastering
chamber music
chamber of commerce
chamber of horrors
chamber opera
chamber orchestra
chamber organ
chamber pot
chamber practice
chamber process
chamber sonata
chamber stool
chamber study
chamber train
chamber vessel
chamber-deacon
chamber-master
chambered nautilus
chameleon grass
chameleon mineral
chameleon tree frog
chamfer bit
chamfer plane
chamois cloth
chamois leather
chamois skin
chamois yellow
champ at the bit
champaca oil
champagne cider
champagne cocktail
champagne cup
champaign country
champing at the bit
champion oak
champion tooth
champleve enamel
chance arrival
chance at odds
chance bairn
chance child
chance discovery
chance event
chance hit
chance it
chance on
chance upon
chance-dropped
chance-hit
chance-hurt
chance-medley
chance-met
chance-poised
chance-shot
chance-sown
chance-taken
chance-won
chancel organ
chancel screen
chancel table
chancellor of the exchequer
chancery court
chancery hand
chancery law
chandeliers tree
chang awn
change back
change bowler
change color
change course
change down
change for
change for the better
change for the worse
change front
change gear
change hands
change house
change into
change key
change of allegiance
change of commitment
change of conviction
change of heart
change of life
change of loyalty
change of mind
change of one thing for another
change of pace
change of venue
change off
change over
change ownership
change place
change places with
change point
change ratio
change residence
change ringing
change round
change sides
change the bearing
change the heading
change the preponderance
change to a former state
change to something different
change up
change wheel
change with the times
change your allegiance
change your colors
change your identity
change your mind
change your note
change your song
change your tune
change your ways
change-case key
change-house
change-over
change-over switch
change-ringing
change-speed gear
change-up
changed for the better
changement de pied
changements de pied
changer-off
changing bag
changing note
changing tone
channel bar
channel bass
channel board
channel bolt
channel cat
channel filter
channel goose
channel iron
channel patch
channel plate
channel rail
channel selector
channel steel
character witness
character woman
characteristic curve
characteristic equation
characteristic function
characteristic polynomial
characteristic root
characteristic subgroup
characteristic value
characteristic vector
characteristic velocity
characteristic x-ray
charcoal black
charcoal burner
charcoal drawing
charcoal fire
charcoal furnace
charcoal gray
charcoal grey
charcoal iron
charcoal oven
charcoal paper
charcoal pencil
charcoal pit
charcoal plate
charcoal point
charcoal powder
charcoal rot
charcoal tree
charcoal wood
charcoal-burner
charcoal-gray
charga-plate
charge account
charge book
charge card
charge carrier
charge conjugation
charge d'affaires
charge density
charge for
charge hand
charge in
charge nurse
charge of quarters
charge off
charge on
charge plate
charge sheet
close the jury
close to
close to experience
close to the jury
close to your account
close up
close upon
close weigher
close with
close-a-plate
close-exchange accelerator
close-house
charge-off
closeable to
close to
close up
close charges forward
close of the jury
close order
close rate
close stick
chariot driver
chariot driving
chariot plane
chariot pole
chariot race
chariot racer
chariot side
chariot wheel
chariot-shaped
charismatic figure
charismatic gift
charismatic leader
charismatic movement
charismatic renewal
charity ball
charity bazaar
charity boy
charity case
charity commission
charity girl
charity house
charity school
charity stamp
charity ward
charity work
charity worker
charles's wain
charley horse
charlotte russe
charm school
charm the birds out of the trees
charm-bound
charm-built
charm-engirdled
charm-struck
charmed circle
charmed life
charnel house
chart a course
chart house
chart room
charter colony
charter hand
charter hold
charter land
charter member
charter party
charter school
charter-party
chartered accountant
chartered bus
chartreuse green
chartreuse tint
chartreuse yellow
chase after
chase away
chase gun
chase halter
chase hoop
chase mortise
chase mortised
chase off
chase out
chase piece
chase port
chase ring
chase up a stump
chase up a tree
chase women
chase your tail
chase-hooped
chase-hooping
chase-mortised
chaser hob
chasing lathe
chasse-maree
chassis fitter
chassis painter
chaste and fair
chaste as morning dew
chaste tree
chastity belt
chat show
chat up
chateau gray
chateau wine
chaton foil
chattel house
chattel interest
chattel mortgage
chattel slave
chattels personal
chattels real
chatter mark
chatter water
chatterbox tree
chattering of the teeth
chaud-froid
chaud-melle
chaulmoogra oil
chaun-
chaw-bacon
chaw-stick
che sara sara
che-choy
cheadle dock
cheap as dirt
cheap at half the price
cheap at the price
cheap item
cheap money
cheap rates
cheap shot
cheap skate
cheap-jack
cheap-john
cheat death
cheat on
cheat the undertaker
check a parameter
check and doublecheck
check binding
check boy
check brace
check chamber
check collar
check endorser
check exchange
check folio
check gauge
check girl
check in
check in and out
check in full career
check key
check line
check list
check lock
check mark
check nut
check of
check off
check on
check out
check over
check over and through
check punch
check puncher
check rail
check ring
check roller
check sheet
check side
check stamp
check stamper
check stopper
check system
check the growth of
check the helm
check through
check up
check up and down
check up on
check valve
check washer
check your speech
check-canceling
check-endorsing
check-flood
check-in
check-out
check-out pilot
check-over
check-perforating
check-roll
check-stone
check-string
check-writing
checked out
checked-out
checker plate
checker tree
checker-berry
checker-brick
checker-roll
checker-up
checkered lily
checkered plate
checking account
checking signals
checks and balances
cheddar pink
chee-chee
cheek block
cheek by cheek
cheek by jowl
cheek cut
cheek knee
cheek pouch
cheek strap
cheek to cheek
cheek tooth
cheek-by-jowl
cheer on
cheer pine
cheer the inner man
cheer to the very echo
cheer up
cheer-up
cheerful consent
cheerful expectation
cheerful fire
cheerful giver
cheerful outlook
cheerful readiness
cheery mood
cheery vein
cheese bail
cheese basket
cheese blintz
cheese block
cheese bolt
cheese cake
cheese cement
cheese chandler
cheese color
cheese cutter
cheese dream
cheese finger
cheese fly
cheese grater
cheese hoop
cheese it
cheese knife
cheese maggot
cheese maker
cheese making
cheese mite
cheese mold
cheese pitch
cheese plate
cheese press
cheese rack
cheese rennet
cheese running
cheese scoop
cheese skipper
cheese souffle
cheese straw
cheese toaster
cheese trier
cheese tub
cheese vat
cheese wring
cheese-head
cheese-headed
cheese-paring
cheesebox seat
cheesed off
cheeseparings and candle ends
chef d'oeuvre
chef d'oeuvre
chef d'ouvre
chef de cuisine
chef salad
chequer-work
chequered flag
cherchez la femme
cherish a belief
cherish a feeling
cherish an idea
cherish at the heart’s core
cherish the hope
cherish the memory of
cherokee rose
cheroonjie nut
cherry aphid
cherry apple
cherry bay
cherry birch
cherry bird
cherry bomb
cherry bounce
cherry brandy
cherry chopper
cherry coal
cherry coffee
cherry cordial
cherry country
cherry crab
cherry crush
cherry currant
cherry fair
cherry finch
cherry fruit fly
cherry fruit sawfly
cherry grader
cherry gum
cherry holly
cherry laurel
cherry leaf beetle
cherry leaf spot
cherry maggot
cherry mildew
cherry orange
cherry pepper
cherry picker
cherry pie
cherry pit
cherry pitter
cherry plum
cherry red
cherry rum
cherry scab
cberry scale
cberry seeder
cberry slug
cberry smash
cberry stone
cberry stoner
cberry sucker
cberry tomato
cberry wine
cberry-bob
cberry-cheeked
cberry-colored
cberry-crimson
cberry-flavored
cberry-laurel oil
cberry-lipped
cberry-merry
cberry-pie
cberry-red
cberry-ripe
cberry-rose
cberry-tree gum
cberry-wood
chert quarrier
chesapeake bay retriever
cheshire cat
cheshire cheese
chess apple
chess clock
chess notation
chess opening
chess rook
chess-apple
chess-men
chess-playing machine
chess-tree
chessylite blue
chest X-ray
chest expander
chest founder
chest foundering
chest lid
chest lock
chest maker
chest measurer
chest note
chest of drawers
chest of viols
chest protector
chest register
chest tone
chest voice
chest wall
chest weight
chest-deep
chest-founndered
chest-on-chest
chested arrow
chester white
chestnut bean
chestnut blight
chestnut borer
chestnut bottle
chestnut brown
chestnut bud
chestnut clam
chestnut coal
chestnut extract
chestnut flour
chestnut oak
chestnut roaster
chestnut sedge
chestnut shell
chestnut stuffing
chestnut timber worm
chestnut tongue
chestnut tree
chestnut weevil
chestnut-backed
chestnut-bark disease
chestnut-bellied
chestnut-brown
chestnut-collared
chestnut-colored
chestnut-crested
chestnut-crowned
chestnut-red
chestnut-roan
chestnut-sided
chestnut-winged
cheval de bataille
cheval de frise
cheval glass
cheval screen
cheval-de-frise
cheval-glass
chevalier bird
chevalier crab
chevaux de bataille
chevaux-de-frise
chevron-shaped
chew ass
chew out
chew over
chew the cud
chew the fat
chew the rag
chew the scenery
chew up
chew up the scenery
chew your
chewing gum
chewing louse
chewing tobacco
chewing-out
chez soi
chi-lin
chi-rho
chi-square
chi-square distribution
chi-square test
chi-squared test
chian turpentine
chica red
chick-pea
chickasaw plum
chicken Cacciatore
chicken Kiev
chicken Marengo
chicken Tetrazzini
chicken and dumplings
chicken bird
chicken breast
chicken broth
chicken cholera
chicken colonel
chicken coop
chicken corn
chicken fancier
chicken farm
chicken farmer
chicken farming
chicken feed
chicken foot
chicken grape
chicken gumbo
chicken halibut
chicken hawk
chicken hazard
chicken heart
chicken house
chicken ladder
chicken liver
chicken louse
chicken mite
chicken out
chicken paprikas
chicken pepper
chicken pest
chicken plover
chicken pox
chicken ranch
chicken roost
chicken salad
chicken septicemia
chicken snake
chicken soup
chicken switch
chicken thief
chicken tick
chicken tortoise
chicken turtle
chicken wire
chicken yard
chicken-billed
chicken-brained
chicken-breasted
chicken-breastedness
chicken-farming
chicken-hazard
chicken-hearted
chicken-heartedly
chicken-heartedness
chicken-livered
chicken-liveredness
chicken-meat
chicken-spirited
chicken-toed
chickens-toes
chickling vetch
chickweed family
child psychology
child rearing
child welfare
child's play
child-bearing
child-bereft
child-birth
child-fashion
child-god
child-hearted
child-heartedness
child-loving
child-minded
child-mindedness
childbed fever
childhood's careless days
childish scrawl
childish treble
children of Israel
children of darkness
children of the devil
children's book
children's dictionary
children's hospital
children's librarian
children's magazine
children's shop
children's wear
chile con carne
chile niter
chile saltpeter
chile sauce
chili and beans
chili con carne
chili pepper
chili powder
chili sauce
chili vinegar
chilio-
chill along the spine
chill casting
chill mold
chill plow
chill to the bone
chill to the marrow
chill your spine
chill-cast
chilled to the bone
chilli con carne
chilli pepper
chilli powder
chilli sauce
chilling wind
chills of fear
chills of terror
chilo-
chime hoop
chime in
chime in with
chime of bells
chime whistle
chiming bell
chimley neuck
chimney bar
chimney bellflower
chimney board
chimney breast
chimney cap
chimney corner
chimney flute
chimney glass
chimney hook
chimney jack
chimney lug
chimney money
chimney piece
chimney pink
chimney plant
chimney pot
chimney repairer
chimney rock
chimney stack
chimney stalk
chimney swallow
chimney sweep
chimney sweeper
chimney swift
chimney tax
chimney throat
chimney top
chimney tun
chimney wheel
chimney wing
chimney-piece
chimney-pot hat
chin cough
chin fly
chin music
chin rest
chin shield
chin stay
chin strap
chin whiskers
chin-bearded
chin-bone
chin-chin
chin-chinned
chin-chinning
chin-deep
chin-high
chin-up
chin-wag
china aster
china bark
china cabinet
china clay
china closet
china decorator
china painter
china painting
china rose
china shop
china stone
china tree
china-mania
chinaberry tree
chinar tree
chinbeak molding
chinch bug
chine gall
chine hoop
chinese cabbage
chinese chestnut
chinese date
chinese lacquer
chinese lantern
chinese puzzle
chinese wall
chinese white
chinic acid
chink in your armor
chink-backed
chinked back
chinking course
chinless wonder
chino-
chinook jargon
chinook salmon
chinook wind
chinquapin oak
chip ax
chip basket
chip bird
chip board
chip break
chip budding
chip carving
chip in
chip log
chip of
chip of the old block
chip off
chip off the old block
chip on the shoulder
chip on your shoulder
chip pan
chip ring
chip shot
chip-hat palm
chip-proof
chipped beef
chipper-up
chipping ax
chipping bit
chipping chisel
chipping hammer
chipping piece
chipping sparrow
chipping squirrel
chiquichiqui palm
chir pine
chir-
chirk up
chiro-
chirp like a cricket
chisel bit
chisel grinder
chisel in
chisel maker
chisel making
chisel point
chisel steel
chisel temper
chisel tooth
chisel-cut
chisel-edged
chisel-pointed
chisel-shaped
chit-chat
chitino-arenaceous
chito melon
chittam bark
chittem bark
chitter-chatter
chittim bark
chitty-face
chive garlic
chlor-
chloracetic acid
chloral hydrate
chloramine-T
chloric acid
chloric ether
chloride of lime
chloride paper
chlorinated lime
chlorine azide
chlorine dioxide
chlorine family
chlorine peroxide
chlorine water
chloro-
chloroacetic acid
chlorobromid paper
chlorobromide paper
chloroformyl chloride
chlorophenol red
chlorophyll a
chlorophyll b
chlorophyll body
chloroplatinic acid
chlorosulfonic acid
chlorous acid
choc-ice
chock cheese
chock stone
chock-a-block
chock-full
chocolate bar
chocolate brown
chocolate cake
chocolate candy
chocolate chip cookie
chocolate corn
chocolate coverer
chocolate dipper
chocolate drop
chocolate eclair
chocolate family
chocolate milk
chocolate mill
chocolate mixer
chocolate mold
chocolate molder
chocolate molding
chocolate mousse
chocolate packer
chocolate pudding
chocolate sifter
chocolate soldier
chocolate tree
chocolate wrapper
chocolate-box
chocolate-brown
chocolate-coated
chocolate-colored
chocolate-flower
chocolate-red
choctaw-root
choice bit of dirt
choice morsel
choice of Hercules
choice of words
choice reaction
choice-drawn
choir aisle
choir chaplain
choir invisible
choir loft
choir manual
choir member
choir organ
choir rail
choir school
choir screen
choir stall
choir wall
choke apple
choke back
choke coil
choke collar
choke off
choke on
choke out
choke pear
choke point
choke up
choke-
choke-bore
choke-full
choked off
choked up
choked voice
choker setter
choking coil
choking off
chol-
cholane series
chole-
cholera horn
cholera infantum
cholera morbus
cholera nostras
cholic acid
choline esterase
cholo-
chomp at the bit
chondr-
chondro-
chondro-osseous
chondroitin-sulphuric
chondrotrophic hormone
choo-choo
choo-choo train
choo-chooed
choo-chooing
choof off
choose out
choose rather
choose to
choose up
chop and change
chop chop
chop dollar
chop down
chop logic
chorioallantoic membrane
chorionic gonadotrophin
chorionic gonadotropin
choroid coat
choroid membrane
choroid plexus
chorus boy
chorus frog
chorus girl
chorus man
chorus of cheers
chorus reed
chorus show
chorus singer
chose in possession
chose local
chose transitory
chosen freeholder
chosen kind
chosen people
chosen sort
choses in action
choses in possession
choses local
choses transitory
chota hazri
chou moellier
chou paste
chou pastry
chou-fleur
chouse out of
choux pastry
chow chow
chow down
chow line
chow mein
chow-chow
chrisom child
christ's-thorn
christ-cross
christ-cross-row
christ-like
christ-tide
christcross-row
christian brother
christian dor
christian era
chrome-tanned
chrome-vanadium steel
chromic acetate
chronic acid
chronic chloride
chronic fluoride
chromium acetate
chromium ammonium sulfate
chromium chloride
chromium family
chromium green
chromium oxide
chromium plate
chromium potassium sulfate
chromium sesquioxide
chromium steel
chromium trioxide
chromium yellow
chromium-plate
chromium-plated
chromo-
chromo-arsenate
chromosome complement
chromosome number
chromyl chloride
chron-
chronic alcoholic
chronic alcoholism
chronic bronchitis
chronic condition
chronic disease
chronic drunk
chronic ill health
chronic infectious arthritis
chronic inflammation
chronic leukemia
chronic pauperism
chronic poor
chronic poverty area
chronicle drama
chronicle history
chronicle play
chronique scandaleuse
chroniques scandaleuses
chrono-
chronological error
chronometer escapement
chrys-
chrysalis oil
chrysanthemum dog
chrysanthemum rust
criso-
chrysolite green
chrysoprase green
chthonian worship
chub mackerel
chub sucker
chub-faced
chubby-faced
chuck and toss
chuck at
chuck farthing
chuck in
chuck it
chuck out
chuck plate
chuck rib
chuck roast
chuck steak
chuck under the chin
chuck up
chuck wagon
chuck-a-luck
chuck-farthing
chuck-full
chuck-luck
chuck-will's-widow
chucker-out
chuckers-out
chucking lathe
chucking out
chucking reamer
chucky-chuck
chucky-chucky
chug on
chug-a-lug
chug-chug
chukar partridge
chukka boot
chukka boots
chukker brown
chulan family
chum salmon
chum together
chum with
chump end
chupa-chupa
church bell
church book
church calendar
church council
church dignitary
church door
church father
church feast
church furnishing
church house
church invisible
church key
church member
church militant
church mode
church mouse
church music
church of england
church office
church organ
church parade
church part
church rate
church school
church seat
church service
church slavic
church suffering
church text
church triumphant
church vessel
church visible
church wedding
church work
church worker
church year
church-ale
church-chopper
church-door
church-gang
church-garth
church-government
church-papist
church-scot
church-soken
church-ward
churchyard cross
churidar pyjamas
churn drill
churn molding
churn out
churn supper
churn up
churn-buttred
churr-owl
churr-worm
chute system
chute the chute
chute the chutes
chute-the-chute
chute-the-chutes
chylo-
chym-
chymo-
ci-
ici-devant
ciba blue
cicada killer
cicatricial tissue
cich-pea
cider brandy
cider cup
cider gum
cider jack
cider maker
cider making
cider mill
cider press
cider tree
cider vinegar
cider wine
cigar beetle
cigar binder
cigar box
cigar case
cigar case-bearer
cigar clipper
cigar cutter
cigar holder
cigar lighter
cigar machine
cigar machinist
cigar maker
cigar making
cigar mold
cigar molder
cigar packer
cigar roller
cigar rolling
cigar smoker
cigar sorter
cigar spot
cigar store
cigar-box cedar
cigar-flower
cigar-loving
cigar-shaped
cigar-smoker
cigar-store Indian
cigarette beetle
cigarette break
cigarette butt
cigarette card
cigarette case
cigarette drain
cigarette end
cigarette factory
cigarette girl
cigarette holder
cigarette lighter
cigarette machine
cigarette maker
cigarette making
cigarette paper
cigarette roller
cigarette smuggling
cigarette sorter
cigarette tobacco
cigarette-smoker
ciliary body
ciliary muscle
ciliary process
ciliate-leaved
ciliate-toothed
cilo-spinal
cinch bill
cinch up
cinchona bark
cinder block
cinder breaker
cinder concrete
cinder cone
cinder frame
cinder gray
cinder mill
cinder notch
cinder patch
cinder path
cinder pig
cinder pit
cinder tap
cinder track
cine camera
cine film
cine-
cinema operator
cinema red
cinema theater
cinema verite
cinerary urn
cineres clavellati
cingulate gyrus
cinema vrit
cinnabar green
cinnabar red
cinnamic acid
cinnamic alcohol
cinnamic aldehyde
cinnamon apple
cinnamon bark
cinnamon bear
cinnamon brown
cinnamon fern
cinnamon flower
cinnamon honeysuckle
cinnamon oak
cinnamon oil
cinnamon rose
cinnamon sedge
cinnamon stone
cinnamon teal
cinnamon vine
cinnamon water
cinnamon-bark oil
cinnamon-leaf oil
cinnamoyl group
cinnamoyl radical
cinnamyl acetate
cinnamyl group
cinnamyl radical
cinque point
cinque ports
cinque-spotted
cipher disk
cipher up
circassian walnut
circle brick
circle cutter
circle driller
circle finisher
circle geometry
circle graph
circle in
circle of confusion
circle of convergence
circle of curvature
circle of least confusion
circle of the sphere
circle out
circle setter
circle shear
circle shears
circle squarer
circle theater
circle tour
circle trowel
circle-branching
circle-in
circle-out
circle-shearing
circle-squaring
circle-wise
circled about
circling boy
circling disease
circling-in
circling-out

circuit analysis
circuit analyzer
circuit binding
circuit breaker
circuit court
circuit court of appeals
circuit drive
circuit edges
circuit judge
circuit justice
circuit network
circuit rider
circuit training
circuit-riding
circuital field
circular argument
circular constant
circular error
circular error probable
circular function
circular knitting
circular letter
circular light
circular measure
circular mil
circular note
circular pitch
circular plane
circular polarization
circular probable error
circular sailing
circular saw
circular triangle
circular velocity
circular-cut
circular-cut file
circular-knit
circulate a petition
circulating capital
circulating capital goods
circulating decimal
circulating equation
circulating library
circulating medium
circulatory collapse
circulatory disease
circulatory system
circum-
circum-meridian
circumflex accent
circumscribed by
circumstantial evidence
circumvent the law
circus artist
circus make-up
circus movement
circus performer
circus rider
circus tent
circus troupe
cire perdue
cire-perdue
cirl bunting
cirque-couchant
cirr-
cirrh-
cirrhosis of the liver
cirrhotic inflammation
cirro-
cirro-cumular
cirro-cumulative
cirro-cumulous
cirro-cumulus
cirro-fillum
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratous
cirro-stratus
cirro-velum
cirrocumulus castellanus
cirrocumulus castellatus
cirrocumulus floccus
cirrocumulus lenticularis
cirrocumulus stratiformis
cirrostratus fibratus
cirrostratus filosus
cirrostratus nebulosus
cirrus castellanus
cirrus castellatus
cirrus cloud
cirrus densus
cirrus fibratus
cirrus floccus
cirrus haze
cirrus intortus
cirrus nothus
cirrus spissatus
cirrus stripe
cirrus uncinus
cis-
cis-Elizabethan
cis-elysian
cis-polyisoprene rubber
cis-trans
cis-trans test
cist grave
cistern barometer
cite a case in point
cite a particular
cite cases in point
cite on several counts
cite particulars
citizen by adoption
citizen of the world
citizens band
citizenship by adoption
citizenship by birth
citizenship by naturalization
citizenship paper
citizenship papers
cito disp
citr-
citra-
citrate of magnesia
citric acid
citric acid cycle
citricola scale
citron butterfly
citron green
citron melon
citron water
citron wood
citron yellow
citron-colored
citron-yellow
citronella circuit
citronella grass
citronella oil
citrovorum factor
citrus anthracnose
citrus belt
citrus black fly
citrus blast
citrus canker
citrus fruit
citrus nematode
citrus rust mite
citrus scab
citrus white fly
city block
city blues
city board
city center
city chicken
city company
city council
city councilman
city court
city crop
city desk
city directory
city district
city dweller
city edition
city editor
city father
city gas
city hall
city man
city manager
city mission
city missionary
city of the dead
city plan
city planner
city planning
city room
city slicker
city ward
city-born
city-bound
city-bred
city-commonwealth
city-god
city-manager plan
city-state
city-wide
civet bean
civet cat
civet fruit
civet-cat
civette green
civic centre
civic crown
civic garland
civic wreath
civic-minded
civic-mindedly
civic-mindedness
civil affairs
civil architect
civil architecture
civil ceremony
civil code
civil court
civil day
civil death
civil defence
civil defense
civil disobedience
civil disorder
civil engineer
civil engineering
civil government
civil jurisdiction
civil law
civil liberties
civil liberty
civil list
civil marriage
civil rights
civil servant
civil service
civil time
civil war
civil wedding
civil year
civil-law
civil-rights
civilian clothes
civilian dress
civilized behavior
civilized taste
clabber up
cluck box
cluck door
cluck goose
cluck valve
clado-
claim agent
claim as your right
claim attention
claim jumper
claim sanctuary
claim squatter's right
claim to be
claim your mind
claim your pound of flesh
claim your thoughts
class list
class lottery
class mark
class meaning
class meeting
class name
class number
class prejudice
class publication
class rate
class ring
class structure
class struggle
class war
class warfare
class-cleavage
class-conscious
classic blues
classic example
classic purity
classical Nahuatl
classical Sanskrit
classical abstraction
classical ballet
classical college
classical conditioning
classical economics
classical economist
classical education
classical guitar
classical guitarist
classical language
classical mechanics
classical music
classical physics
classical pitch
classical purity
classical scholarship
classical tragedy
classico-
classico-lombardic
classification schedule
classification society
classification track
classification yard
classified ad
classified advertisement
classified advertising
clay miner
clay mineral
clay mixer
clay model
clay modeler
clay pan
clay pigeon
clay pipe
clay pit
clay press
clay pressman
clay pugger
clay pulverizer
clay sculpture
clay shale
clay slate
clay soil
clay stacker
clay stone
clay temperer
clay washer
clay works
clay worsted
clay-bound
clay-built
clay-cold
clay-colored
clay-colored sparrow
clay-digging
clay-dimmed
clay-drying
clay-faced
clay-filtering
clay-forming
clay-grinding
clay-lined
clay-mixing
clay-tempering
clay-washing
clay-wrapped
clayver-grass
clean as a hound's tooth
clean as a new penny
clean as a whistle
clean bill of health
clean bomb
clean forget
clean forgotten
clean full
clean hands
clean house
clean out
clean profit
clean room
clean rum
clean slate
clean sweep
clean up
clean up on
clean-
clean-appearing
clean-armed
clean-boled
clean-bred
clean-built
clean-complexioned
clean-cut
clean-faced
clean-feeding
clean-fingered
clean-grained
clean-handed
clean-legged
clean-limbed
clean-lived
clean-living
clean-looking
clean-made
clean-minded
clean-moving
clean-sailing
clean-saying
clean-seeming
clean-shanked
clean-shaped
clean-shaved
clean-shaven
clean-skin
clean-skinned
clean-smelling
clean-souled
clean-speaking
clean-sweeping
clean-thinking
clean-timbered
clean-washed
cleaned up
cleaner cell
cleaner tooth
cleaner-off
cleaner-out
cleaner-up
cleaning agent
cleaning crop
cleaning devices
cleaning fluid
cleaning hinge
cleaning lady
cleaning man
cleaning out
cleaning shoe
cleaning solvent
cleaning up
cleaning woman
cleanly habits
cleanse away
cleanse yourself of guilt
cleansing away
cleansing cream
cleansing tissue
clear and distinct
clear as crystal
clear as day
clear as ditch water
clear as glass
clear as mud
clear as the nose on your face
clear away
clear coast
clear conscience
clear course
clear eyes
clear for action
clear hawse
clear obscure
clear of
clear off
clear off old scores
clear out
clear plastic
clear profit
clear road
clear sailing
clear shellac
clear-spirited
clear-starch
clear-starcher
clear-stemmed
clear-story
clear-sunned
clear-throated
clear-tinted
clear-toned
clear-up
clear-visioned
clear-voiced
clear-walled
clear-witted
clearance angle
clearance car
clearance fit
clearance loan
clearance papers
clearance sale
clearance size
clearance space
clearer fabric
clearing agent
clearing bank
clearing bath
clearing bearing
clearing house
clearing lease
clearing loan
clearing mark
clearing nut
clearing of the track
clearing of your name
clearing out
clearing pole
clearing the decks
clearing up
clearinghouse agent
clearinghouse stock
clearly visible
clearwing moth
cleat work
cleavage cavity
cleavage cell
cleavage crystal
cleavage nucleus
cleave to
cleft grafting

cleft lip

cleft palate

cleft sentence

cleft weld

cleft-footed

cleft-graft

cleido-mastoid

cleido-occipital

cleidoic egg

clench your fist at

clench-built

clergy house

clerical collar

clerical error

clerical garments

clerical insignia

clerical order

clerico-
clerico-political

clerk in holy orders

clerk of the HouseBrit

clerk of the works

clerk regular

clerk vicar

clerk-ale

clerks regular

clero-
clever Dick

clever reply

clever retort

clever-clever

clever-handed

clevis bolt

clew down

clew garnet

clew iron

clew jigger

clew line

clew ring

clew rope

clew up

cliche-ridden

click beetle

click catch

click hook
click iron
click pulley
click wheel
click-clack
clickety-clack
clickety-click
client's indemnity
client-centered therapy
cliff brake
cliff dweller
cliff dwelling
cliff edge
cliff elm
cliff face
cliff hanger
cliff path
cliff rose
cliff ruin
cliff swallow
cliff top
cliff wall
cliff-bound
cliff-chafed
cliff-girdled
cliff-hanger
cliff-hanging
cliff-marked
cliff-worn
climactic arthritis
climatic bubo
climatic chart
climax basket
climax forest
climb Parnassus
climb down
climb indicator
climb milling
climb on
climb over
climb up
climb your frame
climb-down
climbing bittersweet
climbing fern
climbing fish
climbing frame
climbing fumitory
climbing hempweed
climbing hydrangea
climbing iron
climbing irons
climbing perch
climbing rose
climbing ylang-ylang
clin-
clinch joint
clinch nail
clinch work
clinch-built
clincher tire
clincher work
clincher-built
clinching iron
cling like a burr
cling like a winkle
cling like ivy
cling to
cling to the hope
cling-rascal
clinging vine
clinical death
clinical dextran
clinical diagnosis
clinical medicine
clinical pathology
clinical psychologist
clinical psychology
clinical surgery
clinical thermometer
clink shell
clink-clank
clinker beech
clinker boat
clinker brick
clinker plating
clinker strake
clinker work
clinker-built
clinker-laid plating
clinkety-clink
clinkum bell
clino-
clintonite group
clip bond
clip hook
clip joint
clip off
clip plate
clip the wings
clip the wings of
clip tongs
clip yoke
clip your words
clip-clop
clip-edged
clip-fed
clip-marked
clip-on
clip-winged
clipped form
clipped word
clipper bow
clipper ship
clipper sled
clipper-built
clippety-clop
clipping bureau
clipping time
clique with
clish-clash
clish-ma-claver
cloaca maxima
cloaca maxima
cloacae maximae
cloak baster
cloak dealer
cloak fern
cloak fitter
cloak hanger
cloak ironer
cloak maker
cloak operator
cloak pin
cloak presser
cloak trimming
cloak yourself
cloak yourself with
cloak-and-dagger
cloak-and-dagger operative
cloak-and-dagger work
cloak-and-suiter
cloak-and-sword
cloak-fashion
cloak-room
cloaked in darkness
clock card
clock chart
clock correction
clock error
clock golf
clock in
clock jack
clock meter
clock movement
clock off
clock on
clock out
clock plant
clock radio
clock setter
clock spring
clock stamp
clock star
clock tower
clock up
clock watch
clock watcher
clock winder
clock winding
clock-hour
clock-making
clock-minded
clock-watcher
clock-watching
clock-work
clockface method
clockwork regularity
clod crusher
clod crushing
clod fender
clod poll
clod pulverizer
clod roller
clod smasher
clod-brown
clod-hopper
clod-pate
clod-poll
clod-tongued
clodding press
clog almanac
clog dance
close off
close on
close or watchful attention
close out
close position
close quarters
close quote
close quotes
close range
close reach
close replica
close reproduction
close resemblance
close season
close secrecy
close shave
close shop
close shot
close squeak
close string
close study
close the books
close the circle
close the conning tower hatch
close the door on
close the eyes to
close the hand
close the jaws of the pincers
close the jaws of the trap
close the light
close the purse
close the shutters
close tight
close to
close to the wind
close to your chest
close to your heart
close up
close up like a clam
close upon
close with
close with the land
close your ears
close your eyes
close your eyes to
close your mind
close your mouth
close-annealed
close-mouthed
close-order drill
close-out
close-packed
close-partnered
close-pent
close-piled
close-pressed
close-reef
close-reefed
close-ribbed
close-rounded
close-set
close-shanked
close-shaven
close-shut
close-soled
close-standing
close-sticking
close-stool
close-talking microphone
close-tempered
close-textured
close-thinking
close-tongued
close-up
close-visaged
close-winded
close-woven
close-written
closed arc
closed book
closed chain
closed circle
closed circuit
closed company
closed cornice
closed corporation
closed couplet
closed forever to
closed fracture
closed game
closed gentian
closed loop
closed meeting
closed mind
closed mortgage
closed primary
closed scholarship
closed sentence
closed sequence
closed shell
closed shop
closed sphere
closed string
closed system
closed to
closed traverse
closed union
closed-circuit
closed-circuit cell
closed-circuit grinding
closed-circuit telegraphy
closed-circuit television
closed-circuit winding
closed-coil
closed-coil armature
closed-door
closed-end
closed-end fund
closed-end investment company
closed-in
closed-loop system
closed-minded
closed-out
closely related
closet cynic
closet drama
closet queen
closet yourself with
closeup lens
closing costs
closing error
closing machine
closing off
closing price
closing time
closing up
closing-out sale
closure by compartment
closure rail
clot-bird
clot-bur
clot-poll
cloth baler
cloth beam
cloth beetler
cloth binding
cloth board
cloth brusher
cloth cap
cloth carbonizer
cloth cleaner
cloth clipper
cloth coat
cloth cutter
cloth doubler
cloth dresser
cloth drier
cloth finisher
cloth folder
cloth fuller
cloth hall
cloth lapper
cloth maker
cloth measure
cloth measurer
cloth mercer
cloth miller
cloth napper
cloth numberer
cloth of gold
cloth oil
cloth packer
cloth paper
cloth piecer
cloth plate
cloth press
cloth presser
cloth printer
cloth prover
cloth red
cloth roll
cloth scourer
cloth shearer
cloth shrinker
cloth slit
cthe cloth sorter
cloth stapler
cloth stitch
cloth stretcher
cloth tape
cloth tenter
cloth tester
cloth warper
cloth weaver
cloth weigher
cloth yard
cloth yard shaft
cloth-backed
cloth-calendering
cloth-covered
cloth-cropping
cloth-cutting
cloth-drying
cloth-dyeing
cloth-eared
cloth-faced
cloth-finishing
cloth-folding
cloth-inserted
cloth-laying
cloth-lined
cloth-maker
cloth-measuring
cloth-of-gold
cloth-shearing
cloth-shrinking
cloth-smoothing
cloth-sponger
cloth-spreading
cloth-stamping
cloth-testing
cloth-weaving
cloth-winding
cloth-yard
clothbound book
clothe in words
clothe with power
clothed in darkness
clothed with authority
clothes beater
clothes bin
clothes chest
clothes closet
clothes hamper
clothes hanger
clothes louse
clothes maid
clothes maiden
clothes moth
clothes peg
clothes pole
clothes post
clothes presser
clothes rack
clothes screen
clothes spoiling
clothes stick
clothes stop
clothes tree
clothes wringer
clothes-conscious
clothes-consciousness
clothes-drier
clothes-drying
clothes-peg
clothes-press
clothes-washing
clothing merchant
clothing store
clothing wool
cotted cream
cotting factor
coture by compartment
cloud band
cloud bank
cloud banner
cloud belt
cloud burst
cloud cap
ccloud chamber
ccloud city
ccloud cover
ccloud drift
ccloud forest
ccloud funnel
ccloud grass
ccloud gray
ccloud layer
ccloud mass
ccloud nine
ccloud of words
ccloud over
ccloud physics
ccloud point
ccloud rack
ccloud ring
ccloud seeder
ccloud seeding
cloud shapes
cloud stone
cloud street
cloud study
cloud up
cloud-ascending
cloud-barred
cloud-born
cloud-built
cloud-capped
cloud-capped peak
cloud-compacted
cloud-compeller
cloud-compelling
cloud-covered
cloud-crammed
cloud-crossed
cloud-cuckoo-land
cloud-curtained
cloud-dispelling
cloud-dividing
cloud-drowned
cloud-eclipsed
cloud-enveloped
cloud-flecked
cloud-girt
cloud-headed
cloud-hidden
cloud-kissing
cloud-laden
cloud-led
cloud-piercing
cloud-rocked
cloud-scaling
cloud-seeding
cloud-shaped
cloud-surmounting
cloud-surrounded
cloud-topped
cloud-topped peak
cloud-touching
cloud-woven
cloud-wrapped
clouded mind
clouded over
clouded sulfur
cloudless sulphur
clouds on the horizon
clout nail
cloit shoot
clout shot
cloat-shoe
clove brown
clove carnation
clove cassia
clove cinnamon
clove currant
clove gillyflower
clove hitch
clove hook
clove nutmeg
clove oil
clove pepper
clove pink
clove tree
clove-gillyflower
clove-strip
cloven foot
cloven hoof
cloven-footed
cloven-footedness
cloven-hoofed
clover aphid
clover bloom
clover blossom
clover broom
clover broomrape
clover cent
clover dodder
clover fern
clover grass
clover hay
clover hay worm
clover head
clover honey
clover leaf
clover mite
clover root
clover root borer
clover rot
clover seed
clover stubble
clover weevil
clover wilt
clover worm
clover-grass
club-headed
club-high
club-law
club-man
club-moss
club-moss family
club-riser
club-rush
club-shaped
clubfoot moss
clumber spaniel
clump block
clump foot
clump-head grass
clumsy performance
clumsy-fisted
cluster bean
cluster cup
cluster fig
cluster fir
cluster flower
cluster fly
cluster leg
cluster pine
cluster point
cluster variable
cluster wheat
cluster-cup lichen
cluster-cup stage
clusterhead pink
clutch bag
clutch shaft
clydesdale terrier
clypeo-
cn-
co-
co-adaptation
co-adjust
coadventure
coaforest
co-agency
coaallied
co-ally
coaappear
coaration
coaassessor
coaassist
coaattest
co-ax
co-bishop
co-brother
co-clause
co-conspirator
co-defendant
co-driver
co-ed
co-education
co-effect
co-efficacy
co-equate
co-establishment
co-estate
co-executor
co-exist
co-feoffee
co-guardian
co-infinite
co-inhabit
co-inhere
co-inheritor
co-labourer
co-latitude
co-lessee
co-life
co-mart
co-martyr
co-mate
co-nominee
co-obligant
co-oblige
co-obligor
co-occupant
co-occupy
co-occurrence
co-omnipotent
co-omniscient
co-op
co-operable
co-operancy
co-operant
co-operate
co-operation
co-operationist
co-operative
co-operatively
co-operativeness
co-operator
co-operculum
co-opt
co-optate
co-optation
co-optative
co-option
co-optive
co-ordain
co-ordainer
co-order
co-ordinacy
co-ordinal
co-ordinance
co-ordinancy
co-ordinate
co-ordinately
co-ordinativeness
co-ordination
co-ordination formula
co-ordination number
co-ordinative
co-ordinator
co-ordinatory
co-organize
co-origin
co-original
co-originality
co-orthogonal
co-orthotomic
co-ossification
co-ossify
co-owner
co-ownership
co-patriot
co-presence
co-radicate
co-regent
co-relation
co-religionist
co-respondent
co-rival
co-sentient
co-signatory
co-signer
co-sovereign
co-star
co-starred
co-starring
co-subordinate
co-supreme
co-sureties
co-surety
co-tenant
co-tidal
co-trustee
co-une
co-unite
co-use
co-versed
co-walker
co-widow
co-wife
co-winner
co-work
co-worker
co-working
co-worship
coach box
coach carver
coach coat
coach dog
coach driver
coach driving
coach guard
coach hire
coach horse
coach house
coach maker
coach painter
coach road
coach screw
coach-and-four
coach-box
coach-built
coach-whip
coaching glass
coaching house
coaching inn
coachwhip bird
coachwhip snake
coadjutor bishop
coa-
coagulated protein
coal backer
coal backing
coal ball
coal barge
coal barrow
coal basket
coal bin
coal blacking
coal blende
coal boat
coal brass
coal breaker
coal bucket
coal bunker
coal car
coal cart
coal cartman
coal cellar
coal checker
coal chute
coal cleaner
coal contractor
coal conveyer
coal crusher
coal cutter
coal depot
coal digger
coal discharger
coal dredger
coal drill
coal dump
coal dust
coal elevator
coal field
coal flap
coal fleet
coal furnace
coal gas
coal goose
coal grinder
coal hauler
coal hawker
coal heat
coal heaver
coal hewer
coal hod
coal hoist
coal hoist
coal hole
coal kiln
coal labeler
coal wharfinger
coal workings
coal works
coal-bearing
coal-black
coal-blue
coal-boring
coal-breaking
coal-burning
coal-cutting
coal-dark
coal-dumping
coal-elevating
coal-eyed
coal-faced
coal-fired
coal-fish
coal-gas
coal-handling
coal-house
coal-laden
coal-leveling
coal-loading
coal-man
coal-measure
coal-meter
coal-miner's lung
coal-picking
coal-pit
coal-producing
coal-pulverizing
coal-sack
coal-scuttle
coal-sifting
coal-stone
coal-tar
coal-tar creosote
coal-tar crude
coal-tar dye
coal-tar pitch
coal-tester
coal-tit
coal-whipper
coal-whipping
coal-works
coaling station
coalition government
coarse fish
coarse texture
course-featured
course-fibered
course-grained
course-grainedness
course-haired
course-handed
course-lipped
course-minded
course-skinned
course-spoken
course-spun
course-textured
course-tongued
course-toothed
course-wrought
coarseness of grain
coarseness of intellect
coast artillery
coast belt
coast fever
coast grass
coast guard
coast guard cutter
coast jointweed
coast lily
coast live oak
coast nutmeg
coast patrol
coast pilot
coast rat
coast redwood
coast rhododendron
coast seal
coast station
coast trade
coast trillium
coast-fishing
coast-guard cutter
coast-to-coast hookup
coastal navigation
coastal plain
coaster brake
coasting flight
coasting lead
coasting trade
coasting wagon
coastwise navigation
cobalt sulphate
cobalt therapy
cobalt ultramarine
cobalt violet
cobalt violet deep
cobalt violet light
cobalt vitriol
cobalt yellow
cobalt-
cobaltiferous wad
cobalto-
cobaltous hydroxide
cobble coal
cobble gravel
cobble rammer
cobble-stone
cobbler's wax
cobra de capello
cobra plant
cobra-hooded
cobras de capello
coburg loaf
cobweb bird
cobweb houseleek
cobweb micrometer
cobwebs of antiquity
cocaine family
cocaine plant
cocaine sniffer
coccidioidal granuloma
cocculus indicus
coccy-
coccygeo-anal
coccygeo-mesenteric
coccygo-
cochil sapota
cochin china
cochin oil
cochin-china
cochineal cactus
cochineal fig
cochineal insect
cochineal plant
cochit zapotl
cochlear duct
cochleariform process
cochon de lait
cochylis moth
cock a snook
cock a snook at
cock ale
cock and pie
cock head
cock bread
cock broth
cock crowing
cock feather
cock metal
cock of the walk
cock of the woods
cock penny
cock robin
cock schnapper
cock sorrel
cock sparrow
cock the ears
cock the eye
cock up
cock's head hinge
cock's-comb
cock's-foot
cock's-head
cock-a
cock-a-doodle
cock-a-doodle--dooed
cock-a-doodle--dooing
cock-a-doodle-doo
cock-a-doodle-doos
cock-a-hoop
cock-a-hooping
cock-a-hoopish
cock-a-hoopness
cock-a-leekie
cock-a-whoop
cock-and-bull
cock-and-bull story
cock-and-bull-story
cock-and-pinch
cock-as-hoop
cock-awhoop
cock-bill
cock-boat
cock-brain
cock-brained
cock-crow
cock-crowing
cock-eye
cock-eyed
cock-feathered
cock-feathering
cock-fight
cock-fighting
cock-horse
cock-laird
cock-loft
cock-master
cock-match
cock-nest
cock-of-the-rock
cock-paddle
cock-penny
cock-road
cock-shut
cock-shy
cock-sparrowish
cock-stride
cock-sure
cock-tailed
cock-throppled
cock-up
cockatoo bush
cockatoo farmer
cockatoo fence
cockatoo fish
cockatoo grass
cockatoo orchis
cockatoo parakeet
cocked hat
cocker spaniel
cocket center
cocket centering
cockeye bob
cockeye pilot
cockeyed bob
cockeyed drunk
cockie-leekie
cocking cart
cockle button
cockle garden
cockle hat
cockle oast
cockle stairs
cockle strewer
cockle wheat
cockle-bread
cockle-headed
cockle-shell
cockles of the heart
cockles of your heart
cocks-of-the-rock
cockscomb grass
cocksfoot grass
cockspur flower
cockspur grass
cockspur hawthorn
cockspur rye
cockspur thorn
cockspur vine
cocktail chair
cocktail dress
cocktail glass
cocktail hour
cocktail lounge
cocktail party
cocktail sauce
cocktail shaker
cocktail stick
cocktail table
cocktail-party chitchat
cocky-leeky
cockyolly bird
cockyoly bird
coco de mer
coco grass
coco palm
coco plum
coco sedge
coco-plum
cocoa bean
cocoa beans
cocoa brown
cocoa butter
cocoa plant
cocoa presser
cocoa red
cocoa sedge
cocoa shell
cocoa tea
cocoa-brown
cocoa-colored
coconut beetle
coconut brown
coconut bud rot
coconut butter
coconut cake
coconut crab
coconut cream
coconut ice
coconut jelly
coconut matting
coconut meal
coconut mealy bug
coconut milk
coconut oil
coconut palm
coconut shy
coconut tree
coconut walk
coconut water
coconut-palm rot
cod end
cod line
cod liver
cod net
cod oil
cod war
cod-bait
cod-fish
cod-liver meal
cod-liver oil
cod-piece
cod-smack
coda mark
coddle yourself
coddled eggs
coddy-moddy
code book
code duello
code flag
code of ethics
code of laws
code of morals
code of oral communication
code pennant
code state
code word
coded message
codeine cough syrup
codex rescriptus
codfish aristocracy
codfish balls
codfish cakes
codlin moth
codling moth
codlins-and-cream
coaducational school
coefficient component
coefficient of acceleration
coefficient of elasticity
coefficient of expansion
coefficient of fineness
coefficient of friction
coefficient of mutual induction
coefficient of performance
coefficient of restitution
coefficient of self-induction
coefficient of viscosity
coe-
coealanaglyphic sculpture
coeeliac disease
coeeliac plexus
coeleio-
coeolo-
coen-
coeno-
coercive force
coff-fronted
coffee bag
coffee bar
coffee bean
coffee beans
coffee berry
coffee blight
coffee borer
coffee bread
coffee break
coffee cake
coffee cherry
coffee corn
coffee cream
coffee cup
coffee disease
coffee fern
coffee grinder
coffee house
coffee klatch
coffee klatsch
coffee maker
coffee mill
coffee morning
coffee nib
coffee nut
coffee party
coffee pea
coffee plant
coffee planter
coffee ring
coffee roaster
coffee royale
coffee senna
coffee shell
coffee shop
coffee spoon
coffee stall
coffee strainer
coffee table
coffee tree
coffee urn
coffee wit
coffee-and
coffee-blending
coffee-brown
coffee-cleaning
coffee-color
coffee-colored
coffee-faced
coffee-grading
coffee-grinder winch
coffee-grinding
coffee-house
coffee-imbibing
coffee-klatsch
coffee-making
coffee-planter
coffee-planting
coffee-polishing
coffee-roasting
coffee-room
coffee-scented
coffee-table book
coffer-dam
coffer-work
cofferdam bulkhead
coffin block
coffin boat
coffin bone
coffin carrier
coffin corner
coffin finisher
coffin handle
coffin joint
coffin maker
coffin nail
coffin plate
coffin spark
coffin text
coffin trimmer
coffin-end spoon
coffin-fashioned
coffin-headed
coffin-joint lameness
coffin-shaped
cog locomotive
cog railroad
cog railway
cog the dice
cog-wheel
cog-wood
cogent argument
cogged joint
cogging mill
cognac oil
cognate object
cognitive dissonance
cognitive psychology
cognizant of
cogswell chair
cogwheel ore
cogwheel respiration
coherence theory
coherent light
cohune fat
cohune nut
cohune oil
cohune palm
cogn of vantage
coil bobbin
coil box
coil former
coil pottery
coil spring
coil-filling
coil-testing
coil-winding
coiler can
coiler plate
coin a phrase
coin assorter
coin bag
coin box
coin case
coin changer
coin check
coin collector
coin counter
coin envelope
coin fancier
coin glass
coin gold
coin guard
coin holder
coin laundry
coin lock
coin machine
coin money
coin nickel
coin of the realm
coin planchet
coin pouch
coin ringer
coin sack
coin shell
coin silver
coin slot
coin sorter
coin stamper
coin telephone
coin tester
coin tray
coin weight
coin wrapper
coin-clipper
coin-clipping
coin-controlled
coin-counting
coin-made
coin-op
coin-operated
coin-operated laundry
coin-operated machine
coin-operating
coin-separating
coin-shaped
coin-weighing
coinage bronze
coinage of the brain
coinage ratio
coincidence counter
coined liberty
coining press
coining punch
coinsurance clause
coitals exanthema
coitus interrupti
coitus interruptus
coitus reservatus
coke breeze
coke dust
coke iron
coke oven
coke plate
coke tin
coke tower
coke-bottle fuselage
coker-sack
col legno
col-
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abcess
cold as a welldigger's ass
cold as a witch's kiss
cold as a witch's tit
cold as charity
cold as death
cold as ice
cold as marble
cold blast
cold blood
cold cash
cold cathode
cold cathode tube
cold cautery
cold chisel
cold color
cold comfort
cold cream
cold creeps
cold cuts
cold deck
cold drink
cold duck
cold fact
cold feet
cold fish
cold frame
cold front
cold heart
cold light
cold light of reality
cold meat
cold of heart
cold pack
cold patch
cold place
cold pole
cold purgatorial fires
cold rubber
cold sauces
cold season
cold sector
cold sensation
cold shivers
cold short
cold shoulder
cold shower
cold shut
cold snap
cold sober
cold sore
cold sores
cold spell
cold steel
cold storage
cold straightener
cold sweat
cold therapy
cold turkey
cold type
cold war
cold warrior
cold water
cold wave
cold weather
cold wind
cold work
cold-blooded
cold-bloodedly
cold-bloodedness
cold-braving
cold-catching
cold-chisel
cold-chiseled
cold-chiseling
cold-chiselled
cold-chiselling
cold-complexioned
cold-cream
cold-draw
cold-drawing
cold-drawn
cold-drew
cold-engendered
cold-faced
cold-finch
cold-flow
cold-forged
cold-forging
cold-hammer
cold-hammered
cold-head
cold-hearted
cold-heartedly
cold-heartenedness
cold-meat fork
cold-natured
cold-nipped
cold-pack
cold-pack method
cold-patch
cold-pated
cold-press
cold-producing
cold-roll
cold-rolled
cold-saw
cold-short
cold-shortness
cold-shoulder
cold-shut
cold-stain
cold-spirited
cold-storage
cold-store
cold-swage
cold-sweat
cold-taking
cold-type
cold-type proof
cold-type typesetting
cold-water
cold-water cure
cold-water flat
cold-water glue
cold-water paint
cold-wave flag
cold-weld
cold-white
cold-work
cold-working
cole slaw
cole titmouse
cole-goose
cole-prophet
cole-rake
cole-slaw
cole-staff
cole-tit
colen-bell
colewort green
coliform bacillus
coliform bacteria
coliform bacterium
colinear beam antenna
coliseum ivy
coll' arco
coll-
colla tempestada
collagen disease
collapse breccia
collapse of authority
collapse ring
collapse therapy
collapsed lung
collapsing tap
collar bag
collar beam
collar bearing
collar blight
collar bolt
collar box
collar button
collar buttoner
collar case
collar cell
collar cutter
collar day
collar disease
collar edger
collar fastener
collar finisher
collar fungus
collar gauge
collar girdle
collar iron
collar ironer
collar machinist
collar maker
collar making
collar nut
collar pad
collar point
collar polisher
collar rot
collar shaper
collar sticker
collar stitcher
collar stud
collar tie
collar tree
collar work
collar-bone
collar-bound
collar-cutting
collar-shaping
collar-to-collar
collar-wearing
collard greens
collared dove
collared lizard
collared peccary
collateral circulation
collateral descendant
collateral evidence
collateral loan
collateral relative
collateral security
collateral trust bond
collateral warranty
college boy
college cap
college church
college dictionary
college editor
college girl
college graduate
college ice
college man
college of Laputa
college of advanced technology
college of architecture
college of arms
college of dramatic arts
college of education
college of engineering
college of general studies
college of liberal arts
college of music
college of education
college pheasant
college pudding
college student
college try
college widow
college year
college-bred
college-preparatory
collegiate church
collegiate institute
collegium musicum
collet chuck
collet foot
collier's purchase
colliery manager
collimating eyepiece
collimating lens
collimation axis
collimation error
collimation line
collimation plane
collision bulkhead
collision clause
collision course
collision density
collision diameter
collision emission
collision insurance
collision mat
collision-proof
collo-
collodio-
collodion cotton
collodion process
colloid carcinoma
colloid chemistry
colloid mill
colloidal solution
colloidal suspension
colloquial English
colloquial discourse
colloquial language
colloquial speech
colloquial usage
colo-
cologne plant
cologne spirits
cologne water
colon bacillus
colonel blimp
colonel commandant
colonel general
colonel-commandantship
colonial bent
colonial dollar
colonial experience
colonial government
colonial siding
colonialist threat
coloph-
color analysis
color analyzer
color arrangement
color balance
color bar
color base
color blender
color blindness
color blocker
color blower
color box
color brush
color camera
color card
color cell
color changeling
color chart
color checker
color chest
color cinematography
color circle
color clash
color company
color compatibility
color cone
color constant
color contrast
color control
color cycle
color design
color designer
color diagram
color dimension
color doctor
color dominance
color dry sifter
color dryer
color drying
color dyer
color emissivity
color etcher
color film
color filter
color gamut
color gauge
color gelatin
color grinder
color guard
color harmony
color hearing
color index
color instrument
color instruments
color intensity
color kinescope
color line
color matcher
color measurement
color mill
color miller
color mixer
color mixture
color mixture curve
color mixture function
color music
color musician
color negative film
color organ
color party
color patterns
color phase
color photograph
color photography
color point
color print
color printing
color proof
color purity
color quality
color ratio
color reversal film
color salute
color scale
color scheme
color screen
color sense
color sentinel
color separation
color sergeant
color slab
color solid
color spectrum
color spreader
color striker
color system
color target
color television
color temperature
color tone
color top
color tree
color triangle
color up
color vision
color wash
color weakness
color wheel
color with emotion
color zone
color-ball pool
color-bearer
color-blind
color-fading
color-free
color-grinding
color-matching
color-mixture curve
color-sensitize
color-testing
color-washed
colorado loco vetch
coloratura soprano
colored glasses
colored person
colored spectacles
colored stone
colorful imagination
colorful language
colorimetric quality
coloring book
coloring matter
coloring tool
colors in patches
colors of rhetoric
colossal order
colossus of knowledge
colour bar
colour code
colour filter
colour guard
colour index
colour line
colour phase
colour scheme
colour sergeant
colour supplement
colour-blind
colour-box
colpach heifer
colpo-
colt ale
colt distemper
colt evil
colt's tail
colt's-tail
colt-herb
colt-pixie
coltsfoot snakeroot
columbine blue
columbium pentoxide
columbo wood
columbus day
columella auris
columella cranii
column bone
column chromatography
column formula
column inch
column krater
column lathe
column rule
column shaper
column still
column vector
columna caelata
columna rostrata
columnae caelatae
columnar epithelium
columnar jointing
columnar structure
columnar tactics
colza oil
coma berenices
coma vigil
comb back
comb bearer
comb case
comb disease
comb duck
comb fern
comb foundation
comb grain
comb holder
comb honey
comb jelly
comb marbling
comb morion
comb out
comb pot
comb pottery
comb rat
comb speedwell
comb ware
comb wheat grass
comb-back
comb-back chair
comb-broach
comb-brush
comb-building
comb-footed
comb-footed spider
comb-fringed grass
comb-grained
comb-out
comb-shaped
comb-toothed shark
combat area
combat boot
combat boots
combat car
combat ceiling
combat command
combat duty
combat engineer
combat fatigue
combat flight
combat group
combat high-explosive rocket
combat intelligence
combat jacket
combat neurosis
combat pilot
combat plane
combat post
combat practice
combat rehearsal
combat rocket
combat service
combat team
combat train
combat unit
combat zone
combative reaction
combed ware
combed yarn
comber board
combination analysis
combination button
combination car
combination center drill
combination chuck
combination consolidation
combination crossing
combination cut
combination door
combination frame
combination fuse
combination jig
combination last
combination lathe
combination lock
combination longwall
combination microphone
combination note
combination pedal
combination piston
combination plane
combination plate
combination plow
combination principle
combination rate
combination room
combination rubber
combination salad
combination shot
combination square
combination tone
combinatorial analysis
combinatorial mathematics
combinatorial topology
combinatory logic
combine harvester
combine in
combined effort
combined experience table
combined operation
combined operations
combing hair
combing machine
combing wool
combining form
combining weight
combust way
combustible material
combustion cell
combustion chamber
combustion engine
combustion engineer
combustion engineering
combustion furnace
combustion lag
combustion method
combustion motor
combustion spoon
combustion train
combustion tube
come a cropper
come about
come across
come across with
come afoul of
come after
come again
come again and again
come alive
come along
come among
come and get it
come and go
come apart
come apart at the seams
come around
come around to
come as a shock
come as a surprise
come as no surprise
come as you are
come at
come at your call
come away
come back
come back at
come barging in
come before
come behind
come between
come breezing in
come busting in
come by
come by chance
come by your own
come clean
come close
come close on the heels of
come closer
come crashing down
come down
come down a peg
come down a peg or two
come down in buckets
come down in price
come down in sheets
come down in torrents
come down on
come down on the side of
come down on your marrowbones
come down out of the clouds
come down squarely in the middle
come down to earth
come down upon
come down with
come down with the needful
come face to face with
come first
come forth
come forward
come foul of
come from
come from an unexpected quarter
come from behind
come full circle
come hat in hand
come hell or high water
come home
come home to
come home to roost
come in
come in conflict with
come in contact
come in for
come in for a landing
come in for a share
come in its turn
come in like a lion
come in sight
come in through a side door
come in view
come into
come into being
come into collision
come into existence
come into man's estate
come into money
come into possession
come into the world
come into vogue
come into years of discretion
come into your head
come into your own
come last
come like a thunderbolt
come like a thunderclap
come near
come nearer
come next
come of
come of age
come off
come off it
come off second best
come on
come on bended knee
come out
come out first
come out in the open
come out in the wash
come out into the open
come out of
come out of it
come out on top
come out on top of the heap
come out with
come over
come rain or shine
come right back at
come round
come round again
come round to
come short
come sick
come sta
come through
come through with
come through with flying colors
come to
come to a center
come to a conclusion
come to a dead stop
come to a decision
come to a determination
come to a focus
come to a full stop
come to a grinding halt
come to a halt
come to a head
come to a parting of the ways
come to a point
come to a screaming halt
come to a shuddering halt
come to a stand
come to a standstill
come to a stop
come to a violent end
come to an agreement
come to an end
come to an understanding
come to an untimely end
come to anchor
come to attention
come to be
come to blows
come to close quarters
come to cold steel
come to dust
come to fruition
come to grief
come to grips with
come to hand
come to know
come to land
come to life
come to light
come to man's estate
come to maturity
come to mind
come to naught
come to no good
come to nothing
come to one
come to pass
come to pieces
come to terms
come to terms with yourself
come to the aid of
come to the fore
come to the front
come to the point
come to the rescue
come to the scratch
come to your ear
come to your ears
come to your journey's end
come to your knowledge
come to your senses
come to yourself
come together
come true
come tumbling down
come unawares
come under
come undone
come unstuck
come up
come up again
come up against
come up fighting
come up for more
come up short
come up smiling
come up to
come up to scratch
come up with
come upon
come upon the stage
come upon unexpectedly
come upon without warning
come uppermost
come what may
come with child
come your way
come-all-ye
come-along
come-at-ability
come-at-able
come-at-ableness
come-back
come-between
come-by-chance
come-down
come-hither
come-hither look
come-hithery
come-off
come-on
come-on man
come-out
come-outer
comedie bouffe
comedie larmoyante
comedie rosse
comedy ballet
comedy drama
comedy of character
comedy of humors
comedy of ideas
comedy of intrigue
comedy of manners
comedy of situation
comedy prop
comedy relief
comely-featured
comers and goers
comet aster
comet finder
comet seeker
comfort room
comfort station
comfort zone
comfortable circumstances
comfortably situated
comic bass
comic book
comic muse
comic novel
comic opera
comic relief
comic section
comic strip
comic supplement
comic-iambic
comico-
coming after
coming and going
coming apart
coming ashore
coming between
coming by
coming from
coming in
coming into being
coming near
coming out
coming short
coming shy
coming to
coming to be
coming to pass
coming to terms
coming together
coming toward
coming unstuck
coming with child
coming-forth
coming-on
coming-out party
comings in
comity of nations
comma bacillus
comma blunder
comma butterfly
comma fault
comma splice
command a view of
command and general staff school
command car
command function
command guidance
command module
command money
command of idiom
command of language
command of money
command of words
command paper
command performance
command pilot
command post
command pulses
command respect
commander in chief
commanders in chief
commanding officer
comme ci comme ca
comme d'habitude
comme deux gouttes d'eau
comme il faut
commedia dell'arte
commedia dell'artes
comedias dell'arte
commedie dell'arte
commelina blue
commence firing
commencement exercises
command to attention
commendation ninepence
comment allez-vous
comment ca va
comment upon
commerce destroyer
commerce raider
commerce raiding
commerce with
commercial affairs
commercial agency
commercial agent
commercial announcement
commercial arithmetic
commercial art
commercial artist
commercial attache
commercial aviation
commercial bank
commercial code
commercial college
commercial complex
commercial credit
commercial engineer
commercial engineering
commercial enterprise
commercial fertilizer
commercial law
commercial letter of credit
commercial paper
commercial pilot
commercial program
commercial relations
commercial school
commercial transaction
commercial transport
commercial traveler
commercial traveller
commercial vehicle
comminuted fracture
commissary clerk
commissary court
commissary general
commissary steward
commission agent
commission day
commission house
commission merchant
commission officer
commission pennant
commission plan
commission-manager plan
commissioned officer
commissioner for oaths
commissioner-general
commit a
commit a crime
commit a gaffe
commit a solecism
commit adultery
commit an assault upon
commit an atrocity
commit an outrage
commit burglary
commit carnage
commit genocide
commit hara-kiri
commit mass destruction
commit mass murder
commit murder
commit robbery
commit sacrilege
commit sin
commit suicide
commit to an institution
commit to memory
commit to prison
commit to writing
commit yourself
commit yourself to
commitment to memory
committee consideration
committee of correspondence
committee of one
committee of the whole
committee stage
commode step
commodity dollar
commodity exchange
commodity money
commodity paper
common alum
common ancestry
common assent
common belief
common bond
common brad
common carotid
common carotid artery
common carrier
common case
common chord
common coke
common cold
common consent
common cost
common council
common councilman
common denominator
common descent
common divisor
common effort
common endeavor
common enterprise
common factor
common fee
common fraction
common gender
common good
common ground
common iliac artery
common informer
common knowledge
common laborer
common law
common logarithm
common man
common market
common measure
common men
common meter
common metre
common multiple
common nail
common name
common noun
common oak
common occurrence
common of turbary
common opal
common ownership
common people
common person
common phrase
common pitcher plant
common pleas
common practice
common prayer
common property
common rafter
common reed
common rhythm
common room
common ruck
common run
common run of things
common salt
common saying
common school
common scold
common seal
common seaman
common sennit
common sense
common snipe
common soldier
common sort
common source
common speech
common stock
common sulfur
common talk
common tannin
common tern
common time
common topaz
common touch
common variety
common weal
common wheat
common year
common-law
common-law court
common-law estoppel
common-law jurisdiction
common-law lien
common-law marriage
common-law trust
common-law wife
common-room
common-variety
commonly known
commonplace book
commonplace expression
commonsense philosopher
commonsense philosophy
commonsense realism
commonsense realist
commonwealth day
communal effort
communal enterprise
communal marriage
commune with
commune with God
commune with the spirits
communicate orally
communicate verbally
communicate with
communication cord
communication engineering
communication explosion
communication leak
communication room
communication satellite
communication technology
communication theory
communication trench
communications engineer
communications industry
communications media
communications medium
communications net
communications network
communications receiver
communications relay satellite
communications revolution
communications satellite
communications ship
communications theory
communications zone
communion cloth
communion cup
communion hymn
communion in both kinds
communion in one kind
communion of saints
communion plate
communion rail
communion table
communist front
community at large
community center
community centre
community chest
community church
community college
community home
community hospital
community house
community nurse
community of interest
community of interests
community property
community school
community sentiment
community sing
community singing
community supervision
community theater
community trust
commutating pole
commutation ticket
commutative algebra
commutative contract
commutative law
commutator filling
commutator group
commutator motor
commutator pitch
commutator shell
commutator subgroup
compact car
compact of
companion bills amendment
companion cell
companion crop
companion cropping
companion flange
companion hatch
companion hatchway
companion ladder
companion piece
companion set
companion star
companionate marriage
company headquarters
company man
company officer
company reserve line
company secretary
company sergeant-major
company store
company town
company union
comparative anatomy
comparative degree
comparative estimate
comparative ethics
comparative government
comparative grammar
comparative judgment
comparative linguist
comparative linguistics
comparative literature
comparative medicine
comparative method
comparative musicology
comparative philology
comparative psychology
comparative relation
comparative religion
comparative scrutiny
comparative statement
compare and contrast
compare notes
compare point by point
compare to
compare with
compared to
compared with
comparison lamp
comparison microscope
comparison of variables
comparison shopper
comparison shopping
comparison slip
comparison spectrum
comparison star
comparison test
compact about
compact bearing
compact board
compact bowl
compact brick
compact calipers
compact card
compact corrector
compact course
compact deviation
compact deviation card
compact dial
compact direction
complement fixation
complement fixation test
complement-binding
complement-fixing
complementary angle
complementary angles
complementary cells
complementary color
complementary colour
complementary distribution
complementary wavelength
complete a purchase
complete answer
complete circuit
complete fertilizer
complete fracture
complete quadrilateral
complete works
completely normal space
completely regular space
completing the square
completion test
complex algebra
complex circularity
complex cone
complex conjugate
complex control system
complex fraction
complex idea
complex integer
complex machine
complex number
complex plane
complex salt
complex sentence
complex variable
complexity of meaning
complicate matters
complimentary close
complimentary closing
complimentary remark
complimentary ticket
compliments of the season
comply with
comport yourself
compos mentis
compose oneself
compose poetry
compose your differences
compose your features
compose yourself
composed matter
composed of
composed throughout
composing frame
composing room
composing rule
composing stick
composite arch
composite balance
composite function
composite number
composite photograph
composite reading
composite sailing
composite school
composite shot
composite text
composite-built
composition carver
composition cloth
composition face
composition factor
composition formula
composition metal
composition of differences
composition of forces
composition pedal
composition piston
composition roofing
composition series
compost heap
compound centrifugal force
compound engine
compound eye
compound flower
compound for
compound fraction
compound fracture
compound function
compound interest
compound interval
compound leaf
compound lens
compound magnet
compound measure
compound microscope
compound motor
compound number
compound ovary
compound pendulum
compound radical
compound sentence
compound time
compound winding
compound words
compound-complex
compound-complex sentence
compound-wound
compregnated wood
comprehensive examination
comprehensive school
compressed air
compressed petroleum gas
compressed score
compressed-air drill
compressibility drag
compression bib
compression coupling
compression cup
compression ignition
compression member
compression ratio
compression spring
compression stroke
compression tap
compression wave
compression-ignition
compression-ignition engine
compromise formation
compromise joint
compromise rail
compromise yourself
compte rendu
compte-rendu critique
comptes rendus
compulsion neurosis
compulsive character
compulsive gambler
compulsory arbitration
compulsory military service
compulsory purchase
compulsory referendum
compulsory servitude
computational linguistics
code
computer data
computer engineer
computer hardware
computer language
computer memory
computer part
computer parts
computer printout
computer program
computer programmer
computer proof
computer revolution
computer routine
computer software
computer technician
computer technologist
computer technology
computer typesetting
computer unit
computerized typesetting
computing machine
computing scale
comrade in arms
comrade-in-arms
con affetto
con agilita
con agitazione
con amore
con anima
con artist
con brio
con dolore
con espressione
con fuoco
con game
con man
con moto
con over
con rod
con sordino
con spirito
con your part
con-
conario-
collapse control
collapse of events
concatenation system
concave lens
concave mirror
concavo-
concavo-concave
concavo-convex
concavo-convex lens
conceal your motive with
conceal yourself
conceded fact
conceit yourself
conceivably possible
conceive a dislike to
concentrate on
concentrate sprayer
concentrate the mind
concentrate the thoughts
concentrate upon
concentration camp
concentration cell
concentration ring
concentric cable
conceptual art
conceptual artist
conceptual crudity
conceptual realism
conceptual realist
conceptually crude
concern oneself
concern yourself with
concert artist
concert band
concert border
concert etude
concert flute
concert grand
concert grand piano
concert guitar
concert hall
concert music
concert overture
concert party
concert performance
concert pitch
concert season
concert tour
concerted action
concerti grossi
concertina action
concertina movement
concertina table
concerto grosso
concerto grossos
concession road
conch hat
conch shell
conch-
concho grass
conciliation court
concluding line
conclusive argument
conclusive evidence
concours d'lgance
concrete art
concrete block
concrete identity
concrete layer
concrete mixer
concrete music
concrete noun
concrete number
concrete paint
concrete poetry
concrete universal
concurrent jurisdiction
concurrent resolution
concurring opinion
concussion bellows
concussion bomb
concussion fuse
concussion grenade
concussional concussant
condemn to death
condemn to eternal punishment
condemn to hell
condemn yourself
condemned cell
condensation point
condensation polymerization
condensation trail
condensed milk
condensed version
condenser antenna
condenser microphone
condensing engine
condensing hygrometer
condensing lens
condictio triticaria
condign punishment
conditio sine qua non
condition of things
conditional convergence
conditional probability
conditional sale
conditioned reflex
conditioned response
conditioned stimulus
condole with
conduce to
conduce to health
conducive to
conduct a funeral
conduct a poll
conduct a trial
conduct an inquiry
conduct money
conduct pleadings
conduct to
conduct unbecoming a gentleman
conduct yourself
conduct yourself in the face of
conduct yourself toward
conduct yourself vis-a-vis
conduct-money
conduction current
conduction electron
conductometric titration
conductor head
conductor plug
conductor rail
conductor's baton
conduit box
conduit pipe
conduit railway
conduit system
cone adaptation
cone anchor
cone bearing
cone bit
cone brake
cone center
cone chuck
cone clutch
cone compass
cone coupling
cone delta
cone friction clutch
cone gamba
cone joint
cone key
cone lathe
cone mandrel
cone mill
cone number
cone of a complex
cone of silence
cone off
cone pepper
cone plate
cone pulley
cone shaver
cone shell
cone snail
cone speaker
cone tree
cone valve
cone vision
cone wheat
cone wheel
cone-billed
cone-headed
cone-in-cone
cone-nose
cone-shaped
conehead rivet
conehead toggle
coney leopard
coney mole
coney parsley
confabulate the breeze
confectioners' sugar
confectionery decorator
confederate memorial day
confederate rose
confer a benefit
confer a blessing upon
confer citizenship
confer distinction on
confer honor upon
confer with
conference at the summit
conference room
conference table
confession equality
confession of faith
confide in
confide to
confidence game
confidence interval
confidence limits
confidence man
confidence trick
confidential communication
confidential information
confirm in
confirmation class
confirmed bachelor
confirmed liar
conflict of interest
conflict of laws
conflict of sounds
conflict with
confluence of minds
confluent stream
conform map projection
conform representation
conform to
conform to fact
conform with
conformable to
conformal projection
conformation other-direction
conformity to fact or reality
confound it
confront each other
confront with
confrontation politics
confrontation therapy
confused flour beetle
confusion of sounds
confusion of tongues
confusion worse confounded
conga drum
congee house
congenital defect
congenital disease
congenital heart disease
congenital hypophosphatasia
congenital idiot
congenital immunity
congenital syphilis
conger doust
conger eel
conger-eel
congestive heart failure
conglobate gland
conglomerate corporation
congo dye
congo eel
congo red
congo snake
congratulate yourself
congregational christian
congress boot
congress gaiter
congress shoe
congressional caucus
congressional district
congressional election
congressional immunity
congressional investigation
congressional medal
congressman-at-large
congressmen-at-large
congruence sign
congruent with
conic projection
conic section
conic sections
conical pendulum
conical-shaped
conico-
conico-cylindrical
conico-elongate
conico-hemispherical
conico-ovate
conico-ovoid
conico-subhemispherical
conico-subulate
coniferyl alcohol
coning angle
conjoint therapy
conjugal bond
conjugal knot
conjugal love
conjugal right
conjugal tie
conjugal axis
consciousness-expansion
conscrip{t} fathers
consecrate to
consecrated bread
consecrated elements
consecutive intervals
consensus gentium
consensus of opinion
consensus omnium
consensus politics
consent by implication
consent decree
consent rule
consent to
consent to silently
consenting adult
consequent stream
conservation of angular momentum
conservation of charge
conservation of energy
conservation of linear momentum
conservation of mass
conservation of mass and energy
conservation of matt
conservation of matter
conservation of momentum
conservation of parity
conservative treatment
consider every angle
consider pro and con
consider the circumstances
consider the source
consign to a place
consign to hell
consign to oblivion
consign to the grave
consign to the scrap heap
consigned to oblivion
consignment marketing
consignment note
consist in
consist of
consistent with
consisting of
consolation game
consolation match
consolation prize
console table
consolidated annuities
consolidated fund
consolidated school
consolidated stock
consolidating company
consonant chord
consonant shift
consonant shifting
consonant system
consonantal alliteration
consort with
conspicious by its absence
conspicious consumption
conspicious gallantry
conspicious waste
constable glass
constant attention
constant flow
constant friend
constant of gravitation
constant of integration
constant pressure
constant thrust
constant-chord-rotor helicopter
constantly recur to
constantly revert to
constitute a whole
constituted authority
constitutional amendment
constitutional convention
constitutional freedom
constitutional government
constitutional guarantees
constitutional law
constitutional lawyer
constitutional medicine
constitutional monarch
constitutional monarchy
constitutional psychology
constitutional referendum
constitutional rights
constitutional syphilis
constitutional therapy
constitutional validity
constrain yourself
constrict your views
construct form
construct state
construction bond
construction engineer
construction engineering
construction modifier
construction paper
constructional homonymity
constructive change
constructive imagination
constructive interference
consul general
consular agent
consular service
consulate general
consulates general
consuls general
consult with
consult with your pillow
consult your own wishes
consult your pillow about
consultation room
consultative assembly
consulting room
consume away
consume time
consumed by fire
consumed with curiosity
consumed with desire
consumer cooperative
consumer credit
consumer economy
consumer goods
consumer items
consumer power
consumer preference study
consumer price index
consumer research
consumer resistance
c consumer sovereignty
c consumer strike
c consumer survey
c consumer's strike
c consumer-preference survey
consummate liar
consummate lie
consumption goods
consumption weed
contact a debt
close a debt
close a debt
contact action
contact agent
contact dermatitis
contact flight
contact flying
contact infection
contact lens
contact maker
contact making
contact man
contact metamorphosis
contact microphone
contact mine
contact paper
contact poison
contact potential
contact print
contact printing
contact process
contact therapy
contact with reality
contactor switch
contagious disease
contagious abortion
contagious ecthyma
contagious epithelio
contagious epithelioma
contagious magic
contain yourself
contained in
container board
container car
container ship
contango day
contrac crayon
contemplate in the imagination
contemplation of the past
contemplative life
contemporary literature
contempt of Congress
contend about
contend against
contend for
contend with
content analysis
content subject
content word
content yourself with
contents page
contest a seat
contest of fleetness
contest of speed
contested election
contextual definition
continent-wide
continental breakfast
continental climate
continental code
continental divide
continental drift
continental island
continental quilt
continental shelf
continental slope
continental stitch
continental system
contingency fund
contingency method
contingency reserve
contingency table
contingent beneficiary
contingent fee
contingent fund
contingent interest
contingent liability
contingent on
contingent reserve
continuance in action
continuation day
continuation school
continue the same
continue to be
continue to exist
continued fever
continued fraction
continued proportion
continuing education
continuity clerk
continuity equation
continuity girl
continuity writer
continuous brake
continuous casting
continuous creation
continuous creation theory
continuous miner
continuous spectrum
continuous stationery
continuous tenure
continuous tone
continuous wave oscillator
continuous wave radar
continuous waves
continuous-expansion engine
continuous-wave transmitter
continuum hypothesis
continuum theory
contour bob
contour chair
contour check
contour curtain
contour curve
contour farming
contour feather
contour feathers
contour follower
contour integration
contour interval
contour line
contour map
contour ploughing
contour plowing
contour sheet
contra bassoon
contra bonos mores
contra trombone
contra-
contra-acting
contra-approach
contra-dance
contra-guide rudder
contra-indicant
contra-indicate
contra-indication
contra-ion
contra-lode
contra-propeller construction
contra-related
contra-remonstrant
contra-rotating airscrews
contra-rotation
contraband of war
contraceptive foam
contract a habit
contract an engagement
contract bond
contract bridge
contract by deed
contract for
contract matrimony
contract of record
contract out
contract practice
contract quasi
contract yourself
contractile cell
contraction fit
contraction joint
contraction rule
contraction theory
contradict itself
contraria contrariis curantur
contrarotating propeller
contrary assertion
contrary motion
contrary terms
contrary to
contrary to all expectation
contrary to fact
contrary to law
contrary to order and discipline
contrary to reason
contrary, the
contrary-minded
contrast bath
contrast control
contrast medium
contrast with
contrastive juxtaposition
contrate wheel
contre-
contre-dance
contre-partie
contribute to
contribution clause
contributory negligence
control account
control action
control agent
control assay
control board
control center
control chart
control column
control desk
control electrode
control element
control engineer
control experiment
control feelings
control grid
control group
control indicator
control mark
control means
control mechanism
control mechanisms
control panel
control relay
control resistor
control rod
control room
control signals
control station
control stick
control surface
control survey
control system
control the carnal man
control the fleshly lusts
control the old Adam
control the price of
control tower
control transformer
control valve
control wires
control your appetites
control yourself
controllable-pitch
controlled access highway
controlled association
controlled association test
controlled experiment
controlled price
controlled quantity
controller general
controlling account
controlling depth
controversial point
conus medullaris
convall lily
convalescent home
convalescent hospital
convected heat
convection current
convective activity
convective discharge
convector heat
convenience food
convenient to
convent cloth
convent school
convention hall
conventional phrase
conventional representation
conventional symbol
conventional usage
conventional war
conventional warfare
conventional weapons
conventual prior
convergence frequency
convergence of events
convergency factor
convergent evolution
convergent squint
convergent strabismus
convergent thinking
converging lens
conversant with
conversation chair
conversation piece
conversational English
conversational partner
conversational quality
converse in
converse motion
converse with
conversion cost
conversion factor
conversion hysteria
conversion neurosis
conversion ratio
conversion reaction
conversion table
conversion value
convert into cash
convert to
convert to use
converted steel
converter reactor
convertible bond
convertible coupe
convertible debenture
convertible preferred stock
convertible securities
convertible sedan
convertible top
convex hull
convex lens
convex mirror
convex point set
convex polygon
convex-concave
convexo-
convexo-concave
convexo-convex
convexo-plane
convey an impression of
conveyor belt
conveyor chain
convict goods
convict yourself
convince to the contrary
convince yourself
convulvulus moth
convulsion root
convulsive therapy
cony-catch
coo-coo
cooch dance
cooch show
coochie show
coochin york
cooee bird
cook accounts
cook off
cook out
cook stove
cook up
cook wrasse
cook your goose
cook-general
cook-out
cooked-up
cookery book
cookery stove
cookie cutter
cookie press
cooking-range
cooks-general
cooky cutter
cool acceptance
cool as a cucumber
cool bag
cool breeze
cool color
cool down
cool head
cool it
cool jazz
cool judgment
cool million
cool off
cool off the economy
cool out
cool the economy
cool your heels
cool-headed
cool-headedly
cool-headedness
cooling breeze
cooling degree-day
cooling down
cooling of the economy
cooling off
cooling off of the economy
cooling system
cooling-card
cooling-off
cooling-off period
coom-ceiled
coon bear
coon cat
coon dog
coon's age
coonskin cap
coop in
coop up
cooped-in
cooper's-wood
cooperative apartment
cooperative apartment house
cooperative bank
cooperative credit union
cooperative farm
cooperative society
cooperative store
coopered joint
coordinate bond
coordinate clause
coordinate geometry
coordinate paper
coordinate system
coordinated operations
coordinated panel
coordinating conjunction
coordination complex
coordination compound
coordination number
coot-footed
cooter grass
cootie garage
cop a plea
cop out
cop-out
cop-rose
copaiba balsam
copaiba oil
copaiba resin
copaiva oil
copaiye wood
copal ether
cope chisel
cope cutter
cope with
cope-stone
copen blue
copenhagen blue
coping saw
coping stone
copper acetate
copper acetoarsenite
copper arsenite
copper barilla
copper beech
copper bender
copper brazer
copper caster
copper cyanide
copper engraver
copper extractor
copper foil
copper hydroxide
copper iris
copper mill
copper millman
copper mine
copper miner
copper mining
copper pyrites
copper red
copper refiner
copper refinery
copper smelter
copper spot
copper sulfate
copper sulphate
copper worker
copper-alloyed
copper-bearing
copper-bellied
copper-belly
copper-bottomed
copper-coated
copper-colored
copper-covered
copper-faced
copper-fastened
copper-headed
copper-leaf
copper-leaves
copper-lined
copper-melting
copper-plate
copper-red
copper-skinned
copper-smelting
copper-smith
copper-toed
copper-worm
copperas black
copperplate engraving
copperplate hand
copperplate press
copperplate print
coppery-tailed
coppice oak
coppice shoot
coppice-feathered
coppice-topped
cor-pple-crown
corple-crowned
corple-stone
copr-
copra oil
copro-
cops and robbers
copse cutter
copse-clad
copse-covered
copulative asyndeton
copulative conjunction
copy after
copy camera
copy chief
copy desk
copy edit
copy editor
copy out
copy paper
copy taster
copy typist
copy-edit
copybook hand
copying ink
copying machine
copying machines
copying paper
copying press
copyright deposit library
copyright infringer
copyright page
cor au vin
cor de bruyere
corquet with
corquet with the idea
coque batterobb
coque lish glances
coque tilla nut
coquille lens
coquilles Saint-Jacques
cocoimbo owl
cocquito palm
cor adiposum
cor anglais
cor arteriosum
cor biloculare
cor blimey
cor bovinum
cor juvenum
cor pseudotriloculare biaatriatum
cor pulmonale
cor sinistrum
cor triatriatum
cor triloculare biaatriatum
cor triloculare biventri culare
cor villosum
cor-
coraco-
coral bead
coral bean
coral bells
coral fern
coral grinder
coral head
coral heads
coral honeysuckle
coral island
coral jasmine
coral lily
coral pink
coral plant
coral reef
coral root
coral snake
coral stitch
coral tree
coral vine
coral-bead tree
coral-beaded
coral-bound
coral-built
coral-buttoned
coral-colored
coral-fishing
coral-girt
coral-making
coral-plant
coral-producing
coral-red
coral-rooted
coral-secret ing
coral-snake
coral-tree
coral-wood
coram judice
coram nobis
coram non judice
coram populo
corbel arch
corbel out
corbel step
corbel table
corbel vault
corbie gable
corbie-step
corbin bone
cord conductor
cord connector
cord foot
cord grass
cord maker
cord-connector body
cordage tree
cordate-amplexicaul
cordate-lanceolate
cordate-oblong
cordate-sagittate
cordeau detonant
cordeau fuse
corded pahoehoe
cordia pulmonalia
cordial friendship
cordial understanding
cordial welcome
cordon bleu
cordon off
cordon sanitaire
cordoned off
cordonning off
cordons bleus
cordons sanitaire
corduroy road
cordwood saw
core bar
core barrel
core binder
core boring
core builder
core curriculum
core drawing
core flour
core of your being
core sand
core store
core tester
core time
core vent
core wire
core-
core-baking
core-box plane
core-cutting
core-drying
core-jarring
coriander oil
coriander seed
coriolis effect
coriolis force
cork borer
cork cambium
cork cutter
cork jacket
cork oak
cork puller
cork shredder
cork sorter
cork tile
cork tree
cork up
cork-bark elm
cork-barked
cork-bearing
cork-boring
cork-cutting
cork-forming
cork-grinding
cork-heeled
cork-lined
cork-tipped
corking pin
corking up
corking-pin
corkscrew flower
corkscrew grass
corkwood cotton
corky-headed
corky-winged
corno-
corn belt
corn borer
corn bread
corn bunting
corn cackle
corn cake
corn cleaner
corn cockle
corn color
corn crake
corn dab
corn dodger
corn drier
corn earworm
corn exchange
corn factor
corn field
corn flakes
corn flour
corn fritter
corn god
corn grass
corn grinder
corn grits
corn huller
corn law
corn lily
corn liquor
corn marigold
corn mayweed
corn meal
corn mint
corn muffin
corn oil
corn on the cob
corn picker
corn picking
corn pit
corn pone
corn popper
corn poppy
corn root aphid
corn rose
corn row
corn salad
corn shock
corn shocker
corn shredder
corn shuck
corn shucking
corn silk
corn smut
corn snake
corn snow
corn spirit
corn stack
corn stubble
corn sugar
corn syrup
corn tash
corn tester
corn thresher
corn whiskey
corn whisky
corn-beads
corn-cob
corn-colored
corn-cracker
corn-crake
corn-devouring
corn-ear worm
corn-eater
corn-exporting
corn-fed
corn-feeding
corn-flag
corn-flour
corn-flower
corn-growing
corn-husk
corn-law
corn-master
corn-picker
corn-planting
corn-producing
corn-rent
corn-salad
corn-snake
corn-stalk
corn-cob pipe
corne de vache
cornea lens
corneal reflex
corneal transplant
corned beef
corned beef and cabbage
corned beef hash
corned beef sandwich
cornelian cherry
corne-
corner accessory
corner bead
corner block
corner cabinet
corner chair
corner chisel
corner cupboard
corner in
corner man
corner of the eye
corner of the memory
corner on the market
corner reflector
corner table
corner the market
corner trowel
corner-man
corner-stone
cornes de vache
cornet a pistons
cornet-a-pistons
cornfield ant
cornfield pea
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
coro-
corolla limb
corolla tube
coromandel wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coronae radiatae
coronal roots
coronal suture
coronary artery
coronary band
coronary cushion
coronary heart disease
coronary insufficiency
coronary occlusion
coronary ring
coronary thrombosis
coronation oath
coroner's inquest
coroner's jury
coronet braid
coronet of rank
corozo nut
corpora allata
corpora callosa
corpora cardiaca
corpora lutea
corpora striata
corporal punishment
corporal's guard
corporate arms
corporate body
corporate bond
corporate headquarters
corporate image
corporate stock
corporation cock
corporation law
corporation lawyer
corporation securities
corporation stock
corporation stop
corporation tax
corporeal hereditament
corps area
corps d'armeé
corps d'elite
corps de ballet
corps de garde
corps diplomatique
corps of advisers
corps of cadets
corps of engineers
corps of signals
corps troops
corpse candle
corpse gate
corpse reviver
corpse-candle
corpulent person
corpus allatum
corpus callosum
corpus cardiacum
corpus christi
corpus delicti
corpus juris
corpus luteum
corpus luteum hormone
corpus striatum
corpus vile
corpuscular theory
correct English
correct copy
correct deportment
correct ear
correct in your behavior
correct in your manners
correcting plate
correcting signals
correction line
correction of error
corrective action
corrector plate
correlation coefficient
correlation ratio
correlative conjunction
correspond to
correspond with
correspondence column
correspondence course
correspondence principle
correspondence school
correspondence theory
corridor of time
corridors of time
corroboratory evidence
corrosion borders
corrosive mercury chloride
corrosive sublimate
corrugated iron
corrugated paper
corruagation irrigation
corrupt administration
corrupt politician
corrupt practices act
corruption of blood
corruption of speech
corset cover
corset designer
corsetier corsetier
cortex parenchyma
cortical epilepsy
cortical tissue
cortico-
corydalis green
cos lettuce
cosine circle
cosmetic dermatitis
cosmetic operation
cosmetic surgery
cosmic constant
cosmic dust
cosmic evolution
cosmic noise
cosmic particle
cosmic particles
cosmic philosopher
cosmic philosophy
cosmic radiation
cosmic ray
cosmic ray bombardment
cosmic ray counter
cosmic rays
cosmic space
cosmic static
cosmic stepping-stone
cosmic time
cosmical geology
cosmico-natural
cosmo-
cosmological argument
cosmological proof
cossack green
cossack hat
cost a packet
cost a pretty penny
cost accountant
cost accounting
cost an arm and a leg
cost and freight
cost benefit analysis
cost card
cost center
cost insurance and freight
cost keeper
cost keeping
cost ledger
cost little
cost money
cost much
cost next to nothing
cost nothing
cost of living
cost out
cost plus
cost sheet
cost system
cost unit
cost what it may
cost you
cost-account
cost-accounting system
cost-effective
cost-free
cost-of-living allowance
cost-of-living index
cost-plus
cost-push inflation
costal margin
costal vein
costal-nerved
costard-monger
costing-out
costless thing
costo-
costume designer
costume drama
costume jewellery
costume jewelry
costume party
costume piece
costus oil
cosy along
cot bar
cot case
cot death
cotamine hydrochloride
cote-hardie
cotelette de mouton
cotelette de porc frais
cotelette de veau
cotta grass
cottage bonnet
cottage cheese
cottage china
cottage fried potatoes
cottage hospital
cottage industry
cottage loaf
cottage piano
cottage pie
cottage pudding
cottage tulip
cottage window
cotter drill
cotter file
cotter mill
cotter pin
cotter slot
cotter way
cottier system
cotton anthracnose
cotton aphid
cotton back
cotton bagging
cotton baller
cotton batting
cotton belt
cotton bill
cotton boll
cotton bollworm
cotton broker
cotton bush
cotton buyer
cotton cake
cotton cambric
cotton candy
cotton chiffon
cotton chopper
cotton cleaner
cotton comber
cotton coverer
cotton crepe
cotton cutter
cotton damask
cotton dryer
cotton duck
cotton dyer
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner
cotton grass
cotton grower
cotton gum
cotton harvester
cotton jenny
cotton lint
cotton linters
cotton lord
cotton mill
cotton mixer
cotton moth
cotton mouse
cotton mouth
cotton mouths
cotton mule
cotton netting
cotton oil
cotton on
cotton opener
cotton packer
cotton picker
cotton plant
cotton plantation
cotton planter
cotton plugger
cotton plush
cotton pongee
cotton powder
cotton preparer
cotton press
cotton print
cotton printer
cotton raiser
cotton rat
cotton rock
cotton root rot
cotton rose
cotton rush
cotton rust
cotton sampler
cotton seed
cotton shipper
cotton sled
cotton sorter
cotton speeder
cotton spinner
cotton spooler
cotton stainer
cotton stripper
cotton sugar
cotton sweep
cotton tapestry
cotton teal
cotton teaser
cotton thistle
cotton thread
cotton tie
cotton to
cotton tree
cotton twist
cotton twister
cotton wadding
cotton warehouseman
cotton warp
cotton waste
cotton weigher
cotton wick
cotton wicking
cotton wilt
cotton winder
cotton wool
cotton works
cotton worm
cotton yarn
cotton-backed
cotton-baling
cotton-bleaching
cotton-clad
cotton-covered
cotton-dyeing
cotton-ginning
cotton-growing
cotton-knitting
cotton-picking
cotton-planting
cotton-printing
cotton-producing
cotton-root bark
cotton-sampling
cotton-sick
cotton-spinning
cotton-weaving
cotton-wicked
cottonseed cake
cottonseed feed
cottonseed flour
cottonseed meal
cottonseed oil
cottonseed tree
cottontail rabbit
cottony cloud
cottony jujube
cottony-cushion scale
cotyl-
cou-cou
couch bed
couch grass
couch in terms
couch maker
couch roll
couch wheat
couch your lance
couch, the
couched harp
couching stitch
cough drop
cough drops
cough medicine
cough mixture
cough sirup
cough syrup
cough up
could be
could sink through the floor
couldn't care less about
coulee cricket
couleur de rose
coulomb meter
coumarone resin
coumarone resins
coumarone-indene
coumarone-indene resin
council bill
council board
council fire
council house
council of ministers
council of state
council of war
council school
council table
council tool
council-manager plan
counsel of perfection
counsel-keeper
counselor-at-law
counselors-at-law
count against
count book
count calories
count down
count for
count heads
count hook
count in
count me out
count noses
count noun
count number
count of
count off
count on
count out
count palatine
count plate
count sheep
count the beats
count ties
count up
count upon
count votes
count wheel
count-rate meter
countably additive function
countably compact set
counted on
counter apse
counter borer
counter check
counter electromotive force
counter image
counter jumper
counter relief
counter scale
counter septum
counter service
counter stern
counter table
counter timber
counter to
counter to your preferences
counter tube
counter wall
counter word
counter-
counter-acquittance
counter-agency
counter-approach
counter-arch
counter-attraction
counter-barry
counter-battery
counter-beam
counter-bill
counter-bore
counter-boulle
counter-brace
counter-carte
counter-cast
counter-caster
counter-chevroned
counter-claim
counter-clockwise
counter-coloured
counter-company
counter-couchant
counter-culture
counter-current
counter-deed
counter-disengage
counter-drain
counter-draw
counter-earth
counter-embattled
counter-embowed
counter-ermine
counter-evidence
counter-extension
counter-faced
counter-faller
counter-fessed
counter-fissure
counter-force
counter-gauge
counter-gear
counter-guard
counter-hem
counter-indication
counter-influence
counter-ion
counter-irritant
counter-jumper
counter-lath
counter-letter
counter-lode
counter-marque
counter-motion
counter-move
counter-naïant
counter-nebule
counter-off
counter-opening
counter-paled
counter-parade
counter-parole
counter-party
counter-passant
counter-pawn
counter-penalty
counter-pole
counter-potent
counter-pressure
counter-price
counter-proof
counter-quartered
counter-ragged
counter-rampant
counter-reformation
counter-revolution
counter-revolutionary
counter-riposte
counter-roll
counter-round
counter-salient
counter-scale
counter-scuffle
counter-sea
counter-seal
counter-secure
counter-spell
counter-statement
counter-step
counter-taste
counter-tendency
counter-tenor
counter-tide
counter-fierce
counter-time
counter-trench
counter-tripping
counter-turn
counter-vote
counter-wait
counter-wall
counter-weight
counter-worker
counterfeit money
counterintelligence agent
counterpoint rhythm
counterrotating propeller
counterscarp gallery
countersink bit
countertenor clef
counterweight system
counties palatine
counting glass
counting heads
counting house
counting machine
counting noses
counting number
counting on the fingers
counting room
counting scales
counting tube
counting-out rhyme
countless as the sands
countless as the stars
countre-
country almond
country bank
country bishop
country blues
country borage
country bumpkin
country club
country cousin
country damage
country dance
country dancer
country dancing
country day school
country doctor
country fig
country gentleman
country gooseberry
country hide
country house
country jake
country licorice
country mallow
country mile
country music
country party
country peach
country pepper
country rock
country seat
country store
country town
country wallah
country walnut
country, the
country-and-western
country-and-western music
country-and-western singer
country-born
country-bred
country-dance
country-fashion
country-made
country-style
country-wide
counts palatine
county agent
county attorney
county board
county borough
county building
county clerk
county college
county commissioner
county constabulary
county convention
county council
county court
county courthouse
county fair
county farm
county home
county house
county library
county mutual
county palatine
county police
county rate
county road
county seat
county site
county supervisor
county town
county-wide
coup d'Oeil
coup d'essai
coup d'etat
coup d'oeil
coup d'oil
coup d'etat
coup de foudre
coup de gr
coup de grace
coup de main
coup de maitre
coup de plume
coup de poing
coup de soleil
coup de theatre
coup de theatre
coup feather
coup-cart
coupe-gorge
couple dancing
couple up
couple with
couple-beggar
couple-close
coupled roof
coupled with
coupler socket
coupling box
coupling circuit
coupling coefficient
coupling pin
coupling rein
coupling rod
coupling strap
coupon bond
coupon clipper
coupon clippers
coupon off
coupon on
coupon rate
coups d'essai
coups de main
coups de plume
coups de poing
cour d'honneur
courage fou
courageous act
courbaril copal
coureur de bois
coureurs de bois
courge green
cours d'honneur
course ahead
course light
course of action
course of study
course of things
course of time
course protractor
coursing joint
court Christian
court bond
court bouillon
court calendar
court card
court cards
court christian
court circular
court cupboard
court dance
court danger
court day
court destruction
court dress
court fool
court game
court gray
court guide
court hand
court leet
court martial
court of admiralty
court of appeals
court of arbitration
court of assize
court of attachments
court of chancery
court of claims
court of common pleas
court of conscience
court of domestic relations
court of dustyfoot
court of equity
court of errors
court of first instance
court of guard
court of honor
court of honour
court of inquiry
court of justice
court of last resort
court of law
court of love
court of piepouvre
court of probate
court of record
court of requests
court of review
court of sessions
court of wards
court of wards and liveries
court party
court plaster
court reporter
court roll
court shoe
court tennis
court-appointed lawyer
court-baron
court-bouillon
court-cupboard
court-customary
court-dress
court-house
court-leet
court-mantle
court-martial
court-martials
court-noue
court-plaster
court-tialed
court-tialing
court-tialled
court-tialling
court-yard
courtesy card
courtesy light
courtesy title
courting chair
courting disaster
courting glass
courting mirror
courtly love
courtly politeness
courts Christian
courts-martial
courtship-and-matrimony
cousin once removed
cousin twice removed
cousin-german
cousin-in-law
cousins-german
couver-feu
covalent bond
cove lighting
cove oyster
cove stripe
cove trowel
coved vault
coven-tree
covenant of indemnity
covenant of salt
covenant of warranty
cover charge
cover crop
cover design
cover girl
cover glass
cover ground
cover memory
cover note
cover paper
cover plate
cover point
cover slip
cover stone
cover story
cover title
cover up
cover up for
cover up your tracks
cover version
cover with excuses
cover your path
cover your short
cover yourself with
cover-point
cover-shame
cover-shoulder
cover-slut
cover-up
covered smut
covered waggon
covered wagon
covered way
covering board
covering letter
covering material
covering materials
covering shorts
covering up
coversed sine
covert cloth
covert coat
covert way
covert-baron
covin-tree
cow ant
cow barn
cow basil
cow bean
cow beet
cow blackbird
cow bunting
cow byre
cow chervil
cow chips
cow clover
cow cocky
cow college
cow corn
cow creamer
cow cress
cow flops
cow garlic
cow grass
cow hand
cow hock
cow keeper
cow killer
cow lily
cow oak
cow parsley
cow parsnip
cow pats
cow pillow
cow pilot
cow plant
cow poison
cow pony
cow rattle
cow shark
cow sorrel
cow testing
cow thistle
cow town
cow tree
cow vetch
cow's tail
cow-bane
cow-boy
cow-cutting horse
cow-eyed
cow-fat
cow-fish
cow-goddess
cow-headed
cow-hide
cow-hitch
cow-hocked
cow-itch
cow-lice
cow-mumble
cow-nosed
cow-pox
cow-stealing
cow-tongue
cowboy boot
cowboy boots
cowboy hat
cowboy pool
cowboy saddle
cowboys and Indians
cowhage cherry
cowl lamp
cowl neckline
cowl-shaped
cowled night
cowpea weevil
cowpea wilt
cowper's gland
cowrie pine
cowry bird
cowslip wine
coxo-femoral
coxsackie virus
coy Spring
coy duck
coyote blast
coyote weed
coyote-brush
coyote-bush
cozy chat
cozy fire
crab Louis
crab apple
crab cactus
crab canon
crab claw
crab float
crab grass
crab harrow
crab locomotion
crab locomotive
crab louse
crab meat
crab nut
crab oil
crab plover
crab pot
crab reel locomotive
crab spider
crab stock
crab thistle
crab tree
crab winch
crab yaws
crab-eating
cracking still
cracklin' bread
crackling bread
crackling fire
cradle bar
cradle book
cradle cannon
cradle holding
cradle maker
cradle orchid
cradle roll
cradle roof
cradle scythe
cradle snatcher
cradle snatching
cradle vault
cradle-shaped
cradle-to-grave security
craft guild
craft paper
craft union
craft unionist
crafty rascal
crag martin
crag swallow
crag-and-tail
crag-bound
crag-built
crag-carven
crag-covered
crag-fast
crake-needles
cram down your throat
cram in
cram the mind
cram the mind with
cram up
cram with facts
cram-full
crambo clink
crambo jingle
crammed full
cramp bark
cramp bone
cramp iron
cramp ring
cramp your style
cramp-iron
cramped hand
cramped ideas
cranberry blast
cranberry bog
cranberry bush
cranberry gall
cranberry glass
cranberry gourd
cranberry marsh
cranberry sauce
cranberry scald
cranberry tree
cranberry worm
crance iron
crane driver
crane fly
crane gray
crane line
crane the neck
crane your neck
crane's-bill
crane-fly
cranging hook
crani-
cranial index
cranial nerve
cranio-
cranio-acromial
cranio-aural
craniosacral nervous system
cranium amulet
crank arm
crank axle
crank brace
crank chain
crank disk
crank handle
crank hanger
crank in
crank letter
crank path
crank pit
crank plane
crank press
crank shaper
crank throw
crank up
crank web
crank wheel
crank-driven
crank-sided
crap around
crap game
crap grass
crap out
crap shooter
crap shooting
crap table
crapaud stone
crapaudine door
crape fern
crape jasmine
cape myrtle
crape needle
crape ring
crape-fish
crappit head
crappit-head
crash barrier
crash boat
crash cymbal
crash dive
crash helmet
crash in
crash into
crash land
crash landing
crash of thunder
crash out
crash pad
crash program
crash the gates
crash wagon
crash wall
crash-dive
crash-dived
crash-diving
crash-dove
crash-land
crash-landing
crashing bore
crass ignorance
cratch cradle
crate maker
crater basin
crater-shaped
crave after
craw-craw
crawfish out
crawl after
crawl box
crawl in
crawl into your shell
crawl out of
crawl space
crawl with
crawl-a-bottom
crawl-up
crawler tractor
crawling peg
crayon board
crayon engraving
crazed-headed
crazier than a bedbug
crazier than a coot
crazier than a loon
crazy about
crazy bone
crazy fancy
crazy for
crazy house
crazy idea
crazy like a fox
crazy over
crazy pavement
crazy paving
crazy quilt
crazy to
crazy top
crazy-drunk
crazy-headed
crazy-looking
crazy-mad
crazy-pate
crazy-paving
crazy-work
cream beige
cream buff
cream bush
cream buyer
cream caustic
cream cheese
cream cooler
cream cracker
cream dipper
cream freezer
cream gatherer
cream gauge
cream ice
cream ladle
cream nut
cream of society
cream of tartar
cream of the crop
cream of the jest
cream pail
cream pitcher
cream puff
cream puff paste
cream puff pasted
cream puff pastry
cream sauce
cream separator
cream sherry
cream soda
cream soup
cream stirrer
cream tea
cream tube
cream whip
cream whipper
cream-cheese
cream-color
cream-colored
cream-faced
cream-flowered
cream-slice
cream-soup cup
cream-soup spoon
cream-white
cream-yellow
crease-resistant
create a character
create a disturbance
create a riot
create a role
created being
created nature
created universe
creatine phosphate
creating again
creating once more
creating over
creation of the brain
creative ability
creative artist
creative effort
creative evolution
creative imagination
creative power
creative thought
creative writer
creative writing
creature comfort
creature comforts
creature of habit
creature of the imagination
crebri-
credence shelf
credence table
credentials committee
credenza bookcase
credenza buffet
credibility gap
credit account
credit agency
credit card
credit currency
credit hour
credit instrument
credit insurance
credit life insurance
credit limit
credit line
credit man
credit manager
credit memo
credit memorandum
credit money
credit rating
credit slip
credit squeeze
credit standing
credit to
credit to your account
credit union
credit with
credulous person
creadal statement
creek bed
creek broadbill
creek chub
creek duck
creek fern
creek grass
creek gum
creek maple
creek nettle
creek sedge
creek thatch
creep feeder
creep in
creep into a corner
creep into the good graces of
creep out of
creep up on
creep with
creep-fed
creep-feed
creep-feeding
creeper fowl
creeper tractor
creepie-peepie
creeping Charlie
creeping Jennie
creeping barberry
creeping barrage
creeping bent
creeping bent grass
creeping buttercup
creeping cinquefoil
creeping eruption
creeping fescue
creeping flesh
creeping forget-me-not
creeping juniper
creeping like snail
creeping lily-turf
creeping myrtle
creeping of the flesh
creeping sheet
creeping sickness
creeping snowberry
creeping socialism
creeping thing
creeping thistle
creeping thyme
creepy-crawly
crème Yvette
crème d'amande
crème de cacao
crème de cassis
crème de la crème
crème de menthe
crème de moka
crème de noyau
crème de noyau
cremorne bolt
crenate-leaved
crenate-toothed
crenato-crenelated molding
créole dialect
créole language
créole-fish
créole-fishes
créolized language
creosote bush
creosote carbonate
creosote oil
crêpe Suzette
crêpe de Chine
crêpe de chine
crêpe hair
crêpe lisse
crepe marocain
crêpe meteor
crêpe myrtle
crêpe paper
crêpe rubber
crêpe suzette
crêpe wool
crêpe-backed
crêpe-paper
crepuscular light
crepuscular ray
crescendo pedal
crescent moon
crescent operation
crescent roll
crescent spot
crescent truss
crescent-formed
crescent-lit
crescent-pointed
crescent-shaped
crescit eundo
cresol iodide
cresol red
cress family
cress green
cress rocket
crest cloud
crest coronet
crest factor
crest rail
crest table
crest tile
crest voltmeter
crest-fallen
crested auklet
crested dog's-tail
crested flycatcher
crested hair grass
crested iris
crested lizard
crested poppy
crested swift
crested tit
cresylic acid
cretaceo-
crevalle jack
crew chief
crew compartment
crew cut
crew haircut
crew list
crew neck
crew neckline
crew socks
crew trainer
crew-cropped
crew-neck sweater
crew-necked
crewel needle
crewel stitch
crewel yarn
crewel-work
cri de coeur
cri de guerre
cri du cour
crib biting
crib death
crib strap
crib-bit
crib-bite
crib-biter
crib-biting
crib-bitten
cribbage board
crick-crack
cricket ball
cricket bat
cricket bird
cricket chair
cricket frog
cricket ground
cricket table
cricket teal
cricket-bat willow
crico-
cried up
crim con
crime against humanity
crime against nature
crime of passion
crime passionel
crime sheet
crime wave
criminal act
criminal anthropology
criminal assault
criminal cohabitation
criminal congress
criminal contempt
criminal conversation
criminal court
criminal investigation
criminal jurisdiction
criminal law
criminal lawyer
criminal psychology
criminal syndicalism
criminal syndicalist
criminal tendency
crimping brake
crimping house
crimping iron
crimping machine
crimping pin
crimpy-haired
crimson clover
crimson flag
crimson madder
crimson sage
crimson-banded
crimson-barred
crimson-billed
crimson-carmine
crimson-colored
crimson-dyed
crimson-fronted
crimson-lined
crimson-petaled
crimson-purple
crimson-scarfed
crimson-spotted
crimson-tipped
crimson-veined
crimson-violet
cringe to
criple to
cringle-crangle
crin-
crinkle leaf
crinkle-crankle
crinkly-haired
crinkum-crankum
crinoline stretcher
crinum lily
criss-
crliple rafter
crple stopper
crpling attack
cris de guerre
crisis theologian
crisis theology
crisp-leaved
crisped-leaved
crisping iron
crisping pin
criss-cross
crissal thrasher
crisscross inheritance
crisscross-row
critical altitude
critical angle
critical angle of attack
critical apparatus
critical bibliography
critical constant
critical constants
critical density
critical discernment
critical edition
critical idealism
critical journal
critical juncture
critical mass
critical moment
critical niceness
critical notice
critical path analysis
critical period
critical philosophy
critical point
critical pressure
critical ratio
critical realism
critical region
critical review
critical state
critical success
critical tem
critical temperature
critical volume
critically ill
criticize severely
critico-
critico-analytically
critico-historical
critico-poetical
critico-theological
cro-magnon
croaking sac
crochet file
crochet hook
crochet needle
crochet work
crockery cement
crocodile bird
crocodile shears
crocodile squeezer
crocodile tears
crocus antimonii
crocus bag
crocus cloth
crocus martis
crocus metallorum

crocus sack
croissant demi-sel
croix de guerre
croker sack
crook an elbow
crook rafter
crook the elbow
crook-backed
crooked dice
crooked politician
crooked-backed
crooked-billed
crooked-branched
crooked-clawed
crooked-eyed
crooked-foot
crooked-legged
crooked-limbed
crooked-lined
crooked-lipped
crooked-nosed
crooked-pated
crooked-shouldered
crooked-stemmed
crooked-toothed
crooked-winged
crooked-wood
crookes tube
croon song
crop drier
crop duster
crop grass
crop herbs
crop hide
crop index
crop of hair
crop out
crop pasture
crop rotation
crop seed
crop shear
crop up
crop-bound
crop-dust
crop-duster
crop-dusting
crop-ear
crop-eared
crop-farming
crop-full
crop-haired
crop-headed
crop-nosed
crop-producing
crop-shaped
crop-sick
crop-tailed
croquet ball
croquet ground
croquet lawn
croquignole wave
crosier back
cross action
cross agglutination
cross aisle
cross ancre
cross axle
cross bearings
cross bedding
cross birth
cross bit
cross bitt
cross bond
cross botonee
cross bourdouee
cross brace
cross bracing
cross break
cross bridging
cross buck
cross bun
cross complaint
cross correspondence
cross counter
cross cylinder
cross drawing
cross education
cross estoile
cross facet
cross fault
cross field
cross file
cross fire
cross fitche
cross fleury
cross flute
cross flux
cross forked
cross formee
cross fourchee
cross fox
cross gammadion
cross grain
cross grignolee
cross guard
cross hair
cross hairs
cross heading
cross hilt
cross index
cross keelson
cross keys
cross kick
cross liability
cross license
cross lock
cross lode
cross mint
cross modulation
cross moline
cross multiplication
cross multiply
cross of Calvary
cross of Cleves
cross of Lorraine
cross of St Lazarus
cross of lorraine
cross off
cross order
cross out
cross over
cross patee
cross peen
cross peen hammer
cross pomme
cross potent
cross press
cross product
cross ratio
cross recercelee
cross reference
cross relation
cross remainder
cross rhythm
cross sea
cross seat
cross section
cross sighting
cross signal
cross slide
cross spider
cross springer
cross strap
cross street
cross stroke
cross swords
cross swords with
cross tag
cross talk
cross the Rubicon
cross the Stygian ferry
cross the path of
cross the threshold
cross turret
cross up
cross vault
cross vaulting
cross vein
cross vine
cross whitefish
cross wind
cross wire
cross wires
cross your heart
cross your heart and hope to die
cross your mind
cross your palm
cross your palm with
cross your path
cross-
cross-adoring
cross-aisle
cross-appeal
cross-armed
cross-banded
cross-bandling
cross-bar
cross-beak
cross-beam
cross-bearer
cross-bearing
cross-bearings
cross-beat escapement
cross-bedded
cross-bedding
cross-bench
cross-benched
cross-benchedness
cross-bencher
cross-bias
cross-biased
cross-biassed
cross-bill
cross-bind
cross-bombard
cross-bond
cross-bones
cross-bow
cross-bred
cross-breed
cross-bridge
cross-brush
cross-bun
cross-buttock
cross-buttocker
cross-carve
cross-channel
cross-check
cross-church
cross-claim
cross-cloth
cross-compound
cross-connect
cross-country
cross-country flying
cross-country mill
cross-country race
cross-course
cross-cousin
cross-cousin marriage
cross-crosslet
cross-crosslets
cross-curve
cross-cut
cross-datable
cross-date
cross-dating
cross-days
cross-disciplinary
cross-disciplinary knowledge
cross-division
cross-drain
cross-dye
cross-dyeing
cross-elapsed

cross-examinable

cross-examines

cross-examined

cross-examiner

cross-examining

cross-eye

cross-eyed

cross-eyedness

cross-eyes

cross-face

cross-fade

cross-faded

cross-fading

cross-feed

cross-ferred

cross-ferring

cross-fertile

cross-fertilizable

cross-fertilization

cross-fertilize

cross-fertilized

cross-fertilizing

cross-fiber

cross-file

cross-filed

cross-filing

cross-finger

cross-fingered

cross-fire

cross-fire treatment

cross-firing

cross-fish

cross-fissured

cross-fixed

cross-flower

cross-folded

cross-fox

cross-fur

cross-gagged

cross-gartered

cross-grained
cross-mating
cross-multiplication
cross-out
cross-out test
cross-over
cross-patch
cross-pawl
cross-peal
cross-piece
cross-piled
cross-plough
cross-plow
cross-ply
cross-point
cross-pollen
cross-pollenize
cross-pollinate
cross-pollinated
cross-pollinating
cross-pollination
cross-pollinize
cross-post
cross-purpose
cross-purposes
cross-question
cross-questionable
cross-questioner
cross-questioning
cross-ratio
cross-ratio group
cross-reaction
cross-reading
cross-refer
cross-reference
cross-remainder
cross-road
cross-row
cross-ruff
cross-sail
cross-section
cross-section paper
cross-sectional
cross-shaped
cross-shave
cross-slide
cross-spale
cross-spall
cross-springer
crosse check
crossed fingers
crossed in love
crossed-h
crossed-out
crossing file
crossing over
crossing over and under
crossing sweeper
crossing the bar
crossing-out
crossing-over
crossjack brace
crossjack lift
crossjack yard
crossover network
crossword puzzle
crotch chain
crotch tongue
crotch veneer
croton bug
croton oil
croton-bug
croton-chlortal hydrate
crotonic acid
crouch before
crouch ware
crouch-ware
croup kettle
croupous pneumonia
croupy down
crow blackbird
crow call
crow corn
crow duck
crow fig
crow flight
crow garlic
crow like a cock
crow like a rooster
crow ling
crow needle
crow onion
crow over
crow pea
crow pheasant
crow poison
crow sheaf
crow shrike
crow step
crow tit
crow to pick
crow to pluck
crow to pull
crow's foot
crow's nest
crow's nest model
crow's-feet
crow's-foot
crow's-nest
crow's-nest model
crow-bar
crow-bill
crow-flower
crow-garlic
crow-leek
crow-pheasant
crow-quill
crow-silk
crow-soap
crow-step
crow-stone
crow-toe
crow-tread
crow-victuals
crowberry family
crowd grass
crowd in
crowd of sail
crowd on sail
crowd out
crowd puller
crowd sail
crowd your luck
crowd-pleasing argument
crowding engine
crowfoot family
crowfoot grama
crowfoot grass
crowfoot violet
crown aloes
crown and anchor
crown animalcule
crown antler
crown bar
crown block
crown prosecutor
crown pulley
crown quarto
crown roast
crown rot
crown rust
crown saw
crown scab
crown sheet
crown shell
crown side
crown sparrow
crown system
crown tax
crown tile
crown vallary
crown vent
crown vetch
crown wart
crown wheel
crown with
crown with laurel
crown with success
crown-capping machine
crown-glass
crown-land
crown-of-jewels
crown-of-thorns
crown-paper
crown-piece
crown-post
crown-rump length
crown-scab
crown-shaped
crown-wheel
crown-wheel escapement
crown-work
crowned head
crowned with laurel
crowned with success
crowning achievement
crowning of the edifice
crowning touch
crownwort family
cruces ansatae
crucial moment
crucial period

crucial test
cruciate-
crucible furnace
crucible steel
crucifixion thorn
crude oil
crude petroleum
crude rubber
crude stuff
crudeness of intellect
crudity of intellect
cruel and unusual punishment
cruel disappointment
cruel-hearted
cruet stand
cruise car
cruise missile
cruise ship
cruiser stern
cruiser weight
cruising missile
cruising radius
cruising speed
crumb brush
crumb of comfort
crumble into dust
crumble to dust
crupper bone
crusade for
crush bar
crush barrier
crush breccia
crush conglomerate
crush hat
crush one
crush plane
crush under an iron heel
crush your hope
crush zone
crusher sand
crushing burden
crushing defeat
crushing rejoinder
crushing rolls
crusily-fitchy
crust fold
crust fracture
crust roan
crust-hunt
crust-hunter
crust-hunting
crutch paralysis
crutch stake
crutch-cross
crutch-stick
crux ansata
crux capitata
crux commissa
crux decussata
crux gammata
crux immissa
crux ordinaria
cry aloud
cry at the top of your voice
cry back
cry back to
cry craven
cry down
cry for
cry for joy
cry for quarter
cry for the moon
cry havoc
cry of wolf
cry off
cry on
cry out
cry out against
cry out for
cry out on
cry out upon
cry over spilled
cry over spilled milk
cry pax
cry quits
cry shame upon
cry sour grapes
cry stinking fish
cry to
cry up
cry upon
cry wolf
cry your eyes
cry your eyes out
cry yourself blind
cry-
crying evil
crying shame
cryo-
cryo-aerotherapy
cryo-pump
cryolite glass
crypt-
cryptic mimicry
crypto-
cryptogenic epilepsy
cryptogenic infection
crystal ball
crystal carbonate
crystal class
crystal counter
crystal detector
crystal flower
crystal form
crystal gazer
crystal gazing
crystal glass
crystal gray
crystal habit
crystal lattice
crystal malt
crystal microphone
crystal pickup
crystal rectifier
crystal sand
crystal set
crystal system
crystal tea
crystal vinegar
crystal violet
crystal vision
crystal water
crystal-clear
crystal-clearness
crystal-dropping
crystal-flowing
crystal-gazer
crystal-girded
crystal-lattice constant
crystal-leaved
crystal-palace blue
crystal-palace green
crystal-producing
crystal-smooth
crystal-streaming
crystal-winged
crystalline lens
crystallo-
crystallographic axis
teno-
cub hunting
cub reporter
cub scout
cub shark
cub-drawn
cub-hunting
cuban heel
cubbridge head
cube ore
cube root
cube spar
cube steak
cube sugar
cube-shaped
cubeb camphor
cubeb oil
cubed steak
cubi-
cubic foot
cubic measure
cubic meter
cubic unit
cubic yard
cubical atom
cubist poetry
cubit arm
cubital furrow
cubito-
cubo-
cubo-octahedral
cubo-octahedron
cuboidal epithelium
cuck-stool
cucking stool
cucking-stool
cuckold dock
cuckold's knot
cuckold's neck
cuckoo bee
cuckoo clock
cuckoo clover
cuckoo dove
cuckoo falcon
cuckoo fly
cuckoo froth
cuckoo gillyflower
cuckoo grass
cuckoo hawk
cuckoo lamb
cuckoo orchis
cuckoo owl
cuckoo ray
cuckoo shoe
cuckoo shrike
cuckoo sorrel
cuckoo spit
cuckoo wasp
cuckoo wrasse
cuckoo's meat
cuckoo-babies
cuckoo-bread
cuckoo-bud
cuckoo-button
cuckoo-flower
cuckoo-fly
cuckoo-fool
cuckoo-meat
cuckoo-pint
cuckoo-pintle
cuckoo-shrike
cuckoo-spit
cuckoo-spittle
cucumber beetle
cucumber family
cucumber fish
cucumber flea beetle
cucumber fly
cucumber green
cucumber melon
cucumber mildew
cucumber mosaic
cucumber root
cucumber scab
cucumber tree
cucurbit mosaic
cucurbit wilt
cud-chewing
cuddle up
cuddy heel
cudgel play
cudgel your brains
cudweed mugwort
cue ball
cue bid
cue owl
cue rest
cue sheet
cue word
cue-bid
cue-bidden
cue-bidding
cue-owl
cuff button
cuff ironer
cuff link
cui bono
cui-ui
cuir-bouilli
cul de lampe
cul-de-four
cul-de-lampe
cul-de-sac
culilawan bark
culinary art
culinary artist
culinary concoction
culinary masterpiece
culinary preparation
culinary science
cull board
cull out
cullin stone
culm dump
culm measures
culpable negligence
culpably negligent
culs de lampe
cult-title
cultivate the friendship of
cultivate the soil
cultivated land
cultivated taste
cultivation of the mind
cultivator shield
cultural anthropologist
cultural anthropology
cultural change
cultural community
cultural drift
cultural lag
cultural-nomadic
culture area
culture center
culture complex
culture conflict
culture contact
culture drift
culture epoch
culture factor
culture flask
culture fluid
culture hero
culture lag
culture medium
culture mixing
culture myth
culture organism
culture pattern
culture pearl
culture phenomenon
culture plate
culture sequence
culture shock
culture stage
culture system
culture trait
culture vulture
culture word
cultured pearl
cultus cod
cultus image
cultus-cod
culver hole
cum coupon
cum dividend
cum grano salis
cum laude
cum multis alius
cum warrants
cumara nut
cumin oil
cummin oil
cumu-cirro-stratus
cumul-
cumular-spherulite
cumulative distribution function
cumulative dividend
cumulative evidence
cumulative preferred stock
cumulative scoring
cumulative system
cumulative voting
cumulato-
cumulo-
cumulo-cirro-stratus
cumulo-cirrus
cumulo-nimbus
cumulo-stratus
cumulo-volcano
cumulonimbus calvus
cumulonimbus capillatus
cumulus cloud
cumulus congestus
cumulus fractus
cumulus humilis
cumulus mediocris
cumulus oophorus
cuneate lobe
cuneo-
cunning as a fox
cunning as a serpent
cunning person
cup and ball
cup and cover
cup barometer
cup bell
cup coral
cup custard
cup drill
cup escutcheon
cup fern
cup fungus
cup grease
cup hole
cup hook
cup joint
cup leather
cup lichen
cup maker
cup marker
cup moss
cup mushroom
cup nutseed
cup of Elijah
cup of bitterness
cup of tea
cup packing leather
cup plant
cup sculpture
cup set
cup shake
cup sponge
cup tie
cup turning
cup valve
cup washer
cup-and-saucer vine
cup-bearer
cup-headed
cup-mark
cup-marked
cup-moss
cup-shake
cup-shaped
cup-shot
cup-tied
cup-tossing
cupboard love
cupboard lover
cupid cake
cupid's bow
cupid's-bow
cupola builder
cupola charger
cupola feeder
cupola fettler
cupola furnace
cupola liner
cupola potman
cupola rammer
cupola smelter
cupola tapper
cupola tenter
cupola-capped
cupola-roofed
cupping glass
cuprammonium rayon
cuprea bark
cupreo-
cupric hydroxide
cupric sulfate
cupro-
cuproso-
cuprous cyanide
curate's egg
curative measures
curb ball
curb bit
curb box
curb broker
curb chain
curb exchange
curb key
curb market
curb pin
curb roof
curb sender
curb service
curb string
curb yourself
curb-plate
curb-roof
curb-sending
curb-stone
curbing trowel
curcas oil
curcuma paper
curcuma starch
curd cheese
curd soap
curdle the
curdle the blood
cure of souls
cure yourself of
cure-all
curie point
curious as a cat
curious mind
curious person
curl cloud
curl up
curl upwards
curl your lip
curl your lip at
curl-flowered
curled mallow
curled-leaved
curlew bug
curlew jack
curlew sandpiper
current assets
current breaker
current cost
current density
current electricity
current expenses
current gain
current gauge
current income bond
current indicator
current intensity
current liabilities
current limiter
current mark
current meter
current mill
current of air
current of events
current of fashion
current of ideas
current of thought
current of time
current price
current pulse
current quotation
current ratio
current regulator
current relay
current ripple
current saying
current tap
current transformer
current wheel
current yield
current-control circuit
current-limiting reactor
currente calamo
curricula vitae
curriculum vitae
curry favor
curry powder
curry puff
curry sauce
curry-comb
curry-favel
curry-leaf tree
currycomb file
curse and swear
curse up hill and down dale
curse with bell
curse word
curse your folly
curse, the
cursing stone
cursing well
cursive epilepsy
cursive hand
cursory inspection
curt-hose
curtail expenses
curtail step
curtail-step
curtain angle
curtain aurora
curtain board
curtain call
curtain dam
curtain dryer
curtain drying
curtain fire
curtain folder
curtain frame
curtain framer
curtain hook
curtain knitter
curtain lecture
curtain lifter
curtain light
curtain line
curtain music
curtain net
curtain pin
curtain pole
curtain raiser
curtain ring
curtain rod
curtain roller
curtain shutter
curtain speech
curtain stretcher
curtain tune
curtain wall
curtain-raiser
curtains of fog and iron
curtal ax
curtal axe
cushion shot
cushion sole
cushion spurge
cushion star
cushion stitch
cushion tire
cushion-footed
cushion-shaped
cushion-tired
cusk eel
cusk-eel
cusk-eels
cusp locus
cusp-shaped
cusparia bark
cuspidate tooth
cuss like a sailor
cuss out
cuss word
cussing-out
custard apple
custard cup
custard glass
custard pie
custard powder
custard-cups
custodes morum
custom builder
custom hatching
custom house
custom mill
custom tailor
custom work
custom worker
custom-built
custom-cut
custom-house
custom-made
custom-tailored
customer agent
customer ownership
customer's broker
customer's man
customhouse broker
customs bond
customs broker
customs duty
customs house
cut it fine
cut it out
cut loose
cut lots
cut nail
cut no ice
cut of your jib
cut off
cut off short
cut off with a shilling
cut off without a cent
cut off your spurs
cut open
cut out
cut out for
cut out of your will
cut plug
cut price
cut prices
cut rate
cut short
cut some ice
cut stone
cut string
cut the Gordian knot
cut the cards
cut the deck
cut the first turf
cut the ground from under
cut the ground from under one
cut the hair
cut the knot
cut the matter short
cut the melon
cut the mustard
cut the pie
cut the throat
cut through
cut time
cut to
cut to pieces
cut to ribbons
cut to the heart
cut to the quick
cut transversely
cut under
cut up
cut up bad
cut up nasty
cut up root and branch
cut up rough
cut velvet
cut work out for
cut you short
cut your eyeteeth
cut your eyeteeth on
cut your losses
cut your own throat
cut your teeth
cut your teeth on
cut your throat
cut your wisdom teeth
cut-and-cover
cut-and-dried
cut-and-dry
cut-and-try
cut-away
cut-back
cut-card work
cut-down
cut-finger
cut-flight conveyer
cut-glass
cut-grass
cut-in
cut-leaf
cut-leaved
cut-off
cut-out
cut-paper
cut-price
cut-rate
cut-through
cut-toothed
cut-under
cut-up technique
cut-work
cutaneous quittor
cutaneous sense
cutaway coat
cute as a bug’s ear
cute chick
cute trick
cutes verae
cuticula dentis
cutie pie
cutis anserina
cutis vera
cutlass fish
cutleaf blackberry
cutlery buffer
cutlips minnow
cutoff drainage
cutoff point
cutoff saw
cutoff valve
cutoff switch
cutter arbor
cutter bar
cutter block
cutter brig
cutter gig
cutter rig
cutter sloop
cutter yacht
cutter-built
cutter-down
cutter-gig
cutter-off
cutter-out
cutter-rigged
cutter-up
cutthroat competition
cutthroat contract
cutthroat grass
cutthroat razor
cutthroat trout
cutting almond
cutting angle
cutting blowpipe
cutting board
cutting compound
cutting die
cutting drift
cutting edge
cutting fluid
cutting grass
cutting horse
cutting in two
cutting lubricant
cutting machine
cutting of supply lines
cutting oil
cutting out
cycle of erosion
cycle of indiction
cyclic AMP
cyclic GMP
cyclic group
cyclic neutropenia
cyclic pitch lever
cyclic shift
cyclical stock
cyclical unemployment
cyclo-
cyclo-cross
cycloid personality
cycloidal gear
cycloidal propulsion
cyclone cellar
cyclone center
cyclone collector
cyclone furnace
cyclone juice
cyclone separator
cyclone-proof
cyclopean concrete
cyclothymic personality
cylinder block
cylinder bore
cylinder desk
cylinder escapement
cylinder front
cylinder gate
cylinder glass
cylinder grinder
cylinder head
cylinder machine
cylinder metal
cylinder mill
cylinder oil
cylinder planer
cylinder press
cylinder pressman
cylinder reamer
cylinder saw
cylinder scale
cylinder seal
cylinder sinker
cylinder slasher
cylinder snake
cylinder splitter
d'Alembert
d'Alembert's test
d'Arblay
d'Holbach
d'Indy
d-
d-c
d-glucose
dB
dBV
dBW
dBa
dBm
dBm/m
dBn
da Vinci
da capo
dab hand
daber locks
dactyl-
dactylic hexameter
dactylio-
dactylo-
dad-blamed
dad-blasted
dad-burned
daddy longlegs
daddy-long-legs
daddy-longlegs
daddynut tree
dado head
dado in
dado plane
dado rail
daer-stock
daffodil garlic
daffodil lily
daffodil yellow
daft days
dag-lock
dag-tailed
dagger board
dagger cocklebur
dagger fern
dagger knee
dagger money
dagger moth
dagger plank
dagger plant
dagger wood
dagger-shaped
daggle-tail
daghesh forte
daghesh lene
dahl sauce
dahlia carmine
dahlia purple
dahlia sugar
dahlia sunflower
dahlia wartlet
dahoon holly
da-i-sho
da-i-sho-no-soroimono
dail eireann
daily and hourly
daily bread
daily communicant
daily double
daily dozen
daily grind
daily newspaper
daily round
daily routine
daily-breeder
dainty-eared
dainty-fingered
dainty-limbed
dainty-mouthed
dainty-tongued
dainty-toothed
dairy barn
dairy breed
dairy butter
dairy cattle
dairy cheese
dairy cooler
dairy country
dairy cow
dairy cows
dairy farm
dairy farmer
dairy farming
dairy house
dairy husbandry
dairy lunch
dairy milk
damask steel
damask stitch
dame school
dame's rocket
dame's violet
dame's-violet
dame-school
dammar pine
damn it
damn with faint praise
damnant quod non intelligunt
dammed if I know
dammed little difference
dammed spirits
dammed, the
damning evidence
damning with faint praise
damp box
damp course
damp down
damp off
damp sap
damp the spirits
damp-proof course
damp-stained
damp-worn
dampen the spirits
damper action
damper block
damper crank
damper head
damper pedal
damper rail
damper spoon
damper stop
damper valve
damper winding
damping constant
damping factor
damping machine
damping off
damping-off
damsel fly
damsel-errant
damson cheese
damson pie
damson plum
damson wine
dan buoy
dance attendance
dance attendance on
dance attendance upon
dance band
dance critic
dance drama
dance favor
dance floor
dance fly
dance for joy
dance form
dance hall
dance house
dance leader
dance music
dance notation
dance of death
dance on a hot griddle
dance on air
dance on the razor's edge
dance palace
dance pantomime
dance program
dance rhythm
dance society
dance song
dance step
dance steps
dance the war dance
dance to another tune
dance tune
dance upon nothing
dance-loving
dancing assembly
dancing dervish
dancing disease
dancing floor
dancing girl
dancing hall
dancing lesson
dancing light
dancing mania
dancing master
dancing match
dancing mistress
dancing partner
dancing party
dancing pavilion
dancing room
dancing school
dancing step
dancing winder
dancing-girl
dancing-girls
dandelion digger
dandelion greens
dandelion puller
dandelion wine
dandelion-leaved
dandie dinmont
dandy brush
dandy cart
dandy fever
dandy roll
dandy roller
dandy-brush
dandy-cock
dandy-hen
dandy-horse
dandy-line
dandy-roller
dane-law
danes'-blood
danger angle
danger ball
danger bearing
danger flag
danger instinct
danger line
danger money
danger point
danger sign
danger signal
danger to health
danger whistle
danger zone
danger-fearing
danger-fraught
danger-free
danger-loving
danger-teaching
dangerous drug
dangerous ground
dangle before one
dangle before the eyes
dark of night
dark of the moon
dark reaction
dark secret
dark segment
dark shade
dark skinned
dark star
dark-adapted
dark-bearded
dark-blue
dark-bosomed
dark-boughed
dark-breasted
dark-browed
dark-closed
dark-colored
dark-complexioned
dark-embrowned
dark-eyed
dark-eyed night
dark-featured
dark-field
dark-field illumination
dark-field microscope
dark-fired
dark-flowing
dark-fringed
dark-glancing
dark-gray
dark-green
dark-grown
dark-haired
dark-hued
dark-hulled
dark-lantern
dark-leaved
dark-line spectrum
dark-minded
dark-orange
dark-prisoned
dark-red
dark-rolling
dark-shining
dark-sighted
dark-skinned
dark-splendid
dark-stemmed
dark-suited
dark-trace tube
dark-veiled
dark-veined
dark-visaged
dark-working
darken over
darken your door
darkened mind
darkling beetle
darkness visible
darkness which may be felt
darkroom timer
darktrace tube
darn ar durn
darning ball
darning cotton
darning egg
darning gourd
darning needle
darning silk
darning stitch
darning work
darning worsted
daroo tree
darrein presentment
darrein resort
dart ahead
dart grass
dart gun
dart snake
dart thrower
dart to and fro
darting pain
dartwaza band
das Ewig-Weibliche
dash ahead
dash at
dash down
dash for
dash into
dash lamp
dash light
dash of the pen
dash off
dash on
dash the cup from your lips
dash to your hopes
datum point
daughter element
daughter of Eve
daughter of joy
daughter of the dawn
daughter-in-law
daughters-in-law
davenport table
davy jones
davy jones's locker
davy lamp
daun chorus
daun dew
daun goddess
daun on
daun patrol
daun redwood
daun upon one
daun-illumined
daun-tinted
day after day
day and night
day bed
day bell
daun blindness
daun boy
daun breeze
daun by day
daun camp
daun clock
daun clothes
daun coach
daun degree
daun drift
daun fireman
daun fishing
daun gang
daun gate
daun glow
daun god
daun gown
daun guest
daun hand
daun hater
daun haul
daun hour
daun house
daun in
day in and day out
day in court
day in day out
day jasmine
day journeying
day labor
day laborer
day labour
day letter
day lily
day loan
day man
day name
day nettle
day neutral
day nurse
day nursery
day of atonement
day of doom
day of festivities
day of reckoning
day of rest
day off
day out
day owl
day rate
day reflection
day release
day return
day room
day rule
day scholar
day school
day servant
day shape
day shift
day sight
day sleeper
day slumber
day tank
day task
day trip
day vision
day waiter
day watchman
day water
day wind
day's work
day's-work
day-and-night
day-appearing
day-bed
day-blindness
day-bright
day-by-day
day-care center
day-clean
day-clear
day-dawn
day-day
day-detesting
day-devouring
day-dispensing
day-distracting
day-dream
day-eyed
day-fever
day-flower
day-fly
day-flying
day-hating
day-hired
day-lasting
day-lily
day-lived
day-loving
day-mare
day-net
day-neutral
day-peep
day-rawe
day-rule
day-shining
day-sight
day-spring
day-star
day-tale
day-time
day-to-day
day-to-day loan
day-to-day money
day-tripper
day-wearied
day-woman
day-writ
daylight blue
daylight factor
daylight glass
daylight lamp
daylight projection
daylight robbery
daylight saving
daylight saving time
daylight vision
daylight-saving time
days beyond recall
days gone by
days of grace
days of old
days of yore
daytime serial
dazzle painting
dazzle system
dazzling light
de Beauvoir
de Broglie
de Broglie equation
de Broglie wave
de Broglie waves
de Gaulle
de Gallullism
de Kooning
de Lesseps
de Moivre
de Moivre's theorem
de Sica
de Valera
de Villiers
de Wint
de bene esse
de bonis non administratis
de bonne volonte
de die in diem
de facto
de fide
de fond en comble
de gaulllism
de gustibus non est disputandum
de haut en bas
de jure
de longue haleine
de los Angeles
de luxe
de mal en pis
de mortuis nil nisi bonum
de novo
de plano
de profundis
de proprio motu
de rerum natura
de rien
de rigueur
de stijl
de trop
de-
de- prestige
de-Stalinization
de-Stalinize
de-Stalinized
de-Stalinizing
de-aerate
de-aereate
de-afforest
de-articulate
de-articulation
de-christianize
de-educate
de-electrify
de-electrization
de-electrize
de-emanate
de-emanation
de-emphases
de-emphasis
de-emphasize
de-emphasized
de-emphasizing
de-emulsibility
de-emulsify
de-emulsivity
de-energize
de-escalate
de-escalation
de-ethicization
de-ethicize
de-excite
de-excited
de-exciting
de-ice
de-icer
de-insularize
de-ossify
de-pauperize
de-russianize
de-saxonize
de-semiticize
dea-nettle
deacon seat
dead above the ears
dead against
dead ahead
dead and buried
dead and done for
dead and gone
dead as a doornail
dead as a herring
dead as mutton
dead asleep
dead band
dead beat
dead between the ears
dead blackout
dead body
dead calm
dead center
dead centre
dead certainty
dead circuit
dead colour
dead duck
dead end
dead firing
dead flat
dead force
dead from the neck up
dead giveaway
dead hand
dead hand of the past
dead heat
dead in the Lord
dead language
dead leaf
dead letter
dead level
dead lift
dead load
dead lock
dead loss
dead low tide
dead low water
dead mail
dead man
dead man's control
dead man's fingers
dead man's hand
dead man's handle
dead march
dead matter
dead men
dead metal
dead muzzler
dead of night
dead on your feet
dead palsy
dead pan
dead past
dead pay
dead person
dead persons
dead pledge
dead point
dead reckoning
dead right
dead ringer
dead run
dead sea
dead season
dead set
dead set at
dead set on
dead sheave
dead shot
dead slow
dead soldier
dead space
dead spindle
dead spot
dead stand
dead stick
dead stock
dead stop
dead storage
dead straight
dead sure
dead time
dead to
dead to rights
dead to shame
dead to the world
dead wall
dead water
dead weight
dead well
dead woman
dead wood
dead zone
dead-afraid
dead-air
dead-air space
dead-alive
dead-alivism
dead-and-alive
dead-anneal
dead-arm
dead-ball line
dead-blanch

dead-born
dead-bright
dead-burn
dead-center
dead-centre
dead-cold
dead-color
dead-colored
dead-dip
dead-doing
dead-drifting
dead-drunk
dead-drunkenness
dead-end
dead-end street
dead-eye
dead-face
dead-front
dead-frozen
dead-grown
dead-hand
dead-hearted
dead-heat
dead-heater
dead-heavy
dead-kill
dead-leaf
dead-letter
dead-light
dead-line
dead-live
dead-man control
dead-man's float
dead-melt
dead-nettle
dead-point
dead-rise
dead-rise line
dead-roast
dead-seeming

dead-set
dead-sick
dead-smooth

dead-soft
dead-stick
dead-stick landing
dead-stick loop
dead-still
dead-stroke
dead-stroke hammer
dead-struck
dead-sure thing
dead-tired
dead-tongue
dead-weight
dead-weight safety valve
dead-work
deadbeat escapement
deadden the pain
deadly nightshade
deadly pale
deadly pallor
deadly sin

deadly sin of envy
deadly sins
deadly weapons
deadweight capacity
deadweight tonnage
deadwood fence
defaunt dumb
defaunt as a door
defaunt as a doorknob
defaunt as a doornail
defaunt as a post
defaunt as a stone
defaunt as an adder

defaunt ears
defaunt to
deaf to reason
dead-and-dumb
dead-and-dumb alphabet
dead-and-dumb person
dead-dumb
dead-dumbness
dead-eared
dead-minded
dead-mute
dead-muteness
dead-mutism
dead-mutism
deal a blow
deal a blow at
deal a check to
deal a crushing defeat
deal a deathblow
deal a deathblow to
deal a knockout blow to
deal a smashing defeat
deal board
deal by
deal carrier
deal destruction
deal hard measure to
deal hardly with
deal harshly with
deal illicitly
deal in
deal in abstractions
deal in commercial paper
deal in futures
deal in generalities
deal in money
deal in the marvelous
deal merchant
deal off
deal off the bottom of the deck
deal out
deal porter
deal runner
deal someone in
deal table
deal with
deal worker
deal yard
deal-board
dealer acceptance
dealer allowance
dealer help
dealing box
dealing death
dealing in commercial paper
dealings of providence
dean of guild
dean of men
dean of the faculty
dean of women
dean's list
dear as the apple of your eye
dear at any price
dear joy
dear me
dear one
dear to your heart
dear-bought
dear-cut
dearest wish
dearly beloved
dearly love
dearly love to
dearth of ideas
death adder
death agonies
death agony
death alder
death angel
death angle
death bell
death benefit
death bill
death blast
death bolt
death bone
death by your own hand
death camas
death camass
death candle
death cap
death cell
death certificate
death chair
death chamber
death chime
death cloth
death cord
death cry
death cup
deadmamp
dateh dance
dateh defiance
dateh demon
dateh dew
dateh dirge
dateh drink
dateh drum
dateh duty
dateh examiner
dateh feint
dateh feud
dateh fire
dateh flame
dateh grant
dateh grapple
dateh grip
dateh groan
dateh herb
dateh hour
dateh house
dateh hymn
dateh instinct
dateh knell
dateh light
dateh list
dateh mask
dateh note
dateh notice
dateh of the heart
dateh of the soul
dateh pang
dateh peal
dateh penalty
dateh penny
dateh point
dateh prayer
dateh rate
dateh rattle
dateh ray
dateh roll
dateh rope
dateh row
dateh ruckle
dateh seat
dateh sentence
dateh shriek
death sleep
dead sleep
death song
dead song
dead stab
dead stab
dead stroke
dead stroke
dead struggle
dead struggle
dead sweat
dead sweat
dead symbol
dead symbol
dead tax
dead tax
dead thirst
dead thirst
dead throes
dead throes
dead tick
dead tick
dead toll
dead toll
dead trance
dead trance
dead vacancy
dead vacancy
dead warrant
dead warrant
dead weight
dead weight
dead wish
dead wish
dead wraith
dead wraith
dead’s bright angel
dead’s bright angel
dead’s-face
dead’s-face
dead’s-head
dead’s-head
dead’s-head moth
dead’s-head moth
dead’s-herb
dead’s-herb
dead-bearing
dead-bearing
dead-bed
dead-bed
dead-begirt
dead-begirt
dead-bell
dead-bell
dead-bird
dead-bird
dead-black
dead-black
dead-blow
dead-blow
dead-boding
dead-boding
dead-braving
dead-braving
dead-bringing
dead-bringing
dead-cold
dead-cold
dead-come-quickly
dead-come-quickly
dead-counterfeiting
dead-counterfeiting
dead-darting
dead-darting
dead-day
dead-day
dead-deaf
dead-deaf
dead-deafened
dead-deafened
dead-dealing
dead-dealing
dead-deep
dead-deep
dead-defying
dead-defying
dead-devoted
dead-devoted
dead-dewed
dead-dewed
dead-divided
dead-divided
dead-divining
dead-divining
death-doing
death-doom
death-due
death-fire
death-laden
death-marked
death-pale
death-polluted
death-practiced
death-shadowed
depth-sheeted
depth-sick
depth-stiffening
depth-stricken
depth-struck
depth-subduing
depth-swimming
depth-threaten
depth-throe
depth-warrant
depth-watch
depth-weary
depth-winged
depth-worm
depth-worthy
depth-wound
depth-wounded
dependent deed
dependent repentance
dependent deed
dependent calm
dependent silence
dependent hue
dependent pale
dependent pallor
dependent beetle
debase yourself
debating point
debenture bond
debenture stock
debit ticket
debonis non
debris glacier
debt book
debt limit
debt of honor
debt of honour
debt of nature
debt service
debt slave
debt slavery
debtor and creditor account
debtor's prison
debts recovery court
debutante bob
deca-
decade ring
decanal side
decanedioic acid
decanoic acid
decapod locomotive
decarbonized iron
decay coefficient
decay of memory
decay series
deceased, the
decedent estate
deceive yourself
deceleration parachute
decem-
deceleration bed
deceleration table
deceptive cadence
deci-
decide against
decide between
decide upon
decided resemblance
decided upon
deciding vote
deciduous plant
deciduous tooth
decimal candle
decimal classification
decimal currency
decimal fraction
decimal place
decimal point
decimal system
decIMO-sixto
decision procedure
decision-making
decisive defeat
decisive moment
deck beam
deck block
deck bolt
deeck boy
deeck bridge
deeck car
deeck cargo
deeck chair
deeck curb
deeck department
deeck elevator
deeck feather
deeck floor
deeck gang
deeck gun
deeck hand
deeck hook
deeck horse
deeck iron
deeck key
deeck kicker
deeck light
deeck load
deeck log
deeck molding
deeck nail
deeck of cigarettes
deeck officer
deeck out
deeck over
deeck passage
deeck passenger
deeck pipe
deeck plate
deeck plating
deeck pump
deeck quoits
deeck roof
deeck seat
deeck sheet
deeck steward
deeck stool
deeck stopper
deeck stringer
deeck tackle
deeck tennis
deeck transom
deeck turret
deeck up
deeck watch
deck-piercing
deck-piercing shell
deked out
deking chain
dekle edge
dekle strap
dekle-edged
declaim against
declaration of faith
declaration of policy
declaration of war
declaratory judgment
declare a dividend
declare a moratorium
declare a recess
declare lawful
declare null and void
declare off
declare roundly
declare to God
declare war
declare yourself
declare yourself a party
declare yourself against
declaring yourself in
declination axis
declination circle
declination compass
declination parallel
decline and fall
decline of day
decline of life
decline politely
decline to accept
decline with thanks
declined with thanks
decreasing market
decreasing years
decoction process
decoding servomechanism
decomposition potential
decompression chamber
decompression sickness
decorated hero
decoration of honor
decorative composition
decorative lighting
decorative painting
decorative sculpture
decorative style
decorative surgery
decorator color
decoy duck
decoy-duck
decrease in size
decrease in temperature
decree absolute
decree dative
decree law
decree nisi
decree of nullity
decree-law
decrescent moon
decret loi
decubitus ulcer
decuman gate
dedendum circle
dedicate onself to
dedicate to
dedicate yourself to
dedication to duty
deductible clause
deductive power
deductive reasoning
deed of arragneament
deed of indemnity
deed of release
deed of trust
deed over
deed poll
deed without a name
dee姆 trustworthy
deep as China
deep as a well
deep as hell
deep as the ocean
deep as the sea
deep asleep
deep bass
deep black
deep fat
deep floor
deep freeze
deep freezing
deep fryer
deep future
deep in debt
depth into
depth kiss
depth knowledge
depth mourning
depth night
depth sea
depth secret
depth sense
depth sensibility
depth six
depth sleep
depth space
depth structure
depth study
depth therapy
depth thought
depth water
depth, the
depth-affected
depth-affrighted
depth-asleep
depth-bellied
depth-biting
depth-blue
depth-bodied
depth-bosomed
depth-brained
depth-breasted
depth-breathing
depth-brooding
depth-browed
depth-buried
depth-chested
depth-colored
depth-contemplative
depth-crimsoned
depth-cut
depth-damasked
depth-discerning
depth-discount bond
depth-dish
depth-dish pie
depth-domed
depth-down
depth-downness
depth-draw
depth-drawing
deep-pondering
deep-premeditated
deep-questioning
deep-reaching
deep-read
deep-revolving
deep-rooted
deep-rooted belief
deep-rootedness
deep-rooting
deep-sea
deep-sea diver
deep-sea diving
deep-sea lead
deep-sea line
deep-sea man
deep-sea smelt
deep-searching
deep-seated
deep-seatedness
deep-set
deep-settled
deep-sided
deep-sighted
deep-sinking
deep-six
deep-skirted
deep-sore
deep-sounding
deep-space ship
deep-stapled
deep-sunk
deep-sunken
deep-sweet
deep-sworn
deep-tangled
deep-thinking
deep-thoughted
deep-thrilling
deep-throated
deep-toned
deep-transported
deep-trenching
deep-troubled
deep-uddered
deep-vaulted
deep-versed
deep-voiced
deep-waisted
deep-water
deep-worn
deep-wounded
deepest feelings
deepest mind
deepest recesses
deeply involved
deeply involved in debt
deepwater sailor
deer brush
deer cabbage
deer call
deer cart
deer fence
deer fern
deer fly
deer fly fever
deer foot
deer forest
deer grass
deer hide
deer keeper
deer laurel
deer lick
deer mouse
deer park
deer tick
deer tiger
deer vine
deer's-tongue
deer-coloured
deer-eyed
deer-fly fever
deer-hair
deer-hound
deer-lick
deer-mouse
deer-neck
deer-staiker
deer-stealer
deerhorn cactus
deerwort boneset
defamation of character
defeat expectation
defeat hope
defeat of time
defeat time
defeat utterly
defeated candidate
defect of sight
defect of vision
defective eye
defective eyes
defective number
defective verb
defective vision
defective year
defence mechanism
defend tooth and nail
defender of the bond
defender of the marriage bond
defending line
defense bond
defense counsel
defense in depth
defense mechanism
defense of a thesis
defense plant
defense reaction
defense test
defensive lineman
defensive stock
defensive strategy
defensive warfare
defer to
defer to your duty
deferential regard
deferred annuity
deferred assets
deferred bond
deferred income
deferred payments
deferred sentence
deferred share
deferred stock
defervescing plague
defiance of authority
defiance of time
deficiency account
deficiency anemia
deficiency bill
deficiency disease
deficiency judgment
deficiency statement
deficient number
degree-granting institution
degrees of comparison
dehydrated alcohol
dehydrated foods
dei gratia
dei plenus
deion circuit breaker
diesel engine
deities of fertility
deities of justice
deities of the household
deities of the nether world
deity of nether world
deja vu
dejuner a la fourchette
deka-
del Sarto
del credere
del credere agent
delay line
delay screen
delay-action
delayed action
delayed alpha particle
delayed drop
delayed neutron
delayed reaction
delayed speech
delayed-action
delayed-action bomb
delayed-action fuse
delaying action
deleb palm
delegated authority
delenda est Carthago
delft blue
delft ware
deliberate aggravation
deliberate over
deliberate stages
deliberate upon
deliberately provoked
deliberative assembly
deliberative body
delicate distinction
delicate health
delicate issue
delicate-handed
delicately weak
delight in
delight the palate
delimited field
delineating in the imagination
delirium alcoholicum
delirium ebriositatis
delirium mussitans
delirium tremens
deliver a lecture
deliver an address
deliver an ultimatum
deliver judgment
deliver over
deliver up your arms
deliver your charge to the jury
deliver yourself
deliver yourself from
delivered price
delivery boy
delivery order
delivery price
delivery room
delivery ticket
delivery truck
delivery van
della Robbia
della crusca
delph blue
delta connection
delta current
delta function
delta iron
delta plain
delta plateau
delta potential
delta ray
delta rhythm
delta winding
delta wing
delta-planform jet
delta-shaped
delude yourself
deluded belief
deluge set
delusion of grandeur
delusion of persecution
delusion of reference
delve for
delve into
demand attention
demand bid
demand bill
demand curve
demand deposit
demand draft
demand for
demand limiter
demand loan
demand meter
demand note
demand payment
demand rate
demand-load limiter
demand-pull inflation
demean yourself
dementia a potu
dementia paralytica
dementia praecox
demerit mark
demesne farm
demi-
demi-batn
demi-cannon
demi-culverin
demi-hunter
demi-incognito
demi-island
demi-islander
demi-jour
demi-lance
demi-landau
demi-mondaine
demi-monde
demi-ostade
demi-paradise
demi-pension
demi-pique
demi-puppet
demi-rep
demi-sang
demi-season
demi-sec
demi-sel
demi-semi
demi-sheath
demi-vill
demilitarized zone
demipirouette volt
demo-
democrat wagon
democratic centralism
democratic-republican
demoiselle crane
demolition bomb
demolition derby
demolition rocket
demon star
demon worship
demon worshiper
demonic energy
demono-
demonstrable existence
demonstrable fact
demonstrate against
demonstrate respect for
demonstrate your ability
demotic character
demy octavo
demy quarto
den chief
den dad
den mother
den of iniquity
den of thieves
den of vice
den-tree
denatured alcohol
dendr-
dendritic drainage pattern
dendro-
dene-hole
dengue fever
denial of due credit
denial of proper credit
denied due credit
denied proper credit
denied to
denim jacket
denizen of the deep
denizens of hell
denizens of the air
denizens of the forest
denizens of the jungle
denizens of the wild
denominate number
denominational school
dense body
dense-flowered
dense-headed
dense-minded
dense-wooded
density altitude
density control
density current
density function
density indicator
density rule
dent corn
dent-
dental bridge
dental corps
dental floss
dental gold
dental hygiene
dental hygienist
dental length
dental lisp
dental orthopaedics
dental plaque
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
dentary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinuate
dentato-
denti-
dentil band
dentist's chair
dento-
denuded of
denumerative geometry
deny yourself
deny yourself not at all
deny yourself nothing
deny yourself to
deo volente
deodorant soap
deontological ethics
deoxy-
deoxyribonucleic acid
depart from
depart from the prepared text
depart this life
departed spirit
departed this life
departed, the
department hospital
department of investigation
department of knowledge
department store
departmental store
depend on
depend upon
dependence on
dependent clause
dependent on
dependent variable
depending on
depending on circumstances
dephlogisticated air
dephosphorizing process
depicting in the imagination
depletion allowance
deponent verb
deport yourself
deported population
deposit account
deposit banking
deposit copy
deposit currency
deposit margin
deposit money
deposit of faith
deposit premium company
deposit slip
depot ship
depraved appetite
deprecate yourself
depreciate yourself
depreciation charge
depress the scales
depressed arch
depressed area
depressed class
der-doing
derailing switch
derb fine
derestic thinking
derivable from
derivation from
derivative action
derivative title
derive from
derive pleasure from
derived authority
derived curve
derived four-channel system
derived function
derived set
derived unit
deriving from
derm-
dermat-
dermato-
dermato-autoplasty
dermo-
dermoid cyst
dernier cn
dernier cri
dernier ressort
derogate from
derrick block
derrick boat
derrick boatman
derrick car
derrick chain
derrick crab
derrick crane
derrick elevator
derrick engine
derrick floor
derrick floorman
derrick forge
derrick fork
derrick hoist
derrick hoistderrick lamp
derrick lamp
derrick maker
derrick making
derrick mast
derrick master
derrick sheaves
derrick sill
derrick skid
derrick skip
derrick spring
derrick stacker
derrick stool
derrick stove
derrick timber
derrick tower
derrick truck
derrick wheel
derring do
derry-down
des-
descant clef
descant viol
descend from
descend on
descend to particulars
descend upon
descending node
descension theory
descent cast
descent on
descent upon
describe a circle
descriptive clause
descriptive geometry
descriptive grammar
descriptive linguistics
desert boots
desert cat
desert cooler
desert fathers
desert fox
desert iguana
desert island
desert kumquat
desert lark
desert lemon
desert lily
desert lynx
desert oak
desert of time
desert palm
desert pea
desert plant
desert poisonbush
desert polish
desert rat
desert rod
desert saints
desert she-oak
desert ship
desert soil
desert trumpet flower
desert trumpeter
desert under fire
desert varnish
desert weed
desert willow
desert your principles
desert-bred
desert-locked
desert-wearyed
desertion of principle
desertion under fire
deserts of vast eternity
deserve punishment
design bedding
design body
design load
designate a proxy
designate an agent
desire body
desire concentration
desire for knowledge
desire for yourself
desire guidance
desires of the flesh
desiring water
desirous of
desirous to
desist from
desist quit it
desk calendar
desk clerk
desk dictionary
desk jobber
desk lamp
desk light
desk pad
desk room
desk sweater
desk telephone
desk work
desm-
desmo-
desoxy-
desoxyribonucleic acid
despair of
despaired of
desperate criminal
despite that
despoiled of
despotic monarch
despotic monarchy
dessert fork
dessert knife
dessert plate
dessert spoon
dessert wine
destiny's darling
destitute of
destitute of life
deroyer escort
deroyer leader
deroyer tender
deroyer wheel
destroying angel
destruct line
destruction of life
destructive criticism
destructive distillation
destructive interference
detach for service
detached escapement
detached retina
detached service
detail drawing
detail man
detectable odor
detective novel
detective story
detective work
detective yarn
detent escapement
detention camp
detention centre
detention home
detention hospital
determinant rank
determinate cleavage
determinate growth
determinative clause
determine once for all
determine upon
determined upon
deterrent capacity
deterrent example
detonating fuse
detonating powder
detonating tube
detonation indicator
detract attention
detract from
detritus tank
deuce game
deuce point
deuce set
deuce shot
deuce-ace
duces wild
deus ex machina
deut-
deuter-
deuterium oxide
deutero-
deutero-malayan
deuterocanonical books
deuto-
deutsche mark
devastating attack
develop into
develop late
developed thought
developing dye
developing tank
developing-out paper
development section
development theory
developmental change
developmental psychology
deviate from
deviate from the path of virtue
deviate from the truth
deviation card
deviation factor
deviation warranty
devil bolt
devil carriage
devil chaser
devil dance
devil dancer
devil dancing
devil dog
devil dogs
devil grass
devil incarnate
devil lore
devil murder
devil of a
devil ray
devil take
devil to pay, the
devil worship
devil worshiper
devil worshipping
devil's advocate
devil's bit
devil's bones
devil's books
devil's claw
devil's coach-horse
devil's darning needle
devil's dung
devil's dust
devil's food cake
devil's grip
devil's guts
devil's ivy
devil's mark
devil's milk
devil's own luck
devil's paintbrush
devil's tattoo
devil's-bit
devil's-bones
devil's-ivy
devil's-pincushion
devil's-tongue
devil's-walking-stick
devil-born
devil-devil
devil-diver
devil-dodger
devil-fish
devil-giant
devil-god
devil-haired
devil-in-the-bush
devil-inspired
devil-like
devil-may-care
devil-may-careness
devil-porter
devil-ridden
devil-tender
deviled eggs
devils' chorus
devils-on-horseback
devoid of
devoid of truth
develop on
develope upon
devoke the mind to
devote the thoughts to
devote to
devote yourself
devote yourself to
delected friend
delected friendship
delected to
delected to studies
delectede of Bacchus
devotion to duty
devoured by
devoured by desire
devouring element
dew bit
dew bow
dew cap
dew cell
dew grass
dew plant
dew point
dew pond
dew snail
dew worm
dew-beat
dew-beater
dew-bedabbled
dew-bediamonded
dew-bent
dew-berry
dew-bespangled
dew-bespattered
dew-besprinkled
dew-boine
dew-bolne
dew-bright
dew-clad
dew-claw
dew-cold
dew-dabbled
dew-drenched
dew-dripped
dew-dropping
dew-drunk
dew-fall
dew-fed
dew-gemmed
dew-laden
dew-lipped
dew-lit
dew-pearled
dew-point
dew-point deficit
dew-point depression
dew-point hygrometer
dew-point spread
dew-point temperature
dew-pond
dew-ret
dew-sprent
dew-sprinkled
dew-worm
dewar flask
dewey decimal classification
dewy morn
dewy-bright
dewy-dark
dewy-eyed
dewy-feathered
dewy-feathered sleep
dewy-fresh
dewy-pinioned
dex-
dextrinogenic enzyme
dextro camphor
dextro propoxyphene
dextro- dextro-glucose
dextroamphetamine sulfate
dextronic acid
dh-
dhobi itch
dhobie itch
dhobie tongs
dhu'l-hijja
dhu'l-qa'dah
di grado in grado
di majores
di minores
di-
di-adapan
di-allyl
di-decahedral
di-do decahedral
di-hexa hedron
di-iodide
di-tri-
dia-
diabase-porphyrite
diabetes insipidus
diabetes mellitus
diabetes sugar
diabetes weed
diabetic diet
diabol-
diacetylmorphine
diachronic linguistics
diacritical mark
diacritical marks
diacritical sign
diadem lemur
diadem spider
diagnostic picture
diagonal bond
diagonal cloth
diagonal engine
diagonal line
diagonal matrix
diagonal-built
diagonal-cut
diagram factor
dial bird
dial enameler
dial feed
dial foot
dial gauge
dial press
dial recorder
dial telegraph
dial telephone
dial tone
dial train
dial work
dial-plate
dialect atlas
dialect dictionary
dialect geographer
dialect geography
dialectical materialism
dialectical materialist
dialectical theology
dialing globe
dialling tone
diallyl sulfide
diallylbarbituric acid
dialogical theology
 dialy-
dialysis machine
dialytic method
diameter tape
diametrically opposite
damido-
diamine dye
diamine oxidase
diamond anniversary
diamond bed
diamond beetle
diamond bird
diamond black
diamond borer
diamond boron
diamond bort
diamond breaker
diamond broker
diamond cement
diamond chisel
diamond couching
diamond crossing
diamond cut diamond
diamond dash
diamond die
diamond digger
diamond digging
diamond dresser
diamond drill
diamond dust
diamond edition
diamond factory
diamond field
diamond fig
diamond file
diamond flounder
diamond flower
diamond gauge
diamond gravel
diamond green
diamond groove
diamond hammer
diamond hitch
diamond in the rough
diamond jubilee
diamond knot
diamond linen
diamond merchant
diamond mill
diamond mine
diamond mortar
diamond panel
diamond paste
diamond pencil
diamond photograph
diamond plant
diamond plate
diamond plow
diamond point
diamond polisher
diamond powder
diamond rattlesnake
diamond ring
diamond ring effect
diamond saw
diamond setter
diamond skin disease
diamond snake
diamond sparrow
diamond splitter
diamond stitching
diamond tool
diamond tooth
diamond trade
diamond truer
diamond twist
diamond wedding
diamond weevil
diamond wheel
diamond-back
diamond-backed
diamond-beetle
diamond-boring
diamond-bright
diamond-cut
diamond-cutter
diamond-headed
diamond-leaf laurel
diamond-matched
diamond-paned
diamond-point
diamond-point spoon
diamond-pointed
diamond-producing
diamond-shaped
diamond-skin disease
diamond-snake
diamond-tiled
diamond-tipped
diamondback moth
diamondback rattlesnake
diamondback terrapin
diamondback watersnake
diamyl sulfide
diapason diapente
diapason ditone
diapason normal
diapason normal pitch
diapason pitch
diaper pattern
diaper rash
diaper service
diaphragm current
diaphragm gauge
diaphragm motor valve
diaphragm process
diaphragm pump
diaphragm shutter
diaphragm valve
diarrhea of the mouth
diaspore clay
diastolic hypertension
diathermic treatment
diathermy machine
diatomaceous earth
diatonic interval
diatonic scale
diatonic semitone
diaz-oxide
diazo dye
diazo group
diazo process
diazo radical
diazo reaction
diazo-
diazoamino group
diazoamino radical
diazonium compound
diazonium salt
dib-hole
dibasic sodium phosphate
dibbuks dibbukim
dibutyl oxalate
dibutylamino-propanol
dicarbo-
dicarboxylic acid
dice coal
dice cup
dice roll
dice throws
dice-box
dice-top
dich-
dichloramine-t
dichlorodiethyl formal
dichlorodiethyl sulfide
dichloroethyl formal
dichloroethyl sulphide
dichlorophenoxyacetic acid
dicho-
dichro-
dichromatic vision
dichromic acid
dicing board
dick test
dickey box
dicky bow
dictate peace
dictates of Mrs
dictates of society
dictating machine
dictatorship of the proletariat
dictionary catalog
dictionary catalogue
dictionary editor
dictionary meaning
dictionary of quotations
dictionary-proof
dicty-
dicyclopentadienyl metal
did you ever
didactic poetry
diddle away
diddle-
diddle-daddle
diddle-dee
die a natural death
die a violent death
die at your post
die away
die away from the memory
die by your own hand
die cast
die caster
die casting
die chaser
die chuck
die cutter
die cutting
die down
die engraver
die fighting
die filing
die fitter
die fitting
die for your country
die forger
die forging
die game
die grinder
die hammer
die hard
die hardener
die head
die hob
die holder
die in harness
die in the Lord
die in the attempt
die in the last ditch
die in your boots
die is cast, the
die kicker
die laughing
die like a man
die miller
die mold
die off
die on the vine
die out
die planer
die plate
die polisher
die polishing
die press
die presser
die proof
die reamer
die screw plate
die set
die shaper
die sharpening
die shoe
die spotter
die spotting
die spring
die stamper
die standing up
die steel
die stock
die stripper
die stripping
die tap
die temper
die trying
die turner
die wedge
die with delight
die with pleasure
die with your boots on
die-away
die-back
die-cast
die-casting
die-cut
die-hard
die-hardism
die-square
dielectric constant
dielectric current
dielectric displacement current
dielectric heat
dielectric heater
dielectric heating
dielectric loss
dielectric preheater
dielectric strength
dies funestis
dies irae
dies non
dies non juridicus
diesel cycle
diesel engine
diesel fuel
diesel oil
diesel propulsion
diesel-driven
diesel-electric
diesel-electric propulsion
diesel-engined
diesel-hydraulic
diesel-powered
diesel-propelled
desinking machine
diet book
diet kitchen
dietary deficiency
dietary law
dietetic treatment
diethene-
diethyl ether
diethyl malonate
diethyl oxide
diethyl sulfide
diethylbarbituric acid
diethylene dioxide
dif-
differ from
differ in opinion
difference chart
difference engine
difference equation
difference gauge
difference limen
difference of form
difference of opinion
difference product
difference quotient
difference ring
difference table
difference threshold
difference tone
different breed of cat
different story
different thing
differential analyzer
differential anesthetic
differential calculus
differential coefficient
differential diagnosis
differential equation
differential gap
differential gear
differential gearing
differential geometry
differential ionization chamber
differential leveling
differential operator
differential pressure gauge
differential psychology
differential purchase
differential quotient
differential rate
differential recorder
differential tackle
differential tone
differential weathering
differential windlass
difficult thing
difficulty score
diffracted wave
diffraction disk
diffraction grating
diffraction spectroscope
diffraction spectrum
diffuse inflammation
diffuse light
diffuse nebula
diffuse reflection
diffuse-porous
diffused junction
diffused lighting
diffusing screen
diffusion air pump
diffusion battery
diffusion chamber
diffusion coefficient
diffusion juice
diffusion process
diffusionist theory
dig around for
dig at
dig for
dig in
dig in your heels
dig into
dig out
dig up
dig up the past
dig you in the ribs
dig your heels in
dig your own grave
digest medium
digest of law
digested securities
digester tankage
digestive biscuit
digestive gland
digestive juice
digestive secretion
digestive secretions
digestive system
digger wasp
digging weight
digital clock
digital computer
digital data reducing system
digital differential analyzer
digital examination
digital feedback control
digital general purpose computer
digital graph plotter
digital process
digital watch
digitato-palmate
digitato-pinnate
digi-
digito-
diglycolic acid
diglycollic acid
dihedral angle
dihydrad alcohol
diisobutyl phthalate
dik-dik
dika bread
dika butter
dika nut
dike hopper
dike out
dike rock
dike up
dike-grave
dike-louper
dike-reeve
dilate on
dilate upon
dill oil
dill pickle
dill water
dilly bag
dilly-dally
dilute acid
dim eyes
dim light
dim out
dim past
dim recollection
dim view
dim-brooding
dim-browed
dim-colored
dim-discovered
dim-eyed
dim-felt
dim-gleaming
dim-gray
dim-lettered
dim-lighted
dim-lit
dim-litten
dim-out
dim-remembered
dim-seen
dim-sensed
dim-sheeted
dim-sighted
dim-sightedness
dim-visioned
dim-witted
dim-wittedness
dim-yellow
dime a dozen
dime museum
dime novel
dime store
dime-a-dozen
dime-store
dimension control
dimension lumber
dimension stone
dimethyl arsinic acid
dimethyl sulfate
dimethyl sulfoxide
diminish yourself
diminished dovetail
diminished responsibility
diminished seventh chord
diminished stile
diminishing returns
diminishing rule
diminishing stile
dimissorial letter
dimissory letter
din in the ear
dine not wisely but too well
dine out
dine with Duke Humphrey
diner-out
dinette set
dinette table
ding an sich
ding off
ding-a-ling
ding-dong
dingdong theory
dinge an sich
dinghy anchor
dingle-dangle
dining car
dining chair
dining compartment
dining hall
dining room
dining saloon
dining table
dining utensils
dinitro-
dinitrogen tetroxide
dinkel wheat
dinking die
dinkum oil
dinky-di
dinner audience
dinner bell
dinner call
dinner card
dinner chimes
dinner clothes
dinner club
dinner coat
dinner dance
dinner dress
dinner fork
dinner gong
dinner gown
dinner hour
dinner jacket
dinner knife
dinner napkin
dinner pail
dinner party
dinner plate
dinner ring
dinner room
dinner service
dinner set
dinner table
dinner wagon
dinner-dance
dinner-getting
diocesan conference
diocesan court
diophantine equation
diorite-porphyrite
dip a flag
dip circle
dip down
dip fault
dip into
dip needle
dip out
dip pipe
dip rider
dip rope
dip sector
dip shift
dip slip
dip snuff
dip switch
dip the beak
dip the colors
dip the ensign
dip the pen in gall
dip trap
dip your hands into
dip-dye
dip-grained
dip-needling
diphen-
diphenyl black
diphenyl ether
diphenyl ketone
diphenylene-methane
diphenylhydantoin sodium
diphosphoglycercic acid
diphtheria bacillus
diphtheria toxoid
diphy-
diphyo-
dipl-
diplo-
diploid number
diploma mill
diploma piece
diplomatic agent
diplomatic body
diplomatic code
diplomatic corps
diplomatic courier
diplomatic immunity
diplomatic mission
diplomatic pouch
diplomatic service
diplomatic staff
diplomatic text
dipodic rhythm
dipole aerial
dipole antenna
dipole moment
dipper clam
dipper dredge
dipper gourd
dipper interrupter
dipper-in
dipping acid
dipping basket
dipping bath
dipping battery
dipping chair
dipping compass
dipping elevator
dipping enamel
dipping frame
dipping furnace
dipping hook
dipping house
dipping ladle
dipping lug
dipping lugsail
dipping needle
dipping oil
dipping paint
dipping pan
dipping paper
dipping process
dipping rack
dipping rod
dipping room
dipping table
dipping tank
dipping the colors
dipping the ensign
dipping tub
dipping tube
dipping works
dipping-needle
dipsey lead
dipsey line
dipsy-doodle
dire necessity
dire wolf
direct access
direct action
direct actionist
direct apprehension
direct attention to
direct black
direct blue
direct broadcast
direct brown
direct communication
direct costs
direct cotton dye
direct current
direct current motor
direct democracy
direct discourse
direct distance dialing
direct dye
direct evidence
direct examination
direct fire
direct grant school
direct infection
direct initiative
direct intuition
direct labor
direct lighting
direct line
direct mail
direct method
direct nomination
direct object
direct order
direct positive
direct primary
direct product
direct proportion
direct question
direct ratio
direct relationship
direct signal
direct speech
direct sum
direct tax
direct the eyes
direct the mind upon
direct tide
direct to
direct to the attention
direct transfusion
direct variation
direct yellow
direct your attention to
direct your course
direct your course for
direct your course to
direct yourself
direct-acting
direct-acting engine
direct-acting press
direct-actionist
direct-connected
direct-coupled
direct-current
direct-current circuit
direct-current converter
direct-current servo
direct-driven
direct-examine
direct-examined
direct-examining
direct-driven
direct-examine
direct-examined
direct-examining
direct-geared
direct-geared
direct-geared

direct-mail
direct-mail advertising
direct-mail selling
direct-reading computer
direct-reading spectrometer
direct-reading spectroscope
direct-viewing tube
direct-vision prism
direct-vision spectroscope
direct-writing company
directed verdict
directing circle
directing piece
directing plane
directing point
direction angle
direction constant
direction cosine
direction dial
direction finder
direction finding
direction indicator
direction line
direction number
direction post
direction ratio
direction switch
direction tensor
direction test
direction theodolite
direction transmission
direction-finder station
directional antenna
directional derivative
directional gyro
dirty hands
dirty joke
dirty language
dirty liar
dirty lie
dirty look
dirty movie
dirty name
dirty old man
dirty politician
dirty politics
dirty pool
dirty sea
dirty shame
dirty sky
dirty story
dirty talk
dirty trick
dirty up
dirty water
dirty weather
dirty wind
dirty word
dirty work
dirty-colored
dirty-faced
dirty-handed
dirty-minded
dirty-shirted
dirty-souled
dis aliter visum
dis-
dis-byronize
dis-element
dis-turk
disability clause
disability insurance
disablement benefit
disaccord with
disaccustom yourself
disadvantaged, the
disagree with
disappearing act
disappoint your expectations
disapprove of
disapproved place
disaster area
disastrous defeat
disazo dye
disburden you of
disburden your conscience
disburden your heart
disburden your mind
disc brake
disc flower
disc harrow
disc jockey
disc wheel
disc-
discard

discernment of excellence
discharge lamp
discharge potential
discharge printing
discharge the duties of
discharge the functions of
discharge the office of
discharge tube
discharge valve
discharge your duty
discharge your function
discharger cup
discharging arch
discharging cargo
discharging freight
discharging pallet
disciples of Christ
disciplinary action
disciplinary measures
discipline yourself
disco-
disconnecting switch
discontinuance wage
discontinuity layer
discord with
discount bond
discount broker
discount company
discount house
discount market
discount notes
discount rate
discount store
discount ticket
discount yourself
discourse about
discourse of reason
discourse upon
discourse with
discover itself
discover serendipitously
discover yourself
discovered check
discovery procedure
discrete atom
discrete four-channel system
discretionary account
discretionary income
discriminant function
discriminate against
discriminating relay
discriminating taste
discrimination learning
discrimination time
discursive reason
discursive reasoning
discus thrower
discuss with
discussion group
disdain grammar
disease germ
disease symptom
disease-causing
disease-causing agent
disease-producing
disease-producing microorganism
disease-resisting
disease-spreading
diseased mind
diseases of
disembodied spirit
disen-
disengagement governor
disgrace yourself
disguise yourself
disguised as a virtue
disgustingly rich
dish bearer
dish cleaner
dish cover
dish designer
dish drainer
dish feed
dish fit for a king
dish gravy
dish it out
dish maker
dish mop
dish mustard
dish night
dish out
dish plate
dish rack
dish reflector
dish the dirt
dish top
dish towel
dish truck
dish up
dish wagon
dish warmer
dish-crowned
dish-faced
dish-headed
dish-shaped
dishcloth gourd
dished keel
dishonest person
dishonorable discharge
dishonored bill
dishpan hands
disinclination to believe
disinclination to communicate
disincline from
disinclined to believe
disinclined to communicate
disinfecting candle
disintegration series
disjecta membra
disjoin yourself
disjunctive conjunction
disk armature
disk barrow
disk bit
disk brake
disk brakes
disk clutch
disk crank
disk cultivator
disk drill
disk dynamo
disk engine
disk floret
disk flower
disk furrower
disk go-devil
disk harrow
disk hiller
disk jockey
disk memory
disk meter
disk pack
disk photometer
disk pile
disk plow
disk ridge buster
disk sander
disk signal
disk stove
disk system
disk telegraph
disk valve
disk weeder
disk wheel
disk winding
disk-bearing
disk-seal tube
disk-shaped
dismiss all doubt
dismiss from the mind
dismiss from the thoughts
dismiss from your thoughts
dismiss with a laugh
dissmissal wage
dismissed out of hand
disobey the law
disodium phosphate
disordered mind
disordered personality
disordered reason
disorderly conduct
disorderly house
disorderly person
disparaging remark
dispatch boat
dispatch box
dispatch case
dispatch money
dispatch note
dispatch rider
dispatch tube
dispatch writer
dispatch writing
dispatch-bearer
dispatch-bearing
dispatch-rider
dispel your illusions
dispensations of providence
dispense from
dispense with
dispensed with
dispersal prison
disperse system
dispersion hardening
dispersion medium
dispersive power
displaced person
displaced population
displacement activity
displacement current
displacement hull
displacement pump
displacement ton
displacement tonnage
display ad
display advertising
display art
display bracket
display card
display case
display cover
display figure
display form
display pipe
display room
display sign
display station
display type
display window
display work
disposable income
disposable resources
disposal of the dead
dispose of
disposable of
disposed to
disposed to doubt
disposition to believe
dispossessed of
disputed election
disregard the law
disreputable person
disruptive discharge
dissecting microscope
dissecting table
dissector tube
dissel-boom
disseminated sclerosis
disseminated tuberculosis
dissent from
dissenting opinion
dissipate your illusions
dissipation trail
dissociate yourself from
dissociation coefficient
dissociation constant
dissociation of personality
dissociation reaction
dissolution of marriage
dissolve in tears
dissolve into chaos
dissolve marriage
dissolve out
dissolved in tears
dissolving agent
dissolving view
dissonant chord
dissonant sounds
distaff kin
distaff side
distaff thistle
distal convoluted tubule
distance across
distance between
distance circle
distance crossways
distance crosswise
distance flag
distance language
distance made good
distance medley
distance of time
distance post
distance receptor
distance ring
distance scale
distance through
distant early warning
distant early warning line
distant future
distant past
distant perspective
distant prospect
distant relation
distantly and broadly
distantly related
distended belly
distilled essence
distilled water
distilling flask
distilling tube
distinction without a difference
distinctive feature
distinguish between
distinguished flying cross
disto-occlusion
distorted conception
distorted image
distorting mirror
distract attention from
distract the attention
distress call
distress flag
distress frequency
distress gun
distress merchandise
distress sale
distress signal
distressed area
distributed costs
distributed term
distribution board
distribution curve
distribution difference
distribution function
distribution ratio
distributive education
distributor bar
district attorney
district council
district court
district judge
district leader
district man
district nurse
district parish
district school
district superintendent
districts of
distrust yourself
disturbed mind
disturbed personality
disulpho-
disulphuric acid
dit-da artist
dita bark
ditat Deus
ditch crowfoot
ditch fern
ditch grass
ditch hand
ditch machine
ditch millet
ditch moss
ditch reed
ditch rider
ditch spade
ditch stonecrop
ditch sunflower
ditch-delivered
ditch-drawn
ditch-moss
ditching car
ditching machine
ditching scoop
dithering grass
dithionic acid
dithionous acid
ditto machine
ditto mark
ditto marks
ditty bag
ditty box
ditty-bag
diurnal arc
diurnal circle
diurnal epilepsy
diurnal parallax
diva blue
divaricate from
dive bomber
dive bombing
dive brake
dive in
dive into
dive-bomb
dive-bombing
dive-dap
dive-dapper
diver's palsy
diverge from
divergence theorem
divergent squint
divergent strabismus
divergent thinking
diverging lens
divers-colored
diverse control
diverse-colored
diverse-natured
diverse-shaped
diversi-
diversified corporation
diversified economy
diversion chamber
diversion cut
diversionary attack
diversionary movement
diversity factor
diversity of colors
divert attention
divert the mind
divert the thoughts
divest of freedom
divest of office
divi-divi
divide by four
divide et impera
divide in thirds
divide in three
divide into four
divide into shares
divide on
divide up
divide with
divided attention
divided highway
divided spectacles
dividend off
dividend on
dividend warrant
dividing engine
dividing head
dividing line
dividing plate
dividing ridge
dividing sinker
dividing wall
divine afflatus
divine attribute
divine breath
divine discontent
divine function
divine healer
divine healing
divine inspiration
divine liturgy
divine office
divine revelation
divine right
divine right of kings
divine service
divine spark
divine tobacco
divine-human
diving beetle
diving bell
diving bird
diving bladder
diving board
diving boat
diving chamber
diving dress
diving duck
diving engine
diving equipment
diving float
diving goggles
diving helmet
diving hood
diving machine
diving mask
diving platform
diving raft
diving rudder
diving suit
diving togs
diving rod
divining stick
divinity calf
divinity circuit
divinity circuit binding
divinity fudge
divinity school
divinity student
divinyl ether
division algebra
division algorithm
division center
division engineer
division in the camp
division line
division lobby
division mark
division of labor
division ring
division sign
division superintendent
divorce court
divorce mill
divorced man
divorced person
divorced woman
divvy up
divvy up with
divvying up
dixieland band
dizzy heights
dizzy round
dj-
djati tree
do a bit
do a bunk
do a comparative study
do a deal
do a disservice
do a fade-out
do a favor
do a flip-flop
do a good deed
do a good turn
do a grave injustice
do a great wrong
do a gross injustice
do a hand's turn
do a hitch
do a kind deed
do a kindness
do a land-office business
do a lick of work
do a mischief
do a number on
do a repeat
do a right-about-face
do a service
do a slow burn
do a stint
do a strip-tease
do a tour
do a tour of duty
do a turn to the right-about
do a vanishing act
do a world of good
do active duty
do again
do all in your power
do all right by yourself
do all the talking
do all you can
do amiss
do an about-face
do an about-turn
do an ill office to
do an impression of
do anyhow
do as much as in one lies
do as others do
do as well as you can
do as you please
do as you say
do as you would be done by
do at the bidding of
do at your convenience
do at your leisure
do at your own peril
do at your own risk
do at your pleasure
do away with
do away with yourself
do battle
do business
do business with
do by
do by halves
do carelessly
do chars
do credit to
do credit to someone
do double duty
do down
do down to the ground
do duty
do easily
do everything you can
do evil
do for
do for yourself
do good
do harm
do homage
do homage to
do honor
do honor to
do ill
do in
do in a pinch
do in a slipshod fashion
do in any old way
do in your own sweet way
do independently
do it
do it according to Hoyle
do it by the book
do it or break a leg
do it or bust a gut
do it up brown
do justice
do justice to
do like
do no evil
do no harm
do not give it a second thought
do not give it another thought
do nothing
do nothing in excess
do obeisance
do of your own accord
do of your own free choice
do of your own free will
do of your own volition
do offhand
do on an average
do on your own
do on your own hook
do on your own initiative
do on your own say-so
do or die
do out
do out of
do over
do over again
do penance
do proud
do right
do right by
do service
do service for
do service to
do some heavy thinking
do someone credit
do someone dirt
do something
do something about
do suit and service
do superfluously
do svidanye
do tell
do the best you can
do the best you know how
do the chores
do the crazy act
do the crazy bit
do the crazy shtick
do the deadman's float
do the dirty work of
do the disappearing act
do the fair thing
do the goose step
do the handsome thing
do the heart good
do the honors
do the job
do the lock step
do the needful
do the proper thing
do the right thing
do the right thing by
do the spadework
do the trick
do the unexpected
do the will of
do time
do to
do to a T
do to a frazzle
do to a turn
do to death
do to perfection
do too many things at once
do up
do up brown
do violence to
do voluntarily
do well
do what is expected
do what is right
do what lies in your power
do what you are told
do what you can
do what you choose
do what you have to do
do what you like
do what you set out to do
do what you wish
do with
do with both eyes shut
do without
do wonders
do wrong
do wrong by
do wrong to
do you a wrong
do you an injustice
do you proud
do your best
do your bidding
do your bit
do your damndest
do your darndest
do your duty
do your heart good
do your level best
do your number
do your office
do your part
do your share
do your stuff
do your thing
do your utmost
do your worst to
do yourself proud
do-all
do-dad
do-funny
do-good
do-gooder
do-goodism
do-it-yourself
do-it-yourselfer
do-little
do-naught
do-nothing
do-nothing adj
do-nothing policy
do-nothingism
do-nothingness
do-nought
do-or-die
do-over
do-re-mi
do-si-do
do-up
dob in
dobber-in
dobbin cart
dobby loom
dobby weave
dobell's solution
doberman pinscher
dobson fly
do-ch-an-dorrach
do-ch-an-dorris
do-ch-an-dorroch
dock boss
dock bur
dock charge
dock cooper
dock crane
dock cress
dock crew
dock derrick
dock dues
dock foreman
dock gate
dock hand
dock hoist
dock inspector
dock laborer
dock light
dock nettle
dock port
dock porter
dock receipt
dock rent
dock screw
dock shunter
dock sill
dock sorrel
dock space
dock spike
dock superintendent
dock trade
dock warehouse
dock warrant
dock-leaved
dock-tailed
dock-wallopper
dock-walloping
docking bridge
docking cradle
docking keel
docking maneuver
docking pilot
docking plan
docking telegraph
doctor accounts
doctor blade
doctor file
doctor fish
doctor up
doctor's degree
doctor's gown
doctor's oral
doctoral candidate
doctrinal statement
doctrinal theology
doctrine of descent
doctrine of inference
doctrine of terms
doctrine of the judgment
document bill
documentary drama
documentary evidence
documentary film
dodder family
dodder grass
doddy mitten
dodeca-
dodecanoic acid
dodecuple scale
dodecyl aldehyde
dodge ball
dodge chain
dodging tool
dodo split
doegling oil
doeskin brown
doff your cap to
doffing comb
doffing cylinder
doffing knife
dog Latin
dog ape
dog bee
dog belt
dog bent
dog biscuit
dog blanket
dog box
dog bramble
dog breeder
dog bur
dog button
dog cabbage
dog cake
dog camomile
dog carrier
dog chain
dog chart
dog cherry
dog clipper
dog clutch
dog collar
dog cracker
dog crate
dog curtain
dog daisy
dog dandelion
dog days
dog disease
dog dollar
dog elder
dog family
dog fancier
dog fennel
dog flea
dog flesh
dog flower
dog food
dog fox
dog grass
dog grate
dog harness
dog hip
dog hobble
dog hood
dog hook
dog hospital
dog hysteria
dog in the manger
dog iron
dog it
dog kennel
dog laurel
dog leech
dog letter
dog license
dog lichen
dog life
dog lily
dog louse
dog lover
dog meat
dog mercury
dog mint
dog muzzle
dog nail
dog nap
dog nettle
dog owl
dog owner
dog paddle
dog parsley
dog plum
dog poison
dog pound
dog race
dog racing
dog reed
dog robber
dog-in-the-manger
dog-keeping
dog-lame
dog-latin
dog-lean
dog-leaved
dog-leech
dog-leg
dog-leg fence
dog-leg hole
dog-leg stair
dog-legged
dog-legged stair
dog-mad
dog-nail
dog-owning
dog-paddle
dog-paddled
dog-paddling
dog-plum
dog-poor
dog-rose
dog-shore
dog-sick
dog-skin
dog-sleep
dog-star
dog-stone
dog-stopper
dog-tired
dog-toes
dog-tongue wampee
dog-tooth
dog-toothed
dog-tree
dog-trick
dog-trot
dog-vane
dog-violet
dog-watch
dog-weary
dog-whelk
dogbane family
dogberry tree
dogged perseverance
dogleg fence
dogmatic theology
dogtooth check
dogtooth spar
dogtooth star grass
dogtooth violet
dogtown grass
dogwood family
dogwood poisonbush
doing business
doing nicely
dolce far niente
dolce vita
dole cupboard
dole meadow
dole out
dolich-
doling out
doll baby
doll carriage
doll hospital
doll maker
doll out
doll up
doll's house
doll-faced
doll-like
dollar acceptance
dollar averaging
dollar bill
dollar bond
dollar chaser
dollar cost averaging
dollar crisis
dollar debenture
dollar deficit
dollar diplomacy
dollar exchange
dollar gap
dollar imperialism
dollar loan
dollar mark
dollar shortage
dollar-a-year man
dollars to doughnuts
dolled up
dolly bar
dolly bird
dolly drop
dolly mixture
dolly shop
dolly shot
dolly varden
dolly-head
dolly-mop
dolman jacket
dolman sleeve
dolomite marble
dolorous tirade
dolphin fly
dolphin oil
dolphin striker
dolphin-flower
dolphin-striker boom
dom pedro
domain of integrity
dome car
dome tomb
dome top
dome whistle
dome-shaped
domes-booke
domesday book
domestic animal
domestic animals
domestic cat
domestic cattle
domestic comedy
domestic drudge
domestic economy
domestic fowl
domestic management
domestic prelate
domestic relations law
domestic science
domestic servant
domestic shorthair cat
domestic tragedy
domestic wine
domestic-relations court
domiciliary visit
dominant character
dominant chord
dominant estate
dominant note
dominant seventh chord
dominant tenement
dominant wavelength
dominate the field
domine dirige nos
domeen over
dominical altar
dominical letter
dominion day
dominion rule
domino effect
domino mask
domino paper
domino theory
domino whist
domitae naturae
don juan
don quixote
don't I know it
don't hold your breath
don't kid yourself
don't know
don't lose any sleep over it
don't make waves
don't rock the boat
don't spare the horses
donate to
donation land
donation party
done for
done in
done to a turn
done to perfection
done up
done with
donjon keep
donkey boiler
donkey boy
donkey crosshead
donkey derby
donkey doctor
donkey ears
donkey engine
donkey hoist
donkey jacket
donkey pump
donkey puncher
donkey sled
donkey tender
donkey topsail
donkey vote
donkey's ears
donkey's years
donkey's years ago
donkey-drawn
donkey-eared
donkey-work
donnybrook fair
doob grass
doom palm
doom ring
doom to
doom to perdition
doom tree
doomed hope
doomed hopes
doone-head-clock
do bed
door chain
door check
door closer
door fastener
doors finisher
doors fitter
doors furniture
doors grass
doors handle
doors hanger
doors hasp
doors hinge
doors jack
doors key
doors knocker
doors latch
doors lock
doors maker
doors mat
doors matting
doors money
doors opener
doors prize
doors scraper
doors spring
doors stile
doors strap
doors switch
doors to door
doors track
doors trap
doors trapper
door-roller
door-shaped
door-to-door
door-to-door salesman
dooryard grass
dooryard plantain
dop doctor
dopa reaction
dope fiend
dope off
dope out
dope pusher
dope sheet
dope smuggling
dope story
dope up
dope, the
doppler effect
dor bee
dor bug
dor fly
dor-fly
dorcas gazelle
dore bullion
dore furnace
dormant partner
dormer beam
dormer window
dormer-windowed
dormitory suburb
dormouse phalanger
dorothy perkins
dors-
dors-umbonal
dorsal airdome
dorsal blister
dorsal fin
dorsal lip
dorsal region
dorsal root
dorsal-root ganglion
dorset horn
dorsi-
dorsi-ventral
dorso-
dorso-occipital
dorso-ulnar
dorsum ephippii
dory skiff
dos and don'ts
dos gris
dos nominata
dos rationabilis
dos-
dos-a-dos
dosage compensation
dosage meter
dose of clap
dose of claps
dose of strap oil
dose with
dosimetric medicine
dosing apparatus
dosing siphon
dosing tank
doss down
doss house
dot down
dot figure
dot map
dot product
dot the i's and cross the t's
dot your i's and cross your t's
dot-dash line
dot-sequential
dot-sequential color television
dote on
dote upon
dotted line
dotted swiss
dotterel dun
dottle pin
douay version
double Blackwall hitch
double Dutch
double Gloucester
double Spanish burton
double a point
double achievement
double acrostic
double action engine
double agent
double algebra
double altar
double back
double bar
double bass
double bassoon
double batten
double bed
double bill
double bind
double block
double blossom
double boiler
double bond
double bridle
double bunk
double centering
double check
double chin
double cloth
double coconut
double concerto
double contingency
double contraoctave
double corposant
double counterpoint
double cream
double crochet
double cross
double crown
double cup
double dagger
double dare
double date
double decomposition
double demy
double diode
double dome
double dot
double double cap
double dresser
double drift
double dummy
double eagle
double elephant
double end
double ender
double entendre
double entendres
double entente
double entry
double exposure
double fault
double feature
double first
double flat
double flower
double foolscap
double for
double fueler
double fugue
double genitive
double glazing
double half-round file
double harness
double helix
double hitch
double hyphen
double image
double in brass
double indemnity
double integral
double jeopardy
double jump
double luff tackle
double magnum
double march
double meaning
double monastery
double mordent
double negative
double obelisk
double or mutual change
double or nothing
double or quits
double orange daisy
double over
double paddle
double pair royal
double pedal point
double personality
double piece
double play
double pneumonia
double possessive
double post
double precision
double predestination
double prime
double print
double purchase
double quatrefoil
double quotes
double reed
double reference
double refraction
double rhyme
double royal
double salt
double sap
double saucepan
double sawbuck
double scull
double sculls
double sharp
double shuffle
double sideband
double sight
double solitaire
double space
double spinnaker
double spread
double sprit
double standard
double star
double steal
double stem
double stitch
double stop
double summer time
double tackle
double take
double talk
double tape
double ten
double tide
double time
double triode
double truck
double up
double vision
double whip
double whole note
double wicket
double wing
double wingback formation
double your fist at
double-O
double-Os
double-acting
double-acting engine
double-action
double-action harrow
double-armed
double-armed bolt
double-aspect theory
double-bank
double-banked
double-banker
double-barred
double-barrel
double-barreled
double-barrelled
double-bass
double-battalioned
double-beat valve
double-bedded
double-bell euphonium
double-benched
double-biting
double-bitt
double-bitted
double-bladed
double-blind
double-blossomed
double-bodied
double-bond isomerism
double-bottom
double-bottomed
double-branch
double-branched
double-break switch
double-breasted
double-breasted jacket
double-breasted suit
double-brooded
double-bubble
double-button carbon microphone
double-buttoned
double-chain sling
double-charge
double-check
double-chinned
double-clasping
double-claw
double-clutch
double-coated film
double-concave
double-convex
double-creme
double-crested
double-crested cormorant
double-crop
double-cropped
double-cropping
double-cross
double-crosser
double-crossing
double-cup insulator
double-cupped
double-current generator
double-current signaling
double-cut
double-cut file
double-cut saw
double-cylinder planer
double-dare
double-date
double-dated
double-dating
double-dealer
double-dealing
double-deck
double-decked
double-decker
double-decker sandwich
double-declutch
double-disk
double-disk harrow
double-distilled
double-ditched
double-dodge
double-dog dare
double-dome
double-doored
double-dot display
double-dotted
double-duty
double-dye
double-dyed
double-edged
double-end saw file
double-ended
double-ended bolt
double-ender
double-ender file
double-engined
double-entry accounting
double-entry bookkeeping
double-entry system
double-entry table
double-eyed
double-face
double-faced
double-facedly
double-facedness
double-fault
double-feature
double-flowered
double-flowering
double-fold
double-footed
double-framed
double-fronted
double-ganger
double-gilt
double-handed
double-harness
double-hatched
double-head
double-headed
double-header
double-heartedly
double-helical
double-helical gear
double-horned
double-hung
double-image micrometer
double-image prism
double-image telescope
double-ironed
double-jointed
double-keeled
double-knit
double-language theory
double-leded
double-liability stock
double-line
double-lived
double-livedness
double-loaded
double-loathed
double-lock
double-lunged
double-magnum
double-manned
double-measure door
double-milled
double-minded
double-mindedly
double-mindedness
double-mouthed
double-name paper
double-natured
double-opposed
double-or-nothing
double-page spread
double-park
double-parted and fretty
double-pedal
double-piled
double-pipe condenser
double-pointed
double-pole switch
double-pored
double-ported
double-printing
double-prop
double-queue
double-quick
double-quick time
double-quirked
double-reed
double-reed family
double-reed instrument
double-reef
double-reefed
double-refined
double-refracting
double-ripper
double-rivet
double-riveted
double-roller escapement
double-rooted
double-row radial engine
double-runner
double-scull
double-seated valve
double-seater
double-seeing
double-sensed
double-shear steel
double-shed insulator
double-shot
double-sided
double-sidedness
double-sighted
double-slide
double-soled
double-space
double-spaced
double-spacing
double-spun
double-starred
double-stemmed
double-stitch
double-stitched
double-stop
double-stopped
double-stopping
double-strength
double-struck
double-sunk
double-sunk dial
double-surfaced
double-swing door
double-swing joint
double-sworded
double-system sound recording
double-tailed
double-talk
double-team
double-think
double-thong
double-thread
double-threaded
double-throw switch
double-time
double-timed
double-timing
double-tongue
double-tongued
double-tonguing
double-tooth
double-track
double-trenched
double-trouble
double-truck heading
double-twisted
double-u
double-visaged
double-voiced
double-windowed
double-winged
double-work
double-worked
doubleness of heart
doubles ententes
doublet pattern
doubt not
doubt the truth of
doubt your word
doubt yourself
doubt-beset
doubt-cherishing
doubt-dispelling
doubt-excluding
doubt-harboring
doubt-ridden
doubt-sprung
doubt-troubled
doubting Thomas
doubting mania
doubting thomas
douceur de vivre
douche bag
dough bird
dough brake
dough kneader
dough mixer
dough stage
dough-baked
dough-bird
dough-boy
dough-colored
dough-dividing
dough-face
dough-faced
dough-kneading
dough-mixing
dough-trough
doughnut tire
douglas fir
doum palm
dousing chock
dousing-chock
dove blue
dove color
dove dock
dove gray
dove hawk
dove of peace
dove plant
dove pox
dove tick
dove-colored
dove-eyed
dove-gray
dove-shaped
dover grass
dover's powder
dovetail cramp
dovetail halving
dovetail hinge
dovetail joint
dovetail molding
dovetail plane
dovetail saw
dovetail slide
dovetail-shaped
dowdy frumpish
dowel bit
dowel jig
dowel maker
dowel pin
dowel plate
dowel pointer
dowel rod
dowel screw
dowel sharpener
dowel spoke
dowel stick
dower chest
dower house
down East
down along
down and out
down at heel
down at heels
down at the heel
down at the heels
down bed
down below
down by the head
down card
down cushion
down feather
down grade
down helm
down home
down in the mouth
down in the world
down left
down on
down on your luck
down on your uppers
down pat
down payment
down picker
down pillow
down pipe
down plucker
down plumage
down right
down runner
down south
down the alley
down the drain
down the hatch
down the pipe
down the rathole
down the spout
down the wind
down thistle
down time
down to bedrock
down to the ground
down to your last cent
down to your last penny
down tree
down trip
down under
down weight
down wool
down your arms
down-and-out
down-and-outer
down-at-heel
down-at-heels
down-at-the-heel
down-at-the-heels
down-beater
down-bow
down-charge
down-coast
down-covered
down-crier
down-curving
down-drag
down-draught
down-easter
down-gyved
down-hip
down-house
down-in-the-mouth
down-lead
down-lying
down-market
down-payment
down-reaching
down-river
down-soft
down-talk
down-the-line
down-to-date
down-to-earth
down-to-earthness
down-trending
down-valley
down-wash
down-at-the-heel
downdraft kiln
downfeed system
downing of arms
downside-up
downward mobility
downward motion
downward trend
downwash angle
downwind leg
downy mildew
downy oat grass
downy sleep
downy woodpecker
downy-cheeked
downy-clad
downy-feathered
downy-fruited
downy-winged
dowse for water
drag before the public
drag boat
drag box
drag bucket
drag bunt
drag cart
drag chain
drag classifier
drag component
drag conveyer
drag crank
drag direction
drag down
drag fold
drag force
drag from
drag harrow
drag hook
drag horse
drag hunt
drag in
drag in by the heels
drag in the mud
drag into
drag into court
drag into the limelight
drag iron
drag its slow length along
drag link
drag mill
drag on
drag out
drag out of
drag over the coals
drag parachute
drag race
drag racer
drag racing
drag rake
drag ratio
drag sail
drag scraper
drag seine
drag sheet
drag spring
drag step
drag strip
drag strut
drag through the mud
drag tooth
drag twist
drag up
drag washer
drag wire
drag your feet
drag-chain
drag-down
drag-hook
drag-out
drag-staff
drag-stone mill
dragged into
dragged out
dragged-out
dragger-down
dragger-out
dragger-up
dragging beam
dragging down
dragging of the feet
dragging pace
dragging piece
dragging-out
draggle-haired
draggle-tail
draggle-tailed
dragline crane
dragline dredge
dragline excavator
dragnet clause
dragon arum
dragon balloon
dragon beam
dragon claw
dragon fish
dragon gum
dragon lizard
dragon piece
dragon plant
dragon tie
dragon tree
dragon turnip
dragon withe
dragon's blood
dragon's head
dragon's tail
dragon's-tongue
dragon-eyed
dragon-faced
dragon-fly
dragon-mouthed
dragon-ridden
dragon-root
dragon-tree
dragon-winged
dragon bird
drain arm
drain away
drain cleaner
drain cock
drain cup
drain digger
drain exhaueter
drain faucet
drain grate
drain inlet
drain layer
drain of color
drain of resources
drain off
drain out
drain pit
drain pump
drain repairer
drain rocket
drain spade
drain tester
drain the cup
drain trap
drain tube
drain valve
drain well
drainage area
drainage basin
drainage benefit
drainage canal
drainage coefficient
drainage cycle
drainage district
drainage gate
drainage inlet
drainage inspector
drainage level
drainage pipe
drainage pit
drainage pump
drainage shaft
drainage system
drainage theory
drainage tile
drainage trap
drainage tube
drainage tunnel
drainage well
drainage wind
drained of color
draining board
draining tile
drake fly
drake foot
drake green
dram apothecaries'
dram avoirdupois
dram filler
dram glass
drama critic
drama league
drama production
drama-writing
dramatic art
dramatic form
dramatic irony
dramatic lyric
dramatic monologue
dramatic overture
dramatic play
dramatic poetry
dramatic series
dramatic soprano
dramatic stroke
dramatic structure
dramatico-musical
dramatis personae
drap d'or
drap-de-berry
drape yourself
drapers teasel
draught off
draught-bridge
dravidian languages
draw a bead on
draw a blank
draw a comparison
draw a conclusion
draw a deep breath
draw a gun on
draw a long breath
draw a parallel
draw a picture
draw a straight furrow
draw ahead
draw an inference
draw and quarter
draw aside
draw away
draw back
draw blank
draw boundaries
draw breath
draw chain
draw cock
draw curtain
draw distinctions
draw dock
draw down
draw first blood
draw forth
draw from
draw game
draw gear
draw hole
draw in
draw in your claws
draw in your horns
draw into
draw it fine
draw lots
draw man
draw near
draw nigh
draw off
draw off the attention
draw on
draw on futurity
draw on the future
draw out
draw over
draw pin
draw play
draw poker
draw press
draw profit
draw rein
draw runner
draw shot
draw slate
draw slip
draw step
draw straws
draw string
draw tab
draw table
draw taper
draw taut
draw taut
draw tears
draw the attention
draw the breath of life
draw the color line
draw the curtain on
draw the curtains
draw the fangs
draw the fangs of
draw the line
draw the line at
draw the longbow
draw the purse strings
draw the sword against
draw the teeth
draw the teeth of
draw the veil
draw to a close
draw to a head
draw to a peak
draw together
draw top
draw towards
draw up
draw up a plan
draw up a will
draw wages
draw yourself up
draw-
draw-arch
draw-bar
draw-boy
draw-bridge
draw-cut
draw-file
draw-glove
draw-knife
draw-latch
draw-loom
draw-net
draw-out table
draw-plate
draw-sheet
draw-top table
draw-water
draw-well
drawback collet
drawback lock
drawbar horsepower
drawbar load
drawbar pull
drawcut shaper
drawer dovetail
drawer pull
drawer-down
drawer-in
drawer-off
drawer-out
drawer-up
drawing account
drawing awl
drawing bench
drawing block
drawing board
drawing book
drawing card
drawing chalk
drawing chisel
drawing compasses
drawing crayon
drawing desk
drawing die
drawing forth
drawing frame
drawing glove
drawing in
drawing ink
drawing instrument
drawing knife
drawing lots
drawing machine
drawing office
drawing out
drawing paper
drawing pen
drawing pencil
drawing pin
drawing pliers
drawing power
drawing press
drawing punch
drawing room
drawing rooms
drawing shave
drawing slate
drawing string
drawing table
drawing thread
drawing too thin
drawing-in
drawing-knife
drawing-master
drawing-out
drawing-room
drawing-room car
drawing-roomy
drawings-in
drawn butter
drawn butter sauce
drawn out
drawn to
drawn work
drawn-out
drawn-thread work
drawn-work
dray horse
dread rattling thunder
dread-bolted
dread-bolted thunder
dream allegory
dream analysis
dream book
dream dance
dream girl
dream life
dream light
dream name
dream of
dream of other things
dream on
dream state
dream stuff
dream symbolism
dream time
dream up
dream vision
dream wish
dream work
dream world
dream-blinded
dream-born
dream-built
dream-created
dream-footed
dream-found
dream-haunted
dream-haunting
dream-hole
dream-perturbed
dream-stricken
dreamer of dreams
dreamless sleep
dreamlike thinking
dreamy abstraction
dreamy-eyed
dreamy-minded
dreamy-souled
dreamy-voiced
drear-nighted
drear-white
dreary-eyed
dreary-looking
dreary-minded
dreary-souled
dredge belt
dredge boat
dredge box
dredge bucket
dredge can
dredge chain
dredge gear
dredge hoist
dredge hopperman
dredge hull
dredge ladder
dredge malt
dredge net
dredge out
dredge pipe
dredge pontoon
dredge pump
dredge rope
dredge up
dredger bucket
dredging box
dredging bucket
dredging machine
dree-draw
dregs of society
drenched with sweat
drenching rain
dress blues
dress cap
dress circle
dress coat
dress designer
dress down
dress face
dress form
dress goods
dress in
dress out
dress parade
dress rehearsal
dress sheers
dress shield
dress ship
dress shirt
dress shop
dress suit
dress the hair
dress the house
dress the wounds
dress tie
dress to kill
dress uniform
dress up
dress whites
dress-coated
dress-maker
dress-making
dress-up
dressed fit to kill
dressed to advantage
dressed to kill
dressed to the nines
dressed to the teeth
drift net
drift netter
drift off course
drift plug
drift sail
drift sight
drift slide
drift transistor
drift tube
drift wire
drift with the current
drift-ice
drift-netter
drift-wood
driggle-draggle
drill attachment
drill barrel
drill barrow
drill bit
drill block
drill book
drill bow
drill bushing
drill cartridge
drill case
drill changer
drill chuck
drill clamp
drill cleaner
drill cloth
drill collar
drill collet
drill corps
drill cutter
drill cylinder
drill day
drill drift
drill driver
drill engine
drill extension
drill extractor
drill feeder
drill file
drill fluter
drill gauge
drill grinder
drill ground
drill hall
drill hardener
drill harrow
drill holder
drill hole
drill instructor
drill jar
drill jig
drill lubricato
drill maker
drill making
drill mounting
drill pin
drill pipe
drill plow
drill point
drill pointer
drill press
drill rack
drill ratchet
drill regulation
drill rest
drill room
drill sergeant
drill shank
drill sharpener
drill ship
drill sleeve
drill socket
drill speeder
drill spring
drill stand
drill steel
drill straightener
drill team
drill tester
drill tower
drill track
drill twister
drill worker
drill yard
drill-like
drilling bit
drilling fluid
drilling hammer
drilling jig
drilling journal
drilling machine
drilling mud
drilling stem
drilling track
drink a stirrup cup
drink a toast to
drink bottoms-up
drink deep
drink hard
drink in
drink in with rapt attention
drink like a fish
drink mixer
drink money
drink off
drink offering
drink seriously
drink the health of
drink to
drink up
drink-hael
drink-hail
drinker moth
drinking age
drinking bout
drinking cup
drinking fountain
drinking glass
drinking horn
drinking house
drinking mug
drinking place
drinking saloon
drinking song
drinking straw
drinking time
drinking trough
drinking vessel
drinking vessels
drinking water
drinking-up time
drip band
drip board
drip box
drip cap
drip cock
drip coffee
drip coffee maker
drip cup
drip grind
drip groove
drip joint
drip loop
drip molding
drip oil
drip pan
drip pipe
drip pocket
drip primrose
drip sheet
drip tank
drip tip
drip transfusion
drip tray
drip treatment
drip trough
drip valve
drip-dried
drip-drip
drip-drop
drip-dry
drip-drying
drip-ground
dripping pan
dripping point
dripping wet
drive a bargain
drive a hard bargain
drive a roaring trade
drive ahead
drive an entering wedge
drive animals
drive at
drive away
drive back
drive crazy
drive dull care away
drive fit
drive from your thoughts
drive home to
drive in
drive insane
drive into a corner
drive into the open
drive into your head
drive mad
drive nozzle
drive off
drive on
drive out
drive screw
drive shaft
drive shoe
drive stakes
drive the pen
drive the pencil
drive to despair
drive to desperation
drive to leeward
drive to ruin
drive to the bad
drive to the dogs
drive to the wall
drive together
drive train
drive up the wall
drive wheel
drive whist
drive you hard
drive you mad
drive yourself
drive-
drive-in
drive-in restaurant
drive-in theater
drivel away
driveleng idiot
driven from pillar to post
driven snow
driver ant
driver mast
driver's license
driver's seat
driving age
driving and striking force
driving axle
driving band
driving barrel
driving bit
driving board
driving box
driving chain
driving clock
driving dog
driving drum
driving face
driving fit
driving force
driving gear
driving horn
driving horse
driving iron
driving licence
driving mashie
driving mirror
driving out
driving park
driving plate
driving power
driving punch
driving rain
driving range
driving sail
driving shaft
driving snow
driving spring
driving wagon
driving wheel
driving-box
driving-wheel
drizzle-drozzle
drizzling mist
drof-land
drogue chute
droit des gens
droit du seigneur
droits des gens
dromedary corps
dromos tomb
drone bass
drone bee
drone cell
drone fly
drongo cuckoo
drongo shrike
droop-eared
droop-headed
droop-nosed
drooping spirits
drop a bomb
drop a brick
drop a hint
drop a letter
drop a line
drop in on
drop in temperature
drop in the bucket
drop in the ocean
drop in your tracks
drop initial
drop into a good thing
drop it
drop jaw
drop keel
drop key
drop kick
drop lamp
drop leaf
drop letter
drop like a hot potato
drop line
drop number
drop off
drop on
drop out
drop out of society
drop panel
drop pass
drop pit
drop press
drop roller
drop rudder
drop scene
drop scone
drop screen
drop seat
drop serene
drop shipment
drop shipper
drop shot
drop shutter
drop siding
drop stitch
drop strake
drop stroke
drop sulphur
drop table
drop tank
drop tee
drop testing machine
drop the ball
drop the curtain
drop the handkerchief
drop the hook
drop the mooring
drop the subject
drop to pieces
drop valve
drop vie
drop weight
drop window
drop wire
drop worm
drop your eyes
drop your gaze
drop your guard
drop zinc
drop-
drop-away
drop-bottom bucket
drop-center rim
drop- eared
drop-forged
drop-forger
drop-forging
drop-forging die
drop-front
drop-kick
drop-kicker
drop-leaf
drop-leaf table
drop-leg
drop-letter
drop-meal
drop-off
drop-out
drop-out current
drop-out voltage
drop-scene
drop-shaped
drop-stich
drophead coup
droplet fall
droplet infection
dropped egg
dropped eggs
dropped from the clouds
dropped girt
dropped scone
dropped seat
dropper fly
dropper-on
dropping anchor
dropping angle
dropping bottle
dropping out
dropsy plant
dropsy-dry
dropsy-sick
drought-parched
drought-resisting
drought-stricken
drove chisel
drove work
drove-road
drown care
drown out
drown your sorrows
drowned coast
drowned valley
drowning rain
drowse off
drug abuser
drug addict
drug addiction
drug beetle
drug bottler
drug carriage
drug clerk
drug compounder
drug culture
drug dependence
drug dose
drug fiend
drug grinder
drug habit
drug ice
drug in the market
drug mixer
drug on the market
drug packet
drug pulverizer
drug pusher
drug rash
drug seller
drug store
drug treatment
drug trip
drug user
drug weigher
drug-addicted
drug-damned
drug-grinding
drug-mixing
drug-pulverizing
drug-selling
drug-using
drugged sleep
drugged with sleep
drugstore beetle
drugstore complexion
drugstore cowboy
druid stone
drum armature
drum brake
drum clock
drum controller
drum corps
drum dam
drum escapement
drum feed
drum language
drum major
drum majorette
drum malt
drum memory
drum music
drum out
drum paneling
drum puller
drum sander
drum saw
drum scale
drum screen
drum sieve
drum slide
drum spool
drum stuffing
drum switch
drum table
drum up
drum washer
drum wheel
drum winding
drum-major
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
drumble-drone
drumhead cabbage
drumhead court-martial
drumhead justice
drumming out
drummond light
drumstick tree
drunk as a fiddler
drunk as a lord
drunk as a piper
drunk as an owl
drunkard's chair
drunken brawl
drunken carousel
drunken plant
drunken revelry
drunken rye grass
drunken saw
dry air
dry ammunition
dry as a bone
dry as dust
dry battery
dry beater
dry bed
dry behind the ears
dry bone
dry bones
dry cell
dry cereal
dry cleaner
dry cleaning
dry compass
dry cooper
dry distillation
dry dock
dry farm
dry farmer
dry farming
dry fire
dry fly
dry fog
dry freeze
dry fresco
dry gangrene
dry garden
dry goods
dry goods dealer
dry goods store
dry hole
dry ice
dry kiln
dry lake
dry land
dry law
dry martini
dry measure
dry milk
dry miller
dry mixer
dry mop
dry nurse
dry offset
dry out
dry pint
dry pipe
dry plate
dry pleurisy
dry point
dry puddling
dry quart
dry rent
dry rot
dry run
dry sailing
dry sailor
dry season
dry socket
dry spinner
dry steam
dry sterile thunder without rain
dry storage
dry up
dry wash
dry well
dry wine
dry wit
dry womb
dry-air pump
dry-as-dust
dry-beat
dry-press process
dry-roasted
dry-rot
dry-rotted
dry-rub
dry-sail
dry-salt
dry-salted
dry-scrubbed
dry-shave
dry-shod
dry-shoot
dry-skinned
dry-soled
dry-stone
dry-tamp machine
dry-throated
dry-tongued
dry-weather flow
dry-weather vine
drying blotter
drying cabinet
drying chamber
drying fan
drying floor
drying frame
drying house
drying kiln
drying loft
drying oil
drying oven
drying pan
drying paper
drying rack
drying room
drying shed
drying tray
drying tube
drying up
drying yard
dryland farming
drynness fraction
du Bellay
du Cerceau
du Nouy tensiometer
du Vigneaud
du jour
dual carriageway
dual citizenship
dual controls
dual highway
dual nationality
dual personality
dual pricing
dual purpose fund
dual space
dual-control trainer
dual-purpose
dub bright
dub in
duc de Rivoli
duces tecum
duchesse bed
duchesse lace
duck acorn
duck and drake
duck and run
duck ant
duck blue
duck breeder
duck bumps
duck call
duck duty
duck egg
duck fit
duck foot
duck grass
duck green
duck gun
duck hawk
duck hunter
duck joint
duck keeper
duck mole
duck moss
duck oak
duck on a rock
duck on drake
duck on the rock
duck out
duck pass
duck pen
duck potato
duck rearer
duck responsibility
duck ring
duck sauce
duck shot
duck sickness
duck snipe
duck soup
duck table
duck the issue
duck wheat
duck willow
duck's arse
duck's bill
duck's egg
duck's meat
duck-bill
duck-billed
duck-billed dinosaur
duck-billed platypus
duck-egg
duck-egg blue
duck-footed
duck-hawk
duck-legged
duck-retter
duck-toed
duckbill cat
duckbill gar
duckbill platypus
ducking stool
ducking-pond
ducking-stool
ducks and drakes
ducktail haircut
duckweed family
duct keel
ductless gland
dudder grass
dude ranch
dude up
due bill
due course
due course of law
due date
due north
due process
due process of law
due punishment
due reward
due season
due sense of
due to
dueling pistol
dues-paying member
duff up
duffel bag
duffel coat
duffle coat
dug-out
dug-up
duke cherry
dukey rider
dulcimer harpsichord
dull as dish water
dull as dishwater
dull as ditchwater
dull bitterness of cold
dull hearing
dull of hearing
dull of mind
dull the pain
dull thud
dull tool
dull-brained
dull-browed
dull-colored
dull-eared
dull-edged
dull-eyed
dull-head
dull-headed
dull-headedness
dull-lived
dull-looking
dull-pated
dull-pointed
dull-red
dull-scented
dull-sighted
dull-sightedness
dull-sounding
dull-spirited
dull-surfaced
dull-toned
dull-tuned
dull-voiced
dull-witted
dull-wittedness
dulse dealer
dulse-green
duly constituted
dum spiro spero
dum vivimus vivamus
dumb Dora
dumb ague
dumb animal
dumb barge
dumb barter
dumb bid
dumb bunny
dumb cane
dumb cluck
dumb compass
dumb creature
dumb friend
dumb rabies
dumb sheave
dumb show
dumb stricken
dumb struck
dumb thing to do
dumb trick
dumb up
dumb with grief
dumb-bell
dumb-bird
dumb-cane
dumb-show
dumb-struck
dumb-waiter
dumble-
dumdum bullet
dumdum fever
dummy antenna
dummy block
dummy car
dummy cartridge
dummy cop
dummy experiment
dummy index
dummy joint
dummy pass
dummy share
dummy up
dummy variable
dummy whist
dundrea-ries
dune buggy
dune dweller
dune forest
dune grass
dune heath
dune land
dune marsh
dune plant
dune sand
dung bath
dung beetle
dung cart
dung chafer
dung fly
dung fork
dung heap
dung pit
dung worm
dung-cart
dung-fork
dunga-runga
dunghill fowl
dunk tree
duo-
duodecim-
duodecimal system
duodecuple scale
duoden-
duodenal ulcer
duodiode-triode
dupable person
duple measure
duple ratio
duple rhythm
duple time
duplex apartment
duplex bed
duplex boiler
duplex escapement
duplex house
duplex lock
duplex oxygenator
duplex process
duplex pump
duplex purchase
duplex telegraphy
duplex-numeric index
duplexity theory
duplicate bridge
duplicate plate
duplicate-pinnate
duplicating machine
duplication of effort
duplication of the cube
duplicato-
duplicato-dentate
duplicato-serrate
duplicato-terrate
duplicity principle
duplicity theory
dura mater
durable goods
durable press
durance vile
durango root
durante vita
durfa grass
durfee grass
during the interval
during the time
during the time that
during which time
durry-dandy
durum wheat
dusk dark
dusk-down
dusky grouse
dusky shark
dusky-browed
dusky-colored
dusky-faced
dusky-mantled
dusky-raftered
dusky-sandaled
dust ball
dust band
dust bin
dust bowl
dust brush
dust cap
dust cart
dust chamber
dust cloak
dust cloud
dust coat
dust count
dust counter
dust cover
dust devil
dust down
dust exhaust
dust extractor
dust furrow
dust gun
dust heap
dust in the eyes
dust infection
dust jacket
dust louse
dust mop
dust mulch
dust of ages
dust off
dust process
dust remover
dust ruffle
dust seal
dust shot
dust storm
dust thrown in the eye
dust trunk
dust well
dust whirl
dust your jacket
dust-bath
dust-begrimed
dust-box
dust-brand
dust-colored
dust-counter
dust-covered
dust-dry
dust-gray
dust-laden
dust-laying
dust-point
dust-polluting
dust-producing
dust-soiled
dust-throwing
dust-tight
dust-up
duster coat
duster-off
dusting brush
dusting colors
dusting powder
dusting-powder
dusty clover
dusty death
dusty miller
dutch clover
dutch courage
dutch door
dutch elm disease
dutch hoe
dutch lunch
dutch oven
dutch treat
dutch uncle
duties and responsibilities
duty calls you to
duty officer
duty visit
duty-bound
duty-free
duty-free shop
dvi-manganese
dwarf Japanese quince
dwarf Juneberry
dwarf alder
dwarf banana
dwarf bean
dwarf chestnut
dwarf cornel
dwarf crested iris
dwarf door
dwarf fan palm
dwarf ginseng
dwarf goldenrod
dwarf laurel
dwarf mallow
dwarf meadow grass
dwarf morning-glory
dwarf nasturtium
dwarf palmetto
dwarf poinciana
dwarf star
dwarf sumac
dwell in
dwell in your memory
dwell on
dwell upon
dwelling house
dwelling place
dwelling upon
dy-
dyadic system
dyakis-dodecahedron
dycrete process
dye bag
dye base
dye bath
dye boiler
dye box
dye bucket
dye grinder
dye in the wool
dye maker
dye mixer
dye pine
dye pot
dye remover
dye sensitizing
dye tank
dye therapy
dye transfer
dye tub
dye vat
dye works
dye your hands in blood
dyed in the wool
dyed-in-the-wool
dyer's furze
dyer's greenweed
dyer's rocket
dyer's woodruff
dyer's-broom
dyer's-greenweed
dyer's-weed
dyewood clipper
dyewood cutter
dyewood extract
dyewood grinder
dyewood liquor
dyewood miller
dying away
dying breath
dying day
dying down
dying for
dying hour
dying off
dying to
dying word
dying words
dynam-
dynamic economics
dynamic electricity
dynamic energy
dynamic geology
dynamic lift
dynamic markings
dynamic meteorology
dynamic microphone
dynamic pressure
dynamic psychology
dynamic speaker
dynamic stability
dynamic symmetry
dynamic wind rose
dynamical astronomy
dynamical stability
dynamite bomb
dynamite cap
dynamite glycerin
dynamite gun
dynamite maker
dynamite mixer
dynamite thawer
dynamo belting
dynamo brush
dynamo casting
dynamo commutator
dynamo erector
dynamo lubricator
dynamo winder
dynamo-
dynamometric governor
dynatron oscillator
dyne centimeter
dyne-seven
dys-
dysenteric arthritis
dysentery root
dzera-a-rabry pik
dzera-a-torky pik
e layer
e pluribus unum
e region
e-
eV
each and all
each and every
each and every one
each in its turn
each one
each other
each to each
each-where
eager assent
eager attention
eager beaver
eager-eyed
eager-hearted
eager-looking
eager-minded
eager-seeming
eagle bird
eagle boat
eagle claw
eagle eye
eagle feather
eagle fern
eagle flower
eagle gull
eagle hawk
eagle lectern
eagle owl
eagle plume
eagle ray
eagle rock
eagle scout
eagle vulture
eagle wing
eagle-billed
eagle-eyed
eagle-flighted
eagle-hawk
eagle-headed
eagle-pinioned
eagle-seeing
eagle-sighted
eagle-winged
eagle-wood
ear conch
ear cornet
ear coverts
ear crystal
ear drops
ear dust
ear flap
ear fly
ear for music
ear for, an
ear fungus
ear guard
ear index
ear leaf
ear lobe
ear mold
ear muff
ear of corn
ear off
ear piercer
ear reach
ear rot
ear sand
ear shell
ear snail
ear specialist
ear stone
ear tag
ear tick
ear tree
ear trumpet
ear wagon
ear, nose, and throat specialist
ear-ache
ear-brisk
ear-cockie
ear-deafening
ear-filling
ear-leaved
ear-mark
ear-minded
ear-mindedness
ear-piercing
ear-rending
ear-rent
ear-ring
ear-splitting
ear-to-ear grin
ear-trumpet
ear-wax
ear-witness
eardrop tree
eared seal
earl duck
earl marshal
earl marshall
earl palatine
earless lizard
earless seal
earlier state
earliest inhabitant
earls palatine
early bird
early blight
early closing
early comer
early death
early edition
early enough
early grave
early hour
early meadow grass
early meadow rue
early mesquite
early on
early purple orchid
early renaissance
early riser
early saxifrage
early stage
early symptom
early times
early warning
early warning system
early wood
early years
early-type star
early-warning radar
earn a bad name
earn a livelihood
earn a living
earn your keep
earned income
earned run
earned run average
earned surplus
earnest money
earnest-penny
earning grass
ears more deaf than adders
earth almond
earth apple
earth art
earth artist
earth auger
earth battery
earth bob
earth bread
earth cell
earth chestnut
earth circuit
earth closet
earth club
earth color
earth colour
earth crab
earth crust
earth current
earth division
earth dweller
earth flax
earth flea
earth foam
earth goddesses
earth hog
earth hole
earth house
earth hunger
earth induction compass
earth inductor compass
earth ivy
earth life
earth lodge
earth louse
earth metal
earth metals
earth moss
earth mother
earth movement
earth orbit
earth owl
earth pig
earth pillar
earth pitch
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
earthen oil
earthquake insurance
earthquake-proof
ease in
ease matters
ease of belief
ease off
ease one of
ease out
ease the helm
ease the rudder
ease up
ease up to
ease your load
ease yourself
ease-off
ease-up
easel-picture
easement curve
easier said than done
easily attained
easily first
easily reached
easily taken in
easily understood
easing of relations
easing of the load
easing of the way
easing sparrow
east Greenland current
east by north
east by south
east india
east indian
east indies
east wind
east-country
east-end
east-northeast
east-northeastward
east-northeastwardly
east-sider
east-southeast
east-southeastward
east-southeastwardly
east-windy
easter egg
easter lily
easter monday
easter-day
easterly wave
eastern coral snake
eastern crown
eastern diamondback rattlesnake
eastern hemisphere
eastern hemlock
eastern kingbird
eastern orthodox
eastern red cedar
eastern time
easting down
easy aces
easy as falling off a log
easy as pie
easy chair
easy circumstances
easy come
easy come, easy go
easy death
easy does it
easy end
easy game
easy go
easy going
easy lay
easy mark
easy mind
easy money
easy of belief
easy on the eyes
easy pickings
easy prices
easy purse strings
easy rider
easy slope
easy street
easy target
easy temper
easy thing
easy to be seen
easy to get along with
easy to speak to
easy to understand
easy victory
easy virtue
easy winner
easy woman
easy-fitting
easy-flowing
easy-going
easy-hearted
easy-humored
easy-mannered
easy-minded
easy-natured
easy-paced
easy-rising
easy-running
easy-spoken
eat away
eat crow
eat dirt
eat heartily
eat heartily
eat high off the hog
eat humble pie
eat in
eat into
eat like a bird
eat like a horse
eat off the same trencher
eat out
eat out of house and home
eat out of your hand
eat sparingly
eat the bread of idleness
eat the dust of
eat the wind out of
eat to live
eat to windward
eat to windward of
eat up
eat up the road
eat up the track
eat you out of house and home
eat your fill
eat your head off
eat your heart out
eat your terms
eat your words
eat, drink, and be merry
eat-all
eaten up
eaten up with curiosity
eaten-leaf
eater-out
eating house
eating tobacco
eating up
eau de Cologne
eau de Javelle
eau de cologne
eau de jasmin
eau de lavande
eau de nil
eau de rose
eau de toilette
eau de vie
eau de vie de marc
eau forte
eau minerale
eau-de-vie
eaux minerales
eave trough
eaves catch
eaves swallow
eaves trough
eavy-soled
ebb anchor
ebb and flow
ebb of life
ebb sleeper
ebb tide
eboe light
eboe oil
ebony family
ebony spleenwort
ec-
ceaille work
ccca leobion
ccce homo
ccce signum
ccele grass
ecclesi-
ecclesiastical calendar
ecclesiastical council
ecclesiastical court
ecclesiastical insignia
ecclesiastical law
ecclesiastical mode
ecclesiastical society
ecclesiastico-military
ecclesiastico-secular
eccrine gland
echelette grating
echelle grating
echelon grating
echelon lens
echin-
echino-
echo attachment
echo back
echo chamber
echo organ
echo pulse
echo signal
echo sounder
echo sounding
echoic word
eclectic medicine
eclipse breeze
eclipse plumage
eclipsing binary
eclipsing variable
eco-
ecological niche
ecological psychology
economic authority
economic blindness
economic class
economic community
economic cycle
economic determinism
economic determinist
economic expansion
economic expert
economic geography
economic geology
economic good
economic growth
economic man
economic planning
economic poison
economic rent
economic science
economic self-sufficiency
economic stagnation
economic strike
economic support
economic system
economic warfare
economical of words
economics in action
economy class
economy coil
economy of assumption
economy of language
economy of means
economy of words
economy prices
economy size
economy wall
ecrevisse de mer
ecru silk
ect-
ecto-
ectopic pregnancy
ecumenical council
ecumenical movement
ecumenical patriarch
ecumenical patriarchate
ed-
eddy chamber
eddy current
eddy-current brake
eddy-wind
edge effect
edge in
edge iron
edge joint
edge molding
edge off
edge out
edge plane
edge tool
edge tools
edge up to
edge-bone
edge-grain
edge-grained
edge-tool
edge-ways
edging grinder
edging lobelia
edible oil
edit out
edited text
edited version
editio princeps
edition bindery
edition binding
dition time
ditiones principes
editor in chief
tor-in-chief
torial writer
orial-writing
itors in chief
ceded class
ecedated language
eced man
eced speech
educational administrator
educational film
educational institution
educational psychology
educational television
eel cat
eel fork
eel netting
el-back flounder
el-backed
el-bed
el-catching
el-fare
el-pout
el-shaped
el-skin
el-spear
entsy-weentsy
eny meeny miney moe
ef-
eface from the memory
eface yourself
effect a sale
effect of
effect your escape
effective current
effective electromotive force
effective force
effective horsepower
effective pitch
effective rejoinder
effective resistance
effective sound pressure
effective style
effector organ
effeminate male
efferent neuron
efficiency apartment
efficiency engineer
efficiency engineering
efficiency expert
efficient cause
effigy mound
efflux tube
effort syndrome
effusion balance
effusive rock
efwatakala grass
egads button
egg albumen
egg albumin
egg and anchor
egg and dart
egg and spoon race
egg and tongue
egg apparatus
egg cell
egg coal
egg cozy
egg cream
egg cup
egg drop soup
egg flip
egg foo yong
egg glass
egg in your beer
egg on
egg roll
egg rolling
egg salad sandwich
egg sauce
egg sleeker
egg slice
egg spoon
egg stone
egg tempera
egg timer
egg tooth
egg white
egg whites
egg-and-spoon race
egg-bound
egg-nog
egg-plant
egg-shaped
egg-shell
egg-white
egg-white injury
eggdrop soup
eggs Benedict
eggshell blue
eggshell china
eggshell porcelain
eggy-hot
ego defense
ego defenses
ego ideal
ego trip
ego-id conflict
ego-involve
ego-libido
ego-trip
egoistic ethics
egoistic hedonism
egregious ass
egress
egyptian cotton
eypto-
eider down
eider duck
eider yarn
eider-down
eidetic image
eidetic imagery
eidetic memory
eigen-
eight ball
eight bells
eight cut
eight o’clock
eight-angled
eight-armed
eight-ball antenna
eight-celled
eight-cylinder
eight-day
eight-flowered
eight-gauge
eight-hour
eight-oar
eight-oared
eight-ply
eight-quarter cap
eight-spot
eight-square
eight-wheeler
eighter from Decatur
eightfold way
eighth note
eighth rest
eighth stock
eightsome reel
eighty-eight
eighty-eighth
eighty-fifth
eighty-first
eighty-five
eighty-four
eighty-fourth
eighty-nine
eighty-niner
eighty-ninth
eighty-one
eighty-second
eighty-seven
eighty-seventh
eighty-six
eighty-sixth
eighty-third
eighty-three
eighty-two
eis wool
either or
either-or
ejection capsule
ejection seat
ejector seat
eka-aluminum
eka-iodine
eke out
eke out a living
eke out an existence
ek-e-name
el dorado
elaeo-
elan vital
elao-
elastic anklet
elastic axis
elastic band
elastic bandage
elastic binder
elastic braid
elastic cement
elastic center
elastic currency
elastic deformation
elastic gel
elastic hosier
elastic hosiery
elastic kneecap
elastic limit
elastic loom
elastic modulus
elastic money
elastic object
elastic paper
elastic rubber
elastic stocking
elastic substance
elastic tape
elastic thread
elastic tissue
elastic varnish
elastic veiling
elastic wave
elastic-seeming
elastic-sided
elbow bender
elbow board
elbow catch
elbow cop
elbow crooker
elbow grease
elbow in
elbow in the ribs
elbow length
elbow rail
elbow telescope
elbow-shaped
elder bark
elder blossom
elder blow
elder fungus
elder hand
elder statesman
elder wine
elder-born
elder-brother
elder-leaved
elder-sister
elderberry wine
eldest hand
eldest of things
eldest-born
elec cement
elected by acclamation
election board
election district
election fraud
election returns
elective operation
electoral college
electoral district
electoral vote
electr-
electra complex
electric arc
electric attraction
electric beaver
electric blanket
electric blue
electric brougham
electric cable
electric candle
electric capacitance
electric car
electric chair
electric charge
electric circuit
electric clock
electric column
electric conduction
electric constant
electric cooker
electric cord
electric current
electric detonator
electric dipole moment
electric discharge
electric drill
electric driller
electric eel
electric exploder
electric eye
electric fan
electric field
electric field intensity
electric field strength
electric fish
electric flow
electric frying pan
electric furnace
electric fuse
electric gain
electric glow
electric guitar
electric hammer
electric hare
electric heat
electric heater
electric heating
electric horsepower
electric intensity
electric iron
electric lamp
electric light
electric light bulb
electric lighting
electric meter
electric meters
electric mole
electric motor
electric needle
electric organ
electric pad
electric polarity
electric potential
electric power
electric railway
electric range
electric ray
electric razor
electric reactor
electric refrigeration
electric refrigerator
electric repulsion
electric resistance
electric riveter
electric roaster
electric sander
electric saw
electric seal
electric shaver
electric shock
electric soldering iron
electric spark
electric storm
electric stove
electric stream
electric switch
electric telegraph
electric thermometer
electric toaster
electric torch
electric train
electric typewriter
electric unit
electric units
electric wave
electric welder
electric wind
electric wire
electric-arc furnace
electric-arc lamp
electric-discharge lamp
electric-discharge tube
electric-drive
electric-heat
electric-heated
electric-lighted
electric-powered
electrical capacity altimeter
electrical communication
electrical degree
electrical device
electrical engineer
electrical engineering
electrical governor
electrical part
electrical parts
electrical parts and devices
electrical scanning
electrical science
electrical storm
electrical transcription
electricity meter
electro-
electro-biology
electro-discharge machining
electro-magnet
electro-optical effect
electro-organic chemistry
electro-osmosis
electro-osmotic
electro-osmotically
electro-pneumatic organ
electro-ultrafiltration
electrocaloric effect
electrochemical series
electroconvulsive therapy
electrode conductance
electrode potential
electrode resistance
electrodeless discharge
electrodynamic speaker
electrohydraulic steering gear
electroless plating
electrolizer switch
electrolytic capacitor
electrolytic cell
electrolytic conductor
electrolytic dissociation
electrolytic gas
electrolytic interrupter
electrolytic machining
electrolytic protection
electromagnetic field
electromagnetic induction
electromagnetic interaction
electromagnetic lifting magnet
electromagnetic moment
electromagnetic pump
electromagnetic radiation
electromagnetic speaker
electromagnetic spectrum
electromagnetic tape
electromagnetic unit
emagnetic wave
electromechanical controller
electromotive force
electromotive series
electron accelerator
electron affinity
electron beam
electron camera
electron capture
electron cloud
electron diffraction
electron dynamics
electron emission
electron flow
electron gas
electron gun
electron layers
electron lens
electron magnetic spectroscopy
electron micrograph
electron microscope
electron microscopy
electron movement
electron multiplier
electron optics
electron pair
electron physics
electron probe microanalysis
electron ray
electron shells
electron shower
electron spin
electron spin resonance
electron state
electron stream
electron telescope
electron theory
electron theory of atoms
electron theory of electricity
electron theory of solids
electron transfer
electron transport
electron tube
electron tubes
electron volt
electron-beam tube
electron-diffraction camera
electron-image projector
electron-image tube
electron-positron pair
electron-ray tube
electron-volt
electron-wave tube
electronic Bohr magneton
electronic air conditioner
electronic air filter
electronic altimeter
electronic battery
electronic brain
electronic carillon
electronic chronometer
electronic circuit
electronic clock
electronic communication
electronic communications
electronic comparator
electronic computer
electronic computers
electronic control
electronic cop
electronic counter
electronic data processing
electronic detector
electronic device
electronic devices
electronic drum
electronic effect
electronic emission
electronic engineering
electronic fix
electronic flash
electronic fuel gauge
electronic hearing aid
electronic heater
electronic heating
electronic limit gauge
electronic meter
electronic meters
electronic music
electronic navigation
electronic nutcracker
electronic organ
electronic oscillator
electronic pilot
electronic potentiometer
electronic precipitator
electronic recorder
electronic refrigeration
electronic refrigerator
electronic revolution
electronic scanning
electronic servo
electronic stenciling machine
electronic stethoscope
electronic surveillance
electronic switch
electronic switching
electronic testing
electronic testing equipment
electronic timer
electronic tube
electronic typewriter
electronic voltmeter
electronic-flash unit
electronic-mechanical control
electronics dictionary
electronics engineer
electronics king
electronics physicist
electropneumatic transducer
electroshock therapy
electrostatic field
electrostatic generator
electrostatic inductio
electrostatic induction
electrostatic lens
electrostatic machine
electrostatic precipitation
electrostatic precipitator
electrostatic printing
electrostatic speaker
electrostatic spraying system
electrostatic storage unit
electrostatic tube of force
electrostatic unit
electrotherapeutic treatment
electrotype press
electrovalent bond
elegant penmanship
elegant variation
elegant writer
elegiac couplet
elegiac distich
elegiac pentameter
elegiac poetry
elegiac stanza
elegiac verse
eleme figs
elemental area
elemental spirit
elementary algebra
elementary arithmetic
elementary dictionary
elementary education
elementary instruction
elementary mathematics
elementary metal
elementary metals
elementary particle
elementary process
elementary quantum of action
elementary school
elementary unit
elemi figs
eleolite syenite
elephant apple
elephant beetle
elephant bird
elephant driver
elephant fish
elephant grass
elephant gun
elephant seal
elephant shrew
elephant's trunk
elephant's trunk snake
elephant's-ear
elephant's-foot
elephant's-foots
elephant-ear fern
elephant-hide pahoehoe
eleuthera bark
eleuthero-
elevate your mood
elevated railroad
elevated railway
elevating rudder
elevation Astronomy
elevator angle
elevator boy
elevator car
elevator conductor
elevator conveyer
elevator dredge
elevator girl
elevator man
elevator operator
elevator shaft
elevator shaft

elevator signal
elevator starter
eleven o'clock
eleven-oclock-lady
eleven-plus
eleven-year period
eleventh chord
eleventh hour
eleventh-hour
eleventh-hour
elf arrow
elf child
elf dance
elf kind
elf kindred
elf knight
elf owl
elf queen
elf-god
elf-lock
elf-shoot
elf-shot
elf-stricken
elf-struck
elf-taken
elfin-tree
eligible paper
elimination contest
elisor jury
elite corps
elite group
elite or long primer
elite troops
elixir of life
elixir vitae
elk bark
elk clover
elk nut
elk-grass
ell-broad
ell-long
ell-wand
ell-wide
ellipsoidal basalt
ellipsoidal lava
elliptic function
elliptic geometry
elliptic integral
elliptic spring
elliptic velocity
elliptic-lanceolate
elliptic-leaved
elliptical function
elliptical galaxy
elliptical light
elliptical polarization
elliptically polarized
elm balsam
elm bark
elm bark beetle
elm blight
elm calligrapha
elm leaf beetle
elm phloem necrosis
elm-leaved
elongato-conical
elongato-ovate
eloquent tongue
elude one
elution process
elytr-
em dash	em pica	em quad	em space
em-
emanate a smell
emanate from
embalm in the memory
embalmed corpse
embalming fluid
embark in
embark on
embark upon
embarkation deck
embarras de choix
embarras de richesses
embarrassed circumstances
embarrassing position
embarrassing situation
embattled grady
embed itself in the mind
ember day
ember goose
emblem book
emblem of authority
embodied in
embody in words
embol-
embossing plate
embrace a belief
embrace reality
embroidery floss
embroidery frame
embroidery needle
embry-
embryo bearer
embryo sac
embryon-
embryonic disk
embryonic layer
embryonic membrane
emerald copper
emerald cut
emerald green
emerald toucanet
emerald-green
emerge from
emergency barrage
emergency boat
emergency brake
emergency control
emergency exit
emergency landing field
emergency landing gear
emergency light
emergency man
emergency money
emergency operation
emergency rations
emergent evolution
emeritus status
emery belt
emery board
emery cloth
emery file
emery paper
emery powder
emery rock
emery surfacer
emery wheel
emeto-cathartic
eminence grise
eminent domain
emission current
emission spectrum
emission theory
emit a smell
emit a sound
emitter current
emitter junction capacitance
emitter resistance
emitter signal current
emitter signal voltage
emotional appeal
emotional capacity
emotional charge
emotional deadness
emotional disorder
emotional dissociation
emotional health
emotional instability
emotional instability reaction
emotional insulation
emotional life
emotional nuance
emotional numbness
emotional outburst
emotional paralysis
emotional release
emotional response
emotional shade
emotional shock
emotional support
emotional symptom
emotionally dead
emotionally numb
emotionally paralyzed
emotionally respond
emotionally unstable
emotionally unstable personality
emotive meaning
empathize with
emperor boa
emperor butterfly
emperor moth
emperor penguin
empire builder
empire building
empire cloth
empire day
empire-builder
empiric treatment
empirical existence
empirical fact
empirical formula
empirical politics
employ the time
employ time
employ your time in
employ yourself in
employ yourself upon
employer-owned
employment agency
employment agent
employment bureau
employment contract
employment exchange
empress cloth
empress of silence
empress tree
emptiness of mind
empty ceremony
empty claim
empty formality
empty gesture
empty hands
empty morph
empty name
empty of
empty out
empty pocket
empty purse
empty sound
empty space
empty stomach
empty threat
empty title
empty view
empty word
empty words
empty-armed
empty-barreled
empty-bellied
empty-cell process
downfisted
down-handed
down-handedness
down-headed
down-headedness
down-looking
down-minded
down-mindedness
down-mouthed
down-nodded
down-paneled
down-pated
down-skulled
down-stomached
down-vaulted
down-voiced
emu apple
emu bush
emu grass
emu-wren
emulsion colloid
emulsion paint
en attendant
en avant
en bloc
en brochette
en brosse
en cabochon
en casserole
en clair
en dash
en deshabille
en echelon
en effet
en f
en face
en familie
en garde
en grand seigneur
en grande tenue
en grande toilette
en loge
en masse
en papillote
en passant
en pension
en plein
end game
end in smoke
end in view
end line
end man
end matter
end mill
end of burning
end of debate
end of life
end of steel
end of the earth
end of the line
end of your rope
end of your tether
end off
end on
end organ
end paper
end pin
end plate
end play
end point
end product
end result
end rhyme
end run
end sheet
end stop
end stopping
end stress
end table
end the life of
end to end
end up
end up in smoke
end use
end wrench
end your days
end your life
end zone
end-
end-all
end-blown
end-grain
end-lap joint
end-match
end-measure
end-of-day glass
end-point control
end-rack
end-shrink
end-stopped
end-to-end
end-ways
endeavor to
endeca-
endemic disease
ender-on
ender-up
endgate seeder
endive blue
endless belt
endless chain
endless duration
endless round
endless supply
endless task
endless time
endo salt
endo-
endocentric compound
endocentric construction
endocrine disease
endocrine gland
endoderm disc
endoderm lamella
endogamous group
endomersion lens
endomersion objective
endomorphism ring
endoplasmic reticulum
endorsement in blank
endoscopic camera
endotheli-
endotherm knife
endow with
endow with life
endowed with
endowed with beauty
endowed with life
endowment assurance
endowment insurance
endurance limit
endurance race
endurance ratio
endurance strength
endure forever
endwise coil
enemy aircraft
enemy alien
enemy atrocities
enemy line
enemy lines
energy band
energy charge
energy component
energy level
energy metabolism
energy meter
energy state
energy surface density
energy voltage
energy-consuming
energy-producing
enfant perdu
enfant terrible
enfants perdu
enfants terribles
enforce economies
enforce upon
enforce your claim
enforced respite
engage attention
engage in
engage in a conversation
engage in battle
engage in hostilities
engage in marriage
engage in personalities
engage the attention
engage the mind
engage the thoughts
engage with
engage yourself
engage yourself with
engaged column
engaged in thought
engaged tone
engagement book
engagement ring
engine builder
engine cleaner
engine company
english walnut
engorgement colic
engrave on
engraved invitation
engraver beetle
engraver's proof
engraver's trick
engraving process
engraving tool
engross the mind
engross the thoughts
engrossed in
engrossed in thought
enharmonic chord
enharmonic diesis
enharmonic interval
enharmonic modulation
enharmonic note
enharmonic scale
enharmonic tetrachord
enharmonic tie
enigma canon
enigmatic canon
enigmatic question
enigmato-
enjoy a certain position
enjoy friendly relations with
enjoy good health
enjoy good relations with
enjoy prosperity
enjoy single blessedness
enjoy the use of
enjoy your own company
enjoy yourself
enjoying health
enjoyment of property
enlarge the mind
enlarge upon
enlist into service
enlist under the banner of
enlisted man
enlisted woman
enmeshed in
ennea-eteric
enol form
enol-keto isomerism
enough and then some
enough and to spare
enough in all conscience
enough said
enough to drive you mad
enough to get by on
enough to make a preacher swear
enough to provoke a saint
enough to wake the dead
enp-
enroll a jury
ens realissimum
ensemble music
ensemble singing
enshrine in the memory
ensign armorial
ensign fly
ensign staff
ensign-bearer
ensue from
ent-
entangled in
entente cordiale
enter a protest
enter into
enter into competition with
enter into detail
enter into possession
enter into the feelings of
enter into the ideas of
enter into the spirit of
enter into your view
enter into your views
enter on
enter the arena
enter the arena with
enter the lists
enter the ring with
enter upon
enter with a will
enter your mind
enter-
entered hound
entered through another gate
enteric fever
entering wedge
entero-
entertain a belief
entertain a dislike to
entertain a feeling
entertain a theory
entertain an opinion
entertain doubts
entertain guests
entertain ideas
entertain respect for
entertain suspicions
entertain the hope
entertain the idea of
entertain the inner man
entertain thoughts of
entertainment industry
enthrone your own will
enthusiastic about
entire function
entire horse
entire performance
entire satisfaction
entire-leaved
entire-wheat
entitled to
ento-
ento-ectad
entom-
entomo-
entrail pahoehoe
entrance certificate
entrance cone
entrance examination
entrance fee
entrance hall
entrance money
entrance pallet
entrance pupil
entrance-denying
entre deux ages
entre nous
entrenching tool
entrust with information
entry card
enula campana
envelope addresser
envelope bander
envelope case
envelope clasp
envelope designer
envelope die
envelope folder
epidemic cholera
epidemic disease
epidemic encephalitis
epidemic meningitis
epidemic parotitis
epidemic pleurodynia
epiderm-
epididymo-orchitis
epidote group
epidural anaesthesia
epiglotto-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tarda
epilept-
ephysis cerebri
episcopal ring
episcopal sandal
episcopal vestments
epistemological idealism
epistemological logic
epistemological realism
epistemological realist
epistole side
epistolary communication
epistolary intercourse
epistolary novel
epitaxial transistor
epithel-
epithelial pearl
epizootic aphtha
epoch-forming
epoch-making
epoch-marking
epoxide resin
epsilon-neighborhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
equal-aqual
equal-area
equal-area projection
equal-armed
equal-balanced
equal-blooded
equal-eyed
equal-glumed millet
equal-handed
equal-headed
equal-limbed
equal-poised
equal-sided
equal-souled
equal-weighted
equalizing file
equalization fee
equalization fund
equalization period
equalizer brake
equalizer set
equalizing bar
equalizing dynamo
equalizing file
equalizing gear
equalizing pipe
equalizing pulse
equally pinnate
equals sign
equation clock
equation division
equation movement
equation of state
equation of time
equation price
equation solver
equator coordinates
equatorial telescope
equatorial tide
equatorial trough
equestrian director
equi-
equi-gram-molar
equiangular hyperbola
equilaterial hyperbola
equilaterial triangle
equilibrium isomerism
equilibrium pressure
equilibrium sense
equilibrium valve
equine distemper
equine encephalomyelitis
equine infectious anaemia
equine infectious anemia
equinoctial circle
equinoctial colure
equinoctial hour
equinoctial line
equinoctial point
equinoctial rains
equinoctial storm
equinoctial year
equipartition of energy
equipment bond
equipment note
equipment trust
equipment trust bond
equipment trust certificate
equipeose rudder
equitable estate
equitable interest
equitable jurisdiction
equitime point
equity capital
equity court
equity of redemption
equity security
equity side
equivalence class
equivalence reaction
equivalence relation
equivalent algebras
equivalent circuit
equivalent focal length
equivalent monoplane
equivalent odds
equivalent weight
era of prosperity
erase all doubt
erase from the memory
erasing shield
erce-
erd shrew
ere long
ere then
erecting prism
erection mark
erector spinae
erg-

ergo proper hoc
ergo propter hoc
ergo sum

ergo-
eristic school
erl-king
erlenmeyer flask
ermine moth
ern-bleater
ern-fern
erosion cycle
erosion surface

eroso-
erotic art
erotic literature
erotic novel
erotic poetry
eroto-
errand boy
errand girl
errare humanum est
erring sister
error corrector
error detector
error in judgment
error in speech
error of closure
error signals
error-blasted
error-darkened
error-prone

error-proof
error-stricken
error-tainted

error-teaching
eruptive fever
erythema induratum
erythema nodosum
erythr-
erythredema polyneuropathy
erythro-
erythroblastosis fetalis
erythroblastosis neonatorum
erythrol tetranitrate
es-
escalator clause
escalator plan
escalier derobe
escallop-shell
escape artist
escape attention
escape by the skin of your teeth
escape clause
escape cock
escape earth
escape hatch
escape into fantasy
escape mechanism
escape notice
escape one
escape pipe
escape prison
escape road
escape route
escape shaft
escape the memory
escape valve
escape velocity
escape wheel
escape with a whole skin
escape without penalty
escape your lips
escapement error
escaping tendency
escort carrier
escort fighter
escort vessel
escort wagon
escutcheon of pretence
escutcheon plate
esemplastic imagination
esemplastic power
eskimo dog
eso-
esophagal ulcer
esophageal speech
esophageo-cutaneous
esophago-enterostomy
esoteric meaning
esoteric reality
esparto grass
espionage agent
espouse a belief
espouse a theory
espouse nonviolence
espouse the cause of
esprit d'escalier
esprit de corps
esprit fort
esquire based
esquisse-esquisse
essay-writing
esse est percipi
esse quam videri
essence d'orient
essence of bergamot
essence of life
essence of mirbane
essence of myrbane
essential amino acid
essential epilepsy
essential facts
essential hypertension
essential matter
essential nature
essential oil
essoin day
essoin roll
est modus in rebus
establish connection
establish residence
established church
established fact
established way
establishing shot
estate agent
estate and effects
estate at sufferance
estate at will
estate car
estate duty
estate for life
estate for years
estate in expectancy
estate in fee
estate in possession
estate in tail
estate manager
estate of freehold
estate of the realm
estate pour autre vie
estate rubber
estate tail
estate tax
estate waggon
estate wagon
ester gum
ester value
esthesio-
estivo-autumnal
esto perpetua
estragon oil
estral cycle
estrangelo alphabet
estrous cycle
estuarine area
et al
et alii
et cetera
et hoc genus omne
et id genus omne
et seq
et seqq
et sequens
et sic de similibus
et sqq
et tu
etain blue
etalon post
etain shrdlu
etch indelibly in the mind
etched glass
etching ball
etching ground
etching needle
etching point
etching silk
etching stitch
etching varnish
eternal damnation
eternal home
eternal life
eternal object
eternal re-creation
eternal recurrence
eternal rest
eternal return
eternal sleep
eternal triangle
eternal universal
eternal verities
eternal youth
everthentially the same
everternity ring.eth-
ethane dinitrile
ethanedioic acid
ether drift
ether extract
ether space
ether value
etheritic body
etheric double
etheric self
etherin theory
ethical code
ethical drug
ethical formalism
ethical hedonism
ethical nihilism
ethical nihilist
ethical philosophy
ethical relativism
ethical relativist
ethical self
ethical system
ethico-
ethiops martial
ethiops mineral
ethmo-
ethmoid bone
ethnic community
ethnic group
ethnic joke
ethnic music
ethnic vote
ethno-
ethyl acetate
ethyl acetate
ethyl acetone
ethyl alcohol
ethyl aminobenzoate
ethyl butanoate
ethyl butyrate
ethyl caproate
ethyl capronate
ethyl carbamate
ethyl cellulose
ethyl chloride
ethyl ester
ethyl ether
ethyl gas
ethyl group
ethyl hexanoate
ethyl hexoate
ethyl hydride
ethyl malonate
ethyl mercaptan
ethyl methyl ketone
ethyl nitrate
ethyl nitrite
ethyl nitrite spirit
ethyl oenanthate
ethyl oxide
ethyl radical
ethyl sulfide
ethyl urethan
ethyl urethane
ethylene alcohol
ethylene bromide
ethylene chloride
ethylene dibromide
ethylene dichloride
ethylene glycol
ethylene group
ethylene oxide
ethylene radical
ethylene series
ethyldiene diethyl ether
ethynyl group
ethynyl radical
eton collar
eton jacket
etymological dictionary
eu-
eu-form
eu-type
eucalyptene hydrochloride
eucalyptus green
eucalyptus gum
eucalyptus oil
eucaryotic cell
eudemis moth
eugenic acid
euglenoid movement
eunuch flute
euonymous scale
eupatorium purple
eupeptic mien
euphoric mien
eur-
eureka red
euro-boreal
europaeo-
european plan
european red mite
eury-
eustachian tube
evacuation ambulance
evacuation hospital
evacuation plane
evacuation station
evade responsibility
evade the issue
evaluative criticism
evans-root
evaporated milk
evaporation gauge
evaporation pan
evaporation tank
evasion of responsibility
evasive action
evasive reasoning
evasive reply
eve-churr
eve-jar
eve-star
even break
even chance
even lot
even money
even now
even number
even odds
even off
even out
even pace
even permutation
even so
even stephen
even temper
even tenor
even the score
even trade
even up
even with
even-
even-bell system
even-christian
even-edged
even-handed
even-handedly
even-handedness
even-minded
even-mindedness
even-money
even-numbered
even-old
even-paged
even-pleached
even-set
even-spun
even-star
even-steven
even-tempered
even-tenored
even-toed
even-toothed
even-up
even-wayed
evener-up
evening bag
evening campion
evening class
evening damp
evening devotions
evening dress
evening dun
evening emerald
evening flower
evening gown
evening grosbeak
evening lychnis
evening market
evening mist
evening of the score
evening of your days
evening prayer
evening prayers
evening primrose
evening rose
evening school
evening services
evening shirt
evening star
evening stock
evening trumpet flower
evening up
evening watch
evening's calm and holy hour
evening’s close
evening-dressed
evening-glory
evening-primrose family
evening-snow
event horizon
events-per-unit-time meter
ever and again
ever and always
ever and anon
ever less
ever more
ever since
ever so
ever so little
ever so many
ever so much
ever the same
ever-abiding
ever-active
ever-admiring
ever-angry
ever-bearing
ever-being
ever-beloved
ever-blazing
ever-blessed
ever-blooming
ever-burning
ever-celebrated
ever-changeful
ever-changing
ever-circling
ever-conquering
ever-constant
ever-craving
ever-dear
ever-deepening
ever-dripping
ever-drizzling
ever-dropping
ever-durable
ever-during
ever-during dark
ever-duringness
ever-dying
ever-echoing
ever-endingly
ever-esteemed
ever-expanding
ever-faithful
ever-fast
ever-fertile
ever-fresh
ever-friendly
ever-glooming
ever-goad
ing
ever-going
ever-growing
ever-happy
ever-honored
ever-increasing
ever-living
ever-loving
ever-mingling
ever-moving
ever-new
ever-noble
ever-normal granary
ever-present
ever-prompt
ever-ready
ever-recurrent
ever-recurring
ever-renewing
ever-smiling
ever-strong
ever-thrilling
ever-varying
ever-victorious
ever-wearing
ever-white
ever-widening
ever-willing
ever-wise
ever-young
everglade kite
everglade palm
evergreen beech
evergreen bittersweet
evergreen blackberry
evergreen blueberry
evergreen cherry
evergreen clematis
evergreen elm
evergreen grape
evergreen grass
evergreen magnolia
evergreen millet
evergreen oak
evergreen privet
evergreen snakeroot
evergreen thorn
evergreen trumpet flower
evergreen winterberry
evergreen wood fern
everlasting fire
everlasting flower
everlasting moment
everlasting pea
everlasting thorn
everlasting torment
every bit
every bit a
every day
every hour
every inch
every inch a king
every man Jack
every man jack
every moment
every mother's son
every now and then
every once in a while
every one
every one in his turn
every other
every so often
every which way
every whit
every-way
everybody and his uncle
everybody's fool
everything being equal
everything but the kitchen sink
everything that is
everywhere-dense
evete
eviction clause
evidence in chief
evidence-proof
ever child
evil courses
evil day
evil dispensation
evil disposition
evil eye
evil fortune
evil genius
evil hour
evil humor
evil intent
evil man
evil nature
evil person
evil reputation
evil repute
evil speaking
evil spirit
evil spirits
evil star
evil woman
evil-affected
evil-affectedness
evill-boding
evil-complexioned
evil-disposed
evil-doing
evil-eyed
evil-faced
evil-fashioned
evil-favored
evil-favoredly
evil-favoredness
evil-favoured
evil-featured
evil-fortuned
evil-gotten
evil-headed
evil-hued
evil-humored
evil-impregnated
evil-looking
evil-loved
evil-mannered
evil-minded
evil-mindedly
evil-mindedness
evil-mouthed
evil-ordered
evil-pieceed
evil-qualified
evil-savored
evil-shaped
evil-shapen
evil-smelling
evil-sounding
evil-sown
evil-spun
evil-starred
evil-taught
evil-tempered
evil-theved
evil-thoughted
evil-tongued
evil-weaponed
evil-willed
evil-won

evoke a response

evoke from the dead

evoked potential

evolutionary change

evolve into

ewe bramble
ewe lamb
ewe teg
ewe-daisy
ewe-gowan
ewe-neck
ewe-necked
ex adverso
ex aequo et bono
ex animo
ex ante
ex cathedra
ex coupon
ex div
ex div<
ex dividend
ex facie
ex facto
ex gratia
ex hypothesi
ex int
ex lege
ex lib
ex libris
ex maleficio
ex more
ex natura rei
ex new
ex nihilo nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pedia Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex propriate
ex rights
ex ship tackles
ex silentio
ex store
ex voto
ex voto offering
ex warrants
ex works
ex-
ex-army
ex-cathedra
ex-consul
ex-convict
ex-czar
ex-directory
ex-emperor
ex-employee
ex-enemy
ex-governor
ex-holder
ex-invalid
ex-judge
ex-kaiser
ex-king
ex-libres
ex-libris
ex-librist
ex-mayor
ex-minister
ex-official
ex-officio
ex-pier
ex-praetor
ex-president
ex-quay
ex-rights
ex-service
ex-serviceman
ex-servicemen
ex-ship
ex-voto
exa-
exact counterpart
exact description
exact differential
exact from
exact likeness
exact mates
exact measure
exact science
exactly alike
exaggerate your own merits
exaggerated lengths
exaggerated respect
exalt to the skies
examination by ear
examination of conscience
examination school
examine by ear
examine cursorily
examine point by point
examine side by side
examine the books
examine thoroughly
examine your conscience
examine-in-chief
examining post
examining room
examining side by side
excel at
excel in
excellent accommodations
excellent citizen
excellent companion
excellent manners
excelsior knife
except for
except that
exception taken of
excess demand
excess fare
excess insurance
excess profits tax
excess reinsurance
excess sound pressure
excess supply
excess-loss
excess-profits tax
excessive in your praise
excessive interest
excessive irritability
excessive praise
exchange blows
exchange broker
exchange cap
exchange colors
exchange editor
exchange equalization fund
exchange fisticuffs
exchange floor
exchange force
exchange greetings
exchange letters
exchange observations
exchange of blows
exchange of views
exchange opinions
exchange professor
exchange rate
exchange reaction
exchange shots
exchange stabilization fund
exchange student
exchange ticket
exchange transfusion
exchange views
exchangeable base
exchequer bill
exchequer bond
exchequer-chamber
excise tax
excite easily
excite interest
excite notice
excite pity
excite your interest
excited atom
excited imagination
excited state
excited-field speaker
exciter lamp
exciting current
excito-motory
exclaim against
exclamation mark
exclamation point
exclamatory adjective
exclamatory noun
exclude from
exclusion clause
exclusion principle
exclusive disjunction
exclusive jurisdiction
exclusive of
exclusive or
exclusive possession
exclusive representation
excruciating pain
excursion steamer
excursion ticket
excuse-me
excused absence
excusing the liberty
exdebito justitiae
exdebito natural
execute a
execute a maneuver
execute a will
execute by firing squad
executive agreement
executive arm
executive branch
executive committee
executive council
executive director
executive editor
executive function
executive hierarchy
executive office
executive officer
executive order
executive plane
executive privilege
executive role
executive secretary
executive session
executive veto
executor dative
exegi monumentum aere perennius
exemplary citizen
exemplary damages
exempli causa
exempli gratia
exempt carrier
exempt from
exemption from hostilities
exercise bone
exercise book
exercise care
exercise device
exercise discrimination
exercise influence
exercise judgment
exercise of memory
exercise of the intellect
exercise self-control
exercise self-restraint
exercise skill
exercise tact
exercise the duties of
exercise the elbow
exercise the functions of
exercise the judgment
exercise the mind
exercise the office of
exercise the right of angary
exercise your option
exert influence
exert pressure
exert strength
exert yourself
execute omnes
exh-
exhaust box
exhaust cowl
exhaust draft
exhaust every move
exhaust fan
exhaust gas
exhaust head
exhaust horn
exhaust jacket
exhaust lap
exhaust pipe
exhaust port
exhaust price
exhaust pump
exhaust silencer
exhaust steam
exhaust valve
exhaust velocity
exhaust-suction stroke
exhaustive study
exhibit the form of
exhibit your wares
exhibition game fowl
exhibition hall
exhibition room
exigi facias
exile tree
exist in
existential operator
existential philosopher
existential philosophy
existential psychology
existential quantifier
existential theology
existential vacuum
existential woe
existing conditions
existing situation
exit card
exit pallet
exit pupil
exo-
exo-condensation
exocentric compound
exocrine gland
exophthalmic goiter
exophthalmic goitre
exorbitant demand
exorbitant interest
exorbitant price
exotic dancer
expand your consciousness
expanded metal
expanding bullet
expanding economy
expanding universe
expanding universe theory
expansion ammeter
expansion attic
expansion bend
expansion bit
expansion bolt
expansion cam
expansion chamber
expansion coupling
expansion curve
expansion engine
expansion fit
expansion gear
expansion joint
expansion pipe
expansion plate
expansion pulley
expansion ring
expansion sleeve
expansion slide
expansion trunk
expansion valve
expansion wave
expansion wheel
expansive bit
expansive classification
expect it of
expect to
expectant treatment
expectant waiting
expectation neurosis
expectation of life
expected of
expected value
expedite your affair
expend your anger on
expense account
experience imaginatively
experience meeting
experience rate
experience religion
experience table
experience vicariously
experienced hand
experiential philosophy
experiment station
experiment upon
experimental animal
experimental design
experimental engineer
experimental engineering
experimental film
experimental logic
experimental medicine
experimental method
experimental proof
experimental psychology
experimental sample
experimental science
experimental scientist
experimental theater
experimental verification
experimenter effect
expert at
expert consultant
expert in
dercor
expert in decor
expert rifleman
expert witness
eptcredite
expiatory offering
expiatory sacrifice
explain away
explain yourself
explanato-
explanatory remark
explementary angle
explication de texte
explications de texte
explicit function
exploded view
exploding star
exploit your position
exploratory examination
exploratory operation
exploratory ship
explorer tent
exploring element
explosion bomb
explosion engine
explosion insurance
detonation
explosion shot
explosion wave
detonation
explosion-proof
detonation
explosive D
detonation
explosive bullet
detonation
explosive charge
detonation
d detonation
explosive d
detonation
explosive noise
detonation
explosive rivet
detonation
exponent proposition
detonation
exponential distribution
detonation
exponential horn
detonation
export bar
detonation
export credit
detonation
export declaration
detonation
export point
detonation
export reject
detonation
export tax
detonation
expose itself
detonation
expose to infamy
detonation
expose to view
detonation
expose yourself
detonation
expose yourself to
detonation
exposed nerve
detonation
exposed to
detonation
exposed to view
detonation
exposed-tube boiler
detonation
expository prose
detonation
expository scene
detonation
expository writing
detonation
exposure hazard
detonation
exposure index
detonation
exposure meter
detonation
express a wish for
detonation
express an opinion
detonation
express belief
detonation
express boiler
detonation
express buggy
detonation
express by words
detonation
express car
detonation
express delivery
detonation
express general agreement
detonation
express in words
detonation
express intention
detonation
express letter
detonation
express prejudice
detonation
express regret
extension-gap lathe
extensive knowledge
extensive study
extensor thrust
extenuating circumstances
exter-marriage
exterior angle
exterior ballistics
exterior paint
exteriorized protoplasm
exterminate with
external account
external acoustic meatus
external affairs
external angle
external appearance
external auditory meatus
external brake
external capsule
external carotid
external ear
external evidence
external frustration
external hemorrhoid
external iliac artery
external jugular vein
external loan
external relation
external respiration
external secretion
external-combustion
external-combustion engine
externally-quenched counter
extinction coefficient
extinction meter
extortionate demand
extortionate price
extra added attraction
extra cover
extra cover point
extra current
extra dash
extra dividend
extra edition
extra pay
extra point
extra sec
extra time
extra-
extra-acinous
extra-alimentary
extra-amniotic
extra-analogical
extra-anthropic
extra-articular
extra-artistic
extra-atmospheric
extra-axillar
extra-axillary
extra-base hit
extra-binding
extra-bound
extra-britannic
extra-condensed
extra-dry
extra-european
extra-fare
extra-fine
extra-foraneous
extra-good
extra-hazardous
extra-illustrate
extra-illustration
extra-large
extra-long
extra-mild
extra-parochial
extra-size folio
extra-special
extra-strong
extra-university
extra-urban
extra-uterine pregnancy
extracorporeal dialysis
extract from
extract information
extract printing
extract roots
extract wool
extracted material
extracted matter
extraction of roots
extraction thimble
extraction turbine
extraction wax
extractor fan
extracurricular relations
extracurricular sex
extragalactic nebula
extrajudicial oath
extramarital relations
extramarital sex
extranuclear electrons
extraordinarily like
extraordinary jubilee
extraordinary ray
extraordinary wave
extraordinary worth
extrapolation ionization chamber
extrasensory perception
extraterrestrial visitor
extratropical cyclone
extrauterine pregnancy
extreme clipper
extreme cold
extreme heat
extreme height
extreme innerness
extreme left
extreme left wing
extreme left-wing
extreme left-winger
extreme limit
extreme right
extreme right wing
extreme right-winger
extreme rightism
extreme temperatures
extreme tension
extreme unction
extremely high frequency
extrinsic evidence
extrinsic factor
extro-
extruded plastic
extruding press
extrusive rock
exudation pressure
exudative inflammation
exude cheerfulness
exult in
ey st
eye agate
eye appeal
eye askance
eye bank
eye bath
eye bone
eye cap
eye catcher
eye color
eye defect
eye dialect
eye disease
eye doctor
eye dotter
eye draft
eye drops
eye fold
eye for an eye, an
eye for eye
eye ground
eye hungrily
eye lens
eye liner
eye memory
eye nut
eye of a needle
eye of day
eye of the mind
eye opener
eye patch
eye point
eye rhyme
eye shadow
eye socket
eye speculum
eye splice
eye stub
eye to
eye tube
eye wattle
eye worm
eye-appealing
eye-ball
eye-beam
eye-bedewing
eye-beguiling
eye-bewildering
eye-bewitching
eye-blinking
eye-blurred
eye-bold
eye-bolt
eye-bree
eye-brightening
eye-casting
eye-catcher
eye-catching
eye-charmed
eye-checked
eye-conscious
eye-dazzling
eye-delighting
eye-devouring
eye-distracting
eye-draught
eye-ear plane
eye-ear-nose-throat specialist
eye-earnestly
eye-filling
eye-glass
eye-glutting
eye-lash
eye-lotion
eye-minded
eye-mindedness
eye-offending
eye-opener
eye-opening
eye-overflowing
eye-peep
eye-pit
eye-pleasing
eye/popper
eye-popping
eye-rejoicing
eye-rolling
eye-searing
eye-seen
eye-servant
eye-server
eye-service
eye-shot
eye-sick
eye-splice
eye-spotted
eye-starting
eye-string
eye-tooth
eye-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eye-ball inspection
eye-ball to eye-ball
eye-ball-to-eye-ball
eye-ball-to-eye-ball encounter
eye-brow pencil
eye-glass cloth
eyelet hole
eyelet punch
eyelet-hole
eye-piece micrometer
eyes bigger than the stomach
eyes front
eyes left
eyes only
eyes right
eyes upon
f clef
f layer
f number
f region
f value
f-hole
f-number
f-stop
f1 layer
f2 layer
fa la
fa-la
fable book
fable forger
fable play
fable teller
fable-framing
fabric spring
fabric tire
fabrication tax
fabulous formless darkness
face about
face ague
face angle
face bath
face bone
face bow
face brick
face card
face cards
face chuck
face cleat
face cloth
face cog
face cord
face cover
face cream
face down
face dresser
face dressing
face enamel
face gear
face guard
face hammer
face joint
face lathe
face lifting
face mask
face massage
face milling
face mite
face mold
face molder
face of brass
face out
face pack
face paint
face painter
face painting
face par
face pit
face powder
face presentation
face rouge
face side
face spanner
face specialist
face sponge
face stone
face string
face that would stop a clock
face the music
face to face
face to face with
face to the right-about
face toward
face towel
face up
face up to
face upon
face urn
face validity
face value
face wall
face wheel
face with
face-about
face-ache
face-arbor
face-bedded
face-centered
face-centred
face-harden
face-lift
face-lifting
face-off
face-on
face-saving
face-to-face
faced-lined
faceplate coupling
faceplate jaw
facia board
facial angle
facial appearance
facial expression
facial index
facial massage
facial nerve
facial neuralgia
facial tissue
facies Hippocratica
facies-suite
facile princeps
facilis descensus Averno
facility in writing
facility of speech
facing death
facing distance
facing hammer
facing head
facing lathe
facing sand
facing slip
facing tool
facing-point lock
facing-point switch
facsimile broadcasting
facsimile telegraph
fact distribution
fact of experience
fact of life
fact-finding
factor analysis
factor cost
factor group
factor of adhesion
factor of production
factor of safety
factor theorem
factorial stop system
factory belt
factory burden
factory committee
factory cost
factory district
factory farm
factory ledger
factory lumber
factory manager
factory ship
factory system
factory tar
factory town
factory worker
factory-new
facts and figures
facts of life
factual base
factual information
facultative referendum
faculty adviser
faculty members
faculty psychology
faculty theory
fad word
fade away
fade away from the memory
fade in
fade into the distance
fade like a dream
fade like a shadow
fade out
fade-in
fade-out
fade-proof
faded rose
faery-fair
faery-frail
fag end
fag out
fag-end
fagged out
fagot-vote
fagot cinnamon
fagot iron
fagot vote
fagot worm
fail ignominiously
fail in
fail in health
fail in your duty
fail miserably
fail of
fail of success
fail of your ambitions
fail of your hopes
fail safe
fail someone
fail spot
fail to appear
fail to pull out
fail to remember
fail-safe
failed expectation
failing student
failure of memory
failure of nerve
failure to pay
fain of
fain to
faint heart
faint hope
faint likelihood
faint praise
faint resemblance
faint sound
faint-blue
faint-gleaming
faint-glimmering
faint-green
faint-heard
faint-heart
faint-hued
faint-lined
faint-lipped
faint-rulled
faint-run
faint-sounding
faint-spoken
faint-voiced
faint-warbled
fainting fit
faintly like
faintness of sound
fair and pleasant
fair and square
fair as is the rose in May
fair ball
fair catch
fair copy
fair coquette of Heaven
fair day
fair employment
fair expectation
fair field
fair game
fair green
fair hand
fair housing
fair isle
fair lead
fair list
fair maid
fair name
fair or foul
fair play
fair prospect
fair sex
fair shake
fair stitching
fair to middling
fair trade
fair trader
fair weather
fair whites
fair wind
fair words
fair-born
fair-breasted
fair-browed
fair-cheeked
fair-colored
fair-complexioned
fair-conditioned
fair-copy
fair-days
fair-eyed
fair-faced
fair-favored
fair-featured
fair-fortuned
fair-fronted
fair-haired
fair-haired boy
fair-horned
fair-hued
fair-lead
fair-leader
fair-leading
fair-maid
fair-maned
fair-minded
fair-mindedness
fair-natured
fair-reputed
fair-sized
fair-skinned
fair-sounding
fair-spoken
fair-spokenness
fair-stitch
fair-stitcher
fair-tongued
fair-trade
fair-trade agreement
fair-trade law
fair-trade price
fair-traded
fair-trader
fair-trading
fair-tressed
fair-visaged
fair-water cap
fair-weather
fair-weather cumulus
fair-weather friend
fair-weather sailor
fairbody draft
faire les yeux doux
fairing box
fairly well
fairness doctrine
fairwater cap
fairwater cone
fairwater sleeve
fairy arrow
fairy bell
fairy bird
fairy bluebird
fairy book
fairy butter
fairy candle
fairy cap
fairy circle
fairy club
fairy court
fairy creeper
fairy cup
fairy cycle
fairy fan
fairy finger
fairy flax
fairy gift
fairy glove
fairy godmother
fairy grass
fairy green
fairy haunt
fairy hillock
fairy king
fairy lamp
fairy lily
fairy lint
fairy lore
fairy man
fairy martin
fairy money
fairy pageant
fairy penguin
fairy play
fairy pool
fairy primrose
fairy prion
fairy queen
fairy ring
fairy rose
fairy shrimp
fairy smoke
fairy song
fairy stone
fairy story
fairy swallow
fairy tale
fairy tern
fairy tree
fairy wallflower
fairy wand
fairy water lily
fairy woman
fairy-born
fairy-ring
fairy-ring mushroom
fairy-ring spot
fairy-tale
fait accompli
faites vos jeux
faith cure
faith curer
faith healer
faith healing
faith of our fathers
faith-breaking
faith-confirming
faith-curist
faith-infringing
faith-keeping
faithful copy
faithful friend
faithful love
faithful servant
faithful translation
faits accomplis
fake book
fake buyer
fake out
fake up
faker-out
faking box
fal la
fal-lal
fal-lalery
fal-lalish
fal-lalishly
falcon-beaked
falcon-eyed
falcon-gentle
fald silver
fall a cropper
fall a victim to
fall aboard
fall about
fall across
fall afoul of
fall again into
fall all over
fall all over yourself
fall among
fall army worm
fall asleep
fall aster
fall astern
fall at the feet of
fall at your feet
fall away
fall back
fall back on
fall back to
fall back to prepared positions
fall back upon
fall behind
fall behindhand
fall between two stools
fall block
fall by the wayside
fall chronometer
fall dandelion
fall dead
fall down
fall down before
fall down dead
fall down on the job
fall down on your knees
fall duck
fall due
fall flat
fall flat as a pancake
fall flat on your ass
fall flat on your face
fall flower
fall for
fall foul
fall foul of
fall from grace
fall from the lips
fall from the mouth
fall from your high estate
fall front
fall grape
fall guy
fall head and ears in love
fall head over heels in love
fall headlong
fall herring
fall in
fall in a faint
fall in line
fall in love
fall in price
fall in the way of
fall in together
fall in with
fall into
fall into a brown study
fall into a habit
fall into decay
fall into despair
fall into disrepute
fall into disuse
fall into error
fall into line
fall into oblivion
fall into order
fall into place
fall into rank
fall into raptures
fall into series
fall into your hands
fall lettuce
fall line
fall meadow rue
fall of Adam
fall of day
fall of man
fall of the cards
fall of the curtain
fall of the dice
fall of the leaf
fall of the year
fall off
fall on
fall on deaf ears
fall on evil days
fall on the ear
fall on your ass
fall on your face
fall on your feet
fall on your knees
fall on your knees before
fall on your knees to
fall out
fall over
fall phonometer
fall poison
fall prostrate
fall rope
fall rose
fall senseless
fall short
fall shy
fall silent
fall snipe
fall star grass
fall stillborn
fall through
fall to
fall to a low ebb
fall to dust
fall to loggerheads
fall to one
fall to pieces
fall to the ground
fall to work
fall to your lot
fall to your share
fall under
fall under your notice
fall upon
fall webworm
fall wheat
fall wind
fall'n into the sere
fall-board
fall-down
false air
false alarm
false aloe
false appearance
false arrest
false bedding
false beechdrops
false belief
false bottom
false bread-fruit
false breadfruit
false brome grass
false buckthorn
false buffalo grass
false cadence
false card
false cast
false cheek
false cirrus
false claim
false color
false coloring
false colors
false colours
false dawn
false dew
false dice
false doctrine
false echoes
false economy
false face
false foxglove
false friend
false front
false fruit
false god
false goldenrod
false grass
false guinea grass
false hair
false hellebore
false horizon
false image
false imprisonment
false ipecac
false keel
false labor
false light
false lily of the valley
false loosestrife
false map turtle
false memory
false mildew
false modesty
false money
false move
false music
false name
false nettle
false oat
false pains
false piety
false pile
false position
false pretences
false pretense
false pretenses
false pretension
false proscenium
false rafter
false reasoning
false redtop
false relation
false representation
false rib
false ribs
false rice
false ridgepole
false saffron
false shade line
false show
false step
false sunflower
false swearing
false teacher
false teeth
false title
false topaz
false vampire
false vocal cord
false vocal cords
false wheat
false witness
false-bedded
false-boding
false-bottomed
false-card
false-dealing
false-derived
false-eyed
false-face
false-face society
false-faced
false-fingered
false-fronted
false-gotten
false-heart
false-hearted
false-heartedly
false-heartenedness
false-mermaid family
false-nerved
false-packed
false-plighted
false-principled
false-purchased
false-spoken
false-sworn
false-tongued
false-visored
false-written
falsehood-free
falsify accounts
famble-crop
fame-achieving
fame-blazed
fame-crowned
fame-ennobled
fame-giving
fame-loving
fame-preserving
fame-seeking
fame-sung
fame-thirsting
fame-thirsty
fame-worthy
familia rustica
familial immunity
familiar as household words
familiar friend
familiar friendship
familiar spirit
familiar tune
familiar with
family Bible
family allowance
family altar
family bible
family circle
family compact
family connection
family contract
family counselor
family court
family doctor
family expense
family fare
family favor
family grouping
family homestead
family income policy
family jewels
family likeness
family living
family maintenance policy
family man
family meeting
family name
family of curves
family party
family physician
family plan
family planning
family relationship
family reunion
family romance
family room
family size
family skeleton
family style
family tie
family training
family tree
family wage
family way
family-conscious
family-fare plan
famine bread
famine fever
famine price
famous person
famous persons
fan Fink truss  
fan belt  
fan blade  
fan blower  
fan brake  
fan club  
fan consonant  
fan coral  
fan cricket  
fan dance  
fan dancer  
fan delta  
fan fitter  
fan guard  
fan heater  
fan jet  
fan letter  
fan magazine  
fan maidenhair  
fan mail  
fan maker  
fan marker  
fan mill  
fan out  
fan painter  
fan palm  
fan pulley  
fan pump  
fan roof  
fan scale  
fan shell  
fan system  
fan tan  
fan the embers  
fan the fire  
fan the flame  
fan tracery  
fan training  
fan tree  
fan truss  
fan vault  
fan vaulting  
fan wheel  
fan window  
fan worm  
fan-back chair  
fan-bearing  
fan-crested
fan-fashion
fan-jet
fan-jet engine
fan-leaved
fan-light
fan-nerved
fan-pleated
fan-shape
fan-shaped
fan-tail
fan-tailed
fan-tailed darter
fan-tan
fan-veined
fan-wing fly
fancied up
fancy Dan
fancy ball
fancy clouds where no clouds be
fancy dive
fancy diver
fancy diving
fancy dog
fancy dress
fancy dress ball
fancy geranium
fancy goods
fancy house
fancy lady
fancy man
fancy price
fancy talk
fancy that
fancy trimmer
fancy up
fancy woman
fancy work
fancy-baffled
fancy-blest
fancy-born
fancy-borne
fancy-bred
fancy-built
fancy-caught
fancy-dress ball
fancy-driven
fancy-fed
fancy-feeding
fancy-formed
fancy-framed
fancy-free
fancy-guided
fancy-led
fancy-loose
fancy-raised
fancy-shaped
fancy-stirring
fancy-struck
fancy-stung
fancy-weaving
fancy-woven
fancy-wrought
fandango bird
fang bolt
fanleaf palm
fanning machine
fanning mill
fanning out
fanny adams
fantail joint
fantail stern
fantasize about
fantastic notion
far afield
far ahead
far and away
far and near
far and wide
far away
far be it from me
far cry
far from it
far goer
far gone
far gone on
far horizon
far off
far on
far other
far out
far past
far piece
far point
far seer
far traveler
far-about
far-advanced
far-aloft
far-away
far-back
far-between
far-borne
far-branching
far-called
far-come
far-cost
far-darting
far-discovered
far-distant
far-down
far-downer
far-driven
far-eastern
far-embracing
far-extended
far-extending
far-famed
far-fet
far-fetch
far-fetched
far-flashing
far-flown
far-flung
far-flying
far-foamed
far-forth
far-gleaming
far-going
far-gone
far-heard
far-horizoned
far-looking
far-loomining
far-northern
far-off
far-offness
far-out
far-parted
far-passing
far-point
far-projecting
far-ranging
far-reaching
far-reachingness
far-removed
far-resounding
far-seeing
far-seen
far-shooting
far-sight
far-sighted
far-sought
far-sounding
far-southern
far-spread
far-spread
far-spread
far-stretched
far-stretching
far-traveled
far-western
faradic electricity
farce comedy
farcy bud
farcy button
farcy pipe
fardel-bound
fare forth
fare well
fare-free
fare-thee-well
fare-ye-well
fare-you-well
farewell performance
farewell-summer
farewell-to-spring
farfetched story
farinaceous plant
farm belt
farm bloc
farm bureau
farm club
farm country
farm economics
farm economy
farm elevator
farm hand
farm interests
farm laborer
farm level
farm loan association
farm loan bank
farm loan bond
farm machine
down machine
down machinery
down management
down manager
down out
down pond
down team
down tractor
down-bred
down-engro
down-house
down-stead
down-yard
down cheese
down drill
down in the dell
down's lung
down-general
down-generalship
down cooperative
down-general
farmhouse loaf
faro bank
faro banker
fart around
farthest bound
farthest off
farthest out
farthest outpost
farthing dip
farthingale chair
farting around
fascia board
fascinated attention
fascine choker
fashion book
fashion designer
fashion gray
fashion house
fashion piece
fashion plate
fashion plate stem
fashion show
fashion writer
fashion-fancying
fashion-fettered
fashion-following
fashion-led
fashion-monger
fashion-setting
fashionable society
fashioning needle
fast and loose
fast asleep
fast boat
fast break
fast by
fast day
fast deal
fast dye
fast food
fast freight line
fast friend
fast friendship
fast groove
fast motion
fast neutron
fast one
fast pace
fast pile
fast rate
fast reactor
fast spiral
fast talk
fast telegram
fast time
fast worker
fast-anchored
fast-bound
fast-breaking
fast-breeder reactor
fast-cleaving
fast-darkening
fast-dye
fast-dyed
fast-fading
fast-falling
fast-feeding
fast-fettered
fast-fleeting
fast-flowing
fast-food chain
fast-footed
fast-gathering
fast-grounded
fast-growing
fast-handed
fast-joint hinge
fast-knit
fast-mass
fast-moving
fast-plighted
fast-rooted
fast-rootedness
fast-running
fast-sailing
fast-settled
fast-stepping
fast-talk
fast-tied
fasten a quarrel on
fasten down
fasten itself on the mind
fasten on
fasten onto
fasten the eyes upon
fasten up
fasten upon
fasten yourself upon
fastening-penny
fastens-een
faster than sound
fastidious person
fat acid
fat as a fool
fat as a hog
fat as a pig
fat as a pork hog
fat as a porpoise
fat as a quail
fat as bacon
fat as brawn
fat as butter
fat back
fat box
fat cat
fat cell
fat chance
fat corpuscle
fat depot
fat gland
fat granule
fat heart
fat hen
fat liquor
fat man
fat mouse
fat of the land
fat oil
fat part
fat pork
fat purse
fat series
fat stock
fat-assed
fat-backed
fat-barked
fat-bellied
fat-bodied
fat-cheeked
fat-choy
fat-edged
fat-engendering
fat-faced
fat-faced type
fat-fed
fat-fleshed
fat-free
fat-head
fat-hen
fat-hipped
fat-legged
fat-necrosis
fat-paunched
fat-reducing
fat-rumped sheep
fat-shunning
fat-soluble
fat-tailed
fat-tailed sheep
fat-witted
fata morgana
fatal accident
fatal blow
fatal hour
fatal-boding
fatal-looking
fatal-plotted
fatal-seeming
fate line
fate worse than death
fate-bowed
fate-denouncing
fate-dogged
fate-environed
fate-foretelling
fate-furrowed
fate-menaced
fate-scomning
fate-stricken
fateful moment
fathead minnow
father abbot
father christmas
father complex
father confessor
father family
father figure
father fixation
father image
father in Christ
father jesuit
father lasher
father longlegs
father love
father of the chapel
father right
father rule
father sib
father superior
father surrogate
father symbol
father upon
father's day
father-confessor
father-in-law
father-lasher
father-long-legs
fathers-in-law
fathom-deep
fatigue call
fatigue cap
fatigue clothes
fatigue curve
fatigue disease
fatigue dress
fatigue duty
fatigue life
fatigue limit
fatigue party
fatigue ratio
fatten on
fatten up
fatten upon
fattening grass
fatti maschii
fatty acid
fatty degeneration
fatty heart
fatty oil
fatty tumor
faucet joint
fault bar
fault block
fault breccia
fault conglomerate
fault current
fault lamp
fault line
fault localizer
fault plane
fault rock
fault rubble
fault scarp
fault surface
fault terrace
fault vent
fault-find
fault-finding
fault-line scarp
fault-slip
faulty comparison
faulty coordination
faulty eyesight
faulty grammar
faulty punctuation
faulty reference
faulty subordination
faulty syntax
faun-colored
faunus butterfly
fause-house
faute de mieux
faux jour
faux pas
faux rondelette
faux-bourdon
faux-na
fava bean
favor with
favorable attention
favorable disposition
favorable opportunity
favorable prospect
favorable regard
favorable vote
favorable wind
favorably disposed
favorably impressed with
favorably inclined
favoring wind
favorite of the gods
favorite son
favors of office
fawn brown
fawn lily
fawn upon
fawn-color
fawn-colored
fawn-colour
faying surface
fear God
fear and trembling
fear holding on a minute longer
fear into the heart of
fear of God
fear that has said its prayers
fear-babe
fear-broken
fear-created
fear-depressed
fear-free
fear-froze
fear-inspiring
fear-palsied
fear-pursued
fear-shaken
fear-stricken
fear-struck
fear-tangled
fear-taught
fearsome-looking
feast and famine
feast day
feast of the soul
feast on
feast upon
feast-or-famine
feather alum
feather an oar
feather ball
feather banding
feather beater
feather bed
feather bleacher
feather boa
feather boarding
feather bolster
feather bonnet
feather brush
feather cleanser
feather cloth
feather columbine
feather crotch
feather curler
feather dresser
feather drier
feather driver
feather duster
feather dyer
feather fan
feather fern
feather finisher
feather geranium
feather grass
feather hyacinth
feather in your cap
feather joint
feather key
feather mail
feather maker
feather making
feather mattress
feather merchant
feather mosaic
feather moss
feather ore
feather out
feather palm
feather part
feather picker
feather pillow
feather pink
feather plume
feather poke
feather renovator
feather scrape
feather sewer
feather shot
feather spring
feather staccato
feather star
feather steamer
feather tick
feather tip
feather tract
feather tree
feather trimmer
feather type
feather valve
feather worm
feather your nest
feather'd rain
feather-bed
feather-covered
feather-duster worm
feather-edge
feather-fleece
feather-footed
feather-head
feather-heeled
feather-leaved
feather-legged
feather-stitch
feather-tail glider
feather-tongue
feather-veined
feather-weight
feather-weighted
feather-work
featherbed rule
feathered songster
featheredge file
feathering float
feathering paddle wheel
feathering screw
featherleaf cedar
feathertail glider
feathertop grass
feature attraction
feature editor
feature story
feature-length
feature-writing
febri-
febrifuge plant
fed to the gills
fed to the teeth
fed up
fed-up
fed-upedness
fed-upness
federal agent
federal assembly
federal district
federal government
federal home loan bank
federal intermediate credit bank
federal land bank
federal medicine
federal prison
federal reserve bank
federal tax
federated church
fee farm
fee farmer
fee fief
fee grief
fee position
fee simple
fee simple absolute
fee simple conditional
fee simple defeasible
fee simple determinable
fee splitting
fee tail
fee-farm
fee-faw-fum
fee-simple
fee-splitter
fee-splitting
fee-tail
feeble person
feeble-bodied
feeble-eyed
feeble-lunged
feeble-minded
feeble-mindedly
feeble-mindedness
feeble-voiced
feeble-winged
feeble-wit
feed bag
feed boiler
feed case
feed cooker
feed crusher
feed cutter
feed gear
feed grinder
feed guide
feed hand
feed heater
feed heating
feed hopper
feed line
feed lot
feed mill
feed mixer
feed motion
feed on
feed packer
feed pipe
feed plate
feed pump
feed rack
feed reel
feed rod
feed roll
feed screw
feed stable
feed store
feed tank
feed the fire
feed the fish
feed trough
feed truck
feed tube
feed upon
feed valve
feed water
feed wheat
feed wheel
feed wire
feed-and-reflector unit
feed-back coil
feed-water heater
feedback amplifier
feedback circuit
feedback conductance
feedback control
feedback inhibition
feedback loop
feedback pulses
feedback signals
feedback system engineer
feedback system engineering
feeder airline
feeder cable
feeder ear
feeder line
feeder plant
feeder reactor
feeder road
feeder-in
feeder-up
feeding bottle
feeding cup
feeding head
feeding point
feeding rod
feeding root
feeding standard
feeling market
feel about it
feel acutely
feel anxious
feel around
feel ashamed of yourself
feel at home
feel at liberty
feel awful
feel better about it
feel cheap
feel confident
feel contempt for
feel creepy
feel deeply
feel disgust
feel easy
feel emotion
feel fine
feel for
feel free
feel funny
feel good
feel happy
feel hungry
feel hurt
feel ill
feel in your bones
feel in your breast
feel in your guts
feel in your viscera
feel intuitively
feel like
feel like a million
feel like the walking dead
feel like yourself
feel no obligation
feel of
feel out
feel pain
feel relief
feel resentment
feel small
feel something terrible
feel sore
feel sorrow for
feel sorry for
feel superior to
feel sure
feel the pangs
feel the pulse
feel the want of
feel under an obligation
feel under the weather
feel unsure
feel up
feel up to
feel with
feel with the fingertips
feel your ground
feel your oats
feel your way
feel yourself
feel yourself again
feeler gauge
feeling awful
feeling cold
feeling evil
feeling faint
feeling for
feeling for language
feeling for words
feeling in your bones
feeling low
feeling of identity
feeling of kinship
feeling of relief
feeling out
feeling something terrible
feeling the pinch
feeling tone
feeling your oats
feery-fary
feet first
feet foremost
feet of clay
feg Dialect
feigned belief
feline agranulocytosis
feline distemper
feline enteritis
fell-fare
fell-field
fell-land
felling wedge
fellow actor
fellow american
fellow apprentice
fellow being
fellow boarder
fellow captive
fellow caucasian
fellow christian
fellow citizen
fellow collegian
fellow commoner
fellow communicant
fellow companion
fellow conspirator
fellow convict
fellow countryman
fellow craftsman
fellow creature
fellow criminal
fellow delegate
fellow disciple
fellow emigrant
fellow employee
fellow exile
fellow explorer
fellow feeling
fellow feeling in suffering
fellow guest
fellow heir
fellow helper
fellow idler
fellow immigrant
fellow laborer
fellow listener
fellow lodger
fellow man
fellow member
fellow mortal
fellow passenger
fellow patriot
fellow pedestrian
fellow plotter
fellow prisoner
fellow pupil
fellow servant
fellow sinner
fellow soldier
fellow student
fellow sufferer
fellow townsman
fellow traveler
fellow traveller
fellow tribesman
fellow victim
fellow villager
fellow worker
fellow workman
fellow worshiper
fellow-commoner
fellow-creature
fellow-feel
fellow-feeling
fellow-heir
fellow-man
fellow-men
fellow-servant rule
fellow-soldier
fellowship porter
felo de se
felo-de-se
felon grass
felon herb
feminine ending
feminine rhyme
feminist therapy
femme de chambre
femme fatale
femmes de chambre
femmes fatales
femoral artery
femto-
fen cress
fen duck
fen farmer
fen farming
fen fever
fen fire
fen grape
fen groundsel
fen lentil
fen orchis
fen rue
fen skate
fen skater
fen skating
fen thrush
fen-born
fen-bred
fen-sucked
fen-ting
fence arbor
fence balk
fence builder
fence in
fence lizard
fence maker
fence month
fence off
fence post
fence puller
fence rail
fence season
fence splicer
fence stretcher
fence tightener
fence-off
fence-sitter
fence-sitting
fence-straddler
fence-straddling
fenced-in
fencer's mask
fencing foils
fencing mask
fencing master
fencing match
fencing school
fencing stick
fencing-in
fend for yourself
fend off
fender bar
fender beam
fender bolt
fender boom
fender pile
fender post
fender skid
fender spar
fender stool
fender wall
fenestration operation
fennel giant
fennel oil
fennel seed
fennel water
fennel-leaved
fer-de-lance
fer-de-moline
ferae naturae
feriae jova
ferling-noble
fermentation alcohol
fermentation gum
fermentation lock
fermentation tube
fern ally
fern asparagus
fern ball
fern bracken
fern bush
fern clubmoss
fern covert
fern cycad
fern green
fern hook
fern meadowbur
fern moss
ferry rack
ferry rocket
ferry slip
ferry steamer
ferry ticket
ferry warden
ferry-boat
fertile imagination
fertile material
fertile mind
fertile-flowered
fertile-fresh
fertile-headed
fertility cult
fertility god
fertility goddess
fertility spirit
fertility symbol
fertilization cone
fertilization tube
fertilizer ammonia
fertilizer chemical
fertilizer crusher
fertilizer distributor
fertilizer divider
fertilizer drill
fertilizer hand
fertilizer maker
fertilizer making
fertilizer meal
fertilizer mill
fertilizer mixer
fertilizer phosphate
fertilizer plant
fertilizer press
fertilizer sampler
fertilizer spreader
fertilizer tank
fertilizer-crushing
fervent hope
fervent imagination
fescue grass
fess point
fess up
fesse point
festal board
festina lente
festival day
festival of lights
festive occasion
festoon cloud
festoon lighting
festoon pine
festooned pahoehoe
fetal diagnosis
fetal position
fetch a blow
fetch about
fetch and carry
fetch away
fetch breath
fetch candle
fetch down
fetch headway
fetch rod
fetch sternway
fetch up
fetch up all standing
fetch up at
fetch-
fetch-candle
fetch-light
fetched-on
fetching-up
fete champetere
fete day
fete-champetere
feti-
fetid air
fetlock joint
fetlock-deep
fetter bone
feu annual
feu charter
feu d'artifice
feu de joie
feu duty
feu farm
feu farmer
feu-farm
feudal estate
feudal investiture
feudal system
feuille-morte
feux d'artifice
feux de joie
fever bark
fever bird
fever blister
fever chart
fever curve
fever flash
fever fly
fever heat
fever of excitement
fever pill
fever pitch
fever plant
fever reducer
fever sore
fever therapy
fever thermometer
fever treatment
fever tree
fever twig
fever ward
fever-cooling
fever-destroying
fever-haunted
fever-lurden
fever-maddened
fever-reducer
fever-ridden
fever-shaken
fever-sick
fever-smitten
fever-stricken
fever-troubled
fever-warm
fever-weakened
few and far between
few, a
few-acred
few-celled
few-flowered
few-flowered oat grass
few-fruited
few-seeded
few-toothed
fiat justitia ruat caelum
fiat lux
fiat money
fibble-fable
fiber boilerman
fiber bundle
fiber carder
fiber comber
fiber crimper
fiber drafter
fiber dresser
fiber filler
fiber glass
fiber graphite
fiber hackler
fiber mixer
fiber optics
fiber plant
fiber plaster
fiber saturation point
fiber sorter
fiber stitch
fiber turner
fiber wax
fiber-faced
fiber-glass boat
fiber-shaped
fible-fable
fibr-
fibre optics
fibrin ferment
fibrino-
fibrinous pneumonia
fibro-
fibro-osteoma
fibroid heart
fibroid inflammation
fibroid phthisis
fibrous grass
fibrous-coated
fibrous-rooted
fickle Chance
fickle finger of fate
fickle-fancied
fickle-headed
fickle-minded
fickle-mindedly
fickle-mindedness
fiction of the mind
fictional form
fictitious name
fictitious person
fid hole
fiddle away
fiddle back
fiddle beetle
fiddle block
fiddle bow
fiddle brace back
fiddle case
fiddle dock
fiddle flower
fiddle head
fiddle maker
fiddle making
fiddle pattern
fiddle with
fiddle-back
fiddle-brained
fiddle-de-dee
fiddle-faced
fiddle-faddle
fiddle-faddled
fiddle-faddler
fiddle-faddling
fiddle-flanked
fiddle-head
fiddle-lipped
fiddle-neck
fiddle-scraping
fiddle-shaped
fiddle-string
fiddle-waist
fiddleback chasuble
fiddler crab
fiddler duck
fiddley house
fiddley opening
fidei-commissum
fideicommissary heir
fidelity bond
fidelity insurance
fidget with
fiduciary bond
fiduciary heir
fiduciary issue
fidus Achates
fie-fie
field armor
field army
field arrow
field artillery
field ash
field bag
field balm
field balsam
field basil
field battery
field bean
field bed
field bee
field beet
field bellwort
field betony
field bindweed
field book
field boot
field bugloss
field camomile
field capacity
field captain
field chickweed
field clerk
field coil
field company
field control
field conventicle
field corn
field cress
field cricket
field crop
field crowfoot
field current
field cypress
field daisy
field day
field dodder
field dog
field driver
field duck
field emission
field event
field fortification
field frame
field garlic
field glass
field glasses
field goal
field grade
field gray
field gromwell
field guidance
field guide
field gun
field hand
field hockey
field holler
field horsetail
field hospital
field house
field ice
field intensity
field ion microscope
field jacket
field judge
field kale
field kitchen
field lark
field larkspur
field lens
field lily
field line
field madder
field magnet
field maneuver
field marigold
field mark
field marshal
field martin
field master
field meeting
field milkwort
field mint
field mouse
field mushroom
field music
field nigelweed
field night
field oak
field of battle
field of blood
field of bloodshed
field of force
field of fractions
field of honor
field of honour
field of inquiry
field of quotients
field of slaughter
field of study
field of view
field of vision
field officer
field order
field park
field pea
field penny-cress
field pine
field plotter
field plover
field poa grass
field poppy
field preaching
field probable error
field range
field ration
field rations
field rivet
field rush
field salad
field scabious
field scorpion grass
field service
field shoes
field soapwort
field soapwort field sorrel
field sorrel
field southernwood
field spaniel
field sparrow
field speedwell
field spider
field spirit
field spool
field sports
field staff
field station
field stop
field strength
field system
field telegraph
field telephone
field tent
field theory
field thistle
field thyme
field tiller
field titling
field train
field training
field trial
field trip
field vole
field winding
field work
field wormwood
field woundwort
field yam-root
field-bed
field-book
field-control converter
field-controlled
field-conventicle
field-conventicler
field-cornet
field-cornety
field-day
field-discharge switch
field-effect transistor
field-emission X-ray tube
field-glass
field-holler
field-marshals
field-meeting
field-strength meter
field-strip
field-stripped
field-stripping
field-stript
field-transfer switch
field-work
fielded panel
fielder's choice
fielding average
fields of Aalu
fiend from hell
fierce temper
fierce-eyed
fierce-faced
fierce-looking
fierce-minded
fierce-natured
fieri facias
fiery cross
fiery furnace
fiery imagination
fiery ordeal
fiery temper
fiery-bright
fiery-cross
fiery-crowned
fiery-eyed
fiery-faced
fiery-fierce
fiery-flaming
fiery-footed
fiery-helmed
fiery-hoofed
fiery-hot
fiery-kindled
fiery-liquid
fiery-mouthed
fiery-pointed
fiery-rash
fiery-seeming
fiery-shining
fiery-spangled
fiery-sparkling
fiery-spirited
fiery-sworded
fiery-tempered
fiery-tressed
fiery-twinling
fiery-veined
fiery-visaged
fiery-wheeled
fiery-winged
fiesta de toros
fiesta flower
fiesta taurina
fiestas de toros
fiestas taurinas
fife rail
fife-rail
fifteen-pounder
fifth column
fifth columnist
fifth monarchy
fifth position
fifth venereal disease
fifth wheel
fig-shaped
fig-tree
fig-tree wax
fig-wort
figaro sauce
fige de froid
fight a delaying action
fight a duel
fight a holding action
fight against
fight fire with fire
fight for
fight hand-to-hand
fight it out
fight like devils
fight off
fight over
fight shy
fight shy of
fight the good fight
fight the good fight for
fight to the death
fight to the last ditch
fight tooth and nail
fight with
fight with windmills
fight your battles over again
fight your way
fight-off
fighter pilot
fighter-bomber
fighter-interceptor
fighting chair
fighting chance
fighting cock
fighting fish
fighting force
fighting machine
fighting mad
fighting man
fighting ship
fighting top
fighting weight
fights, the
figment of the imagination
figurate number
figurative language
figuratively speaking
figure caster
figure dance
figure dancer
figure eight
figure in
figure of comparison
figure of eight
figure of fun
figure of speech
figure on
figure out
figure skate
figure skater
figure skates
figure skating
figure stone
figure to yourself
figure up
figure work
figure-caster
figure-flinger
figure-four trap
figure-ground
figure-head
figure-of-eight knot
figured bass
figured glass
figured style
figures of
figures of speech
figuring in the mind
figwort family
filament battery
filament lamp
filamentary transistor
filbert brown
filbert mouse
file a claim
file and forget
file away
file band
file bottom
file card
file cleaner
file clerk
file closer
file cutter
file dresser
file dust
file finishing
file fire
file firing
file folder
file for
file forger
file grinder
file leader
file maker
file off
file setter
file sharpener
file signal
file snake
file suit for divorce
file tempering
file-fish
file-hard
file-soft
filet lace
filet mignon
filets mignons
fili-
filial generation
filial love
filiate to
filing box
filing card
filing case
filing clerk
filing system
filius nullius
filius populi
filix-mas
fill an office
fill and stand on
fill away
fill cap
fill horse
fill in
fill in for
fill out
fill the air
fill the bill
fill the measure of
fill the mind
fill time
fill to overflowing
fill to the brim
fill up
fill with doubt
fill you in
fill your pockets
fill your shoes
fill-belly
fill-dike
fill-in
fill-paunch
fill-space
fill-up
fille d'honneur
fille de chambre
fille de joie
filled gold
filled milk
filled out
filled to overflowing
filled-system thermometer
filler cap
filler vase
filler wall
filler-in
filler-out
filler-up
filles d'honneur
filles de chambre
filles de joie
fillet cross
fillet head
fillet steak
fillet weld
filletster plane
fill-
filling knitting
filling station
fillister head
fillister plane
fillister screwhead
filly tail
filly-folly
film base
film camera
film caption
film case
film clip
final solution
final stroke
final summons
final touch
final twitch
final warning
final whistle
final words
finance bill
finance capitalism
finance capitalist
finance company
finance corporation
financial assistance
financial backing
financial commitment
financial condition
financial credit
financial crisis
financial district
financial expert
financial interests
financial officer
financial remuneration
financial support
financial year
finback whale
finch falcon
finch-backed
find a clue to
find a husband for
find a loophole
find a mate for
find a phrase for
find a way
find a wife for
find against
find an indictment against
find an opening
find credence
find fault
find favor
find favor with
find for
find guilty
find hard to believe
find herself
find it hard going
find means
find out
find out about
find refuge
find sanctuary
find the answer
find the key of
find the key to
find the solution
find time
find vent
find words to express
find your
find your account in
find your advantage in
find your heart
find your position
find your tongue
find your way into
find yourself
find yourself at
finder switch
finder telescope
finder-point punch
finding list
finding out
finding store
finding-out
fine Italian hand
fine and dandy
fine art
fine art of living
fine arts
fine chemicals
fine distinction
fine feather
fine fettle
fine flavor
fine gentleman
fine hand
fine how-do-you-do
fine kettle of fish
fine lady
fine linen
fine nail
fine palate
fine point
fine print
fine print at the bottom
fine sewer
fine shape
fine structure
fine talk
fine texture
fine whack
fine writer
fine writing
fine-appearing
fine-ax
fine-bore
fine-bred
fine-count
fine-cut
fine-dividing
fine-draw
fine-drawer
fine-drawing
fine-drawn
fine-dressed
fine-drew
fine-eyed
fine-feathered
fine-featured
fine-feeling
fine-fleeced
fine-furred
fine-graded
fine-grain
fine-grained
fine-grainedness
fine-haired
fine-headed
fine-leaved
fine-leaved heath
fine-looking
fine-mouthed
fine-nosed
fine-set
fine-sifted
fine-skinned
fine-spirited
fine-spoken
fine-spun
fine-still
fine-tapering
fine-threaded
fine-timbered  
fine-toned  
fine-tongued  
fine-tooth  
fine-tooth comb  
fine-tooth-comb  
fine-toothcomb  
fine-toothed  
fine-toothed comb  
fine-tricked  
fine-wrought  
fineness of grain  
fineness ratio  
finer feelings  
finery furnace  
finery hearth  
fines herbes  
finger alphabet  
finger bar  
finger board  
finger bowl  
finger brush  
finger clamp  
finger coral  
finger cutting  
finger cymbals  
finger exercise  
finger fern  
finger food  
finger fracture  
finger gate  
finger gauge  
finger grass  
finger grip  
finger guard  
finger herb  
finger hole  
finger joint  
finger lake  
finger lime  
finger man  
finger mark  
finger nut  
finger of death  
finger or two  
finger paint  
finger painter  
finger painting
finger patch
finger pillory
finger plate
finger post
finger reading
finger ring
finger shell
finger sponge
finger steel
finger tight
finger wave
finger with
finger's breadth
finger's width
finger-ache
finger-and-toe
finger-comb
finger-comb grass
finger-cone
finger-cone pine
finger-cut
finger-end
finger-foxed
finger-marked
finger-paint
finger-pointing
finger-post
finger-shaped
finger-stall
finger-stone
fingers all thumbs
fingertip caress
fingertip coat
fingle-fangle
finis coronat opus
finish in front
finish off
finish up
finish-bore
finish-cut
finish-form
finish-grind
finish-machine
finish-mill
finish-plane
finish-ream
finish-shape
finish-stock
finish-stock change
finish-turn
finished up
finished version
finisher card
finishing change
finishing chisel
finishing nail
finishing school
finishing stove
finishing stroke
finishing tap
finishing touch
finite intersection property
finite number
finite verb
finite-dimensional
finitely additive function
fink out
finnan haddie
finnan haddock
finno-ugric
fippenny bit
fippenny piece
fipple flute
fipple pipe
fir apple
fir ball
fir balsam
fir club moss
fir cone
fir green
fir moss
fir needle
fir parrot
fir pine
fir rape
fir rope
fir wood
fir wool
fir-bordered
fir-built
fir-crested
fir-scented
fir-topped
fir-tree
fire a salute
fire a shot at
fire a volley
fire adjuster
fire alarm
fire altar
fire and brimstone
fire and fury
fire ant
fire apparatus
fire appliance
fire area
fire arrow
fire assay
fire at
fire away
fire balloon
fire bar
fire barrel
fire barrier
fire basket
fire bay
fire bean
fire beater
fire bed
fire beetle
fire bell
fire belt
fire bill
fire blast
fire blight
fire block
fire blower
fire bomb
fire boss
fire break
fire breather
fire bridge
fire brigade
fire bucket
fire buff
fire builder
fire bush
fire cage
fire chamber
fire cherry
fire chief
fire churn
fire clay
fire cock
fire command
fire commander
fire company
fire control
fire cross
fire curtain
fire cut
fire cutoff
fire dance
fire department
fire direction
fire division wall
fire door
fire drill
fire drilling
fire effect
fire engine
fire escape
fire exit
fire extinguisher
fire fan
fire festival
fire fiend
fire fight
fire fighter
fire fighting
fire finch
fire finder
fire flag
fire fungus
fire gilding
fire gilt
fire gilting
fire glass
fire gong
fire grass
fire grate
fire hangbird
fire hat
fire hazard
fire hearth
fire hook
fire hose
fire hydrant
fire inspector
fire insurance
fire iron
fire irons
fire kiln
fire ladder
fire lane
fire lily
fire line
fire loss
fire main
fire maker
fire making
fire mark
fire marshal
fire mist
fire net
fire of demolition
fire of genius
fire off
fire office
fire opal
fire pail
fire patrol
fire patrolman
fire pike
fire pink
fire pit
fire plant
fire point
fire police
fire polishing
fire pot
fire power
fire prevention
fire quencher
fire raft
fire raid
fire raiser
fire red
fire red toner
fire reel
fire resistance
fire retardant
fire retarder
fire risk
fire room
fire root
fire salamander
fire sale
fire salvage
fire sand
fire saw
fire scarlet
fire screen
fire set
fire setting
fire ship
fire shovel
fire shutter
fire slash
fire spirit
fire station
fire step
fire stick
fire stink
fire stop
fire storm
fire support
fire swab
fire tactics
fire temple
fire test
fire the blood
fire thorn
fire tongs
fire tower
fire tree
fire trench
fire tube
fire underwriter
fire up
fire upon
fire walk
fire walking
fire wall
fire warden
fire watcher
fire weather
fire window
fire worker
fire worship
fire worshiper
fire your imagination
fire-
fire-and-brimstone
fire-angry
fire-arm
fire-backed pheasant
fire-ball
fire-baptized
fire-bearing
fire-bellied
fire-bird
fire-boot
fire-born
fire-box
fire-brand
fire-breathing
fire-breeding
fire-burning
fire-burnt
fire-chaser
fire-clad
fire-cracked
fire-crested
fire-cross
fire-crowned
fire-cure
fire-cured
fire-curing
fire-damp
fire-darting
fire-detecting
fire-drake
fire-eater
fire-eating
fire-endurance
fire-endurance test
fire-engine
fire-exit bolt
fire-extinguisher
fire-extinguishing
fire-eyed
fire-fang
fire-flaught
fire-float
fire-flowing
fire-fly
fire-foaming
fire-footed
fire-free
fire-gilded
fire-god
fire-hardened
fire-hoofed
fire-hook
fire-hot
firm-framed
firm-jawed
firm-joint
firm-minded
firm-nerved
firm-paced
firm-planted
firm-rooted
firm-set
firm-sinewed
firm-textured
firm-written
firmament blue
firmer chisel
firmer gouge
firmly established
firmness of mind
firmness of spirit
firred plywood
first aid
first among equals
first and foremost
first and last
first appearance
first approach
first arrival
first axiom of countability
first base
first baseman
first blush
first blush of the morning
first brightening
first category
first cause
first choice
first class
first comer
first cousin
first crack
first crack out of the box
first derivative
first derived curve
first division
first draft
first edition
first estate
first family
first floor
first flush of the morning
first fruits
first glance
first hand
first harmonic
first impression
first inning
first intention
first lady
first lap
first law of motion
first law of thermodynamics
first lieutenant
first light
first line
first line of battle
first line of defense
first main track
first mate
first mortgage
first mortgage bond
first motion
first move
first name
first night
first of all
first off
first offender
first officer
first option
first or last
first order
first paper
first papers
first person
first philosophy
first place
first position
first post
first principle
first principles
first prize
first quarter
first rate
first reader
first reading
first refusal
first round
first school
first sergeant
first sight
first speed
first stage
first step
first steps
first stomach
first stone
first story
first string
first team
first thing
first tragedian
first violinist
first water
first-aid
first-aider
first-begot
first-begotten
first-born
first-bred
first-built
first-cause argument
first-chop
first-class
first-class mail
first-conceived
first-created
first-day
first-day cover
first-degree burn
first-done
first-endeavoring
first-expressed
first-famed
first-floor
first-foot
first-footer
first-formed
first-found
first-framed
first-fruit
first-gendered
first-generation
first-gotten
first-grown
first-hand
first-in
first-in first-out
first-invented
first-known
first-line
first-loved
first-made
first-mentioned
first-mining
first-mortgage
first-mortgage bond
first-name
first-named
first-night
first-nighter
first-order reaction
first-out
first-page
first-past-the-post
first-preferred
first-rate
first-rately
first-rateness
first-rater
first-ripe
first-run
first-seen
first-strike capacity
first-string
first-told
first-written
fiscal agent
fiscal period
fiscal year
fise dog
fish and chips
fish ball
fish beam
fish begonia
fish belly
fish blanket
fish boom
fish bowl
fish breeder
fish breeding
fish cake
fish carrier
fish carver
fish checker
fish coop
fish crane
fish crow
fish culture
fish davit
fish day
fish dinner
fish doctor
fish duck
fish eagle
fish eggs
fish essence
fish eye
fish factory
fish flake
fish flour
fish fly
fish for
fish for compliments
fish fork
fish fry
fish fungus
fish geranium
fish globe
fish glue
fish grass
fish guano
fish hatcher
fish hatchery
fish hawk
fish in troubled waters
fish inspector
fish joint
fish kettle
fish killer
fish knife
fish ladder
fish lead
fish louse
fish manure
fish maw
fish meal
fish mint
fish mold
fish moth
fish net
fish oil
fish or cut bait
fish out
fish out of water
fish owl
fish pearl
fish pendant
fish plank
fish poison
fish pole
fish pomace
fish salt
fish scale
fish scrap
fish slice
fish soup
fish splice
fish stick
fish story
fish tackle
fish tail
fish tape
fish tapeworm
fish to fry
fish tongue
fish torpedo
fish up
fish warden
fish wheel
fish wire
fish young
fish-and-chip shop
fish-and-chips
fish-backed
fish-bellied
fish-belly rail
fish-blooded
fish-canning
fish-cultural
fish-culturist
fish-day
fish-eating
fish-eating bird
fish-eye lens
fish-eyed
fish-fag
fish-fed
fish-feeding
fish-flaking
fish-gig
fish-god
fish-goddess
fish-hatching
fish-hook
fish-producing
fish-scale
fish-scaling
fish-selling
fish-shaped
fish-skin
fish-slitting
fish-tail
fishbone thistle
fishbone tree
fisher-cat
fisherman's bend
fisherman's reef
fisherman's ring
fisherman's staysail
fisherman's sweater
fishery salt
fisheye lens
fishhook cactus
fishhook money
fishing banks
fishing boat
fishing breeze
fishing cat
fishing club
fishing craft
fishing dory
fishing duck
fishing expedition
fishing fleet
fishing float
fishing gear
fishing ground
fishing hook
fishing license
fishing line
fishing net
fishing pole
fishing question
fishing reel
fishing rod
fishing schooner
fishing smack
fishing spear
fishing tackle
fishing vessel
fishing worm
fishskin disease
fishtail bit
fishtail burner
fishtail cutter
fishtail down
fishtail drapery
fishtail landing
fishtail palm
fishtail wind
fishtail-shaped
fishy transaction
fissi-
fission alga
fission bomb
fission fungus
fission particles
fission products
fission reaction
fission reactor
fission-fusion bomb
fissionable material
fissure of Rolando
fissure of Sylvius
fissure vein
fist hatchet
fist law
fist mate
fistulous withers
fit and fine
fit as a fiddle
fit for
fit for a gourmet
fit for a king
fit for sea
fit for society
fit for the dust hole
fit for the junk yard
fit for the wastepaper basket
fit in
fit of abstraction
fit of anger
fit of crying
fit of laughter
fit of temper
fit out
fit plant
fit strip
fit the pattern
fit to be tied
fit to bust
fit to kill
fit to live in
fit together
fit up
fitchy at the foot
fitful sleep
fitness for society
fits and starts
fitted coat
fitted for
fitted out
fitted sheet
fittie-lan
fitting change
fitting out
fitting room
fitting strip
five C's
five W's
five all
five and twenty
five back
five bucks
five cents
five centuries
five dollars
five hundred
five hundred dollars
five hundred rummy
five percenter
five rayed
five senses
five spice powder
five stones
five-acre
five-act
five-and-dime
five-and-ten
five-and-ten-cent store
five-barred
five-barred gate
five-beaded
five-branched
five-by-five
five-card
five-chambered
five-corn
five-cornered
five-corners
five-cut
five-day
five-day fever
five-day week
five-dollar bill
five-dollar gold piece
five-eighth
five-em space
five-faced bishop
five-figure
five-finger
five-fingered
five-fingers
five-flowered
five-foiled
five-foot
five-gaited
five-guinea
five-horned
five-hour
five-hundred-dollar bill
five-inch
five-leaf
five-leafed
five-leaved
five-legged
five-line
five-lined
five-lobed
five-master
five-mile
five-minute
five-minute gun
five-nerved
five-nine
five-o'clock shadow
five-o'clock tea
five-page
five-part
five-part time
five-parted
five-percenter
five-ply
five-pointed
five-pointed star
five-pound
five-quart
five-rater
five-reel
five-reeler
five-ribbed
five-room
five-shooter
five-sisters
five-spot
five-spotted
five-star
five-star general
five-story
five-stringed
five-toed
five-toothed
five-twenty
five-valved
five-volume
five-week
five-year
five-year plan
fivepenny morris
fix a limit
fix in the memory
fix in the mind
fix on
fix the blame for
fix the burden of
fix the date
fix the eyes upon
fix the mind on
fix the mind upon
fix the paternity of
fix the price of
fix the responsibility for
fix the thoughts on
fix the thoughts upon
fix the time
fix to
fix together
fix up
fix upon
fix your attention
fix your gaze
fix your position
fix your thoughts
fix-it shop
fixation abscess
fixation neurosis
fixation pause
fixation point
fixative varnish
fixed and flashing light
fixed arch
fixed asset
fixed assets
fixed belief
fixed capital
fixed charge
fixed charges
fixed cost
fixed costs
fixed feast
fixed idea
fixed in the mind
fixed investment trust
fixed liability
fixed light
fixed mind
fixed oil
fixed opinion
fixed point
fixed price
fixed purpose
fixed regard
fixed resolve
fixed satellite
fixed star
fixed stars
fixed station
fixed trust
fixed upon
fixed-bar
fixed-do
fixed-do system
fixed-focus camera
fixed-head coup
fixed-head coupe
fixed-hub
fixed-hub axle
fixed-income
fixed-point representation
fixed-temperature
fixed-wing aircraft
fixing bath
fixity of purpose
fizz out
fizzle out
fl dr
fl oz
flabby-cheeked
flabelli-
flag captain
flag day
flag down
flag fall
flag flower
flag halyard
flag hoister
flag lieutenant
flag list
flag of convenience
flag of truce
flag officer
flag post
flag rank
flag salute
flag seat
flag signal
flag smut
flag station
flag stop
flag waver
flag waving
flag-bearer
flag-bedizened
flag-man
flag-officer
flag-root
flag-ship
flag-staff
flag-stone
flag-waver
flag-waving
flagellate yourself
flageolet tone
flagging iron
flagon-shaped
flagrant falsehood
flagrant delicto
flail at
flail away at
flail joint
flak jacket
flak ship
flak suit
flak train
flak vest
flake figure
flake manna
flake off
flake out
flake stand
flake tragacanth
flake white
flaked-out
flaky pastry
flambor flamb
flame azalea
flame blue
flame bridge
flame cell
flame color
flame cultivator
flame gun
flame holder
flame ignition
flame lamp
flame lily
flame lousewort
flame manometer
flame microphone
flame nettle
flame out
flame projector
flame reaction
flame red
flame scarlet
flame spectrum
flame standard
flame stitch
flame test
flame tetra
flame thrower
flame trap
flame tree
flame up
flame vine
flame-breasted
flame-breathing
flame-colored
flame-colour
flame-cut
flame-darting
flame-devoted
flame-eyed
flame-faced
flame-feathered
flame-fusion process
flame-haired
flame-of-the-forest
flame-of-the-woods
flame-out
flame-red
flame-robed
flame-shaped
flame-snorting
flame-sparkling
flame-thrower
flame-tight
flame-tipped
flame-tree
flame-uplifted
flame-winged
flames-of-the-woods
flaming torch
flamingo flower
flamingo-flower
flammable material
flan ring
flange bushing
flange coupling
flange joint
flange nut
flange plate
flange pulley
flange rail
flange steel
flange tile
flange union
flank attack
flank company
flank defense
flank file
flank fire
flank guard
flank march
flank movement
flank patrol
flank speed
flank steak
flanker back
flanking angle
flannel cake
flannel flower
flannel moth
flannel plant
flannelmouth catfish
flannelmouth sucker
flap door
flap hinge
flap the memory
flap tile
flap valve
flap-dragon
flap-eared
flapper dock
flapper skate
flapper-bag
flapping angle
flare light
flare out
flare path
flare rocket
flare star
flare up
flare-out
flare-up
flare-up light
flash across one's mind
flash across the mind
flash back
flash boiler
flash bulb
flash burn
flash butt welding
flash camera
flash card
flash color
flash fire
flash flood
flash gear
flash generator
flash gun
flash in the pan
flash lamp
flash method
flash of light
flash of lightning
flash of wit
flash on the mind
flash pasteurization
flash photography
flash photolysis
flash picture
flash pipe
flash point
flash powder
flash price
flash set
flash spectrum
flash synchronizer
flash test
flash tube
flash up
flash upon one
flash valve
flash welding
flash wheel
flash-board
flash-house
flash-lock
flash-man
flash-pasteurize
flashed brick
flashed glass
flashing block
flashing light
flashing point
flashover voltage
flask-shaped
flask-shaped heart
flat aft
flat and unprofitable
flat arch
flat as a billiard table
flat as a board
flat as a bowling green
flat as a cake
flat as a flounder
flat as a pancake
flat as a tennis court
flat back
flat broke
flat bug
flat calm
flat cap
flat coat
flat contradiction
flat country
flat drill
flat failure
flat fish
flat foot
flat glass
flat in
flat key
flat knit
flat knitting
flat knot
flat market
flat on your back
flat on your belly
flat on your nose
flat out
flat palm
flat pass
flat point lace
flat press
flat race
flat racing
flat rate
flat refusal
flat roof
flat sage
flat sennit
flat silver
flat sour
flat spin
flat tire
flat wash
flat-armed
flat-backed
flat-beaked
flat-bed
flat-bed cylinder press
flat-bed press
flat-billed
flat-boat
flat-bosomed
flat-bottom
flat-bottomed
flat-breasted
flat-browed
flat-cap
flat-cheeked
flat-chested
flat-coated retriever
flat-compound
flat-crowned
flat-decked
flat-ended
flat-faced
flat-floored
flat-fold
flat-foot
flat-footed
flat-footedly
flat-footedness
flat-fronted
flat-grained
flat-handled
flat-hat
flat-hatted
flat-hatter
flat-hatting
flat-head
flat-headed
flat-heeled
flat-hoofed
flat-horned
flat-iron
flat-joint pointing
flat-knit
flat-minded
flat-mouthed
flat-nose
flat-nosed
flat-out
flat-out speed
flat-packed
flat-plate keel
flat-plate printing
flat-ribbed
flat-ring
- flat-ring armature
- flat-roofed
- flat-saw
- flat-sawed
- flat-sawing
- flat-sawn
- flat-shouldered
- flat-sided
- flat-slab construction
- flat-soled
- flat-sour
- flat-toothed
- flat-top
- flat-topped
- flat-turret lathe
- flat-visaged
- flat-waisted
- flat-ways
- flat-woven
- flatbed cylinder press
- flatbed press
- flathead cat
- flathead catfish
- flatheaded apple tree borer
- flatheaded borer
- flattail mullet
- flatten in
- flatten out
- flatten yourself
- flattened-strand rope
- flattening oven
- flattening stone
- flatter the palate
- flatter yourself
- flatter-blind
- flattering remark
- flattering tongue
- flatting furnace
- flatting mill
- flatting oil
- flattop antenna
- flauitous melancholia
- flatwork ironer
- flavo-
- flavor control
- flavoring extract
- flaw in an argument
- flax bellflower
flax blue
flax brake
flax buncher
flax bundler
flax canker
flax comb
flax dodder
flax dresser
flax family
flax hackler
flax lily
flax olive
flax plant
flax retter
flax ripple
flax rust
flax snapdragon
flax spinner
flax star
flax straw
flax vine
flax wheel
flax wilt
flax winder
flax-colored
flax-flower blue
flax-leaved
flax-polled
flax-seed
flax-sick
flaxen-colored
flaxen-haired
flaxen-headed
flaxen-wigged
flaxseed cake
flaxseed coal
flaxseed oil
flea beetle
flea bug
flea collar
flea fair
flea hopper
flea in the ear
flea in your ear
flea in your nose
flea louse
flea market
flea mint
flea weevil
flea-bane
flea-bite
flea-bitten
flea-lugged
fleabane mullet
fleam tooth
fleche de lard
flector tuning
fleece vine
fleece wool
fleece-lined
fleece-vine
fleece-white
fleecy cloud
fleecy-looking
fleecy-white
fleecy-winged
fleer at
fleet admiral
fleet engineer
fleet insurance
fleet milk
fleet street
fleet submarine
fleet-foot
fleet-footed
fleeting impulse
french-gut
flesh and blood
flesh color
flesh crow
flesh eater
flesh flea
flesh fly
flesh fork
flesh glove
flesh hoop
flesh ocher
flesh out
flesh pink
flesh red
flesh show
flesh side
flesh tint
flesh tone
flesh worm
flesh wound
flesh-bearing
flesh-color
flesh-colored
flesh-colour
flesh-consuming
flesh-devouring
flesh-eater
flesh-eating
flesh-fallen
flesh-fly
flesh-pink
flesh-pot
fleshing knife
fleshly delight
fleshly lust
fleshly-minded
fleshpots of Egypt
fleshy fruit
fleshy-fruited
fleur de luce
fleur de lys
fleur-de-lis
fleur-de-lys
fleurs-de-lis
fleurs-de-lys
fleury counterfleury
flex point
flex wing
flex your muscles
flexible shaft
flexible supports
flexible-shaft drill
flexuoso-
flexure plate scale
flick knife
flick of the eyelash
flick you on the raw
flicker of an eye
flicker photometer
flicker photometry
flickering flame
flickering light
flier-out
flight arrow
flight attendant
flight bag
flight control
flight crew
flight deck
flight engineer
flight feather
flight feathers
flight formation
flight indicator
flight instrument
flight leader
flight lieutenant
flight line
flight muscle
flight nurse
flight of fancy
flight of ideas
flight of steps
flight of time
flight of wit
flight officer
flight operation
flight path
flight path angle
flight pay
flight plan
flight reaction
flight recorder
flight shooter
flight shooting
flight simulator
flight song
flight status
flight strip
flight surgeon
flight test
flight tester
flight training
flight-shooting
flight-shot
flight-test
flightless bird
flim-flam
flimflam man
flincher-mouse
flinders grass
fling at
fling down
fling down the gage
fling down the gauntlet
fling down the glove
fling off
fling out
flinging-tree
flint age
flint and steel
flint clay
flint corn
flint glass
flint gray
flint mill
flint miller
flint milling
flint paper
flint paring
flint skinning
flint sponge
flint wheat
flint-dried
flint-glass
flint-lock
flip a coin
flip chart
flip glass
flip of a coin
flip of the coin
flip out
flip side
flip side, the
flip through
flip through the pages
flip your lid
flip your wig
flip-flap
flip-flop
flip-flop circuit
flip-flopped
flip-flopping
flip-flops
flip-up
flipper turns
flipperty-flopperty
flippity-flop
flirt with
flirt with death
flirt with the idea
flirt-gill
flirtation-proof
flirting with death
floating battery
floating bridge
floating capital
floating charge
floating debt
floating dock
floating dry dock
floating drydock
floating fescue
floating foundation
floating foxtail
floating gang
floating grass
floating heart
floating hotel
floating inspector
floating island
floating light
floating manna grass
floating mine
floating palace
floating partition
floating point
floating policy
floating rib
floating screed
floating soap
floating stage
floating stock
floating supply
floating vote
floating-point representation
flocculent precipitate
flock book
flock dot
flock duck
flock mating
flock paper
flock pigeon
flock to
flock together
flock-meal
floe rat
flog a dead horse
flog yourself
flogging chisel
flogging hammer
flood anchor
flood control
flood dam
flood fallowing
flood insurance
flood lamp
flood main ballast
flood negative
flood of light
flood of tears
flood plain
flood pounds in after trim
flood the market
flood the market with
flood the tank
flood the tanks
flood tide
flood with light
flood-gate
flood-hatch
flood-tide
floodable length
flooded with light
floodlight projector
floor arch
floor beam
floor board
floor boarding
floor broker
floor chisel
floor clamp
floor cleaner
floor cleaning
floor covering
floor dresser
floor dressing
floor enamel
floor finish
floor furnace
floor hanger
floor joist
floor knob
floor lamp
floor leader
floor line
floor manager
floor mat
floor model
floor mop
flop-top
flora and fauna
floral clock
floral decoration
floral decorator
floral emblem
floral envelope
floral leaf
flores sulphuris
flori-
florid passage
florid phrase
florid style
flory counter-flory
flos ferri
flos-ferri
floss silk
floss hole
floss silk
floss thread
floss-silk
floss-silk tree
flossflower blue
flotation blanket
flotation cell
flotation gear
flotsam and jetsam
flounce off
flounce out
flounder-man
flour bag
flour barrel
flour beetle
flour bin
flour blend
flour blender
flour blending
flour bolt
flour bolter
flour bolting
flour copper
flour corn
flour grinder
flour hopper
flour maker
flour mill
flour milling
flour mite
flour mixer
flour moth
flour packer
flour paste
flour sack
flour sifter
flour sifting
flour slick
flour weevil
flour weigher
flour worm
flourish of rhetoric
flourish of trumpets
flourishing condition
flourishing thread
flow back
flow bean
flow breccia
flow calorimeter
flow chart
flow cleavage
flow control
flow diagram
flow from
flow gate
flow in
flow moss
flow nipple
flow of air
flow of blood
flow of ideas
flow of thought
flow of time
flow of words
flow on
flow out
flow over
flow sheet
flow texture
flow together
flow valve
flow-blue
flow-control system
flow-on
flowage texture
flower arrangement
flower basket
flower-enwoven
flower-faced
flower-gentle
flower-growing
flower-hung
flower-infolding
flower-inwoven
flower-kirtled
flower-of-Jove
flower-of-an-hour
flower-pecker
flower-pot
flower-scented
flower-shaped
flower-sprinkled
flower-strewn
flower-sucking
flower-sweet
flower-teeming
flowering currant
flowering dogwood
flowering flax
flowering maple
flowering moss
flowering plant
flowering quince
flowering raspberry
flowering rush
flowering spurge
flowering time
flowering tobacco
flowering wintergreen
flowering-rush family
flowers of rhetoric
flowers of speech
flowers of sulfur
flowers of zinc
flowers-of-Jove
flowery language
flowery style
flowery-kirtled
flowery-mantled
flowing locks
flowing periods
flowing stream
flowing tongue
flowing toward
flowing tresses
flowing-robbed
flucti-
fluctuation-proof
flue bridge
flue cleaner
flue pipe
flue plate
flue stop
flue stopper
flue surface
flue-cure
flue-cured
flue-curing
fluent tongue
fluff your lines
fluff-gib
fluffy-haired
fluffy-minded
fluid assets
fluid clutch
fluid compression
fluid coupling
fluid die
fluid drachm
fluid dram
fluid drive
fluid dynamics
fluid extract
fluid flywheel
fluid friction
fluid mechanics
fluid motion
fluid movement
fluid operations
fluid ounce
fluid pressure
fluid-compressed
flump down
flunk out
fluo-
fluoboric acid
fluophosphoric acid
fluor spar
fluor-
fluor-spar
fluorescence microscope
fluorescent lamp
fluorescent light
fluorescent lighting
fluorescent paint
fluorescent tube
fluoric acid
fluorine dating
fluorite green
fluorite violet
fluoro-
fluorocarbon plastic
fluorophosphoric acid
fluosilicic acid
flush box
flush coat
flush deck
flush girt
flush of money
flush out
flush rim
flush tank
flush with money
flush-bound
flush-cut
flush-deck vessel
flush-decked
flush-decked vessel
flush-decker
flush-head rivet
flush-headed
flush-jointed
flush-plate filter
flush-plated
flushed with anger
flushed with joy
flushed with pride
flushed with success
flushed with victory
flushing out
flushing rim
flute glass
flute shrike
flute stop
flute-douce
flute-shaped
fluting iron
flutter kick
flutter the dovecotes
flutter tonguing
flutter valve
flutter wheel
flutter-headed
fluttering the eyelids
fluvio-aeolian
flux and reflux
flux de bouche
flux de mots
flux de paroles
flux density
flux function
flux gate
flux linkage
flux of time
flux of words
flux turn
flux valve
fluxing lime
fly a kite
fly about
fly agaric
fly aloft
fly anchor
fly apart
fly ash
fly at
fly back
fly ball
fly bar
fly blind
fly blister
fly block
fly book
fly by the seat of your pants
fly cap
fly casting
fly cop
fly dope
fly down
fly drill
fly finisher
fly finishing
fly fishing
fly floor
fly frame
fly front
fly fungus
fly gallery
fly governor
fly half
fly high
fly honeysuckle
fly in formation
fly in the face of
fly in the face of facts
fly in the face of reason
fly in the face of the law
fly in the ointment
fly in the teeth of
fly into a passion
fly into a rage
fly into a temper
fly into the face of danger
fly left seat
fly line
fly loft
fly low
fly mold
fly mushroom
fly net
fly nut
fly oat
fly off
fly off at a tangent
fly off the handle
fly on instruments
fly open
fly orchid
fly out
fly page
fly phalanger
fly poison
fly powder
fly press
fly rail
fly right seat
fly rod
fly rollway
fly rope
fly sheet
fly snapper
fly spray
fly spring
fly stone
fly storm warnings
fly swatter
fly tent
fly the beam
fly the coop
fly tick
fly tip
fly title
fly to
fly to the assistance of
fly to the sword
fly up
fly wagon
fly water
fly way
fly weevil
fly whisk
fly-away
fly-bane
fly-bitten
fly-blow
fly-blown
fly-boat
fly-boy
fly-by-night
fly-catcher
fly-catching
fly-catching warbler
fly-dung
fly-fish
fly-fisher
fly-fisherman
fly-fishing
fly-flap
fly-free
fly-killing
fly-leaf
fly-net
fly-past
fly-rail
fly-sheet
fly-specked
fly-spleckled
fly-strike
fly-stuck
fly-swarmed
fly-up
fly-wheel
fly-yrap
flyaway grass
flying banana
flying bathtub
flying bedspring
flying bedstead
flying boat
flying bomb
flying bond
flying boxcar
flying bridge
flying buttress
flying cadet
flying circus
flying classroom
flying colors
flying colours
flying column
flying crow's nest
flying deck
flying doctor
flying dragon
flying dutchman
flying field
flying fish
flying flame
flying fortress
flying fox
flying frog
flying gangway
flying gurnard
flying horses
flying jib
flying jib boom
flying jib guy
flying jib martingale
flying jib stay
flying jump
flying kite
flying kites
flying lemur
flying lessons
flying lizard
flying machine
flying mare
flying marmot
flying moor
flying motorcycle
flying mouse
flying nightingale
flying officer
focal point
focal ratio
focal-plane shutter
focus lamp
focus of attention
focus of interest
focus on
focus the attention
focus the mind on
focus the thoughts on
focus tube
focus upon
focus your thoughts
focusing cloth
focusing glass
foe-encompassed
foe-reaped
foe-subduing
foeti-
fog alarm
fog bank
fog bell
fog belt
fog buoy
fog circle
fog drip
fog forest
fog gong
fog grass
fog gun
fog lamp
fog level
fog light
fog screen
fog signal
fog up
fog whistle
fog-bank
fog-beset
fog-blue
fog-born
fog-bred
fog-hidden
fog-logged
fog-ridden
fog-signal
foie de veau
foie gras
folk carol
folk custom
folk dance
folk dancing
folk dialect
folk drama
folk ethics
folk etymology
folk guitarist
folk hero
folk lay
folk literature
folk medicine
folk melody
folk memory
folk mind
folk motif
folk music
folk myth
folk nation
folk play
folk poetry
folk psychologist
folk psychology
folk rock
folk school
folk singer
folk singing
folk society
folk song
folk songs
folk speech
folk state
folk story
folk tale
folk theater
folk tune
folk weave
folk-dancer
folk-etymological
folk-lore
folk-music festival
folk-rock
folk-rock singer
folk-sing
follicle mite
follicle-stimulating hormone
follow a clew
follow a clue
follow a course
follow a trade
follow advice
follow after
follow as a matter of course
follow as an occupation
follow at heel
follow block
follow board
follow close upon
follow dies
follow from
follow implicitly
follow in a series
follow in the footsteps of
follow in the footsteps of
follow in the steps of
follow in the trail of
follow in the wake of
follow in your footsteps
follow like sheep
follow on
follow on the heels of
follow out
follow peace with all men
follow protocol
follow rest
follow shot
follow strong drink
follow suit
follow the
follow the beam
follow the beaten path
follow the book
follow the crowd
follow the example of
follow the fashion
follow the hounds
follow the lead of
follow the leader
follow the party line
follow the rule
follow the rules
follow the scent of
follow the sea
follow the spoor of
follow the straight and narrow
food cabinet
food canal
food card
food cart
food chain
food chemist
food color
food container
food cycle
food faddist
food fish
food for powder
food for thought
food for worms
food freezing
food grain
food grower
food inspector
food items
food of the gods
food package
food packer
food plant
food poisoning
food preservative
food reserve
food shop
food store
food supply
food tax
food tube
food value
food waste
food web
food yolk
food-gathering
food-processing
food-producing
food-productive
food-providing
food-sick
food-size
fool around
fool around with
fool away
fool away time
fool duck
fool hay
fool hen
fool mistake
fool notion
fool plow
fool trick
fool with
fool's cap
fool's coat
fool's errand
fool's gold
fool's paradise
fool's parsley
fool's trick
fool's-cap
fool's-parsley
fool-bold
fool-born
fool-frequented
fool-frighting
fool-happy
fool-hasty
fool-headed
fool-heady
fool-large
fool-proof
fooling around
foolish act
foolish guillemot
foolish thing
foolish-bold
foolish-looking
foolish-wise
foolish-witty
foolscap octavo
foolscap quarto
foot accelerator
foot at
foot base
foot bath
foot bellows
foot bone
foot brake
foot by foot
foot candle
foot carpet
foot correctionist
foot cushion
foot dangle
foot dirt
foot doctor
foot drop
foot fault
foot for foot
foot front
foot guard
foot iron
foot it
foot jaw
foot level
foot lever
foot lift
foot line
foot mange
foot mantle
foot match
foot measure
foot page
foot pan
foot passenger
foot pavement
foot post
foot pump
foot race
foot racer
foot racing
foot rail
foot road
foot rot
foot rule
foot scab
foot score
foot scraper
foot screw
foot soldier
foot specialist
foot stove
foot the bill
foot tour
foot track
foot trail
foot traveler
foot tubercle
foot up
foot valve
foot waling
foot walker
foot warmer
foot washing
foot-acted
foot-and-mouth disease
foot-binding
foot-breadth
foot-candle
foot-candle meter
foot-cloth
foot-dragger
foot-dragging
foot-faring
foot-firm
foot-free
foot-grain
foot-grain per second
foot-guard
foot-hook
foot-hot
foot-lambert
foot-lame
foot-length
foot-licking
foot-loose
foot-mantle
foot-mark
foot-note
foot-pale
foot-payh
foot-pound
foot-pound-second
foot-poundal
foot-power
foot-running
foot-second
foot-slog
foot-sore
foot-tiring
foot-ton
foot-up
foot-wall
foot-weary
football field
football pools
football season
footed arrow
foothill death camas
foothill pine
foothill yellow pine
footing ale
footing beam
footing it
footing piece
footing stone
footloose and fancy-free
footman moth
footmen's gallery
footplate man
footstep bearing
footwear merchant
for FC
for God's sake
for a certainty
for a consideration
for a coon's age
for a dog's age
for a fact
for a lifetime
for a little while
for a long time
for a mere song
for a moment
for a month of Sundays
for a rainy day
for a season
for a short time
for a song
for a time
for a wonder
for ages
for ages of ages
for all me
for all practical purposes
for all that
for all the world
for all the world like
for all time
for all to see
for all you are worth
for all you know
for all your natural life
for always
for amusement
for an age
for and
for anything you knows
for aught one cares
for aught one knows
for aye
for better or for worse
for certain
for crying out loud
for dear life
for donkey's years
for each
for effect
for ever
for ever and ever
for ever so long
for evermore
for example
for fear of
for fear that
for fete
for foehn
for form's sake
for free
for fun
for good
for good and all
for good measure
for goodness sake
for heaven's sake
for hire
for instance
for it
for keeps
for kicks
for lack of something better
for lagniappe
for laughs
for life
for long
for love
for many a long day
for mercy's sake
for money
for my part
for nickels and dimes
for no other ears
for nothing
for others
for pennies
for practical purposes
for why
for years on end
for your benefit
for your ears only
for your health
for your life
for your money
for your part
for yourself
for-
forage acre
forage cap
forage grass
forage poisoning
forage press
foraging ant
foramen magnum
foramen ovale
forasmuch as
forbid it Heaven
forbidden fruit
forbidden love
forbidding countenance
force attack
force bed
force by
force feed
force feeding
force fit
force from
force function
force in
force into a mold
force main
force majeure
force of arms
force of friction
force of gravity
force of habit
force of inertia
force of life
force of viscosity
force on
force open
force out
force out of place
force play
force polygon
force pump
force to the wall
force upon
force your hand
force your thoughts from
force your way
force-closed
force-fed
force-feed
force-feeding
force-meat
force-out
force-pump
force-put
force-ripe
forced coding
forced draft
forced landing
forced march
forced marriage
forced resignation
forced sale
forced separation
forced-labor camp
forceps-shaped
forces majeures
forces of nature
forcible feeble
forcible removal
forcible seizure
forcible shift
forcible-feeble
forcing bed
forcing bid
forcing engine
forcing fit
forcing house
forcing on
forcing out
forcing pit
forcing system
forcing-pump
fore and aft
fore bow
fore edge
fore gaff-topsail
fore jack
fore lift
fore part
dore plane
fore rent
fore rider
fore sey
fore tooth
fore topgallant sail
fore wing
fore-
dore-adapt
dore-age
dore-alleged
dore-and-aft
dore-and-aft axis
dore-and-aft rig
dore-and-aft rigged
dore-and-aft sail
dore-and-aft schooner
dore-and-aft tackle
dore-and-aft-rigged
dore-and-after
dore-appoint
dore-axle
dore-being
dore-cabin
dore-check
dore-cited
dore-court
dore-dated
dore-deck
dore-edge
dore-edge painting
dore-elder
dore-elders
dore-end
dore-exercise
dore-foot
dore-game
dore-glide
dore-gut
dore-hammer
dore-handed
dore-hearth
dore-judge
dore-lie
dore-mean
dore-mention
dore-notice
fore-top\textsuperscript{s}ail yard
fore-trys\textsuperscript{a}il gaff
fore-trys\textsuperscript{a}il peak halyard
fore-trys\textsuperscript{a}il vang
fore-u\textsuperscript{a}rd
fore-vouched
fore-w\textsuperscript{a}ind
fore-wit
forearm smash
forecastle deck
forecastle hand
forecastle hatch
forecastle head
forecastle netting
forecastle rail
forecastle scuttle
forecastle watch
fo\textsuperscript{a}redoomed hope
fo\textsuperscript{a}rgone\textsuperscript{e} conclusion
fo\textsuperscript{a}rground detail
fo\textsuperscript{a}r\textsuperscript{e}hand shaft
fo\textsuperscript{a}r\textsuperscript{e}hand shooting
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n accent
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n affairs
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n aid
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n bill
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n body
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n correspondent
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n devil
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n element
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n exchange
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n influx
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n intruder
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n intrusion
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n legion
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n loan
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n minister
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n ministry
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n mission
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n money
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n office
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n policy
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n secretary
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n securities
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n service
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n service officer
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n threat
fo\textsuperscript{a}r\textsuperscript{i}\textsuperscript{e}n-aid
foreign-appearing
foreign-born
foreign-bred
foreign-built
foreign-flag
foreign-language dictionary
foreign-language study
foreign-looking
foreign-made
foreign-manned
foreign-owned
foreign-speaking
forelock hook
foreman of the jury
forenoon watch
forensic address
forensic chemistry
forensic jurisprudence
forensic medicine
forensic psychiatry
foreroyal backstay
foreroyal brace
foreroyal lift
foreroyal mast
foreroyal shroud
foreroyal stay
foreroyal studding sail
foreroyal yard
foreroyal-studding-sail boom
forest conservation
forest court
forest cover
forest dweller
forest fire
forest fire fighter
forest floor
forest fly
forest god
forest gods
forest green
forest gum
forest horse
forest keeper
forest land
forest mahogany
forest management
forest oak
forest officer
forest peat
forest pig
forest preserve
forest pygmy
forest ranger
forest red gum
forest reserve
forest school
forest sheriff
forest spirit
forest tent caterpillar
forest tupelo
forest type
forest warden
forest white
forest-belted
forest-born
forest-bosomed
forest-bound
forest-bred
forest-clad
forest-covered
forest-crowned
forest-dwelling
forest-felling
forest-frowning
forest-grown
forest-rustling
forever and a day
forever and aye
forfeit your good opinion
forge ahead
forge blower
forge furnace
forge furnaceman
forge hammerman
forge pressman
forge roller
forge shearer
forge slinger
forge smith
forge water
forge welding
forgery bond
forgery-proof
forget about it
forget it
forget nothing
forget the odds
forget to remember
forget your own name
forget your place
forget yourself
forget-me-not
forget-me-not blue
forgetful of self
forgetting nothing
forging press
forgive and forget
fork beam
fork cross
fork cutler
fork forger
fork grinder
fork hafter
fork lightning
fork luncheon
fork maker
fork molder
fork out
fork over
fork splitter
fork truck
fork-carving
fork-end
fork-filled
fork-head
fork-lift truck
fork-pronged
fork-ribbed
fork-shaped
fork-tail
fork-tailed
fork-tined
fork-tongued
forked chain
forked lightning
forked tongue
forked-headed
forked-tailed
forklift truck
forlorn hope
forlorn of
form a conviction
form a line
form a mental picture of
form a part of
form a series
form a unity
form a whole
form an estimate
form an opinion
form board
form class
form drag
form factor
form four
form fours
form genus
form ideas
form letter
form master
form of address
form of government
form of service
form of speech
form of worship
form quotient
form species
form squares
form stop
form the foundation of
form word
form-
form-establishing
form-fitting
form-function unit
form-giving
form-giving cause
form-relieve
form-revealing
formal agreement
formal cause
formal clothes
formal contract
formal contrast
formal dress
formal fallacy
formal language
formal logic
formal observance
formal speech
formal visit
formal written language
formatio reticularis
formation flying
formative element
formed of
former times
formic acid
formic aldehyde
formidable defenses
forming a part of
forming die
forming press
forming punch
formless darkness
formo-
formolite number
formolite reaction
forms of
forms of divination
formulated belief
formyl group
formyl radical
forsake the world
forsaking of the world
forswear speaking
forswear speech
forswear violence
forswear yourself
fort royal
forte-piano
fortes fortuna juvat
forth of
forth putting
fortification agate
fortified flour
fortified milk
fortified tunnel
fortified wine
fortunate outcome
fortune cookie
fortune hunter
fortune's child
fortune's favor
fortune's favorite
fortune's fool
fortune-hunter
fortune-hunting
fortune-tell
fortune-teller
fortune-telling
forty hours
forty machine
forty ways from Sunday
forty winks
forty-acre
forty-eight
forty-eighth
forty-eightmo
forty-eightmos
forty-fifth
forty-first
forty-five
forty-foot
forty-four
forty-fourth
forty-knot
forty-legged
forty-mile
forty-nine
forty-niner
forty-ninth
forty-one
forty-pound
forty-second
forty-seven
forty-seventh
forty-six
forty-sixth
forty-skewer
forty-spot
forty-third
forty-three
forty-ton
forty-two
forty-year
forward bias
forward bridge
forward deck
forward delivery
forward echelon
forward exchange
forward look
forward motion
forward observer
forward pass
forward quotation
forward roll
forward transfer resistance
forward-bearing
forward-creeping
forward-flowing
forward-looking
forward-pressing
forward-turned
forwarding agent
fossil copal
fossil footprint
fossil fuel
fossil gum
fossil ivory
fossil man
fossil mud crack
fossil oil
fossil ore
fossil print
fossil resin
fossil resins
fossil sea water
fossil turquoise
fossil wax
fossil word
foster a belief
foster an idea
foster babe
foster brother
foster care
foster child
foster dam
foster daughter
foster father
foster home
foster in the mind
foster land
foster milk
foster mother
foster nurse
foster parent
foster sire
foster sister
foster son
foster the hope
foster-brother
foster-child
foster-father
foster-mother
foster-nurse
foster-sister
foster-son
foul anchor
foul ball
foul breath
foul invective
foul language
foul line
foul matter
foul odor
foul out
foul play
foul pole
foul shot
foul the anchor
foul tip
foul up
foul weather
foul wind
foul your own nest
foul-breathed
foul-browed
foul-faced
foul-handed
foul-looking
foul-minded
foul-mindedness
foul-mouthed
foul-reeking
foul-smelling
foul-spoken
foul-tasting
foul-tongued
foul-up
foul-weather suit
fouled anchor
fouled up
fouled-up
found object
found on
found wanting
foundation course
foundation cream
foundation garment
foundation plate
foundation stone
foundation stop
founded on
founded upon a rock
founder's type
founders' shares
founders' type
founding father
foundling hospital
foundry facing
foundry iron
foundry press
foundry proof
foundry scrap
foundry type
fountain grass
fountain moss
fountain of youth
fountain pen
fountain plant
fountain runner
fountain shell
fountain syringe
fountain tree
four and twenty
four bits
four corners of the earth
four flush
four freedoms
four horsemen
four hundred
four o’ clock
four o’cat
four o’clock
four of a kind
four old cat
four questions
four-a-cat
four-acre
four-bagger
four-ball
four-ball match
four-bit
four-bottom plow
four-cant
four-cent
four-centered
four-centered arch
four-channel stereo system
four-color
four-color press
four-color problem
four-color process
four-colored
four-colour
four-cornered
four-coupled
four-cutter
four-cycle
four-cylinder
four-cylindrical
four-day
four-deal bridge
four-deck
four-decked
four-decker
four-dimensional
four-dimensional geometry
four-dimensional space
four-dimensioned
four-dollar
four-edged
four-em space
four-eyed
four-eyed fish
four-eyed opossum
four-eyes
four-faced
four-figured
four-fingered
four-flowered
four-flush
four-flusher
four-flushing
four-foot
four-foot octave
four-foot stop
four-footed
four-footed butterfly
four-footer
four-four time
four-gallon
four-grain
four-gram
four-gun
four-hand
four-handed
four-hander
four-headed
four-horned
four-horse
four-horsed
four-hour
four-hours
four-hundred-day clock
four-in-hand
four-in-hand coach
four-in-hand etc
four-in-hand tie
four-inch
four-leaf
four-leaf clover
four-leaved
four-leaved
four-leaved grass
four-legged
four-letter
four-letter word
four-lettered
four-line
four-line octave
four-lined
four-lobed
four-masted
four-masted bark
four-masted brig
four-master
four-minute
four-minute man
four-month
four-o’clock
four-oar
four-oared
four-o'clock
four-o'clock family
four-ounce
four-part
four-part diaphony
four-part flask
four-part harmony
four-part time
four-percenter
four-phase
four-place
four-ply
four-post
four-posted
four-poster
four-poster bed
four-pound
four-quarter
four-rayed
four-ring
four-roomed
four-ruled
four-rowed
four-rowed barley
four-second
four-shilling
four-sided
four-spined
four-spot
four-spotted
four-square
four-star general
four-storied
four-story
four-stranded
four-stringed
four-striped
four-striper
four-stroke
four-stroke cycle engine
four-stroke-cycle
four-tailed bandage
four-three-two-one rule
four-time
four-times-accented
four-tined
four-toed
four-toes
four-ton
four-tooth
four-up etc
four-way
four-way cock
four-way switch
four-week
four-wheel
four-wheel drive
four-wheeled
four-wheeler
four-winged
four-yard
four-year
four-year college
four-year-old
four-year-older
fourfold block
fourfold purchase
fourfold tackle
fourier series
fourpence hapenny
fourscore and ten
fourth class
fourth dimension
fourth estate
fourth of july
fourth part
fourth person
fourth position
fourth stomach
fourth wall
fourth-born
fourth-class
fourth-class mail
fourth-dimensional
fourth-form
fourth-hand
fourth-rate
fourth-rateness
fourth-rater
fourth-year
fovea centralis
fowl cherry
fowl cholera
fowl grass
fowl leukemia
fowl leukosis
fowl meadow grass
fowl mite
fowl paralysis
fowl part
fowl pest
fowl pox
fowl spirochaetosis
fowl spirochetosis
fowl tick
fowl typhoid
fowling piece
fowling-piece
fowls of the air
fox and geese
fox bat
fox bolt
fox brush
fox docken
fox dog
fox fire
fox geranium
fox goose
fox grape
fox grass
fox hair
fox hunt
fox hunter
fox hunting
fox key
fox lathe
fox light
fox moth
fox plum
fox poison
fox rose
fox shark
fox snake
fox sparrow
fox squirrel
fox terrier
fox trot
fox wedge
fox wolf
fox-colored
fox-faced
fox-fire
fox-flove
fox-fur
fox-furred
fox-hunt
fox-hunting
fox-like
fox-nosed
fox-skinned
fox-trot
fox-trotted
fox-trotting
fox-visaged
foxglove beardtongue
foxtail cactus
foxtail grass
foxtail lily
foxtail millet
foxtail pine
foxtail saw
foxtail wedge
foxtail wedging
foxtail-leaves
fps units
fra diavolo
fractional currency
fractional distillation
fractional lot
fractional note
fractional-pitch
fractocumulus cloud
fracture one
fragile health
fragmentation bomb
fragmentation grenade
fragrance control
fragrant as new-mown hay
fragrant sumac
fragrant weed
fraid-cat
fraidy-cat
frail health
frail humanity
frail sister
frail-bodied
frame aerial
frame assembler
frame bar
frame bend
frame boat
frame brazer
frame breaker
frame breaking
frame bridge
frame builder
frame building
frame cleaner
frame construction
frame cottage
frame dam
frame door
frame doubler
frame dresser
frame driller
frame dwelling
frame finisher
frame fitter
frame gate
frame house
frame line
frame lumber
frame maker
frame making
frame molding
frame of mind
frame of reference
frame plate
frame saw
frame sawyer
frame set
frame space
frame structure
frame stud
frame timber
frame trestle
frame turner
frame up
frame vise
frame wall
frame worker
frame-house
frame-made
frame-up
frame-work
frames of reference
framing chisel
framing number
framing square
framing table
fran tireur
franc-archer
franc-tireur
franchise clause
franchise tax
franco-
frances-archers
francs-tireurs
frangible booster
frangula emodin
frank almonage
frank chase
frank-almoign
frank-faced
frank-fee
frank-ferm
frank-law
frank-marriage
frank-pledge
frank-spoken
frank-tenement
frankfurt sausage
frankincense pine
franklin stove
frater house
fraternal feeling
fraternal insurance
fraternal order
fraternal society
fraternal twin
fraternal twins
fraternity house
fraternity man
fraternize with
fraud order
fraudulent voter
fraught with danger
fraught with doom
fraught with significance
frayed nerves
frazzled nerves
freak accident
freak of nature
freak out
freak out on
freak show
freak-out
freaked out
freaked-out
freakish inspiration
freckle-faced
freckled-faced
fred-stole
free abstraction
free abstractionist
free admission
free agent
free air
free alongside ship
free alongside vessel
free alternating current
free and clear
free and common socage
free and easy
free as a bird
free as air
free as the wind
free ascent
free association
free association test
free atmosphere
free balloon
free ballooning
free bench
free bid
free capital
free choice
free church
free churchman
free citizen
free city
free coinage
free companion
free company
free competition
free cost
free course
free decision
free delivery
free diver
free diving
free economy
free electron
free electron theory of metals
free energy
free enterprise
free enthalpy
free expansion
free expressionism
free expressionist
free fall
free flight
free for nothing
free for the asking
free form
free from
free gift
free giver
free gold
free goods
free gratis
free gratis for nothing
free hand
free house
free kick
free labour
free lance
free list
free liver
free living
free love
free lover
free lunch
free milling
free morpheme
free nation
free of
free of charge
free of cost
free of expense
free on board
free on rail
free pass
free person
free perspective
free play
free port
free press
free radical
free reach
free reaching
free ride
free rider
free school
free scope
free silver
free silverism
free silverite
free socage
free soi
free soil
free speech
free spirit
free state
free thought
free throw
free throw line
free ticket
free time
free trade
free trade area
free trader
free translation
free up
free variable
free variation
free verse
free vote
free will
free with your money
free world
free yourself
free yourself from
free zone
free-acting
free-air ionization chamber
free-armed
free-associate
free-associated
free-associating
free-banking
free-bestowed
free-blown
free-board
free-boot
free-bored
free-born
free-bred
free-burning
free-denizen
free-enterprise
free-enterprise economy
free-enterprise system
free-falling
free-floating
free-floating anxiety
free-flowering
free-flowing
free-footed
free-for-all
free-form
free-going
free-grown
free-hand
free-handed
free-handedly
free-handedness
free-hearted
free-lance
free-lance worker
free-lance writer
free-lancer
free-liver
free-living
free-lovism
free-machining
free-minded
free-mindedly
free-mindedness
free-mouthed
free-moving
free-quarter
free-quarterer
free-range
free-reed
free-rider
free-select
free-silver
free-soil
free-soiler
free-soilism
free-space aerial
free-speaking
free-spending
free-spirited
free-spoken
free-spokenly
free-spokenness
free-standing
free-stone
free-swimmer
free-swimming
free-tailed
free-thinker
free-throw
free-tongued
free-trade
free-trader
free-trading
free-tradist
free-versifier
free-willed
free-willer
free-working
freeboard deck
freeboard length
freedom abused
freedom fighter
freedom from fear
freedom from illusion
freedom from want
freedom from war
freedom of speech
freedom of speech and expression
freedom of the city
freedom of the press
freedom of the seas
freedom of worship
freedom ride
freedom rider
freehand drawing
freeing port
freewill baptist
freewill offering
freeze on
freeze out
freeze over
freeze solid
freeze the blood
freeze to
freeze to death
freeze your balls off
freeze-dried
freeze-dry
freeze-drying
freeze-out
freeze-up
freezer burn
freezer locker
freezer ship
freezing cold
freezing drizzle
freezing machine
freezing mixture
freezing point
freezing process
freezing rain
freezing weather
freezing wind
freezing works
freight agent
freight bill
freight boat
freight broker
freight canvasser
freight car
freight clerk
freight conductor
freight density
freight elevator
freight engine
freight forwarder
freight handler
freight house
freight insurance
freight locomotive
freight mileage
freight note
freight rate
freight receipt
freight room
freight shed
freight steamer
freight tariff
freight ton
freight traffic
freight train
freight transport
freight truck
freight vessel
freight wagon
freight with
freight-mile
freighted with doom
freighted with significance
french bulldog
french chalk
french chop
french crown
french door
french dressing
french endive
french fry
french heel
french horn
french leave
french pastry
french polish
french telephone
french toast
french window
french-like
frenzy of desire
frenzy of lust
frequency band
frequency changer
frequency control
frequency converter
frequency curve
frequency distribution
frequency divider
frequency doubler
frequency histogram
frequency indicator
frequency meter
frequency modulation
frequency multiplier
frequency polygon
frequency recorder
frequency relay
frequency spectrum
frequency swing
frequency width
frequency-modulated
frequent as a customer
fresco painting
fresco secco
fresh air
fresh as April
fresh as a daisy
fresh as a rose
fresh as the morning dew
fresh breeze
fresh foods
fresh gale
fresh start
fresh up
fresh water
fresh wind
fresh-baked
fresh-boiled
fresh-caught
fresh-cleaned
fresh-coined
fresh-colored
fresh-complexioned
fresh-cooked
fresh-cropped
fresh-cut
fresh-drawn
fresh-faced
fresh-fallen
fresh-killed
fresh-laid
fresh-leaved
fresh-looking
fresh-made
fresh-painted
fresh-picked
fresh-run
fresh-slaughtered
fresh-washed
fresh-water
fresh-water drum
fresh-water nymph
fresh-water sailor
fresh-watered
freshen the air
freshen up
freshman week
freshman year
freshwater drum
freshwater lake
freshwater stay
fresno scraper
fret and fume
fret at
fret saw
fret-sawing
friar rush
friar skate
friar's balsam
friar's chair
friar's lantern
fribble away
friction ball
friction band
friction belt
friction block
friction board
friction brake
friction breccia
friction clamp
friction clutch
friction composition
friction cone
friction disk
friction drill
friction drive
friction electricity
friction factor
friction fremitus
friction fuse
friction gear
friction gearing
friction glazing
friction head
friction horsepower
friction layer
friction loss
friction machine
friction match
friction pile
friction powder
friction primer
friction pulley
friction ring
friction roller
friction rub
friction saw
friction slip
friction socket
friction sound
friction tape
friction test
friction top
friction tube
friction washer
friction wheel
friction-head
friction-saw
friction-sawed
friction-sawing
friction-sawn
friction-tight
frictional electricity
frictional resistance
frictional rustling
fried eggs
fried rice
friend at court
friend in court
friend in need
friend indeed
friend of the court
friend of your bosom
friendly chat
friendly relations
friendly society
friendly talk
friendly with
friends with
frieze board
frieze coat
frieze rail
frieze-coated
frigate bird
frigate mackerel
frigate pelican
frigate-built
fright disease
fright neurosis
frighten from your propriety
frighten off
frighten out of your senses
frighten out of your wits
frightened out of your wits
frightening off
frightful bore
frightfully rich
frigid purgatorial fires
frigid zone
frill shark
frill-bark
frill-barking
frill-like
frilled lizard
frills and furbelows
fringe area
fringe benefit
fringe benefits
fringe bush
fringe cup
fringe moss
fringe tree
fringe-bell
fringe-toed lizard
fringe-tree bark
fringed brome
fringed galax
fringed gentian
fringed orchis
fringing forest
fringing reef
frise aileron
frit fly
frit-fly
frith-guild
frith-stool
fritter away
fritter away time
fritto misto
frivol away
frivolity-proof
frizzle disease
frizzle fowl
frock coat
frock-coat
frog boot
frog cheese
frog clock
frog crab
frog fly
frog grass
frog hair
frog kick
frog legs
frog lily
frog number
frog pad
frog plant
frog shell
frog spawn
frog spit
frog spittle
frog's-bit
frog-belly
frog-bit
frog-eyed
frog-fish
frog-march
frog-mouth
frog-spawn
frogbit family
from A to Z
from A to izzard
from Dan to Beersheba
from Missouri
from afar
from age to age
from all points of the compass
from all quarters
from away back
from bad to worse
from beginning to end
from better to worse
from clew to earing
from cover to cover
from day to day
from door to door
from egg to apples
from end to end
from everlasting to everlasting
from every quarter
from everywhere
from first to last
from force of habit
from habit
from hand to hand
from hand to mouth
from head to foot
from hell to breakfast
from here in
from here on
from here out
from here to eternity
from here to the back of beyond
from his own mouth
from home
from hour to hour
from information received
from interested motives
from me to you
from memory
from necessity
from notice given
from now on
from now on in
from now till doomsday
from on high
from out in left field
from pillar to post
from pole to pole
from rags to riches
from scratch
from selfish motives
from side to side
from soup to nuts
from stem to stern
from that cause
from that time
from the beginning
from the bottom of your heart
from the cradle to the grave
from the first
from the foundations
from the four winds
from the ground up
from the heart
from the horse's mouth
from the housetops
from the lips of
from the rolls
from the sticks
from the womb to the tomb
from the word 'go'
from then on
from this moment on
from this point
from this time
from this time forward
from time immemorial
from time out of mind
from time to time
from top to bottom
from top to toe
from what cause
from what you can gather
from your angle
from your book
from your heart
from your standpoint
from your viewpoint
fromage a la pie
fromage blanc
front a front
front bench
front court
front crawl
front door
front elevation
front foot
front for
front line
front man
front matter
front money
front of house
front office
front ofice
front on
front page
front position
front rank
front room
front runner
front scene
front view
front window
front-connected
front-fanged
front-focus
front-focused
front-foot
front-page
front-paged
front-paging
front-porch campaign
front-rank
front-ranker
front-runner
front-wheel
frontal assault
frontal attack
frontal bone
frontal convolution
frontal cyclone
frontal gyrus
frontal lobe
frontier post
frontiers of knowledge
fronto-
frost bearer
frost blow
frost feathers
frost flowers
frost grape
frost gray
frost heave
frost heaving
frost insurance
frost lamp
frost line
frost mist
frost over
frost plant
frost point
frost ring
frost signal
frost smoke
frost snipe
frost snow
frost valve
frost-beaded
frost-bit
frost-bite
frost-bitten
frost-blite
frost-bound
frost-burnt
frost-chequered
frost-concocted
frost-congealed
frost-covered
frost-crack
frost-fettered
frost-firmed
frost-free
frost-hardy
frost-hoar
frost-kibed
frost-nip
frost-nipped
frost-pure
frost-rent
frost-ridge
frost-riven
frost-tempered
frost-work
frosted glass
frosted heart
frosted lens
frosted shake
frostweed aster
frosty green
frosty mildew
frosty-face
frosty-faced
frosty-mannered
frosty-natured
frosty-spirited
frosty-whiskered
froth at the mouth
froth flotation
froth fly
froth hopper
froth insect
froth spit
froth worm
froth-becurled
froth-born
froth-clad
froth-faced
froth-foamy
frothing at the mouth
frou-frou
frown at
frown down
frown upon
frowned-upon behavior
frowns of fortune
frowzy-headed
frozen assets
frozen custard
frozen daiquiri
frozen dessert
frozen fog
frozen food
frozen foods
frozen in
frozen music
frozen out
frozen pudding
frozen solid
frozen to death
frozen water
frozen-food locker
fructose intolerance
frugal to excess
fruit acid
fruit bar
fruit bark beetle
fruit barrel
fruit basket
fruit bat
fruit bearing
fruit belt
fruit blight
fruit blossom
fruit body
fruit bowl
fruit bud
fruit bug
fruit bush
fruit buyer
fruit cake
fruit can
fruit cane
fruit canner
fruit canning
fruit chafer
fruit cocktail
fruit compote
fruit crate
fruit crow
fruit culture
fruit cup
fruit dealer
fruit dish
fruit dot
fruit eater
fruit envelope
fruit ether
fruit evaporator
fruit farm
fruit farmer
fruit farming
fruit flavor
fruit fly
fruit garden
fruit grader
fruit jar
fruit jelly
fruit juice
fruit knife
fruit loft
fruit machine
fruit package
fruit packer
fruit packing
fruit peddler
fruit peel
fruit picker
fruit picking
fruit pigeon
fruit pit
fruit pitter
fruit preservative
fruit preserver
fruit pudding
fruit raiser
fruit raising
fruit ranch
fruit rot
fruit salad
fruit seller
fruit set
fruit shipper
fruit shop
fruit show
fruit sirup
fruit slicer
fruit sorter
fruit soup
fruit spot
fruit sprayer
fruit spur
fruit stall
fruit stand
fruit strainer
fruit sugar
fruit tart
fruit tree
fruit vendor
fruit vinegar
fruit wood
fruit-bringing
fruit-candying
fruit-drying
fruit-eating
fruit-eating bird
fruit-evaporating
fruit-grower
fruit-growing
fruit-paring
fruit-producing
fruit-tree bark beetle
fruit-tree leaf roller
fruiting body
fruits and vegetables
frustum of a pyramid
fry cook
fry-cooker
fry-pan
frying pan
frying-pan
ft-lb
ft-pdl
fu-yang
fuchsia purple
fuchsia red
fuchsia tree
fuchsia-flowered
fuck about
fuck up
fuddle-brained
fuddling cup
fuddling glass
fuddy-duddies
fuddy-duddiness
fuddy-duddy
fudge edge
fudge in
fudge together
fudge up
fudge wheel
fuel additive
fuel cell
fuel dope
fuel element
fuel engineer
fuel engineering
fuel filter
fuel injection
fuel injector
fuel oil
fuel quantity indicator
fuel ship
fuel up
fuel-flow meter
fugae warrant
fugie warrant
fugue form
fugue state
fulfill a short sale
fulfill your duty
fulfill your military obligation
fulfill your role
fulgurant pain
full age
full and by
full authority
full beard
full binding
full blast
full blood
full bloom
full board
full bottom
full bridle
full circle
full color
full consent
full cousin
full denture
full development
full dress
full feather
full fig
full flavor
full force
full frame
full gainer
full gallop
full growth
full hand
full house
full length
full linear group
full load
full lot
full many
full many a time
full many a time and oft
full meal
full measure
full moon
full mouthed
full name
full nelson
full of
full of Dutch courage
full of beans
full of business
full of enthusiasm
full of fight
full of go
full of hate
full of hatred
full of holes
full of hope
full of incident
full of integrity
full of life
full of life and vigor
full of meaning
full of mischief
full of pep
full of piss and vinegar
full of point
full of promise
full of remorse
full of risk
full of sound and fury
full of substance
full of sweet days and roses
full of yourself
full particulars
full permission
full pitch
full power
full powered
full pratique
full professor
full purse
full radiator
full rhyme
full sail
full scope
full score
full sentence
full shot
full size
full skirt
full speed
full speed ahead
full speed astern
full stop
full sun
full swing
full term
full tide
full tilt
full time
full to bursting
full toss
full trailer
full twist
full vowel
full wine
full word
full-accomplished
full-acorned
full-adjusted
full-annealing
full-armed
full-assembled
full-assured
full-attended
full-banked
full-beaming
full-bearded
full-bearing
full-bellied
full-blood
full-blooded
full-bloodedness
full-bloomed
full-blossomed
full-blow
full-bodied
full-bodied flavor
full-boled
full-bore
full-born
full-bosomed
full-bottom
full-bottomed
full-bound
full-bowed
full-brained
full-breasted
full-brimmed
full-buckramed
full-built
full-busted
full-buttocked
full-cell
full-celled
full-centered
full-charge
full-charged
full-cheeked
full-chested
full-chilled
full-clustered
full-colored
full-crammed
full-cream
full-crew
full-crown
full-cut
full-depth
full-diamond
full-diesel
full-digested
full-distended
full-draught
full-drawn
full-dress
full-dress suit
full-dress uniform
full-dressed
full-dug
full-eared
full-edged
full-exerted
full-extended
full-eyed
full-faced
full-fashionable
full-fashionable stockings
full-fatted
full-feathered
full-fed
full-feed
full-feeding
full-felled
full-fidelity speaker
full-figured
full-finished
full-fired
full-flanked
full-flavored
full-fledged
full-fleshed
full-floating
full-flocked
full-flowering
full-flowing
full-foliaged
full-form
full-formed
full-fortuned
full-fraught
full-freight
full-freighted
full-frontal
full-fronted
full-fruitied
full-glowing
full-gorged
full-grown
full-haired
full-hand
full-handed
full-happnessed
full-hard
full-haunched
full-headed
full-hearted
full-hipped
full-hot
full-jeweled
full-jointed
full-known
full-laden
full-leather
full-leaved
full-length
full-leveled
full-licensed
full-limbed
full-lined
full-lipped
full-load
full-made
full-manned
full-measured
full-minded
full-moon
full-moon maple
full-mouthed
full-mouthedly
full-natured
full-necked
full-nerved
full-opening
full-orbed
full-out
full-page
full-paid
full-panoplied
full-paunched
full-personed
full-pitch
full-pitch winding
full-plumed
full-power
full-powered
full-proportioned
full-pulsing
full-rayed
full-resounding
full-rigged
full-rigged ship
full-rigger
full-ripe
full-ripened
full-roed
full-run
full-sailed
full-scale
full-scantling vessel
full-sensed
full-sharer
full-shouldered
full-shrouded
full-size
full-sized
full-skirted
full-souled
full-speed
full-sphered
full-spread
full-stage
full-statured
full-stomached
full-strained
full-streamed
full-strength
full-stuffed
full-summed
full-swelling
full-term
full-throated
full-tide
full-time
full-time worker
full-timed
full-timer
full-to-full
full-toned
full-top
full-trimmed
full-tuned
full-turn stair
full-tushed
full-udder
full-value
full-voiced
full-volumed
full-wave
full-wave rectification
full-wave rectifier
full-wave rectifier tube
full-way
full-weight
full-weighted
full-whiskered
full-winged
full-witted
fuller's earth
fuller's teasel
fullering tool
fulling mill
fulling stock
fullness of time
fully developed
fully fashioned
fully fledged
fully realized
fulminate against
fulminating compound
fulminating mercury
fulminating powder
fulminic acid
fulvous tree duck
fumaric acid
fumble-fist
fume chamber
fume cupboard
fumed oak
fumes of fancy
fuming nitric acid
fuming sulfuric acid
fuming sulphuric acid
fumitory family
fun and games
fun fair
fun house
fun-fair
fun-filled
fun-loving
fun-seeking
function as
function class
function shift
function space
function word
functional analysis
functional calculus
functional design
functional disease
functional furniture
functional group
functional housing
functional illiteracy
functional illiterate
functional load
functional nervous disorder
functional psychology
functional psychosis
functional representation
functional shift
functional yield
functionally illiterate
functions of
fund-raising dinner
fundamental bass
fundamental colors
fundamental frequency
fundamental idea
fundamental law
fundamental note
fundamental particle
fundamental sequence
fundamental theorem of algebra
fundamental theorem of calculus
fundamental tone
fundamental unit
funded debt
funding system
funeral car
funeral chapel
funeral church
funeral coach
funeral customs
funeral director
funeral establishment
funeral home
funeral march
funeral oration
funeral parlor
funeral parlour
funeral pile
funeral procession
funeral pyre
funeral ring
funeral rites
funeral sermon
funeral service
funeral song
funeral urn
funeral vessel
funerary customs
funerary urn
funerary vessel
fungi-
fungiform papillae
fungo bat
fungus body
fungus bug
fungus disease
fungus gall
fungus gnat
fungus stone
fungus tinder
fungus-covered
fungus-digesting
fungus-proof
funicular railway
funk hole
funk out
funky chicken
funnel breast
funnel chest
funnel cloud
funnel maker
funnel setter
funnel tube
funnel twister
funnel-breasted
funnel-chested
funnel-fashioned
funnel-formed
funnel-necked
funnel-shaped
funnel-web
funny bone
funny business
funny car
funny farm
funny feeling
funny paper
funny story
funny thing
fur bearer
fur beater
fur blocker
fur blower
fur breeder
fur brigade
fur brusher
fur buyer
fur coat
fur farm
fur farmer
fur farming
fur lining
fur salon
fur seal
fur tanner
fur trader
fur trapper
fur trapping
fur trimming
fur-bearing
fur-capped
fur-clad
fur-coated
fur-collared
fur-cuffed
fur-gowned
fur-lined
fur-lined coat
fur-touched
fur-trimmed
fur-trimmed coat
furbish up
furious rabies
furious rage
furious-faced
furl in a body
furor uterinus
furr-ahin
furring brick
furring strip
furrow drain
furrow drainage
furrow drainage
furrow irrigation
furrow pan
furrow weed
furrow-cloven
furrow-faced
furrow-fronted
furry creatures
further education
further look
further yourself
fury of desire
fury of lust
fury-driven
fury-haunted
fury-moving
furze lark
furze wren
furze-clad
fusarium wilt
fusco-
fusco-ferruginous
fusco-piceous
fusco-testaceous
fuse block
fuse box
fuse gauge
fuse link
fuse metal
fused quartz
fused silica
fusel oil
fus-
fusible alloy
fusible metal
fusing disk
fusion bomb
fusion point
fusion reaction
fusion reactor
fusion welding
fuss and feathers
gable window
gable-bottom
gable-bottom car
gable-end
gable-ended
gable-roofed
gable-shaped
gable-walled
gable-windowed
gaboon mahogany
gad about
gad so
gad-bee
gad-fly
gadget bag
gaff sail
gaff topsail
gaff-headed sail
gaff-rigged
gaff-topsail
gaff-topsail catfish
gaff-topsail pompano
gag law
gag on
gag order
gag press
gag rein
gag resolution
gag rule
gag runner
gag swivel
gag writer
gag-bit
gag-check
gag-reined
gag-tooth
gaga over
gage green
gage of battle
gain a footing
gain a good knowledge of
gain a hearing
gain a hold upon
gain a thorough knowledge of
gain admittance
gain altitude
gain by
gain command of
gain entree
gain ground
gain influence
gain knowledge
gain knowledge of
gain on
gain over
gain recognition
gain sharing
gain strength
gain the ascendancy
gain the confidence of
gain the day
gain the friendship of
gain the upper hand
gain the whip hand
gain time
gain to windward of
gain understanding of
gain upon
gain weight
gain your end
gain your ends
gain your liberty
gain-
gain-giving
gaining altitude
gaining head
gaining machine
gaining twist
gaited horse
gaiter tree
gaiter-in
gal Friday
gala affair
gala day
galact-
galactic circle
galactic cluster
galactic coordinates
galactic distance
galactic equator
galactic latitude
galactic longitude
galactic nebula
galactic noise
galactic plane
galactic pole
galactic poles
galactic space
galacto-
galam butter
galanga root
galanty show
gale day
gale warning
gale-driven
galena glaze
gales of laughter
galimeta wood
gall and wormwood
gall bag
gall bladder
gall cyst
gall duct
gall fig
gall gnat
gall midge
gall mite
gall oak
gall passage
gall pipe
gall sickness
gall sickness bush
gall wasp
gall wind
gall-fly
gall-less
gall-like
gall-nut
gall-stone
galla ox
gallant soldier
gallantry under fire
gallery forest
gallery gods
gallery organ
gallery road
galleta grass
galley chase
galley foist
galley halfpenny
galley press
galley proof
galley punt
galley slave
gamben bass
gamble away
gamble on
gamble with
gambling chance
gambling debt
gambling den
gambling device
gambling hall
gambling hell
gambling house
gambling odds
gambling table
gambling wheel
gambo goose
gambo hemp
gamboge yellow
gambrel roof
gambrel stick
gambrel-roofed
game act
game bag
game beast
game bird
game cart
game chips
game debt
game dog
game farmer
game fish
game fowl
game hawk
game hunter
game hunting
game law
game laws
game loser
game of chance
game of skill
game pie
game plan
game point
game preserve
game refuge
game reserve
game room
game sanctuary
game season
game shooting
game theory
game to the backbone
game to the end
game to the last
game warden
game-cock
game-destroying
game-fowl
game-law
gamelan orchestra
games all
games master
games mistress
games of chance
games theory
games-player
gamet-
gameto-
gaming contract
gaming house
gaming room
gaming table
gaming-proof
gamma acid
gamma decay
gamma distribution
gamma function
gamma globulin
gamma infinity
gamma iron
gamma moth
gamma nasal
gamma radiation
gamma radiator
gamma ray
gamma ray counter
gamma rays
gammon iron
gammon-faced
gammon-visaged
gamo-
gander month
gander pull
gandy dancer
gang along
gang around
gang cask
gang center
gang cultivator
gang drill
gang edger
gang hook
gang mill
gang plough
gang plow
gang press
gang punch
gang saw
gang sawyer
gang switch
gang tool
gang tooth
gang up
gang up on
gang up with
gang war
gang warfare
gang week
gang-board
gang-cask
gang-days
gang-flower
gang-plank
gang-week
ganging plea
gangle-shanked
gangl-
ganglion cell
ganglion crest
ganglionic blocking agent
gangway board
gangway ladder
gannet paper
gantry crane
gantry scaffold
gaol delivery
gap lathe
gap-frame press
gap-toothed
gape for
gape-gaze
gape-seed
gaping chasm
gaping depths
gapped scale
gar pike
gar-pike
garab tree
garage sale
garam masala
garand rifle
garb willow
garbage barrel
garbage burner
garbage can
garbage cart
garbage collector
garbage conveyer
garbage destructor
garbage digestor
garbage drier
garbage dump
garbage grease
garbage incinerator
garbage man
garbage pail
garbage plant
garbage reducer
garbage tank
garbage tankage
garbage truck
garbage wagon
garbage accounts
garboard plank
garboard strake
garbutt rod
garde du corps
garde-collet
garde-du-corps
garde-feu
garde-feux
garde-manger
garde-reins
garden apartment
garden balm
garden balsam
garden bond
garden bugloss
garden burnet
garden buttercup
garden camomile
garden cart
garden catchfly
garden celandine
garden centre
garden chafer
garden chair
garden cicely
garden city
garden columbine
garden cress
garden culture
garden cypress
garden egg
garden flea
garden flea hopper
garden fly honeysuckle
garden frame
garden garth
garden geranium
garden ginger
garden glass
garden heliotrope
garden hoe
garden hose
garden house
garden huckleberry
garden hyssop
garden lemon
garden mint
garden mold
garden nasturtium
garden nightshade
garden of the Gods
garden of the Hesperides
garden orach
garden orpine
garden party
garden path
garden patience
garden pepper
garden pepper cress
garden peppergrass
garden persicary
garden phlox
garden pink
garden plague
garden plow
garden poppy
garden portulaca
garden purslane
garden rocket

garden roller

garden sage

garden sauce

garden sculpture

garden seat

garden snail

garden sorrel

garden spade

garden speedwell

garden spider

garden spot

garden spurge

garden suburb

garden syringa

garden tickseed

garden trowel

garden truck

garden valerian

garden variety

garden verbena

garden violet

garden wall

garden warbler

garden webworm

garden white

garden-gate

garden-house

garden-seated

garden-variety

garden-wall bond

gardener bird

gardenwall bond

gardes du corps

garez la foi

gare-fowl

garget plant

garget root

garland chrysanthemum

garland crab

garland crab apple

garland flower

garland larkspur

garlic bread

garlic butter

garlic germander

garlic mustard

garlic oil
garlic pear
garlic powder
garlic sage
garlic salt
garlic shrub
garlic tree
garment center
garment maker
garment making
garment parts
garment presser
garner of facts and fancies
garnier up
garnet brown
garnet hinge
garnet jade
garnet lac
garnet paper
garnet-breasted
garnet-colored
garnet-red
garnish bolt
garnisher order
garrison cap
garrison finish
garrison flag
garrison house
garrison prisoner
garrison rations
garrison school
garrison state
garter belt
garter blue
garter snake
garter stitch
garter stockings
garter-blue
garth cress
gas analyzer
gas attack
gas bacillus
gas balloon
gas battery
gas bender
gas black
gas bladder
gas bomb
gas buoy
gas burner
gas cap
gas carbon
gas cell
gas chamber
gas chromatography
gas coal
gas coke
gas company
gas concrete
gas conduction
gas constant
gas counter
gas cutting
gas detector
gas disease
gas electrode
gas engine
gas engineer
gas engineering
gas equation
gas explosion
gas field
gas filler
gas fitter
gas fitting
gas fittings
gas fixture
gas focusing
gas furnace
gas gangrene
gas generator
gas grenade
gas harmonicon
gas heat
gas heater
gas heating
gas helmet
gas jet
gas lamp
gas law
gas laws
gas lighter
gas lime
gas liquor
gas log
gas machine
gas main
gas mantle
gas mask
gas meter
gas motor
gas oil
gas oven
gas phlegmon
gas phototube
gas pipe
gas plant
gas plate
gas pliers
gas poker
gas polarization
gas producer
gas propulsion
gas range
gas refrigeration
gas refrigerator
gas ring
gas sand
gas separator
gas shaft
gas shell
gas spectrum
gas spurts
gas station
gas stove
gas tank
gas tap
gas tar
gas thermometer
gas thread
gas trap
gas tube
gas turbine
gas turbine engine
gas turbine jet engine
gas up
gas vent
gas warfare
gas washer
gas water
gas welder
gas welding
gas well
gas zone
gas-absorbing
gas-bag
gas-burning
gas-charged
gas-check
gas-cooled reactor
gas-delivering
gas-discharge lamp
gas-driven
gas-electric
gas-filled
gas-filled tube
gas-fired
gas-fitter
gas-fitting
gas-heat
gas-heated
gas-laden
gas-lampy
gas-light
gas-liquid chromatography
gas-operated
gas-oxygen
gas-plant
gas-producing
gas-propelled
gas-resisting
gas-retort
gas-shaft hood
gas-testing
gaseous envelope
gaseous environment
gaseous medium
gaseous nebula
gaseous state
gash vein
gash-gabbit
gaslight paper
gasoline engine
gasoline gas
gasoline lantern
gasoline locomotive
gasoline propulsion
gasoline shovel
gasoline stove
gasoline tax
gasoline truck
gasoline-electric
gasoline-propelled
gather into barns
gather knowledge
gather learning
gather materials
gather to yourself
gather together
gather up
gather way
gather your thoughts
gathered to his fathers
gathering clouds
gathering coal
gathering evidence
gathering hoop
gathering iron
gathering locomotive
gathering machine
gathering of the clouds
gathering pallet
gathering peat
gathering place
gathering reel
gathering ring
gathering rod
gathering shot
gathering table
gatling gun
gaub line
gaude lake
gaudy-day
gaudy-green
gaufre iron
gauge block
gauge board
gauge cock
gauge concussion
gauge die
gauge door
gauge glass
gauge increment
gauge knife
gauge lath
gauge lathe
gauge line
gauge notch
gauge pile
gauge pin
gauge plate
gauge point
gauge saw
gauge stick
gauge stuff
gauge tolerance
gauge weir
gauge wheel
gauged pile
gauging plaster
gaullteria oil
gaunt-bellied
gauee ring
gauze tree
gauze weave
gauze-winged
gavel bread
gavel corn
gavel earth
gavel swine
gay as a lark
gay dance
gay deceive
gay dog
gay liberation
gay-beseen
gay-chirping
gay-colored
gay-feather
gay-flowered
gay-glancing
gay-green
gay-hued
gay-humored
gay-looking
gay-motleyed
gay-painted
gay-seeming
gay-smiling
gay-spent
gay-spotted
gay-tailed
gay-throned
gaze at
gaze open-mouthed
gaze upon
gaze-hound
gazelle brown
gazelle hound
general linguistics
general medicine
general mortgage bond
general obligation bond
general of the air force
general of the armies
general of the army
general officer
general order
general orders
general paralysis
general paralysis of the insane
general paresis
general partner
general partnership
general post office
general practice
general practitioner
general precession
general principle
general prior
general public
general reconnaissance
general reference map
general rule
general run
general semantics
general servant
general sessions
general solution
general staff
general store
general strike
general studies
general surgery
general theory of relativity
general truth
general uprising
general voice
general war
general will
general-duty nurse
general-purpose
generalized coordinates
generalized other
generalized proposition
generally accepted
generally admitted
generally capable
generally speaking
generate electricity
generating station
generating tone
generation gap
generation of man
generative cell
generative grammar
generative semantics
generator gas
generator unit
generic name
generic resemblance
generous-hearted
genethliac astrology
genetic code
genetic disease
genetic drift
genetic engineering
genetic fallacy
genetic individual
genetic method
genetic psychology
genetically related
geneva bands
geneva convention
geneva cross
geneva gown
genio-
genitive absolute
genito-
genius domus
genius familiae
genius for
genius loci
genius tutelae
geno-
genoa foresail
genoa jib
genre painter
genre painting
gens d'armerie
genteel comedian
genteel comedy
genteel poverty
gentian blue
gentian family
gentian root
gentian violet
gentianic acid
gentile-falcon
gentility manners
gentill-
gentisic acid
gentle art
gentle as a lamb
gentle breeze
gentle contact
gentle craft
gentle hint
gentle melancholy
gentle sex
gentle sleep
gentle slope
gentle wind
gentle-born
gentle-bred
gentle-browed
gentle-eyed
gentle-handed
gentle-handedly
gentle-handedness
gentle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturedly
gentle-naturedness
gentle-spoken
gentle-spokenly
gentle-spokenness
gentle-voiced
gentle-voicedly
gentle-voicedness
gentleman farmer
gentleman friend
gentleman of fortune
gentleman of leisure
gentleman of the press
gentleman of the road
gentleman's agreement
gentleman's gentleman
gentleman's lounge
gentleman's roo
gentleman-adventurer
gentleman-agent
gentleman-at-arms
gentleman-beggar
gentleman-cadet
gentleman-commoner
gentleman-covenanter
gentleman-dependent
gentleman-digger
gentleman-farmer
gentleman-jailer
gentleman-jockey
gentleman-lackey
gentleman-lodger
gentleman-murderer
gentleman-pensioner
gentleman-porter
gentleman-priest
gentleman-ranker
gentleman-recusant
gentleman-rider
gentleman-scholar
gentleman-sewer
gentleman-tradesman
gentleman-usher
gentleman-vagabond
gentleman-volunteer
gentleman-waiter
gentlemen's agreement
gentlemen-at-arms
gentlemen-commoners
gentlemen-farmers
gentlemen-pensioners
gentoo penguin
genu valgum
genuine object
genus Homo
geo probe
geo-
geo-navigation
geocentric longitude
geocentric parallax
geodesic dome
geodesic geometry
geodesic line
geodetic engineer
geodetic engineering
geodetic longitude
geodetic satellite
geodetic survey
geodetic surveying
geographic determinism
geographic environment
geographic longitude
geographic range
geographical determinism
geographical dictionary
geographical mile
geographically limited
geoid-spheroid
geoid-spheroid balance
geologic time
geological chemistry
geological dictionary
geological engineer
geological engineering
geological time periods
geometric figure
geometric isomerism
geometric mean
geometric pace
geometric progression
geometric proportion
geometric ratio
geometric series
geometrical horizon
geometrical lathe
geometrical optics
geometrical pace
geometrical pitch
geometrical progression
geometrical stair
geophysical satellite
gorgia pine
gostrophic wind
geotectonic geology
geranium creeper
geranium family
geranium lake
geranium oil
geranium pink
geriatric disease
germin breeder
germ cell
germdestroyer
germdisease
germdisk
germgland
germlayer
germnucleus
germpathology
germpag
germplasm
germplasma
germpore
germspot
germstock
germt
theory
germttrack
germtube
germwarfare
germs-forming
germbaptistbrethren
germcotillion
germmecasles
germshepherd
germsilver
germanderchickweed
germandersage
germanderspeedwell
germaniumcrystaltiode
germaniumoxide
germaniumtiode
germano-
germericidalamp
germinalarea
germinaldisc
germinaldisk
germinalimagination
germinalvesicle
germinatefrom
geront-
geronto-
gerrymandereddistrict
gerundgrinder
gerundgrindery
gerundgrinding
gerundphrase
ges-warp
gestaltpsychology
gestaltheory
gestatorial chair
gesture calligraphist
gesture calligraphy
gesture language
gesture painting
get a bang out of
get a bead on
get a boot out of
get a break
get a bun on
get a charge out of
get a corner on
get a cropper
get a fix
get a foothold
get a footing
get a glimpse of
get a good pennyworth
get a head start
get a hold on
get a hustle on
get a kick out of
get a leg up on
get a lift out of
get a load of
get a loan
get a move on
get a navigational fix
get a noseful of
get a purchase
get a reaction
get a reading
get a response
get a rise out of
get a sense
get a sounding
get a stranglehold on
get a whiff of
get a wiggle on
get a wrong impression
get about
get abroad
get acquainted
get acquire
get across
get afloat
get ahead
get ahead of
get all balled up
get all bollixed up
get all in a lather
get all snarled up
get all tangled up
get all wound up
get along
get along in years
get along on
get along with
get along with you
get along without
get an agent
get an earful
get an eyeful of
get an impression
get an income
get anywhere
get around
get at
get at the ear of
get away
get away from
get away with
get away with it
get away with murder
get back
get back at
get back in shape
get back to earth
get before
get behind
get better
get bogged down
get busy
get by
get by heart
get by hook or by crook
get by on
get by osmosis
get by rote
get chummy with
get clear of
get cold feet
get cozy with
get cracking
get cutting
get done
get down
cold
down from your high horse
don on your hunkers
don on your knees
on your marrowbones
on pat
to brass tacks
to business
to cases
to nuts and bolts
drunk
even
even with
excited
excited about
exposure
for free
for your pains
free
free of
fresh
from
funny
going
heads together
hep to
hers
high
high on
his
hitched
hold of
hold of an idea
hold of yourself
home free
hot under the collar
huffy
hung up
in
in a bind
in a box
in a hole
in a jam
in a mess
in a pincers
in a rut
word edgewise
get in back of
get in behind
get in connection with
get in contact with
get in formation
get in front of
get in good with
get in hot water
get in line
get in on the ground floor
get in the act
get in the family way
get in the good graces of
get in the harvest
get in the soup
get in the swim
get in there
get in touch with
get in with
get in wrong
get in your hair
get in your own way
get income
get into
get into a dither
get into a pucker
get into a scrape
get into a stew
get into a swivet
get into a tizzy
get into debt
get into favor
get into harness
get into line
get into mischief
get into the way of
get into trouble
get into your clutches
get into your grasp
get into your head
get into your hold
get into your possession
get into your thick head
get it
get it coming and going
get it in the neck
get it into your head
get it off your chest
get it off your mind
get it out of your system
get it out on
get it over
get it over with
get justice
get killed
get knowledge
get left
get letter-perfect
get leverage
get loose
get lost
get mad
get married
get miffed
get mired
get mired down
get moving
get next to
get next to someone
get no better fast
get no place fast
get nowhere
get off
get off a joke
get off cheap
get off on the right
get off scot-free
get off the ground
get off the subject
get off the track
get off to a good start
get off your back
get on
get on credit
get on film
get on good terms with
get on in the world
get on in years
get on out
get on swimmingly
get on the ball
get on the bandwagon
get on the cuff
get on the good side of
get on the in with
get on the job
get on the right side of
get on the wagon
get on the water wagon
get on tick
get on to
get on top
get on trust
get on well
get on well with
get on with
get on your high horse
get on your nerves
get one wrong
get onto
get organized
get out
get out a sheet-anchor
get out of
get out of bed
get out of commission
get out of gear
get out of here
get out of joint
get out of kelter
get out of kilter
get out of line
get out of order
get out of the way of
get out of whack
get out of your depth
get over
get over the ground
get over with
get pickled
get plastered
get quit of
get quits with
get ready
get ready to
get red in the face
get religion
get rich
get rid of
get right
get round
get satisfaction
get scent of
get sea room
get set
get set for
get shot of
get shut of
get sidetracked
get smart
get some air
get some sack time
get some shut-eye
get something out of your system
get sore
get square with
get squared away
get taped
get the advantage
get the air
get the ax
get the best of
get the better of
get the breaks
get the control of
get the drift
get the drop on
get the ear of
get the edge on
get the facts
get the floor
get the gate
get the hang of
get the hell out
get the idea
get the impression
get the jump on
get the knack of
get the lay of the land
get the lead out
get the lead out of your ass
get the lie of the land
get the mastery of
get the meaning of
get the picture
get the power into your hands
get the show on the road
get the start
get the upper hand
get the works
get the worst of it
get there
get things into proportion
get through
get through to
get through with
get through your head
get through your thick head
get tired
get to
get to be
get to do
get to first base
get to know one another
get to the bottom of
get to the core
get to the essence
get to the nub
get to your feet
get together
get together with
get too big for your breeches
get top billing
get under way
get under your skin
get up
get up and go
get up early
get up in
get up late
get up nerve
get up on
get up steam
get used to
get warm
get well
get well out of
get what is coming to one
get wind of
get wind up
get wise to
get with child
get with it
get with young
get worse
get wrong
get you down
get you gone
get your Irish up
get your ass in a bind
get your ass in gear
get your back up
get your bearings
get your blood up
get your comeuppance
get your credentials
get your dander up
get your deserts
get your dues
get your feet on the ground
get your feet wet
get your fingers on
get your goat
get your gorge up
get your hands on
get your hopes up
get your mad up
get your money's worth
get your monkey up
get yourself a deal
get yourself in a sulk
get-at-ability
get-at-able
get-at-ability
get-away
get-away speed
get-off
get-out
get-together
get-tough
get-up
get-up-and-get
get-up-and-go
getah wax
getet out
getting along
getting along in years
getting around
getting even
getting hold of
getting on
getting on in years
getting rid of
getting round
getting the hell out
getting with child
geyser basin
geyser cone
gharry-wallah
ghatti gum
ghetto-dwellers
ghost candle
ghost crab
ghost daemon
ghost dance
ghost edition
ghost food
ghost god
ghost gum
ghost hole
ghost line
ghost lodge
ghost lore
ghost moth
ghost name
ghost of a great name
ghost plant
ghost shrimp
ghost soul
ghost story
ghost town
ghost word
ghost world
ghost writer
ghost-fearing
ghost-filled
ghost-haunted
ghost-ridden
ghost-weed
ghost-writer
giallo antico
giant arrowhead
giant bamboo
giant bass
giant cane
giant chinquapin
giant crab
giant daisy
giant fennel
giant fescue
giant fulmar
giant garlic
giant granadilla
giant ground sloth
giant holly fern
giant hornet
giant killer
giant lily
giant lizard
giant of learning
giant order
giant panda
giant parsnip
giant petrel
giant planet
giant powder
giant ragweed
giant reed
giant rye grass
giant schnauzer
giant sea bass
giant sequoia
giant silkworm moth
giant size
giant slalom
giant sloth
giant snowdrop
giant star
giant step
giant steps
giant stride
giant sunflower
giant tortoise
giant water bug
giant-like
giant-sized
gib fish
gib plate
gib-cat
gib-head
gib-head key
gibbed cat
gibber bird
gibberelic acid
gibberellic acid
gibbet law
gibbet tree
gibble-gabble
gibble-gabbler
gibboso-
gibbous moon
gibby stick
gibe at
gibing retort
gilding metal
gilding wax
gilgai soil
gill arch
gill bailer
gill bar
gill basket
gill book
gill box
gill cavity
gill chamber
gill cleft
gill comb
gill cover
gill filament
gill frame
gill fungus
gill helix
gill net
gill plume
gill pouch
gill rake
gill raker
gill rod
gill scoop
gill slit
gill-ale
gill-book
gill-cup
gill-flirt
gill-less
gill-like
gill-netter
gill-over-the-ground
gill-run
gill-shaped
gillie-wetfoot
gillie-whitefoot
gilling machine
gilling thread
gilt-edge
gilt-edged
gilt-edged securities
gilt-handled
gilt-head
gilt-headed
gilt-knobbed
gilt-robed
gilt-tail
gim peg
gimbal joint
gimbal ring
gimlet bit
gimlet eye
gimlet-eyed
gimmer hog
gimmer lamb
gimp lapper
gimp nail
gin and tonic
gin block
gin drinker's liver
gin fizz
gin mill
gin palace
gin pole
gin race
gin rickey
gin ring
gin rummy
gin sling
gin wagon
gin wheel
gin yard
gin-mill
gin-palace
gin-run
gin-saw
gin-saw file
gin-shop
gin-sling
gingelly oil
ginger ale
ginger beer
ginger bleacher
ginger bread
ginger buyer
ginger extract
ginger family
ginger grass
ginger group
ginger jar
ginger lily
ginger nut
ginger oil
ginger pine
ginger plant
ginger pop
ginger punch
ginger quill
ginger root
ginger snap
ginger spice
ginger tea
ginger up
ginger wine
ginger-beer
ginger-beery
ginger-color
ginger-colored
ginger-faced
ginger-grass oil
ginger-hackled
ginger-haired
ginger-pop
ginger-red
gingerbread man
gingerbread nut
gingerbread palm
gingerbread plum
gingerbread tree
gingili oil
gingi-
ginkgo nut
ginny carriage
ginny-carriage
ginseng family
gipsy capstan
gipsy moth
gipsy winch
giraffe camel
girandole clock
girasol thorn
gird up your loins
gird your loins
girder bridge
girder erector
girder rail
girder riveter
girder stay
girder tool
girdle band
girdle bone
girdle pain
girdle sensation
girdle the globe
girdle wheel
girdle-tailed lizard
girl Friday
girl Fridays
girl friday
girl friend
girl guide
girl next door
girl scout
girl show
girl-o
girl-os
girl-shy
girl-watcher
girls' room
girly show
girt-line
girth web
girth-web
give 'em hell
give a
give a Roland for an Oliver
give a bad name
give a bad time to
give a bawling out
give a beating
give a big hand
give a bit of your mind
give a black eye
give a black mark
give a blank check
give a boost
give a boost to
give a bouquet
give a briefing
give a bum steer
give a buzz
give a cheer
give a color to
give a cursory look
give a damn
give a darn
give a dekko
give a direct order
give a dirty look
give a dog a bad name
give a dose of birch oil
give a dose of hazel oil
give a dose of hickory oil
give a dose of strap oil
give a dressing-down
give a fair shake
give a false alarm
give a false coloring
give a false idea
give a false impression
give a figure to
give a fillip to
give a fling
give a for-instance
give a free course to
give a free hand
give a free translation
give a go
give a going-over
give a good
give a good account of yourself
give a guess
give a hand
give a hearing to
give a helping hand
give a hint
give a job to
give a knockdown
give a leg up
give a lesson
give a lesson to
give a lick and a promise
give a lift
give a loose translation
give a miss to
give a nod of assent
give a party
give a performance
give a piece of advice
give a piece of your mind
give a pointer to
give a posy
give a promise
give a quick look
give a quid pro quo
give a rap on the knuckles
give a raw deal
give a report
give a reprieve
give a ring
give a shout of laughter
give a show
give a shriek of laughter
give a sidelong look
give a signal
give a square deal
give a start
give a suggestion
give a surprise party
give a talk
give a thrashing
give a thrill
give a tone to society
give a transfusion
give a trial to
give a try
give a tryout
give a turn to
give a twist to
give a warm reception to
give a whammy
give a whipping
give a whirl
give a wide berth
give a wide berth to
give a willing ear
give a workout
give a write-up
give a wrong idea
give absolution
give acknowledgment
give admittance to
give advance notice
give air to
give an account of
give an alarm
give an appreciation
give an assignment
give an assist
give an ear
give an encore
give an entree
give an examination
give an exclamation
give an idea of
give an impetus
give an impression of
give an impulse to
give an inch and take an ell
give an inkling of
give an introduction
give an obolus to Charon
give an open mandate
give an opinion
give an order
give and take
give answer
give as a gift
give as an excuse
give as good as was sent
give as good as you get
give as much as you take
give assent
give attention
give audience to
give away
give back
give battle
give being to
give benediction
give birth
give birth to
give bridle to
give by way of information
give care to
give carte blanche
give chase
give cheerfully
give comfort
give concern
give confidential information
give consent
give credence to
give credit
give credit to
give danger a wide berth
give directions
give directions to
give dispensation from
give ear
give ear to
give emphasis to
give encouragement
give entrance to
give evidence
give expression
give expression to
give fair warning
give faith to
give for free
give forgiveness
give forth
give forth a sound
give free course to
give free play to the emotions
give free rein to
give freely
give full authority
give full particulars
give full play
give full power
give good reasons for
give good returns
give greater draft fore and aft
give ground
give ground for expecting
give hail Columbia
give heed
give heed to
give hell
give help
give her beans
give her less rudder
give her more rudder
give homework
give honor to
give hope
give importance to
give in
give in charge
give in exchange
give in kind
give in marriage
give in return
give in trust
give indication of
give instruction
give instructions
give it a go
give it a second thought
give it all your got
give it no more thought
give it the gas
give it the gun
give it to
give it your all
give leave
give lessons in
give life to
give light
give line
give lip service
give little weight to
give measure for measure
give mind to
give momentum
give moral support to
give more matter and less art
give more than your share
give mouth honor
give new life to
give no cheer
give no comfort
give no credence to
give no credit to
give no heed
give no joy
give no pleasure
give no quarter
give no trouble
give notice
give notification
give occasion to
give of
give of your substance
give of yourself
give off
give off waves of heat
give offense
give offense to
give official sanction
give official warrant
give one a scare
give one a turn
give one line
give onto
give or take a little
give origin to
give out
give out a smell
give out with
give over
give over to
give pain
give pause
give permission
give place
give place to
give pleasure
give power
give prominence
give prospect of
give publicity
give quarter
give reason for
give recognition
give refuge to
give rein to
give release
give relief
give respite
give rise to
give rope enough to
give salvation
give sanctuary to
give satisfaction
give security
give shelter to
give sign
give someone a dose
give someone enough rope
give someone his due
give someone the eye
give someone the slip
give someone your hand on
give something the gun
give sorrow words
give special attention to
give support
give surcease
give texture
give thanks
give the
give the Bronx cheer
give the Devil his due
give the air
give the asking price
give the ax
give the ax to
give the battle cry
give the benefit of the doubt
give the bird
give the bum's rush
give the business
give the chuck to
give the coat off your back
give the cold shoulder
give the cold shoulder to
give the come-on
give the cue
give the deuce
give the devil
give the evil eye
give the eye
give the facts
give the feeling of
give the finishing strokes
give the finishing touches
give the freedom of
give the gate
give the glad eye
give the glad hand
give the go-ahead
give the go-by
give the good word
give the green light
give the guy to
give the high sign
give the hook
give the imprimatur
give the kiss of death to
give the lie to
give the meaning
give the mind to
give the nod
give the old heave-ho
give the once-over
give the pink slip
give the quietus
give the quietus to
give the raspberry
give the reins to
give the run of
give the runaround
give the sack to
give the shirt off your back
give the shoulder
give the show away
give the silent treatment
give the slip
give the stick
give the word
give the word of command
give the works
give thought to
give thumbs up
give tick
give tidings of
give tit for tat
give title to
give to
give to the world
give token
give tongue
give top billing to
give umbrage
give until it hurts
give up
give up all expectation
give up all hope
give up hope
give up the crown
give up the ghost
give up your post
give upon
give utterance
give vent to
give voice
give warning
give way
give way to
give way to tears
give what-for
give with an open hand
give with both hands
give witness
give word
give word for word
give words to
give you
give you a bad time
give you a bang
give you a bellyful
give you a blank check
give you a boot
give you a charge
give you a fright
give you a hard time
give you a kick
give you a lift
give you a pain
give you a revelation
give you a scare
give you a send-off
give you a swift pain in the ass
give you a tip
give you a turn
give you a whammy
give you another chance
give you carte blanche
give you gooseflesh
give you his gruel
give you his head
give you his walking papers
give you leeway
give you room
give you rope
give you scope
give you short shrift
give you space
give you the evil eye
give you the glad eye
give you the lie
give you the lie direct
give you the lie in your throat
give you the lip
give you the run-around
give you the slip
give you the works
give you tit for tat
give you to understand
give you trouble
give you what is coming to you
give you your comeuppance
give you your deserts
give your best
give your best regards
give your blessing
give your blessing to
give your compliments
give your countenance to
give your eyeteeth
give your eyeteeth for
give your fair share
give your hand to
give your kingdom in hell for
give your life for your country
give your love
give your mind to
give your parole
give your regards
give your share
give your support to
give your thanks
give your undivided attention
give your voice for
give your word
give your word of honor
give yourself airs
give yourself for
give yourself over to
give yourself over to pleasure
give yourself up
give yourself up to
give yourself up to reverie
give-and-take
give-up
giveaway show
given a jar
given a jolt
given a turn
given birth
given fact
given name
given to
given to drink
given up
given up for dead
giver-out
giving back
giving birth
giving in
giving out
giving over
giving up
giving way
gizzard shad
gizzard trout
glacial acetic acid
glacial boulder
glacial deposit
glacial epoch
glacial lake
glacial meal
glacial milk
glacial movement
glacial period
glacier bear
glacier cataract
glacier lily
glacier milk
glacier table
glacier theory
glacis plate
glad eye
glad hand
glad hand, the
glad rags
glad tidings
glad to see you
glad-cheered
glad-flowing
glad-hand
glad-handed
glad-hander
glad-sad
glad-surviving
glade lily
glade mallow
glamour girl
glamour issue
glamour puss
glance at
glance coal
glance cobalt
glance copper
glance of the eye
glance off
glance over
glance pitch
glance through
glance upon
glancing angle
glancing boom
glancing light
gland disease
glandular fever
glandular plague
glandular therapy
glans clitoridis
glans penis
glare ice
glare-eyed
glaring light
glaring look
glass bead
glass block
glass blower
glass blowing
glass brick
glass burner
glass cement
glass coach
glass curtain
glass cutter
glass cutting
glass decorator
glass eye
glass gall
glass harmonica
glass house
glass jaw
glass lizard
glass of time
glass painting
glass pot
glass pox
glass printing
glass sculpture
glass snail
glass snake
glass soap
glass string
glass tank
glass wool
glass-blower
glass-blowing
glass-bottomed
glass-bottomed boat
glass-built
glass-cabin launch
glass-cloth
glass-coach
glass-coated
glass-colored
glass-covered
glass-cutter
glass-cutting
glass-eater
glass-eyed
glass-faced
glass-fronted
glass-glazed
glass-green
glass-hard
glass-house
glass-lined
glass-maker
glass-man
glass-paneled
glass-paper
glass-topped
glass-work
glassed-in
glasses case
glassy-eyed
glauber's salt
glaucous blue
glaucous gray
glaucous green
glaucous gull
glaucous-green
glaucous-winged
glaze frost
glaze ice
glaze kiln
glaze wheel
glazed doughnut
glazed frost
glazed ware
glazier's point
glazing bar
glazing bead
glazing brad
glazing-bar
gleam of hope
gleam of light
gleaming smile
gleam knowledge
gleam learning
glebe house
glebe land
glee club
glee-eyed
glen nymph
glen-garry bonnet
gleno-
glial cells
glib tongue
glib-gabbet
glib-tongued
glide bomb
glide consonant
glide into
glide landing
glide path
glide plane
glide vowel
glide-bomb
glide-bombing
glider bomb
glider train
gliding angle
gliding boat
gliding joint
gliding machine
glimmer gowk
glimmer of hope
glimmering goal
glitter ice
glittering generality
gloat on
gloat over
gloating pleasure
global rule
global war
globe amaranth
globe animalcule
globe artichoke
globe crowfoot
globe daisy
globe dollar
globe hyacinth
globe joint
globe lightning
globe lily
globe mallow
globe ranunculus
globe sight
globe thistle
globe tulip
globe valve
globe-girdler
globe-girdling
globe-shaped
globe-trot
globe-trotter
globe-trotting
globigerina ooze
globo-cumulus
globular cluster
globular lightning
globus hystericus
globus pallidus
glon on to
gloomy Gus
gloomy outlook
gloomy-browed
gloomy-faced
glor-fat
glorify the Lord
glory be
glory be to
glory be to God
glory be to God in the highest
glory bower
glory box
glory flower
glory hole
glory in
glory lily
glory pea
glory to God
glory tree
glory vine
glory-hole
glory-of-the-snow
glory-of-the-snows
glory-of-the-sun
glory-of-the-suns
glory-pea
gloss of novelty
gloss oil
gloss over
gloss-
glosso-
glossopalatine arch
glossopalatine nerve
glossopharyngeal nerve
glossopharyngeal neuralgia
glossy snake
glossy-black
glossy-leaved
glossy-white
glost fire
glost fireman
glost firing
glost oven
glost placer
glost-fired
glott-
glottal stop
glotto-
glove box
glove compartment
glove contest
glove grain
glove maker
glove money
glove puppet
glove silk
glove silver
glove sponge
glove stitch
glover's stitch
glow beetle
glow discharge
glow discharge tube
glow lamp
glow light
glow lighting
glow meter
glow plug
glow tube
glow-discharge microphone
glow-worm
glowering look
glowing health
glowing smile
gloze over
glucaric acid
gluck-gluck
gluckliche Reise
gluconic acid
glucose sirup
glucose vinegar
glucuronic acid
glue boiler
glue bottle
glue brush
glue cell
glue maker
glue on
glue plant
glue sniffer
glue stock
glue the mind to
glue water
glue-pot
glued-up
gluing-off
glut herring
glut on the market
glut-
glutamic acid
glutaminic acid
gluteal region
glutei maximi
gluten bread
gluten feed
gluten flour
gluten meal
gluteus maximus
gluteus medius
gluteus minimus
glutton bird
glyc-
glycer-
glyceria wax
glyceric acid
glyceric aldehyde
glycerin jelly
glycerin lye
glycerin soap
glycerol nitrate
glycerol ester
glycerol esters
glyceryl group
glyceryl monoacetate
glyceryl nitrate
glyceryl radical
glyceryl trinitrate
glyceryl trioleate
glyceryl tripalmitate
glyco-
glycogen disease
glycogenic acid
glycolic acid
glycollic acid
glyconic acid
glycuronic acid
glycyrrhizae composita
glyoxyl urea
glyptic artist
glyptographic artist
gnmma hole
gnash your teeth
gnashing of teeth
gnat hawk
gnath-
gnathic index
gnaw at the root of
gnaw away
gnawing of the bowels
gnawing pain
gneissoide-granite
gnome owl
gnomonic projection
gnothi seauton
gnu goat
go AWOL
go Dutch
go a journey
go aboard
go about
go about your business
go abroad
go across
go adrift
go after
go against
go against the grain
go aground
go ahead
go ahead of
go all colors
go all lengths
go all out
go all the way
go aloft
go along
go along with
go along with the crowd
go alongside
go amiss
go and
go and do
go and get
go and hang yourself
go ape
go ape over
go around
go around and around
go around in circles
go as
go as the crow flies
go as you please
go ashore
go ass over elbows
go astern
go astray
go astray from
go at
go at a snail's pace
go at flank speed
go at full blast
go at full steam
go at full tilt
go at it ass-backwards
go at large
go at liberty
go at the double
go away
go awol
go awry
go back
go back on
go back on your word
go back over
go back to
go backwards
go bad
go bail
go bail for
go bananas
go bankrupt
go beddy-bye
go before
go begging
go behind
go below
go berserk
go beside
go between
go beyond
go beyond reason
go beyond the bounds of reason
go blind
go broke
go bush
go by
go by air
go by airline
go by fits and starts
go by plane
go by rail
go by ship
go by the board
go by the name of
go bye-bye
go cahoots
go cahoots with
go camping
go cap in hand to
go chase yourself
go contrary to
go counter to
go crabwise
go crackers
go crazy
go dead
go dead slow
go deaf
go deep
go deep into
go directly
go down
go down in the world
go down like a stone
go down on your knees to
go down the drain
go down to the sea in ships
go down with flying colors
go downhill
go easily
go easy
go easy on
go even stephen
go even stephen with
go far
go far afield
go fast
go fetch
go fifty-fifty
go fifty-fifty with
go fish
go fishing
go flat out
go fly a kite
go for
go for a Sunday drive
go for a burton
go for a drive
go for a ride
go for a spin
go for a walk
go for an airing
go for an outing
go for broke
go for the deck
go foreign
go forth
go forward
go free
go from bad to worse
go from home
go from push to shove
go full speed ahead
go full speed astern
go full steam ahead
go full tilt at
go gauge
go get
go great guns
go gunning for
go halvers
go halvers with
go halves
go hand in hand
go hand in hand with
go hard with
go haywire
go head over heels
go hell-bent for election
go home
go home feet first
go hungry
go hunting
go ill with
go in
go in advance
go in bathing
go in business for yourself
go in cahoot with
go in cahoots
go in debt
go in for
go in harm’s way
go in hock
go in hock for
go in one ear and out the other
go in opposition to
go in partners
go in partnership
go in peace
go in pursuit of
go in search of
go in swimming
go in the face of
go in the lead
go in the rear of
go in wading
go in with
go into
go into a funk
go into a huddle
go into a tail spin
go into a tailspin
go into a tantrum
go into convulsions
go into decay
go into detail
go into heart and soul
go into hiding
go into hysters
go into litigation
go into mourning
go into orbit
go into outer space
go into partnership with
go into raptures
go into receivership
go into retirement
go into reverse
go into seclusion
go into shock
go into the money market
go into training
go into your pocket
go it alone
go jump in the lake
go kaput
go lame
go light
go like
go like a bat out of hell
go like a flash
go like a shot
go like a streak of lightning
go like clockwork
go like greased lightning
go like hot cakes
go like lighting
go like the wind
go long
go mad
go maku
go marketing
go native
go near
go night-night
go off
go off at a tangent
go off at half cock
go off half-cocked
go off in all directions at once
go off on a tangent
go off soundings
go off the air
go off the deep end
go off the track
go off the trolley
go off to sleep
go off your head
go off your nut
go off your rocker
go on
go on a bat
go on a bender
go on a binge
go on a bust
go on a crusade
go on a crusade against
go on a diet
go on a drunk
go on a honeymoon
go on a journey
go on a pilgrimage
go on a rampage
go on a rip
go on a sight-seeing trip
go on a spending spree
go on a spree
go on a tear
go on a toot
go on a trip
go on a voyage
go on a wartime footing
go on a wild-goose chase
go on a wrong tack
go on about
go on all fours
go on all fours with
go on an ego trip
go on an expedition
go on and on
go on bended knee to
go on board
go on forever
go on furlough
go on hands and knees
go on horseback
go on in the old jog-trot way
go on leave
go on over
go on parade
go on record
go on safari
go on shipboard
go on strike
go on the air
go on the blink
go on the bum
go on the defensive
go on the fritz
go on the heel and toe
go on the merry-go-round
go on the road
go on the rocks
go on the shoals
go on the stump
go on the town
go on the warpath
go on tick
go on tiptoe
go on welfare
go on with
go on with the show
go on your beat
go once over lightly
go one better
go onto
go onwards and upwards
go out
go out for
go out like a lamb
go out like a light
go out of bounds
go out of business
go out of line
go out of style
go out of the way
go out of use
go out of your depth
go out of your skull
go out of your way
go out on a limb
go out on strike
go out the window
go out with
go out with the ebb
go out with the tide
go over
go over again and again
go over and over
go over big
go over like a lead balloon
go over step by step
go over the board
go over the ground
go over the hill
go over the same ground
go over the side
go over the top
go over the wall
go over to the enemy
go over to the great majority
go over to the majority
go over your head
go overboard
go overseas
go partners
go peddle your fish
go phut
go pitapat
go pitter-patter
go places
go places and do things
go public
go right through
go roll your hoop
go round
go round Robin Hood's barn
go round about
go round like a horse in a mill
go scot free
go separate ways
go shares
go shopping
go short
go sideways
go sit on a tack
go slow
go slowly
go slumming
go snack
go soak your head
go soft
go soft at the edges
go steady
go step by step
go straight
go straight on
go straight to the point
go the dizzy rounds
go the limit
go the long way around
go the other way
go the round
go the rounds
go the route
go the same round
go the vole
go the way of all earth
go the way of all flesh
go the whole hog
go the whole length
go the whole way
go through
go through a change
go through channels
go through fire and water
go through hell and high water
go through one
go through one's head
go through phases
go through the motions
go through with
go through with it
go through your paces
go through your part
go to
go to Abraham's bosom
go to Canossa
go to Davy Jones's locker
go to a better land
go to a better life
go to a better place
go to a better world
go to a watery grave
go to all lengths
go to an extreme
go to and fro
go to any length
go to any lengths
go to bat for
go to bed
go to bed with
go to do
go to extremes
go to foreign places
go to foreign shores
go to get
go to glory
go to grass
go to great lengths
go to great pains
go to ground
go to hell
go to it
go to kingdom come
go to law
go to loggerheads
go to perdition
go to pieces
go to pot
go to press
go to rack and manger
go to rack and ruin
go to rest
go to ruin
go to school
go to sea
go to sea in a sieve
go to seed
go to shivers
go to show
go to sleep
go to smash
go to smitherens
go to the bad
go to the bathroom
go to the bitter end
go to the bottom
go to the country
go to the deuce
go to the devil
go to the dogs
go to the electorate
go to the front for
go to the happy hunting grounds
go to the mat with
go to the trouble
go to the voters
go to the wall
go to town
go to town on
go to war
go to waste
go to windward
go to wrack and ruin
go to your glory
go to your head
go to your heart
go to your last home
go to your long account
go to your rest
go to your reward
go together
go too far
go treat
go under
go under a false name
go under an alias
go under an assumed name
go under false colors
go under false pretenses
go under the knife
go under the name of
go underground
go unrestrained
go up
go up and up
go up blind alleys
go up in smoke
go up in your lines
go up on your lines
go up the nose
go up the spout
go up the wall
go up to with hat in hand
go up the hill
go upon
go well
go west
go whole hog
go with
go with the current
go with the party
go with the stream
go with the tide
go without
go without saying
go wonder
go woolgathering
go wrong
go your own way
go your rounds
go your way
go-about
go-ahead
go-as-you-please
go-ashore
go-away bird
go-back
go-between
go-by
go-cart
go-devil
go-down
go-getter
go-getterism
 go-getting
 go-go
 go-go dancer
 go-kart
 go-moku
 go-off
 go-quick
 go-slow policy
 go-to-itiveness
 go-to-meeting
 goa powder
 goad on
 goal area
 goal crease
 goal judge
 goal kick
 goal line
 goal minder
 goal net
 goal post
 goal posts
 goal stick
 goal tender
 goal tending
 goal-post mast
 goat antelope
 goat chaffer
 goat cheese
 goat fig
 goat god
 goat grass
 goat hair
 goat marjoram
 goat milker
 goat moth
 goat nut
 goat owl
 goat pepper
 goat pox
 goat rue
 goat's hair
 goat's-beard
 goat's-rue
 goat-bearded
 goat-drunk
 goat-eyed
 goat-footed
goat-headed
goat-herd
goat-hoofed
goat-horned
goat-keeping
goat-kneed
goat-pox
goat-toothed
goatsfoot convolvulus
gob line
gob rope
gob-line
gobar numerals
gobble down
gobble up
gobe-mouches
golet cell
goblin fish
goblin scarlet
goblin shark
god head
god of evil
god of justice
god of lightning
god of trade
god's acre
god's penny
god's-penny
god-a-mercy
god-almighty
god-child
god-damn
god-daughter
god-fearing
god-horse
god-king
god-mamma
god-man
god-papa
god-parent
god-phere
god-speed
goddam it
goddess of evil
goddess of justice
goddess-like
goddesses of discord
godforsaken place
godly-learned
godly-minded
godly-mindedness
gods of
gods of commerce
gods of evil
gods of marriage
gods of the nether world
goer-by
gofferor gauffer
goggle eyes
goggle-eye
goggle-eye scad
goggle-eyed
goggle-eyes
goggle-nose
going about
going afoot
going against the current
going ahead
going along with
going around
going around in circles
going ashore
going away
going barrel
going behind
going between
going down of the sun
going for broke
going forth
going fusee
going light
going off
going on
going on all fours
going on foot
-going out
-going over
-going price
-going strong
-going through
-going to Jerusalem
-going to happen
-going to pieces
-going to the polls
-going train
-going wheel
going-concern
going-concern value
going-out-of-business sale
going-over
goings on
goings-on
goings-over
goiter stick
gold apple
gold assayer
gold bank
gold bar
gold basis
gold bass
gold beating
gold beetle
gold beryl
gold blocker
gold blocking
gold bond
gold book
gold brick
gold bronze
gold brown
gold bullion standard
gold carp
gold certificate
gold chloride
gold clause
gold democrat
gold depository
gold digger
gold digging
gold diggings
gold driver
gold dust
gold fever
gold field
gold foil
gold lace
gold leaf
gold maker
gold making
gold medal
gold melter
gold mine
gold miner
gold mining
gold monochloride
gold note
gold nugget
gold of pleasure
gold orange
gold pan
gold panner
gold piece
gold plate
gold point
gold refiner
gold reserve
gold rush
gold seeker
gold solder
gold spinner
gold standard
gold star
gold stick
gold therapy
gold tooth
gold topaz
gold trichloride
gold warden
gold washer
gold washing
gold working
gold-and-silver plant
gold-ball
gold-banded
gold-basket
gold-bearing
gold-beater
gold-beating
gold-bloom
gold-bound
gold-braided
gold-breasted
gold-brick
gold-bright
gold-broidered
gold-bug
gold-bullion standard
gold-ceiled
gold-chain
gold-clasped
gold-colored
gold-containing
gold-crested
gold-daubed
gold-decked
gold-dig
gold-digger
gold-dust
gold-dust tree
gold-edged
gold-embossed
gold-embroidered
gold-enwoven
gold-exchange
gold-exchange standard
gold-field
gold-fields
gold-filled
gold-finder
gold-fish
gold-foil
gold-framed
gold-fringed
gold-graved
gold-green
gold-haired
gold-headed
gold-hilted
gold-inlaid
gold-laced
gold-laden
gold-leaf
gold-lit
gold-mine
gold-mounted
gold-of-pleasure
gold-plate
gold-plated
gold-plating
gold-red
gold-ribbed
gold-rimmed
gold-robed
gold-rolling
gold-rush
gold-seeking
gold-star
gold-striped
gold-strung
gold-studded
gold-tail moth
gold-testing
gold-washer
gold-weight
gold-winged
gold-work
gold-wrought
gold-yellow
goldbeater's skin
golden age
golden aster
golden bamboo
golden bantam corn
golden beryl
golden boy
golden buck
golden calf
golden calla lily
golden chain
golden clematis
golden coreopsis
golden crest
golden crown
golden crownbeard
golden currant
golden disc
golden dream
golden eagle
golden eardrop
golden era
golden exhalations of the dawn
golden feather
golden fizz
golden flax
golden fleece
golden glow
golden goose
golden gram
golden handshake
golden horde
golden jubilee
golden loosestrife
golden marguerite
golden mean
golden millet
golden mole
golden nematode
golden number
golden oat
golden opportunity
golden oriole
golden pheasant
golden plover
golden polypody
golden potto
golden queen
golden ragwort
golden rain
golden retriever
golden rose
golden rule
golden sable
golden saying
golden season of life
golden section
golden shower
golden silence
golden slumbers
golden spider lily
golden star
golden stars
golden syrup
golden thistle
golden time
golden touch, the
golden trout
golden tuft
golden vision
golden warbler
golden wattle
golden wedding
golden wedding anniversary
golden years, the
golden yellow
golden-ager
golden-banded
golden-banded lily
golden-bearded
golden-breasted
golden-brown
golden-cheeked
golden-chestnut
golden-colored
golden-crested
golden-crowned
golden-crowned kinglet
golf widow
golgi apparatus
golgi body
goliath beetle
goliath crane
goliath frog
goliath heron
golo-shoe
gom-paauw
gombeen-man
gombeen-men
gombroon ware
gomoku-zogan
gomuti palm
gon-
gondang wax
gondola back
gondola car
gone arrow
gone away
gone bad
gone begging
gone by
gone feeling
gone for a burton
gone glimmering
gone goose
gone off
gone on
gone out
gone out of your head
gone out of your recollection
gone the way of all flesh
gone to a better land
gone to a better place
gone to a better world
gone to dust
gone to glory
gone to kingdom come
gone to pot
gone to rack and ruin
gone to seed
gone to the bad
gone to the dogs
gone to waste
gone to wrack and ruin
gone west
gone-by
gong bell
gong buoy
gong drum
gong-gong
gon-
gono-
gonococcal arthritis
gonorrhreal arthritis
gonorrhreal rheumatism
goo-goo
goo-goo eyes
goobers pea
good Christian
good English
good Joe
good Samaritan
good afternoon
good and
good and mad
good and ready
good and tired
good angel
good appearance
good arvo
good as gold
good at
good at the price
good auspices
good behavior
good book
good boy good girl
good boy good girl
good break
good breeding
good buy
good case
good chance
good character
good cheap
good cheer
good child
good citizen
good citizenship
good clothes
good company
good condition
good constitution
good cry
good day
good deal
good deed
good deportment
good digestion
good disposition
good effect
good egg
good enough
good estate of body
good even
good evening
good example
good faith
good features
good feeling
good fellow
good figure
good fist
good flavor
good folk, the
good footing
good for
good for a laugh
good for you
good form
good fortune
good friday
good friend
good full
good genius
good graces
good gracious
good guy
good hair
good hand
good health
good hearing
good heavens
good hope
good humor
good humour
good idea
good influence
good judge
good judgment
good lack
good life
good life, the
good looker
good looks
good loser
good lot
good luck
good man
good management
good manners
good marrow
good measure
good memory
good mixer
good morning
good morrow
good name
good nature
good neighbor
good news
good night
good night's sleep
good now
good odor
good offices
good oil
good old days
good old summertime
good old times
good omen
good one
good opportunity
good palate
good pennyworth
good people
good person
good points
good possibility
good price
good prognosis
good proportions
good prospect
good quality or effect
good question
good reason
good reasoning
good report
good reputation
good repute
good riddance
good sense
good shape
good shot
good show
good side of, the
good society
good soldier
good sooth
good sort
good speed
good spirits
good sport
good sportsmanship
good state of health
good stewardship
good story
good sum
good supply
good sword
good taste
good temper
good templar
good terms
good thing
good things of life
good time
good times
good to eat
good trim
good turn
good understanding
good usage
good use
good vibes
good vibrations
good ways
good weather
good will
good will to man
good will toward man
good wishes
good woman
good word
good works
good writing
good-by
good-bye
good-bye-summer
good-daughter
good-den
good-doer
good-faith
good-father
good-fellow
good-fellowhood
good-fellowish
good-fellowship
good-for
good-for-naught
good-for-nothing
good-for-nothingness
good-hearted
good-humored
good-humoredly
good-humoredness
good-humoured
good-humouredly
good-humouredness
good-looking
good-lookingness
good-luck charm
good-luck piece
good-mannered
good-morning-spring
good-mother
good-natured
good-natured banter
good-naturedly
good-naturedness
good-neighbor
good-neighbor policy
good-neighbourhood
good-night
good-o
good-oh
good-plucked
good-sister
good-size
good-sized
good-tasting
good-tempered
good-temperedly
good-temperedness
good-time
goodness gracious
goodness of fit
goodness of heart
goods and chattels
goods dollar
goods engine
goods for sale
goods train
goods waggon
goods wagon
goods yard
goods, the
goody good-good
goody gumdrops
goody-good
goody-goodies
goody-goodiness
goody-goodness
goody-goody
goody-goodyism
goody-goodynness
goof around
goof off
goof up
goof-off
goof-off time
goof-up
goofing off
googly-eyed
goony squad
gooney bird
goose barnacle
goose bumps
goose call
goose chase
goose club
goose corn
goose egg
goose file
goose flesh
goose grass
goose gray
goose grease
goose gull
goose pen
goose pimples
goose plant
goose plum
goose quill
goose rump
goose skin
goose step
goose tansy
goose teal
goose tree
goose walk
goose-beak whale
goose-bill
goose-cackle
goose-egg
goose-flesh
goose-fleshy
goose-foot
goose-footed
goose-grass
goose-grease
goose-headed
goose-neck
goose-pimple
goose-pimply
goose-quill
goose-shaped
goose-skin
goose-step
goose-stepped
goose-stepper
goose-stepping
goose-wing
gooseberry bush
gooseberry family
gooseberry fool
gooseberry fruitworm
gooseberry gourd
gooseberry mildew
gooseberry moth
gooseberry picker
gooseberry pie
gooseberry rust
gooseberry sawfly
gooseberry spanworm
gooseberry stone
gooseberry tomato
gooseberry tree
gooseberry wine
gooseberry-eyed
goosefoot family
goosefoot maple
gooseneck lamp
gooseneck slicker
goosewing jibe
gopher apple
gopher ball
gopher drift
gopher frog
gopher hole
gopher plant
gopher plum
gopher snake
gopher tortoise
gopher turtle
gopher wood
gopher-hole blast
gora log
gordian knot
gordon setter
gordura grass
gore strake
gore-fish
goreng pisang
gorge circle
gorge hook
gorge on
gorge wind
gorge yourself
gorgon plant
gorgon-headed
goring cloth
gorse duck
gorse hatcher
gos-lettuce
gosh-awful
gosh-darn
gosling color
gosling grass
gosling green
gospel music
gospel oath
gospel side
gospel truth
gospel-true
gosport tube
gossamer fern
gossamer spider
gossip column
gossip columnist
gossip made tedious by morality
got to
gothic arch
gothic section
gouden reaal
gouge carving
gouge out
gouge shell
gourd cup
gourd family
gourd melon
gourd towel
gourd tree
gourd-shaped
gourdhead buffalo
gourdscew buffalo
gourmet quality
gout fly
gout ivy
gout of rain
gout tree
gouty arthritis
gouty stool
gouv-
governess-ship
governing board
governing body
government archives
government bar
government bond
government building
government control
government depository
government hospital
government insurance
government issue
government man
government mark
government note
government of the people
government paper
government papers
government securities
government stamp
government-general
government-in-exile
government-owned
governmental leadership
governor general
governor generals
governor's council
governor's mansion
governor-elect
governor-general
governor-generalship
governors general
gowk storm
gown boy
gown-fashion
g r wt
gr-s
graffian follicle
grab at
grab bag
grab bar
grab barrel
grab box
grab bucket
grab dredge
grab hold of
grab line
grab link
grab machine
grab off
grab one
grab rope
grab skipper
grab the thoughts
grab-all
grabbot gin
grace cup
grace drink
grace hoop
grace note
grace of expression
grace period
grace with
grace-and-favor
grace-and-favour
grace-cup
graceful gesture
gracious life
gracious living
grade bar
grade by grade
grade cricket
grade crossing
grade insignia
grade line
grade peg
grade school
grade schooler
grade separation
grade stake
graded post
graded school
gradient microphone
gradient post
gradient wind
gradual change
graduate assistant
graduate education
graduate nurse
graduate school
graduate student
graduate-professional
graduate-professional education
graduated scale
graduated student
graduated tape
graduated taxation
graduating engine
graduation exercises
graeco-
graft hybrid
graft-hybridism
graft-hybridization
grafting wax
graham bread
graham cracker
graham flour
graham wafer
grain alcohol
grain aphid
grain beetle
grain bill
grain bin
grain binder
grain borer
grain broker
grain carrier
grain cleaner
grain cradle  
grain crusher  
grain drill  
grain elevator  
grain farm  
grain farmer  
grain farming  
grain founder  
grain glove  
grain gold  
grain grower  
grain growth  
grain harvester  
grain huller  
grain lac  
grain leather  
grain louse  
grain mark  
grain mash  
grain merchant  
grain miller  
grain moth  
grain musk  
grain of salt  
grain of sand  
grain oil  
grain pan  
grain refiner  
grain rust  
grain sack  
grain sacker  
grain sampler  
grain screen  
grain screener  
grain shipper  
grain side  
grain smut  
grain soap  
grain sorghum  
grain thresher  
grain tin  
grain traveler  
grain weevil  
grain weigher  
grain-burnt  
grain-carrying  
grain-cleaning  
grain-cut
granary weevil
grand air
grand ballroom
grand chain
grand chop
grand climacteric
grand cordon
grand council fire
grand coup
grand dame
grand dragon
grand drapery
grand duchess
grand duchy
grand duke
grand feu
grand final
grand finale
grand fir
grand guignol
grand inquisitor
grand jete
grand juror
grand jury
grand juryman
grand lama
grand larceny
grand mal
grand march
grand master
grand monde
grand old man
grand opera
grand passion
grand pian
grand piano
grand prior
grand quarter
grand seigneur
grand seignior
grand serjeanty
grand sicle
grand signior
grand slam
grand sonnerie
grand tactics
grand theft
grand total
grand tour
grand vicar
grand vizier
grand-
grand-aunt
grand-dad
grand-daughter
grand-ducal
grand-juror
grand-juryman
grand-nephew
grand-niece
grand-scale
grand-slammer
grand-uncle
grande dame
grande passion
grandes damas
grandes passions
grandfather chair
grandfather clause
grandfather clock
grandfather graybeard
grandfather longlegs
grandfather's chair
grandfather's clock
grandmother clock
grandmother's clock
grandstand play
grandstand player
granger laws
grani-
granite blue
granite gray
granite paper
granite porphyry
granite quarrier
granite-dispersing
granite-gneiss
granite-gruss
granite-sprinkled
granny flat
granny glasses
granny knot
granny's bend
granny's knot
granny-thread
grano-
grant a decree of nullity
grant a divorce
grant a final decree
grant a reprieve
grant amnesty to
grant an annulment
grant bail to
grant citizenship
grant exemption
grant forgiveness
grant immunity
grant of probate
grant remission
grant-in-aid
grants-in-aid
granul-
granular snow
granular texture
granulated soap
granulated sugar
granulation tissue
granule cell
granule gravel
granulo-
granuloma inguinale
granuloma venereum
grape cane borer
grape cherry
grape curculio
grape cure
grape disease
grape family
grape fern
grape green
grape grower
grape growing
grape hoe
grape hopper
grape hyacinth
grape juice
grape leaf folder
grape leaf hopper
grape louse
grape mildew
grape moth
grape pear
grape phylloxera
grape picker
grape picking
grape ranch
grape rootworm
grape rot
grape rust
grape scale
grape seed
grape sugar
grape tomato
grape tree
grape weevil
grape wine
grape worm
grape-bearing
grape-berry moth
grape-eater
grape-hued
grape-leaved
grape-seed oil
grape-shaped
grape-shot
grape-sized
grape-stone
grape-vine
grapefruit juice
grapefruit league
grapefruit spoon
grapes of wrath
grapevine fidia
grapevine flea beetle
grapevine leaf hopper
grapevine phylloxera
grapevine telegraph
grapevine thrips
graph paper
graphic accent
graphic account
graphic algebra
graphic art
graphic artist
graphic arts
graphic granite
graphic panel
graphic scale
graphic-texture
graphite steel
grapier cement
grapnel plant
grappier cement
grapple bucket
grapple dredge
grapple fork
grapple ground
grapple iron
grapple plant
grapple shot
grapple with
grappling hook
grappling iron
gasp at a straw
gasp the meaning
gasping organ
gasping organs
gas bass
gas box
gas bur
gas carp
gas cattle
gas character
gas cloth
gas cold
gas comber
gas court
gas drake
gas earth
gas family
gas fern
gas finch
gas frog
gas green
gas guard
gas gum
gas hand
gas hockey
gas ill
gas lamb
gas land
gas lawn
gas lily
gas linen
gas mildew
gas moor
gas moth
gas owl
gas paper
grass parakeet
grass pea
grass pickerel
grass pink
grass plover
grass poly
grass pondweed
grass porgy
grass rockfish
grass roots
grass rug
grass sandwort
grass savanna
grass shears
grass skirt
grass snake
grass snipe
grass sorghum
grass spider
grass sponge
grass staggers
grass steppe
grass style
grass swine
grass table
grass tetany
grass tree
grass veld
grass vetch
grass warbler
grass webworm
grass widow
grass widower
grass wrack
grass-blade
grass-carpeted
grass-clad
grass-cloth
grass-cloth plant
grass-covered
grass-cushioned
grass-cutting
grass-eater
grass-eating
grass-embroidered
grass-fed
grass-green
grass-growing
grass-grown
grass-hook
grass-killing
grass-leaved
grass-mowing
grass-of-Parnassus
grass-plat
grass-roofed
grass-roots
glass-roots campaign
glass-roots movement
glass-tree
glass-tree gum
glass-woven
glass-wren
glasshopper engine
glasshopper escapement
glasshopper gauge
glasshopper lark
glasshopper lobster
glasshopper mouse
glasshopper sparrow
glasshopper warbler
glassland buttercup
glassland daisy
grassy-green
grassy-leaved
grate coal
grate on
grate room
grate surface
grate upon the ear
grated cheese
grateful dead
gratia dei
gratify yourself
gratuitous contract
gravamen of a charge
grave accent
grave as an undertaker
grave clothes
grave harmonic
grave injustice
grave marker
grave mixture
grave plant
grave robber
grave robbing
grave sin
grave wax
grave-born
grave-bound
grave-browed
grave-clothes
grave-colored
grave-digger
grave-digging
grave-faced
grave-looking
grave-riven
grave-robbing
grave-toned
grave-visaged
grave-wax
gravel chickweed
gravel plant
gravel road
gravel shooter
gravel train
gravel-bind
gravel-blind
gravel-blindness
gravel-grass
gravel-pit
gravel-stone
gravel-walk
graven image
graves' disease
graves's disease
graveside oration
gravestone cutter
graveyard shift
graveyard vote
graveyard watch
graveyard weed
gravi-
gravimetric analysis
graving dock
graving piece
graving tool
gravitate toward
gravitation battery
gravitation constant
gravitational astronomy
gravitational collapse
gravitational constant
gravitational field
gravitational interaction
gravitational mass
gravitational wave
gravity battery
gravity cell
gravity clock
gravity conveyer
gravity dam
gravity escapement
gravity fault
gravity feed
gravity hinge
gravity knife
gravity meter
gravity pendulum
gravity plane
gravity railroad
gravity stamp
gravity star
gravity ventilation
gravity wave
gravity wind
gravity-circulation
gravity-fed
gravity-operated railway
gravo-
gravure microscope
gravure press
gravy boat
gravy eye
gravy soup
gravy train
gray birch
gray body
gray colors and pigments
gray dogwood
gray duck
gray eminence
gray fox
gray goldenrod
gray goods
gray gum
gray hair
gray hairs
gray hen
gray iron
gray manganese ore
gray market
gray marketeer
gray matter
gray mold
gray mullet
gray of the evening
gray orchis
gray out
gray ox
gray parrot
gray pine
gray scale
gray sea eagle
gray skate
gray snapper
gray sour
gray squirrel
gray trout
gray whale
gray with age
gray with fear
gray wolf
gray-barked
gray-bearded
gray-bellied
gray-black
gray-blue
gray-bordered
gray-boughed
gray-breasted
gray-brindled
gray-brown
gray-cheeked
gray-cheeked thrush
gray-clad
gray-colored
gray-crowned
gray-drab
gray-eyed
gray-faced
gray-gowned
gray-green
gray-grown
gray-haired
gray-haired person
gray-headed
gray-headed person
gray-headed woodpecker
gray-hooded
gray-hued
gray-leaf
gray-leaf pine
gray-leaved
gray-lit
gray-mantled
gray-moldering
gray-mustached
gray-necked
gray-speckled
gray-spotted
gray-tailed
gray-tailed cardinal
gray-tinted
gray-toned
gray-twiggled
gray-veined
gray-white
gray-winged
grayback beetle
grayback herring
graybeard tree
graying temples
grayish-brown
graylag goose
graze by
graze the surface
grazing country
grazing region
grease bucket
grease cup
grease extractor
grease gun
grease job
grease joint
grease mold
grease monkey
grease moth
grease nipple
grease paint
grease pit
grease rack
grease ring
grease the hand
grease the palm
grease the ways
grease the wheels
grease trap
grease wool
grease your palm
grease-heel
grease-heels
grease-nut
greased lightning
greasing of the wheels
greasy grind
greasy spoon
greasy-headed
great Neptune's ocean
great abundance
great ado
great age
great anteater
great ape
great auk
great barracuda
great basinet
great bear
great beauty
great big
great black-backed gull
great blue heron
great blue shark
great bunch grass
great bustard
great calorie
great cause
great circle
great compass
great cost
great council
great crested grebe
great dane
great deal
great distance
great divide
great doings
great doxology
great effort
great expectations
great foot
great friend
great fun
great go
great grandfather
great tit
great toe
great tuna
great unwashed, the
great value
great wheel
great white heron
great white shark
great white trillium
great wind
great with child
great with young
great work
great wrong
great year
great, the
great-
great-armed
great-aunt
great-bellied
great-boned
great-children
great-circle
great-circle chart
great-circle course
great-circle sailing
great-circle track
great-coat
great-crested
great-eared
great-eyed
great-footed
great-footed hawk
great-grand daughter
great-grandaunt
great-grandchild
great-grandchildren
great-granddaughter
great-grandfather
great-grandmother
great-grandnephew
great-grandniece
great-grandparent
great-grandson
great-granduncle
great-great-
great-grown
great-head
great-headed
great-hearted
great-hipped
great-leaved
great-lipped
great-minded
great-mindedly
great-mindedness
great-nephew
great-niece
great-nosed
great-sized
great-souled
great-sounding
great-spirited
great-stemmed
great-tailed
great-tailed grackle
great-uncle
great-witted
greater Bairam
greater Ionic
greater and greater
greater celandine
greater city
greater doxology
greater litany
greater multangular bone
greater omentum
greater prairie chicken
greater shearwater
greater weever
greater yellowlegs
greatest common divisor
greatest lower bound
greatest-integer function
greatly daring
greatness of heart
greatness of soul
grebe cloth
greco-
greedy as a hog
greedy eater
greedy guts
greedy-gut
greek catholic
greek cross
greek fire
green orthodox
green Chartreuse
green June beetle
green alga
green algae
green apple
green as grass
green bag
green ball
green bass
green bean
green belt
green blindness
green book
green card
green cheese
green cloth
green color
green copperas
green corn
green crab
green dragon
green earth
green fee
green fingers
green flash
green foxtail
green frog
green gland
green glass
green gold
green goods
green goose
green gram
green grass
green head
green heron
green in the eye
green lead ore
green leek
green light
green light
green man
green manure
green mint
green mold
green monkey
green mould
green mountain boy
green ocher
green oil
green old age
green onion
green osier
green paper
green pea
green pepper
green pigeon grass
green plover
green pound
green revolution
green rot
green salad
green salt
green sauce
green sea
green segment
green sickness
green snake
green soap
green strength
green stuff
green tea
green thumb
green turtle
green valley-grass
green vegetable
green vegetables
green verditer
green vitriol
green wattle
green way
green with envy
green with jealousy
green woodpecker
green-back herring
green-back trout
green-backed
green-backed goldfinch
green-bag
green-banded
green-barked
green-barked acacia
green-belt
green-black
green-blind
green-blue
green-bodied
green-boled
green-bordered
green-bottle fly
green-boughed
green-breasted
green-breasted pheasant
green-clad
green-crested
green-cross gas
green-cross shell
green- curtained
green-decked
green-ear disease
green-edged
green-embroidered
green-eyed
green-eyed jealousy
green-eyed monster
green-faced
green-feathered
green-fish
green-flowered
green-fly
green-fringed
green-garbed
green-gilled
green-glazed
green-gold
green-gray
green-grown
green-haired
green-headed
green-headed widgeon
green-house
green-hued
green-leaved
green-legged
green-mantled
green-peak
green-recessed
green-ribbed
green-room
green-rotted
green-salted
green-sand
green-seeded
green-shaving
green-sheathed
green-shining
green-skinned
green-sleeves
green-stained
green-stone
green-striped
green-suited
green-tail
green-tail fly
green-tailed
green-throated
green-tinted
green-tip spray
green-tipped
green-twined
green-veined
green-winged
green-winged teal
green-yard
green-yellow
greenbottle fly
greenhouse effect
greenhouse stone cricket
greenhouse thrips
greening weed
greenish-blue
greenish-flowered
greenish-yellow
greens fee
greensand process
greenstick fracture
greenwich time
greet the day
greet with a kiss
greet with skepticism
greeting card
gregorian calendar
gregorian chant
gregory-powder
grenade launcher
grenadine pink
grenadine red
grenz ray
gresham's law
gretna green
grey area
grey eminence
grey fox
grey friar
grey goose
grey heron
grey lag
grey market
grey matter
grey mullet
grey plover
grey squirrel
grey whale
grey wolf
grey-back
grey-cheeked
grey-coat
grey-eyed morn
grey-headed
grey-hen
grey-state
greyhound racing
greylag goose
grid battery
grid bias
grid capacitor
grid circuit
grid condenser
grid conductance
grid current
grid declination
grid emission
grid leak
grid line
grid metal
grid modulation
grid road
grid variation
grid voltage
grid-bias battery
grid-dip meter
grid-dip oscillator
grid-glow tube
grid-seal tube
gridle cake
gridle valve
gridiron drainage
gridiron pendulum
gridiron valve
gridiron-tailed lizard
grief dulled
grief oppressed
grief-bowed
grief-distraught
grief-exhausted
grief-inspired
grief-scored
grief-shot
grief-stricken
grief-worn
grievance committee
grieve for
grieve over
grieve with
grievous bodily harm
griffin-beaked
griffin-guarded
griffin-winged
griffon vulture
grievant
grigri man
grilled cheese sandwich
grim reality
grim reaper
grim-cheeked
grim-eyed
grim-faced
grim-featured
grim-frowning
grim-grinning
grim-looking
grim-set
grim-visaged
grimace at
grimm's law
grimy-handed
grin and abide
grin and bear it
grin at
grin like a Cheshire cat
grin like a chessy-cat
grind down
grind on
grind organ
grind to dust
grind to powder
grind whale
grind your teeth
grindery warehouse
grinding halt
grinding mill
grinding organ
grinding pain
grinding poverty
grinding stone
grinding wheel
grindle stone
grinning skull
grip block
grip car
grip of steel
grip sheave
grip tape
grip wheel
gripe piece
gripe water
gripe's egg
gripping instrument
gripping instruments
gripple-handed
gris-amber
gris-de-lin
gris-gris
grist to the mill
grist to your mill
grit cell
grit your teeth
gizzly bear
gizzly-bear cactus
groaning board
groaning cake
groaning chair
groans of roaring wind and rain
grocery store
grog blossom
grog lifter
groin point
groin rib
groin vault
grommet nut
groo-ggroo
groom's cake
groom-porter
groove board
groove on
groove-billed
grooving plane
grooving saw
grope for
grope in the dark
gros de Londres
gros de Tours
gros de naples
gros grain
gros point
gros points
gros tournois
gross amount
gross behavior
gross body
gross credulity
gross domestic product
gross falsehood
gross ignorance
gross income
gross injustice
gross interest
gross lift
gross national product
gross out
gross profit
gross receipts
gross register ton
gross register tonnage
gross ton
gross tonnage
gross up
gross weight
gross-beak
gross-bodied
gross-brained
gross-featured
gross-fed
gross-headed
gross-jawed
gross-lived
gross-mannered
gross-minded
gross-money
gross-money pool
gross-natured
gross-pated
gross-witted
grossly overpriced
grotto blue
ground alert
ground almond
ground angling
ground annual
ground annualer
ground ash
ground bait
ground ball
ground bass
ground beam
ground beef
ground beetle
ground birch
ground box
ground bridge
ground bundle
ground burnut
ground cable
ground cedar
ground centaury
ground chain
ground cherry
ground chestnut
ground chuck
ground circuit
ground cistus
ground clamp
ground cloth
ground clutter
ground coat
ground cock
ground color
ground combat
ground connection
ground control
ground control of aircraft
ground cover
ground crew
ground cricket
ground cuckoo
ground current
ground cypress
ground detector
ground dove
ground down
ground effect machine
ground elder
ground elevation
ground fern
ground finch
ground fir
ground fire
ground flax
ground flea
ground floor
ground fog
ground forces
ground form
ground game
ground gas
ground glass
ground gold-flower
ground goldenrod
ground goldflower
ground grue
ground hard and fast
ground hemlock
ground hog
ground holly
ground honeysuckle
ground ice
ground itch
ground ivory flower
ground ivy
ground jasmine
ground joist
ground juniper
ground lag
ground landlord
ground lark
ground laurel
ground layer
ground lead
ground lease
ground lemon
ground level
ground lily
ground line
ground liverwort
ground lizard
ground log
ground loop
ground mahogany
ground mail
ground mallow
ground shield
ground skidder
ground sloth
ground sluice
ground snake
ground sparrow
ground speed
ground squirrel
ground staff
ground starling
ground state
ground strake
ground stroke
ground substance
ground sweet
ground swell
ground table
ground tackle
ground test
ground tester
ground thistle
ground thrush
ground tier
ground timbers
ground tissue
ground tit
ground tone
ground tow
ground track
ground troops
ground vine
ground warbler
ground water
ground wave
ground ways
ground willow
ground wire
ground worm
ground wren
ground yew
ground your arms
ground zero
ground-ash
ground-attack fighter
ground-bait
ground-bird
ground-cherry
ground-control approach
ground-controlled approach
ground-down
ground-effect machine
ground-fast
ground-floor
ground-hog
ground-hog day
ground-ice
ground-ivy
ground-line
ground-man
ground-nut
ground-pea
ground-pine
ground-plan
ground-plate
ground-plot
ground-rent
ground-sea
ground-sheet
ground-sluicer
ground-squirrel
ground-squirrel pea
ground-support aircraft
ground-swell
ground-tackle
ground-to-air
ground-to-ground
ground-water level
grounded on
groundhog day
grounding connection
groundless rumor
groundnut oil
grounds for belief
grounds for war
grounds keeper
groundsel bush
groundsel tree
group agglutination
group analysis
group annuity
group ascendency
group breaker
group captain
group drive
group dynamics
group flashing light
group insurance
group life insurance
group marriage
group medicine

group method
group mind
group mixture
group occulting light
group of advisers
group payment
group policy
group practice
group pressure
group psychology
group psychotherapy
group rate
group relations training
group representation
group sensitivity training
group shot
group test
group theory
group therapy
group velocity
group will
group with operators
group work
group-connect
group-conscious
grouper pea
groups of languages
grouse disease
grouse locust
grount box
grount-head
grountlock brick
grove mast
grove palm
grove spar
grove tree
grow better
grow bright
grow cold
grow dark
grow dim
grow fat
grow from
grow hair
grow into
grow larger
grow light
grow like a weed
grow lush
grow old
grow on
grow on one
grow out of
grow over
grow pale
grow rank
grow red
grow rich
grow thick
grow to
grow together
grow up
grow weaker
grow weary
grow worse
growing degree-day
growing like a mushroom
growing lush
growing old
growing pains
growing point
growing rank
growing season
growing up
growl at
grown man
grown old
grown up
grown woman
grown-up
grown-upness
growth factor
growth force
growth form
growth fund
growth hormone
growth regulator
growth ring
growth shares
growth stock
grozing iron
grozing-iron
gru-gru
grub ax
grub beam
grub hoe
grub hook
grub out
grub plank
grub saw
grub screw
grub street
grub up
grub's on
grub-
grub-prairie
grub-street
grudging consent
grudging thanks
grugru beetle
grugru grub
grugru nut
grugru palm
grugru worm
grundy-swallow
grunt and sweat
grunting ox
gry-
guadalupe plum
guaiac reaction
guaiac test
guaiacol benzoate
guaiacol carbonate
guaiacum wood
guanay cormorant
guar gum
guarantee association
guarantee company
guarantee engineer
guaranteed annual income
guaranteed annual wage
guaranteed bond
guaranteed day
guaranteed day rate
guaranteed income
guaranteed income plan
guaranteed stock
guaranteed wage
guard against
guard band
guard boat
guard book
guard brush
guard cartridge
guard cell
guard chamber
guard dog
guard duty
guard flag
guard hair
guard line
guard lock
guard mount
guard mounting
guard of honor
guard pin
guard plate
guard report
guard ring
guard room
guard ship
guard wire
guard your honor
guard's van
guard-boat
guard-fish
guard-house
guard-rail
guard-room
guard-ship
guarda-costa
guarded secret
guardhouse lawyer
guardian ad litem
guardian angel
guardian spirit
guardroom table
guava apple
guayabera shirt
guayule rubber
gucki grand
gucki nullo
gudgeon pin
guilder rose
guilder-rose
guerre a mort
guerre a outrance
guerre de plume
guerrilla tactics
guerrilla theater
guerrilla warfare
guess right
guess-robe
guess-warp
guess-work
guest flag
guest house
guest of honor
guest pass
guest right
guest room
guest rope
guest ticket
guest-chamber
guest-robe
guest-warp
guet-apens
guide block
guide center
guide dog
guide flag
guide fossil
guide left
guide meridian
guide mill
guide one's ear
guide pennant
guide pulley
guide rail
guide right
guide rope
guide word
guide yourself
guide-book
guide-post
guided control
guided missile
guided missile cruiser
guided wave
guider-in
guiding light
guiding principle
guiding principles
guiding star
guiding telescope
guild merchant
guild socialism
guild socialist
guild tree
guild-brother
guild-hall
guild-socialistic
guillotine amputation
guillotine shears
guilt offering
guilt-feelings
guilty act
guilty conscience
guilty verdict
guilty-cup
guinea cock
guinea flower
guinea fowl
guinea gold
guinea goose
guinea grains
guinea grass
guinea hen
guinea pepper
guinea pig
guinea rush
guinea sorrel
guinea trade
guinea worm
guinea-cock
guinea-fowl
guinea-hen
guinea-hen flower
guinea-hen weed
guinea-man
guinea-pea
guinea-pig
guipure lace
guise dancer
guit-guit
guitar fiddle
guitar mandolin
guitar plant
guitar wood
guitar-picker
guitar-shaped
gulf rupee
gulf stream
gulf-weed
gull chaser
gull grass
gull gray
gull teaser
gull wing
gull-billed
gull-like
gull-wing
gullet plate
gullet worm
gulleting file
gullible person
gully erosion
gully knife
gully root
gully washer
gully-raker
gulp down
gulper eel
gum acacia
gum acaroides
gum accroides
gum acid
gum acroides
gum aloes
gum ammoniac
gum angico
gum anime
gum animi
gum arabic
gum archipin
gum benjamin
gum benzoin
gum boot
gum bush
gum butea
gum camphor
gum cistus
gum copal
gum dammar
gum disease
gum dragon
gum duct
gum elastic
gum elemi
gum euphorbium
gum flux
gum foam
gum galbanum
gum gattie
gum guaiac
gum guaiacum
gum guaiacum
gum guttae
gum hashab
gum juniper
gum kauri
gum kino
gum labdanum
gum mastic
gum mogador
gum myrrh
gum nut
gum olibanum
gum opoponax
gum plant
gum pocket
gum rash
gum resin
gum resins
gum rosin
gum sagapenum
gum sandarac
gum savakin
gum shellac
gum shiraz
gum silk
gum soap
gum spirit
gum spirits
gum spot
gum stick
gum storax
gum succory
gum sugar
gum thus
gum tragacanth
gum tree
gum turpentine
gum up
gum up the works
gum water
gum-bichromate
gum-dichromate
gum-gum
gum-lac
gum-lac insect
gum-myrtle
gum-resinous
gum-saline
gum-shrub
gum-top
gum-top tree
gum-tree
gumbo grass
gumbo lily
gumbo limbo
gumbo soil
gumbo-limbo
gumbo-limbos
gumby bird
gummed up
gumming disease
gumming spade
gummy-legged
gumshoe man
gun assembler
gun barrel
gun bearer
gun boat
gun bore
gun breech
gun brig
gun captain
gun carriage
gun chamber
gun crew
gun deck
gun director
gun dog
gun down
gun emplacement
gun fight
gun fighter
gun fighting
gun firing
gun for
gun forger
gun forging
gun glaze
gun iron
gun lathe
gun loader
gun locksmith
gun makes
gun metal
gun moll
gun money
gun mount
gun park
gun parts
gun pendulum
gun pit
gun platform
gun power
gun room
gun sight
gun slide
gun tackle
gun-barrel lathe
gun-boat
gun-carrying
gun-cleaning
gun-cotten
gun-deck
gun-directing radar
gun-equipped
gun-man
gun-metal
gun-metal gray
gun-mounted
gun-rivet
gun-room
gun-shot
gun-shy
gun-shyness
gun-stock
gun-testing
gun-toting
gunboat diplomacy
gunboat system
gunebo lily
gung ho
gung-ho
gunk hole
gunnery mission
gunnery oficer
gunnery sergeant
gunny bag
gunny cloth
gunny sack
gutta semarum
gutta serena
gutta siak
gutta singarip
gutta soh
gutta sundek
gutta sundik
gutta susu
gutta taban puteh
gutta-gum
gutta-gum tree
gutta-percha
guttae band
gutter press
gutter stick
gutter tree
gutter-blood
gutter-bred
gutter-grubbing
gutter-snipe
guttering trowel
gutturo-
guy cap
guy fawkes day
guy rope
gy-
gyle-fat
gym pants
gym shoe
gym shoes
gym suit
gymn-
gymnastic exercises
gymno-
gyn-
gynaeco-
gynandro-
gynec-
gyneco-
gyno-
gynocardia oil
gyp artist
gyp joint
gyp-room
gypsum burner
gypsum pink
gypsum plaster
gypsy capstan
gypsy moth
gypsy scale
gypsy setting
gypsy winch
gypsy-like
gyr-
gyre carline
gyre carling
gyre upward
gyring up
gyro horizon
gyro mechanism
gyro pelorus
gyro repeater
gyro-
gyromagnetic ratio
gyroscopic compass
gyroscopic pilot
gyroscopic stabilizer
gyrostatic compass
h and c
h-bar
h-bomb
ha ha
ha-Nasi
ha-ha
hab-nab
habeas corpora
habeas corpus
habeas corpus ad prosequendum
habeas corpus ad subjiciendum
habeas corpus ad testificandum
habeas corpus cum causa
habere facias possessionem
habere facias seisinam
habit pattern
habit shirt
habit spasm
habit-forming
habitat form
habitat group
habitual criminal
habitual drunkenness
habitual liar
habitual offender
habitual smoking
hack board
hack file
hack hammer
hack house
hack it
hack out a deal
hack saw
hack watch
hack writer
hack-
hack-me-tack
hack-work
hacking coat
hacking jacket
hacking knife
hacking out a deal
hackle fly
hackney carriage
hackney chair
hackney coach
hackney pony
hackney-carriage
hackney-chair
hackney-coach
hackney-man
hackneyed expression
hackneyed saying
hacksaw fern
had best
had better
had it
had rather
haem-
haema-
haemat-
haemato-
haemato-crystallin
haemato-globulin
haemo-
haemorrhagic measles
hag clog
hag moth
hag-boat
hag-ridden
hag-taper
hagi-
hagio-
haikwan tael
hail and speak
hail fellow
hail from
hail insurance
hail mary
hail-fellow
hail-fellow well met
hail-fellow-well-met
hail-shot
hailing distance
hair ball
hair bleacher
hair braid
hair bramble
hair brown
hair cap moss
hair carder
hair cell
hair clipper
hair color
hair compass
hair crimper
hair curler
hair drawer
hair dye
hair dyeing
hair dyer
hair eel
hair fern
hair follicle
hair glove
hair grass
hair grip
hair hygrometer
hair kiln
hair lacquer
hair mattress
hair moss
hair moth
hair net
hair of the dog
hair of the dog that bit one
hair of the dog that bit you
hair oil
hair orchid
hair palm
hair pencil
hair powder
hair pyrites
hair remover
hair restorer
hair ribbon
hair salt
hair seal
hair sheep
hair shirt
hair sieve
hair slide
hair snake
hair sofa
hair sorter
hair space
hair straightener
hair stroke
hair stylist
hair tonic
hair trigger
hair trunk
hair wash
hair washer
hair waver
hair's-breadth
hair-branch tree
hair-check
hair-checking
hair-drawn
hair-drier
hair-fibered
hair-grass
hair-lace
hair-line
hair-lip
hair-powder
hair-raiser
hair-raising
hair-shirt
hair-sieve
hair-splitter
hair-splitting
hair-stemmed
hair-streak
hair-stroke
hair-trigger
hair-waving
hair-worm
hairbreadth escape
hairbrush cactus
haircap moss
hairpin bend
hairpin megaron
hairpin turn
hairs-breadth
hairy frog
hairy heart
hairy vetch
hairy wattle
hairy willowherb
hairy woodpecker
hairy-armed
hairy-chested
hairy-clad
hairy-dog story
hairy-eared
hairy-faced
hairy-foot
hairy-footed
hairy-fruited
hairy-handed
hairy-headed
hairy-legged
hairy-looking
hairy-skinned
hairy-tailed mole
hairytail mole
hal-
halade mystai
halberd fern
halberd-headed
halberd-leaved
halberd-shaped
halcyon bird
halcyon days
hale and hearty
hale bind
hale into court
hale old age
hale water
hale-nut
half G
half Wellington
half a C
half a chance
half a dozen
half a gale
half a hundred
half a jiffy
half a mo
half a second
half a shake
half after
half an eye
half an idea
half anatropous
half angel
half armor
half asleep
half aunt
half ball
half believe
half binding
half bird
half bishop
half block
half blood
half board
half boot
half boots
half brau
half broad
half brother
half bull
half butt
half cadence
half cent
half chronometer
half circle
half close
half cloth
half cock
half column
half cone
half court
half cousin
half cross stitch
half crown
half curlew
half cushion
half davit
half deck
half dime
half diphthong
half dollar
half eagle
half facet
half frame
half gainer
half galley
half gerund
half grand
half header
half hitch
half holiday
half hose
half hour
half hunter
half island
half joe
half landing
half large
half leather
half life
half line
half mask
half measure
half measures
half mile
half model
half mourning
half nelson
half nephew
half niece
half noble
half note
half nut
half past
half pay
half pint
half plane
half points
half port
half principal
half rations
half ray
half relief
half rest
half rhyme
half ring
half ripsaw
half royal
half rupee
half scholar
half seal
half seas over
half sheave
half shell
half shirt
half shoe
half sir
half sister
half size
half small
half snipe
half sol
half sole
half sovereign
half space
half speed
half step
half stitch
half stock
half story
half stuff
half term
half tide
half timber
half time
half tint
half title
half tone
half trap
half twist
half uncial
half uncle
half volley
half vowel
half year
half-
half-American
half-Americanized
half-Anglicized
half-Aristotelian
half-Asian
half-Asiatic
half-Beaufort scale
half-Christian
half-Confederate
half-Creole
half-Dacron
half-Elizabethan
half-English
half-French
half-German
half-Greek
half-Hessian
half-Irish
half-Italian
half-Latinized
half-Mexican
half-Mohammedan
half-Moslem
half-Muhammadan
half-Muslim
half-Russian
half-Scottish
half-Semitic
half-Shakespearean
half-Spanish
half-a-crown
half-a-dollar
half-abandoned
half-accustomed
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-afloat
half-afraid
half-agreed
half-alike
half-alive
half-altered
half-and-half
half-and-half measures
half-angrily
half-angry
half-annoyed
half-annoying
half-annoyingly
half-ape
half-armed
half-armor
half-calf
half-cap
half-carried
half-caste
half-cell
half-cent
half-centuries
half-century
half-chanted
half-cheek
half-civil
half-civilized
half-civilly
half-clad
half-cleaned
half-clear
half-clearly
half-climbing
half-closed
half-closing
half-clothed
half-coaxing
half-coaxingly
half-cock
half-cocked
half-colored
half-completed
half-concealed
half-concealing
half-confessed
half-congealed
half-conquered
half-conscious
half-consciously
half-conservative
half-conservatively
half-consonant
half-consumed
half-consummated
half-contemptuous
half-contemptuously
half-contented
half-contentedly
half-convicted
half-convinced
half-convincing
half-convincingly
half-cooked
half-cordate
half-corrected
half-cotton
half-counted
half-courtline
half-cousin
half-covered
half-cracked
half-crazed
half-crazy
half-critical
half-critically
half-crown
half-crumbled
half-crumbling
half-cured
half-cut
half-dark
half-day
half-dazed
half-dead
half-dead escapement
half-deaf
half-deafened
half-deafening
half-decade
half-deck
half-decked
half-decker
half-defiant
half-defiantly
half-deified
half-demented
half-democratic
half-demolished
half-denuded
half-deprecating
half-deprecatingly
half-deserved
half-deservedly
half-destroyed
half-developed
half-digested
half-dime
half-discriminated
half-discriminating
half-disposed
half-divine
half-filled
half-finished
half-firkin
half-fish
half-flattered
half-flattering
half-flatteringly
half-flood
half-florin
half-folded
half-foot
half-forgiven
half-forgotten
half-formed
half-forward
half-frowning
half-frowningly
half-frozen
half-fulfilled
half-fulfilling
half-full
half-furnished
half-gallon
half-gill
half-god
half-great
half-grown
half-guinea
half-hard
half-hardy
half-harvested
half-headed
half-healed
half-heard
half-heARTed
half-heathen
half-hidden
half-hitch
half-holiday
half-hollow
half-horse
half-hour
half-hour glass
half-hourly
half-human
half-hungered
half-hunter
half-hypnotized
half-imperial
half-important
half-importantly
half-inch
half-inclined
half-indignant
half-indignantly
half-inferior
half-informed
half-informing
half-informingly
half-ingenious
half-ingenuously
half-inheritance
half-informed
half-informing
half-informingly
half-ingenious
half-ingenuously
half-inherited
half-insinuated
half-insinuating
half-insinuatingly
half-instinctive
half-instinctively
half-intellectual
half-intellectually
half-intelligible
half-intelligibly
half-intoxicated
half-invalid
half-invalidly
half-iron
half-island
half-jack
half-jelled
half-joking
half-jokingly
half-justified
half-knot
half-know
half-languaged
half-languishing
half-lap joint
half-lapped
half-lattice girder
half-latticed
half-learned
half-learnedly
half-learning
half-leather
half-nephew
half-niece
half-noble
half-normal
half-normally
half-note
half-numb
half-nylon
half-obliterated
half-offended
half-on
half-one
half-open
half-opened
half-oriental
half-orphan
half-oval
half-oxidized
half-pace
half-pay
half-peck
half-petrified
half-pike
half-pint
half-pipe
half-pitch
half-plane
half-plate
half-playful
half-playfully
half-pleased
half-pleasing
half-plucked
half-port
half-pound
half-pounder
half-praised
half-praising
half-present
half-price
half-profane
half-professed
half-profile
half-proletarian
half-protested
half-protesting
half-proved
half-proven
half-provocative
half-quarter
half-quarterly
half-questioned
half-questioningly
half-quire
half-quixotic
half-quixotically
half-radical
half-radically
half-rater
half-raw
half-rayon
half-reactionary
half-read
half-reasonable
half-reasonably
half-reasoning
half-rebellious
half-rebelliously
half-reclaimed
half-reclined
half-reclining
half-refined
half-regained
half-reluctant
half-reluctantly
half-remonstrant
half-repentant
half-republican
half-retinal
half-revealed
half-reversed
half-rhyme
half-right
half-ripe
half-ripened
half-roasted
half-rod
half-romantic
half-romantically
half-rotted
half-rotten
half-round
half-round file
half-rueful
half-ruefully
half-ruined
half-run
half-russia
half-sagittate
half-savage
half-savagely
half-saved
half-seal
half-seas over
half-seas-over
half-second
half-section
half-seen
half-sensed
half-serious
half-seriously
half-severed
half-shade
half-shamed
half-share
half-shared
half-sheathed
half-shoddy
half-shot
half-shouted
half-shroud
half-shrub
half-shrubby
half-shut
half-shy
half-shyly
half-sib
half-sibling
half-sighted
half-sightedly
half-sightedness
half-silk
half-sinking
half-sister
half-size
half-sleeve
half-sleeved
half-slip
half-smile
half-smiling
half-smilingly
half-smothered
half-snipe
half-sole
half-soled
half-solid
half-soling
half-souled
half-sovereign
half-spoonful
half-spun
half-squadron
half-staff
half-starved
half-starving
half-step
half-sterile
half-stock
half-stocking
half-stopped
half-strain
half-strained
half-stroke
half-strong
half-stuff
half-subdued
half-submerged
half-successful
half-successfully
half-succulent
half-suit
half-sung
half-sunk
half-sunken
half-swing
half-sword
half-syllabled
half-taught
half-tearful
half-tearfully
half-teaspoonful
half-tented
half-terete
half-term
half-theatrical
half-thickness
half-thought
half-tide
half-tide dock
half-timber
half-timbered
half-time
half-time intermission
half-timer
half-title
half-title page
half-tone
half-tongue
half-track
half-tracked
half-trained
half-training
half-translated
half-true
half-truth
half-truths
half-turn
half-turn stair
half-turned
half-turning
half-understood
half-undone
half-used
half-utilized
half-value layer
half-veiled
half-vellum
half-verified
half-vexed
half-visibility
half-visible
half-volley
half-volleyed
half-volleyer
half-volleying
half-vowelish
half-waking
half-wave rectification
half-wave rectifier
half-way
half-whispered
half-whisperingly
half-white
half-wicket
half-wild
half-wildly
half-willful
half-willfully
half-winged
half-wit
half-witted
half-wittedly
half-wittedness
half-womanly
half-won
half-woolen
half-word
half-world
half-worsted
half-woven
half-written
half-year
half-yearly
halfhead bedstead
halfhearted thanks
halfpenny post
halftone engraving
halfway covenant
halfway file
halfway house
halfway in the middle
halfway mark
halfway measures
halfway place
halfway point
halfway station
halibut-liver oil
haling hands
hall bedroom
hall of residence
hall stand
hall tree
hall-door
hall-mark
hall-of-famer
hallelujah meter
hallow-e'en
hallow-tide
hallowed be Thy Name
hallucinatory painting
hallux valgus
halo blight
halo spot
halo-
halo-bright
halo-crowned
halo-girt
halogen gas
halter-sack
halter-wise
halting meters
halve together
ham actor
ham and eggs
ham it up
ham operator
ham rig
ham sandwich
ham shack
ham station
ham steak
ham transmitter
ham-fisted
ham-handed
ham-handedness
hamadryas baboon
hamber line
hamber-line
hamburg steak
hamburger stand
hame tug
hamitic languages
hamito-semitic
hamito-semitic languages
hammer and sickle
hammer and tongs
hammer at
hammer away
hammer away at
hammer ax
hammer beam
hammer blow
hammer break
hammer butt
hammer cap
hammer crane
hammer drill
hammer dulcimer
hammer gun
hammer into your head
hammer lock
hammer maker
hammer mill
hammer molding
hammer out
hammer out a deal
hammer oyster
hammer pick
hammer pike
hammer pond
hammer price
hammer rail
hammer scale
hammer sedge
hammer shank
hammer shell
hammer slag
hammer spring
hammer tail
hammer throw
hammer thrower
hammer throwing
hammer tongs
hammer welding
hammer-beam
hammer-cloth
hammer-hard
hammer-harden
hammer-head
hammer-proof
hammer-refined
hammer-shaped
hammer-strong
hammer-weld
hammer-welded
hammer-wrought
hammered work
hammerhead shark
hammerheaded shark
hammering glass
hammering out a deal
hamming up
hammock batten
hammock berthing
hammock clew
hammock cloth
hammock netting
hammy acting
hance arch
hancing piece
hand a sail
hand alphabet
hand and foot
hand and glove
hand ax
hand baggage
hand bell
hand blocker
hand brake
hand brush
hand camera
hand cannon
hand cheese
hand clapping
hand cleaner
hand composition
hand cream
hand director
hand down
hand drill
hand driller
hand dynamometer
hand embroidery
hand feeder
hand firer
hand fishing
hand flail
hand for hand
hand forward
hand gallop
hand gear
hand glass
hand goniometer
hand graver
hand grenade
hand guard
hand gun
hand hoe
hand hoer
hand hook
hand horn
hand in
hand in glove
hand in hand
hand in your checks
hand in your chips
hand in your resignation
hand infection
hand iron
hand ironer
hand it to
hand job
hand knitter
hand labor
hand laborer
hand language
hand laundry
hand lead
hand lens
hand letter
hand level
hand line
hand list
hand log
hand loom
hand lotion
hand luggage
hand mast
hand mill
hand miller
hand milling machine
hand miner
hand mirror
hand mixer
hand molder
hand money
hand mule
hand of death
hand of friendship
hand of glory
hand of writ
hand off
hand on
hand orchis
hand organ
hand out
hand over
hand over fist
hand over hand
hand over head
hand over your sword
hand paper
hand pitching
hand planer
hand plant
hand plate
hand play
hand plow
hand polisher
hand press
hand print
hand promise
hand pump
hand pumper
hand punch
hand riveter
hand roller
hand rope
hand running
hand screw
hand scroll
hand set
hand sewer
hand signal
hand spar
hand spinning
hand splicer
hand stitcher
hand sweep
hand tap
hand tight
hand tissue
hand to hand
hand to mouth
hand tool
hand tooling
hand towel
hand tree
hand trimmer
hand truck
hand turner
hand up an indictment
hand vote
hand weaver
hand weeder
hand worker
hand your name down to posterity
hand's turn
hand's-breadth
hand-ax
hand-ball
hand-barrow
hand-beaten
hand-blocked
hand-blow
hand-bound
hand-broad
hand-broken
hand-built
hand-canter
hand-carry
hand-cart
hand-carve
hand-chase
hand-churn drill
hand-clasp
hand-clean
hand-closed
hand-colored
hand-comb
hand-crushed
hand-culverin
hand-cut
hand-dress
hand-drill
hand-drop
hand-dug
hand-embroidered
hand-fed
hand-feed
hand-feeding
hand-fill
hand-filled
hand-fire
hand-fives
hand-fold
hand-footed
hand-glass
hand-grenade
hand-habend
hand-held
hand-hewn
hand-hidden
hand-high
hand-in
hand-in-glove
hand-in-hand
hand-knit
hand-knitted
hand-knitting
hand-knotted
hand-labour
hand-lettered
hand-line
hand-liner
hand-list
hand-loom
hand-opped
hand-made
hand-me-down
hand-me-downs
hand-mill
hand-minded
hand-mindedness
hand-mix
hand-mold
hand-off
hand-operated
hand-organist
hand-out
hand-packed
hand-pick
hand-picked
hand-pitched
hand-play
hand-pollinate
hand-pollination
hand-power
hand-presser
hand-pressman
hand-printing
hand-pump
hand-rail
hand-rear
hand-reared
hand-rinse
hand-rivet
hand-roll
hand-rub
hand-rubbed
hand-sent
hand-sew
hand-sewn
hand-shackled
hand-sort
hand-splice
hand-split
hand-spun
hand-staff
hand-stamp
hand-stamped
hand-stitch
hand-stuff
hand-tailor
hand-tailored
hand-taut
hand-thrown
hand-tied
hand-tight
hand-to-hand
hand-to-hand combat
hand-to-hand fight
hand-to-mouth
hand-to-mouth existence
hand-tooled
hand-treat
hand-trim
hand-turn
hand-vice
hand-wash
hand-weave
hand-weed
hand-worked
hand-woven
hand-wrist
hand-wrought
handed down
handflower tree
handful of thumbs
handicap race
handicapped person
handicapped, the
handicraft economy
handie-talkie
handing over
handkerchief table
handle bar
handle bars
handle blank
handle it just right
handle to your name
handle with gloves
handle with kid gloves
handle with velvet gloves
handle yourself
handle yourself well
handle-bar mustache
handlebar moustache
handmaid moth
handrail bolt
hands down
hands of
hands-down
hands-off
hands-off policy
handsome fortune
handsome-featured
handwriting expert
handwriting on the wall
handy at
handy man
handy-andies
handy-andy
handy-billy
handy-dandy
handy-pandy
handy-spandy
hang about
hang about at
hang around
hang around at
hang around with
hang back
hang behind
hang by a thread
hang by the eyelids
hang by the neck
hang crepe
hang down
hang fire
hang glider
hang heavy on your hands
hang in
hang in doubt
hang in effigy
hang in space
hang in suspense
hang in the balance
hang in there
hang it
hang like a millstone
hang net
hang off
hang on
hang on for dear life
hang on like a bulldog
hang on like a leech
hang on the lips
hang on the lips of
hang on the skirts of
hang on the sleeve of
hang on to
hang on your words
hang one on
hang open
hang out
hang out at
hang out with
hang out your shingle
hang over
hang over your head
hang something on
hang the expense
hang the jury
hang together
hang tough
hang up
hang up your hat
hang up your shingle
hang up your spurs
hang upon
hang upon the skirts of
hang your head
hang your lip
hang-
hang-back
hang-by
hang-choice
hang-dog
hang-down
hang-fair
hang-glider
hang-head
hang-nail
hang-over
hang-up
hangdog look
hanger board
hanger bolt
hanger-back
hanger-on
hanger-up
hangers-on
hanging buttress
hanging by a thread
hanging compass
hanging fixture
hanging gardens
hanging indention
hanging lie
hanging on
hanging out
hanging over your head
hanging post
hanging rail
hanging scroll
hanging step
hanging stile
hanging valley
hanging wall
hanging-drop culture
hangman's hands
hangman's knot
hangman's rope
hank-type antenna
hanker after
hankey-pankey
hanky-panky
hanse house
hansen's disease
hansom cab
hapax legomena
hapax legomenon
haplo-
haplo-
haploid number
happen along
happen as expected
happen by
happen by chance
happen on
happen over and over
happen to be
happen together
happen upon
happen what may
happy as a baby boy
happy as a clam at high water
happy as a king
happy as a lark
happy as the day is long
happy chance
happy expectation
happy family
happy fortune
happy hour
happy hunting ground
happy landing
happy medium
happy thought
happy warrior
happy-go-luckiness
happy-go-lucky
happy-go-luckyism
hara-kin
hara-ki
harbinger-of-spring
harbingers-of-spring
harbor a design
harbor a feeling
harbor an idea
harbor deck
harbor doubts
harbor due
harbor furl
harbor gasket
harbor log
harbor master
harbor of refuge
harbor pilot
harbor porpoise
harbor resentment
harbor revenge
harbor seal
harbor stow
harbor suspicions
harbor the hope
harbor watch
harbour master
harbour seal
hard alee
hard and fast
hard and fast rule
hard aport
hard as a rock
hard as nails
hard astarboard
hard at it
hard at work
hard aweather
hard bargain
hard binding
hard blow
hard book
hard bop
hard by
hard candy
hard cash
hard chancre
hard cheese
hard cider
hard clam
hard coal
hard copy
hard core
hard court
hard currency
hard dinkum
hard drink
hard drinker
hard drug
hard fact
hard feelings
hard fern
hard fescue
hard frost
hard goods
hard grass
hard grind
hard ground
hard hat
hard head
hard heart
hard image
hard information
hard job
hard knocks
hard labor
hard labour
hard landing
hard lay
hard lead
hard life
hard line
hard lines
hard liquor
hard look
hard lot
hard luck
hard man with a buck
hard maple
hard market
hard mass
hard masse
hard master
hard money
hard news
hard nut to crack
hard oat grass
hard of belief
hard of hearing
hard of heart
hard on
hard on the eyes
hard over
hard palate
hard paste
hard pinch
hard pressed
hard pull
hard put
hard put to it
hard resin
hard resins
hard road to travel
hard rock
hard roe
hard roll
hard row of stumps
hard row to hoe
hard rubber
hard sauce
hard sell
hard shadow
hard shell
hard shoulder
hard sign
hard solder
hard stuff
hard tick
hard times
hard to believe
hard to please
hard to understand
hard tube
hard up
hard upon
hard usage
hard use
hard water
hard weather
hard wheat
hard winter
hard word
hard words
hard work
hard-acquired
hard-and-fast
hard-and-fastness
hard-bake
hard-baked
hard-barked
hard-beating
hard-bill
hard-billed
hard-biting
hard-bitted
hard-bitten
hard-bittenness
hard-boil
hard-boiled
hard-boiledness
hard-boned
hard-bought
hard-bred
hard-coated
hard-contested
hard-cooked
hard-core
hard-core pornography
hard-cover book
hard-cured
hard-drawn
hard-dried
hard-drinking
hard-driven
hard-driving
hard-drying
hard-earned
hard-edge
hard-edged
hard-eyed
hard-faced
hard-fated
hard-favored
hard-favoredness
hard-favoured
hard-favouredness
hard-feathered
hard-featured
hard-featuredness
hard-fed
hard-fighting
hard-finished
hard-fired
hard-fisted
hard-fistedness
hard-fleshed
hard-fought
hard-gained
hard-got
hard-grained
hard-haired
hard-handed
hard-handled
hard-hat
hard-headed
hard-heart
hard-hearted
hard-hit
hard-hitting
hard-hitting campaign
hard-iron
hard-laid
hard-learned
hard-line
hard-living
hard-looking
hard-luck guy
hard-minded
hard-mouthed
hard-natured
hard-nosed
hard-nosedness
hard-of-hearing
hard-of-hearing aid
hard-pan
hard-paste porcelain
hard-plucked
hard-pressed
hard-pushed
hard-ridden
hard-riding
hard-rock geology
hard-run
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-shelled
hard-skinned
hard-spirited
hard-spun
hard-surface
hard-surfaced
hard-swear
hard-tack
hard-timbered
hard-trotting
hard-tube pulser
hard-upness
hard-uppishness
hard-used
hard-visaged
hard-wearing
hard-witted
hard-won
hard-wooded
hard-worked
hard-working
hard-wrought
hard-wrung
harden off
harden up
harden your heart
hardening of the arteries
hardhead sponge
hardly a chance
hardly any
hardly anything
hardly ever
hardly expect
hardly like
hardly possible
hardly the thing
hardly touch
hardly wait
hardness of hearing
hardness of heart
hardness scale
hardtop convertible
hardware cloth
hardware store
hardwood tree
hardy ageratum
hardy amaryllis
hare and hounds
hare family
hare's-ear
hare's-foot
hare's-foot clover
hare's-foot fern
hare-brain
hare-brained
hare-eyed
hare-finder
hare-lip
hare-mad
harebrained idea
harem girl
hari-kari
hariali grass
haricot vert
hark back
hark back to
hark ye
harken to
harlequin bug
harlequin ca
harlequin cabbage bug
harlequin duck
harlequin glasses
harlequin opal
harlequin snake
harlequin table
harmless teasing
harmonic analysis
harmonic close
harmonic conjugates
harmonic flute
harmonic interval
harmonic mean
harmonic minor
harmonic minor scale
harmonic motion
harmonic progression
harmonic proportion
harmonic series
harmonic tone
harmonious relationship
harmonize with
harmony of the spheres
harness bull
harness cask
harness eye
harness hitch
harness horse
harness leather
harness maker
harness making
harness plate
harness race
harness racer
harness racing
harness tub
harness up
harness-bearer
harness-cask
harnessed antelope
harp groat
harp guitar
harp on
harp seal
harp shell
harp shilling
harp upon
harp upon one string
harp upon the same string
harp-shaped
harping-iron
harpoon fork
harpoon gun
harpoon log
harpoon rocket
harpy bat
harpy eagle
harpy-bat
harpy-eagle
harpy-footed
harrier eagle
harrier hawk
harrow the ear
harry out
harry to destruction
harsh and shrill sounds
harsh sound
harsh-blustering
harsh-featured
harsh-grating
harsh-looking
harsh-mannered
harsh-sounding
harsh-syllabed
harsh-tongued
harsh-voiced
hart beest
hart clover
hart thorn
hart's tongue
hart's-tongue
harts-tongue
hartshorn bush
hartshorn plant
hartshorn plantain
harum-scarum
harum-scarumness
harvest bell
harvest bug
harvest dinner
harvest doll
harvest festival
harvest fish
harvest fly
harvest home
harvest lady
harvest lily
harvest lord
harvest louse
harvest mite
harvest month
harvest moon
harvest mother
harvest mouse
harvest queen
harvest spider
harvest supper
harvest tick
harvest time
harvest work
harvest worker
harvest yarn
harvest-bug
harvest-field
harvest-lice
harvester ant
harvester-thresher
harvesting ant
has-been
hash house
hash mark
hash over
hash up
hash-slinger
hashab tree
hashed up
hasp lock
hassock grass
hasta la vista
hasta luego
hasta manana
hastato-
hasten off
hasten on
hasty conviction
hasty pudding
hasty retreat
hat blocker
hat carder
hat check
hat cleaner
hat dance
hat dyer
hat homage
hat hook
hat in hand
hat leather
hat lining
hat maker
hat money
hat palm
hat piece
hat pin
hat plant
hat rack
hat roller
hat shop
hat stand
hat tree
hat trick
hat trimming
hat-in-hand
hat-money
hat-shag
hat-shaped
hatch a plot
hatch boat
hatch box
hatch coamings
hatch deck
hatch mast
hatch money
hatch tackle
hatch up
hatch-boat
hatchet cactus
hatchet door
hatchet face
hatchet job
hatchet man
hatchet planimeter
hatchet stake
hatchet vetch
hatchet-faced
hatchet-shaped
hatching spine
hatching station
hate sheet
hate yourself for your actions
hated thing
hatha-yoga
hatted kit
haughty airs
haul around
haul down
haul down your colors
haul down your flag
haul in with
haul into court
haul off
haul over the coals
haul round
haul the wind
haul to
haul up
haul your wind
haulage incline
hauling down
haunch bone
haunch-bone
haunt the memory
haunt your thoughts
haunted with fear
hausse-col
haut couture
haut monde
haut-gout
haut-pas
haut-relief
haut-ton
hautbois strawberry
haute cole
haute couture
haute cuisine
haute ecole
haute mal
haute vulgarisation
haute-feuillite
haute-piece
have a BM
have a baby
have a bad time
have a bad time of it
have a ball
have a bee in your bonnet
have a bellyful
have a bellyful of
have a bent for
have a bias
have a big bazoo
have a big mouth
have a big nose
have a blind side
have a blind spot
have a bone in your neck
have a bone in your throat
have a bone to pick
have a bone to pick with
have a bone to pick with someone
have a bowel movement
have a brush with
have a bump for
have a cake in the oven
have a canary
have a care
have a case
have a case on
have a cat fit
have a catch
have a certain sameness
have a certain state
have a chance
have a chance at
have a change of heart
have a charmed life
have a chill
have a chip on your shoulder
have a clean bill of health
have a clear conscience
have a comedown
have a conniption
have a conniption fit
have a cozy chat
have a crow to pick
have a crow to pick with
have a crow to pluck
have a crow to pluck with
have a crow to pull with
have a crush on
have a demon
have a devil
have a devil in one
have a devil in you
have a disaffinity for
have a dram
have a drink
have a drop too much
have a dry run
have a duck fit
have a faculty for
have a falling-out
have a fancy for
have a feeling
have a fine time of it
have a finger in
have a finger in the pie
have a flair for
have a fling at
have a fondness for
have a free hand
have a free mind
have a friendly chat
have a funny feeling
have a gargle
have a gift for
have a go
have a go at
have a gold mine
have a good appetite
have a good chance
have a good head for
have a good knowledge of
have a good mind to
have a good time
have a good time of it
have a good word for
have a great mind to
have a guzzle
have a hand in
have a handful of thumbs
have a hard time of it
have a head on your shoulders
have a healthy lead
have a heart
have a heart of stone
have a heart-to-heart talk
have a hemorrhage
have a high opinion of
have a hold over
have a hunch
have a jag on
have a job
have a joker
have a joker in the deck
have a kicker
have a lech for
have a leg to stand on
have a little learning
have a little talk
have a long nose
have a look at
have a looksee
have a lot to do with
have a lot to say about
have a mash on
have a memory like a sieve
have a mind like a sieve
have a mind of your own
have a mind to
have a mint
have a misery
have a mishap
have a monkey on your back
have a mortgage-burning party
have a mote in the eye
have a near miss
have a nerve
have a nervous breakdown
have a nest egg
have a nice trip
have a nip
have a part in
have a partiality
have a percentage of
have a picture of
have a piece of
have a premonition
have a presentiment
have a rehearsal
have a relapse
have a relish of
have a right to
have a rightful claim to
have a rightful claim upon
have a run
have a run of luck
have a screw loose
have a sensation
have a short attention span
have a short fuse
have a short memory
have a short memory span
have a shot at
have a show of hands
have a skinful
have a slight chance
have a small chance
have a snootful
have a soft place in your heart
have a soft spot in your heart
have a stake in
have a storm in a teacup
have a storm in a teapot
have a string attached
have a stroke of luck
have a strong effect
have a swelled head
have a talent for
have a talk with
have a tantrum
have a tapeworm
have a taste for
have a temper
have a temper tantrum
have a tempest in a teacup
have a tempest in a teapot
have a tendency
have a tender heart
have a test run
have a theory
have a thick skin
have a thing about
have a thorough knowledge of
have a tiger by the tail
have a title to
have a tongue in your head
have a turn for
have a very red face
have a voice in
have a way with one
have a way with you
have a weakness for
have a will of your own
have a willing heart
have a wolf in your stomach
have a word with
have a yellow streak
have a yen for
have about enough of
have accounts to settle
have all the earmarks of
have all the features of
have all the luck
have all the money in the world
have all the signs of
have all to yourself
have all you can stand
have all you can take
have all your eyes about one
have all your eyes about you
have all your marbles
have all your wits about one
have all your wits about you
have a look at
have an account with
have an ague
have an alias
have an anchor to windward
have an attraction
have an ax to grind
have an ear for
have an ear to the ground
have an edge
have an edge on
have an entree
have an eye for
have an eye to
have an idea
have an idea of
have an impression
have an in
have an in with
have an income of
have an inkling
have an intimation
have an opportunity
have an overdose of
have an understanding
have an upright carriage
have and hold
have another crack
have another go
have another shot
have another think coming
have another try
have ants in your pants
have as a fulcrum
have as a guest
have as a lodger
have as many phases as the moon
have as your master
have at
have at a disadvantage
have at heart
have at it
have at your command
have at your disposal
have at your disposition
have at your elbow
have at your fingers' ends
have at your fingers' tips
have at your pleasure
have bats in the belfry
have bats in your belfry
have been around
have been through the mill
have being
have better things to do
have birth
have blood in your eyes
have by heart
have by rote
have charisma
have chilblains
have childlike faith in
have clean hands
have clout
have cold feet
have coming
have coming in
have confidence
have confidence in
have connection with
have consideration for
have constantly in your thoughts
have control of
have conversations
have courage
have currency
have cut your eyeteeth
have cut your wisdom teeth
have dead to rights
have dealings with
have deep feelings
have designs on
have difficulty
have done
have done with
have doubts
have down cold
have down pat
have drag
have duck bumps
have eating out of your hand
have effect
have energy
have enough
have every appearance of
have every indication of
have every intention
have every intention of
have every sign of
have everything going your way
have everything to learn
have evidence
have exclusive possession of
have exclusive rights to
have eyes for
have eyes only for
have faith
have faith in
have favorable odds
have for your own
have for your very own
have foreboding
have free play
have free scope
have full play
have fun
have good prospects
have goose bumps
have goose pimples
have goosebumps
have gooseflesh
have got
have got to
have green in the eye
have had it
have had its day
have had your day
have half a mind to
have hallucinations
have high visibility
have hot pants for
have in
have in contemplation
have in hand
have in mind
have in prospect
have in reserve
have in sight
have in store
have in store for
have in view
have in your eye
have in your grasp
have in your grip
have in your head
have in your mind
have in your possession
have in your power
have independent means
have influence
have influence over
have information about
have intercourse
have it
have it all over
have it all your own way
have it all your way
have it bad
have it both ways at once
have it break good for one
have it coming
have it easy
have it in for
have it made
have it out
have it out of
have it reported
have it soft
have it taped
have it up to here
have its place
have its seat in
have its slot
have its time
have knowledge
have knowledge of
have leverage
have life
have little in common
have little recall
have little to say
have little weight
have lots of laughs
have magnetism
have many irons in the fire
have means
have mercy upon
have money
have money to burn
have more than you can hold
have much ado with
have need to
have nine lives like a cat
have no alternative
have no association with
have no attention span
have no bounds
have no business
have no chance
have no choice
have no claim upon
have no conception
have no desire for
have no diffidence
have no doubt
have no ears
have no end
have no expectation
have no false modesty
have no fight left
have no hand in
have no idea
have no kick coming
have no liking for
have no limit
have no limits
have no lower to go
have no measures with
have no misgivings
have no more
have no notion
have no objection
have no opportunity
have no option but
have no patience with
have no plan
have no qualms
have no recollection of
have no regrets
have no relish for
have no remembrance of
have no reservations
have no right to
have no scruple of
have no second thoughts
have no secrets
have no self-doubt
have no shame
have no taste for
have no term
have no thought of
have no time for
have no time to lose
have no time to spare
have no title to
have no truck with
have no turning
have no use for
have no words for
have not a hope
have not a prayer
have nothing but time
have nothing in common
have nothing on
have nothing to do
have nothing to do with
have occasion for
have on
have on the brain
have on the edge of your memory
have on the hip
have on the tip of the tongue
have on the tip of your tongue
have on your hands
have on your mind
have on your shoulders
have one foot in the grave
have one for the road
have one to know
have origin
have other fish to fry
have other things to do
have out
have patience and endure
have peace one with another
have permission
have personality
have pity
have place
have play
have plenty of time
have plenty on the ball
have power
have power over
have preference
have prestige
have priority
have proof
have pull
have qualms
have quite enough
have rather
have recourse to
have regard for
have repercussions
have reservations
have run its course
have run out
have savvy
have scruples
have second thoughts
have seen better days
have seen your best days
have seen your day
have sex
have sexual relations
have simple faith in
have smarts
have someone on
have something
have something laid by
have something on
have something on the ball
have something on the brain
have something to draw on
have sown your wild oats
have sternway on
have subject
have suction
have suffrage
have suspicions
have tenure
have tenure of
have tenure of appointment
have that or nothing
have the advantage of
have the appearance of
have the ascendancy
have the audacity
have the bar sinister
have the best of
have the chances against one
have the chances against you
have the cheek
have the cold creeps
have the cold shivers
have the conn
have the creeps
have the deed for
have the drop on
have the ear of
have the facts
have the fidgets
have the flavor of
have the floor
have the force of
have the friendship of
have the function of
have the gall
have the game in your hands
have the game in your own hands
have the gift of gab
have the golden touch
have the goodness
have the goods on
have the grace to
have the guts
have the hang of it
have the idea
have the impression
have the inside track
have the jitters
have the job of
have the jump on
have the knack
have the last laugh on
have the last word
have the latchstring out
have the law of
have the law on
have the look of
have the makings of
have the mastery of
have the mission of
have the nerve
have the odds against one
have the odds against you
have the opinion
have the power
have the prerequisites
have the qualifications
have the right
have the role of
have the run of
have the say
have the say-so
have the sense of
have the shakes
have the start
have the sway
have the top place
have the top spot
have the touch
have the upper hand
have the use of
have the wherewithal
have the whip hand
have the wind of
have the world at your feet
have the worst of it
have thoughts about
have tied to your apron strings
have time
have time enough
have time to spare
have title to
have to
have to answer for
have to do with
have to fall back upon
have to hand it to
have to run for it
have to your name
have too many irons in the fire
have too much
have too much of a good thing
have trouble
have truck with
have two minds
have two strings to your bow
have under control
have undertaken
have up
have up your sleeve
have way upon
have weight
have well in hand
have what it takes
have what you say go
have words
have words with
have you on the ropes
have young
have your back to the wall
have your blood on your head
have your blood up
have your cake and eat it too
have your credit good for
have your doubts
have your ear
have your eye on
have your fill
have your fling
have your hand in the till
have your hands full
have your hands in
have your hands tied
have your head screwed on right
have your heart bleed for
have your heart in your mouth
have your heart set against
have your heart set on
have your innings
have your measure
have your moments
have your monkey up
have your name in lights
have your nerve
have your nose out of joint
have your number
have your options eliminated
have your options reduced
have your own way
have your period
have your place in the sun
have your revenge
have your say
have your time
have your way
have your will
have your wits about you
have-been
have-not
have-nots
have-nots, the
haven cap
haver-corn
haves, the
havey-cavey
havildar major
having a baby
having a block for a head
having a part
having a share
having a voice
having and holding
having cotton between the ears
having life
having title to
haw tree
haw-haw
hawaii time
hawaiian guitar
hawe-bake
hawk bell
hawk call
hawk cuckoo
hawk eagle
hawk fly
hawk moth
hawk nose
hawk owl
hawk parrot
hawk swallow
hawk's nest model
hawk's-beard
hawk's-bell
hawk's-bill
hawk's-eye
hawk-beaked
hawk-billed
hawk-eyed
hawk-faced
hawk-headed
hawk-moth
hawk-nose
hawk-nosed
hawk-owl
hawk-tailed
hawking voice
hawksbill turtle
hawse bag
hawse bolster
hawse hook
hawse timber
hawse-fallen
hawse-full
hawser bend
hawser clamp
hawser fastening
hawser-laid
hawsing iron
hawthorn china
hawthorn pattern
hawthorn tingis
hawthorn wine
hay asthma
hay bacillus
hay baler
hay barrack
hay binder
hay conditioner
hay cutter
hay fern
hay fever
hay hook
hay jack
hay knife
hay loader
hay plant
hay press
hay rig
hay road
hay saffron
hay sweep
hay tedder
hay tit
hay wagon
hay worm
hay-asthma
hay-bird
hay-bote
hay-cock
hay-color
hay-colored
hay-de-guy
hay-fed
hay-fever
hay-field
hay-fork
hay-mow
hay-rack
hay-rake
hay-rick
hay-scented
hay-seed
hay-tallat
haystack thorn
hazard a conjecture
hazard of the die
hazard side
hazard warning device
hazel alder
hazel brown
hazel crottles
hazel grouse
hazel hen
hazel mouse
hazel oil
hazel pine
hazel tree
hazel worm
hazel-eyed
hazel-gray
hazel-grouse
hazel-hen
hazel-hooped
hazel-leaved
hazel-nut
hazel-wood
hazelnut oil
hazy idea
hazy recollection
he-all
he-balsam
he-broom
he-cabbage-tree
he-goat
he-he!
he-heather
he-holly
he-huckleberries
he-huckleberry
he-man
he-mannish
he-men
he-oak
head and front of your offending
head and head
head and shoulders
head arrangement
head away from
head betony
head blight
head block
head butt
head cold
head collar
head count
head covering
head deformation
head earing
head fast
head flume
head fold
head for
head for blue water
head for the bottom
head form
head gate
head harness
head house
head index
head into
head joint
head kidney
head knee
head lamp
head lettuce
head log
head louse
head maggot
head matter
head metal
head mistress
head mold
head molding
head money
head motion
head netting
head of hair
head of household
head of state
head of the river
head off
head office
head on
head over heels
head over heels in
head over heels in debt
head over heels in love
head pin
head register
head resistance
head sample
head scab
head sea
head shaping
head shrinker
head smut
head space
head spar
head spin
head start
head stool
head straight for
head strapper
head swell
head table
head tax
head the board
head the line
head the table
head to leeward
head to wind
head to windward
head tone
head toward
head tree
head up
head veil
head voice
head waiter
head water
head wind
head windward
head word
head yard
head-aching
head-and-tail light
head-and-tail-light fish
head-block
head-board
head-cloth
head-court
head-dress
head-flattening
head-foremost
head-gear
head-hanging
head-high
head-hunt
head-hunter
head-hunting
head-line
head-load
head-man
head-money
head-note
head-on
head-on attack
head-over-heels
head-pan
head-penny
head-piece
head-plate
head-race
head-rail
head-rope
head-sail
head-shaking
head-splitting
head-stall
head-tire
head-tossing
head-turned
head-voice
headache plant
headache powder
headache tree
headache wafer
headache weed
headed for
headed group
header bond
header tank
header-up
heading bond
heading course
heading joint
heading machine
heading stone
heading sword
heading tool
heading toward
heading-machine
headline attraction
headlong plunge
headlong rush
headmistress-ship
heads or tails
heads up
heads-up
headwater erosion
heal itself
heal over
heal the breach
heal-all
heal-bite
heal-dog
heald knitter
healing agent
healing art
healing arts
healing blade
healing by first intention
healing by second intention
healing herb
healing leaf
healing ointment
healing quality
healing virtue
health centre
health examination
health food
health food store
health foods
health hazard
health insurance
health officer
health physicist
health physics
health resort
health salts
health spa
health visitor
health-enhancing
health-preserving
healthy body
healthy constitution
healthy economy
healthy glow
healthy hue
healthy meal
healthy mind
healthy-minded
healthy-mindedly
healthy-mindedness
heap coals of fire on your head
heap dirt upon
heap leaching
heap roasting
heap up
heap upon
heaped-up
heaps of gold
hear a different drummer
hear confession
hear it for
hear nothing
hear of
hear out
hear say
hear shots fired in anger
hear tell of
hear to
hear ye
hearing aid
hearing impairment
hearing loss
hearing-aid battery
hearken to
hearsay evidence
hearsay rule
heart action
heart amulet
heart and soul
heart attack
heart back
heart block
heart bond
heart cam
heart cherry
heart clam
heart clot
heart clover
heart cockle
heart complaint
heart condition
heart cup
heart disease
heart failure
heart flower
heart line
heart liver
heart liverleaf
heart medic
heart murmur
heart of gold
heart of grace
heart of hearts
heart of oak
heart of stone
heart out
heart pine
heart point
heart rot
heart sac
heart shell
heart shock
heart snakerooot
heart starter
heart stimulant
heart strain
heart surgery
heart tamponade
heart transplant
heart trefoil
heart trouble
heart urchin
heart wall
heart yarn
heart's blood
heart's core
heart's desire
heart's-ease
heart-ache
heart-affecting
heart-angry
heart-back
heart-blood
heart-bond
heart-bound
heart-break
heart-bred
heart-broken
heart-burdened
heart-burning
heart-cheering
heart-chilled
heart-chilling
heart-corroding
heart-deadened
heart-dulling
heart-eating
heart-expanding
heart-fallen
heart-fashioned
heart-felt
heart-flowered
heart-flowered orchid
heart-free
heart-freezing
heart-fretting
heart-gnawing
heart-gripping
heart-happy
heart-hardened
heart-hardening
heart-heaviness
heart-heavy
heart-hungry
heart-ill
heart-leaved
heart-leaved aster
heart-leaved willow
heart-lung machine
heart-melting
heart-moving
heart-piercing
heart-purifying
heart-quake
heart-ravishing
heart-rending
heart-rendingly
heart-robbing
heart-searching
heart-shaking
heart-shaped
heart-shed
heart-sick
heart-sore
heart-sorrowing
heart-spoon
heart-stirring
heart-stricken
heart-strickenly
heart-strike
heart-strings
heart-struck
heart-swelling
heart-swollen
heart-tearing
heart-thrilling
heart-throb
heart-throbbing
heart-tickling
heart-to-heart
heart-to-heart talk
heart-warm
heart-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wringer
heart-wrung
heartfelt apology
heartfelt grief
hearth and home
hearth cricket
hearth money
hearth tax
hearth-money
hearth-penny
hearth-rug
hearth-stead
hearth-tax
hearts and flowers
hearts-and-flowers
hearty assent
hearty enjoyment
hearty laugh
hearty meal
hearty welcome
heat absorber
heat apoplexy
heat asphyxia
heat balance
heat barrier
heat canker
heat capacity
heat center
heat conduction
heat conductivity
heat content
heat death
heat detector
heat devil
heat energy
heat engine
heat engineer
heat engineering
heat equation
heat equator
heat-laden
heat-loving
heat-oppressed
heat-power engineer
heat-power engineering
heat-producing
heat-radiating
heat-reducing
heat-regulating
heat-resistant
heat-resisting
heat-softened
heat-spot
heat-tempering
heat-treat
heat-treated
heat-treating
heat-treatment
heat-wave
heated imagination
heated up
heater cord
heater piece
heater-shaped
heath aster
heath bell
heath box
heath bramble
heath cock
heath cypress
heath family
heath fern
heath grass
heath grouse
heath hen
heath honeysuckle
heath moss
heath mulberry
heath pea
heath peat
heath poul
heath rush
heath scrub
heath wren
heath-bell
heath-berry
heath-bird
heath-clad
heath-cock
heath-hen
heath-pea
heathen god
heather bell
heather cat
heather grass
heather purple
heather whin
heather wool
heather-bell
heather-bleat
heather-blutter
heating coil
heating degree-day
heating duct
heating element
heating furnace
heating pad
heating pipe
heating plant
heating-up
heauto-
heave a sigh of relief
heave aloft
heave alongside
heave and awash
heave apeak
heave at
heave down
heave ho
heave in sight
heave in together
heave offering
heave out
heave out a sail
heave overboard
heave round
heave short
heave shoulder
heave the gorge
heave the lead
heave the log
heave to
heave-ho
heave-off hinge
heave-offering
heave-shouldered
heaven above
heaven disturber
heaven of heavens
heaven on earth
heaven tree
heaven worshiper
heaven's artillery
heaven's ebon vault
heaven's high city
heaven-accepted
heaven-aspiring
heaven-assailing
heaven-begot
heaven-bent
heaven-born
heaven-bred
heaven-built
heaven-clear
heaven-controlled
heaven-daring
heaven-dear
heaven-defying
heaven-descended
heaven-devoted
heaven-directed
heaven-erected
heaven-fallen
heaven-forsaken
heaven-gate
heaven-gifted
heaven GIVEN
heaven-guided
heaven-high
heaven-inspired
heaven-instructed
heaven-kissing
heaven-lighted
heaven-lit
heaven-made
heaven-prompted
heaven-protected
heaven-reaching
heaven-rending
heaven-sent
heaven-sprung
heaven-sweet
heaven-taught
heaven-threatening
heaven-touched
heaven-warring
heaven-wide
heavenly bamboo
heavenly being
heavenly body
heavenly fruit
heavenly hierarchy
heavenly host
heavenly kingdom
heavenly-minded
heavenly-mindedness
heavens and earth
heavenward tree
heaver-off
heaver-out
heaver-over
heavier-than-air
heavier-than-air craft
heaviness of heart
heaving aloft
heaving pile
heaving up
heaving-line bend
heaviside layer
heavy artillery
heavy as lead
heavy blow
heavy bomber
heavy chemicals
heavy cream
heavy cruiser
heavy demand
heavy dew
heavy dragoon
heavy drinker
heavy drinking
heavy earth
heavy eyelids
heavy field artillery
heavy force fit
heavy hand
heavy harmony
heavy heart
heavy hydrogen
heavy lead
heavy meal
heavy metal
heavy mineral oil
heavy nitrogen
heavy object
heavy oil
heavy on
heavy oxygen
heavy particle
heavy particle counter
heavy pine
heavy platinum group
heavy purse
heavy rain
heavy right foot
heavy sea
heavy sin
heavy sky
heavy sledding
heavy sleep
heavy smoker
heavy solution
heavy spar
heavy swell
heavy thinking
heavy transport
heavy water
heavy weather
heavy wet
heavy wine
heavy with child
heavy with meaning
heavy with significance
heavy with sleep
heavy with young
heavy-armed
heavy-bearded
heavy-blossomed
heavy-bodied
heavy-boned
heavy-booted
heavy-boughed
heavy-drinking
heavy-duty
heavy-eared
heavy-eyed
heavy-faced
heavy-featured
heavy-fisted
heavy-fleeced
heavy-footed
heavy-footedness
heavy-fruitd
heavy-gaited
heavy-handed
heavy-handedly
heavy-handedness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartedness
heavy-heeled
heavy-jawed
heavy-laden
heavy-leaved
heavy-lidded
heavy-limbed
heavy-lipped
heavy-looking
heavy-mettled
heavy-mouthed
heavy-paced
heavy-scented
heavy-seeming
heavy-set
heavy-shotted
heavy-shouldered
heavy-shuttered
heavy-smelling
heavy-soled
heavy-tailed
heavy-timbered
heavy-weight
heavy-winged
heavy-witted
heavy-wooded
heb-sed
hebe-
hebephrenic schizophrenia
heck-how
hect-
hectic fever
hectic flush
hecto-
hecto-ampere
hectograph copy
heddle brusher
heddle knitter
hedge about
hedge accentor
hedge apple
hedge bedstraw
hedge bells
hedge bird
hedge cactus
hedge carpenter
hedge chanter
hedge crocus
hedge fumitory
hedge garlic
hedge grape
hedge hyssop
hedge in
hedge laurel
hedge layer
hedge marriage
hedge priest
hedge rose
hedge sparrow
hedge stake
hedge trimmer
hedge your bets
hedge-bird
hedge-bound
hedge-creeper
hedge-hyssop
hedge-pig
hedge-priest
hedge-school
hedge-sparrow
hedged about
hedged about by
hedged by
hedged in
hedged-in
hedgelog aloe
hedgelog cactus
hedgelog caterpillar
hedgelog coneflower
hedgelog gourd
hedgelog grass
hedgelog transformer
hedging your bets
hedging-in
hedonic calculus
hedonistic calculus
hee-haw
hee-hee
hee-hee!
hee-jeebies
hee-jeebies
heedless hap
heel bar
heel block
heel blocker
heel bone
heel breast
heel builder
heel chain
heel clamp
heel cutter
heel fly
heel in
heel jigger
heel nailer
heel of Achilles
heel pad
heel padder
heel ring
heel rope
heel seat
heel seater
heel splitter
heel spur
heel stay
heel tapper
heel tool
heel trimmer
heel wedge
heel-and-toe
heel-and-toe dancer
heel-attaching
heel-ball
heel-bone
heel-breast
heel-breaster
heel-fast
heel-piece
heel-plate
heel-post
heel-rope
heel-tap
heel-way
heeling tank
heels over head
hefty eater
heh deity
heidelberg man
heigh ho
heigh-ho
height block
height board
height district
height finder
height gauge
height measure
height measurement
height of fashion
height of land
height pressure
height to paper
height to surface
height-to-paper
heir apparent
heir at law
heir by destination
heir expectant
heir general
heir in tail
heir of entail
heir of inventory
heir of line
heir of provision
heir of the body
heir portioner
heir presumptive
heir whatsoever
heir-at-law
heiress-ship
heirs apparent
heirs at law
heirs presumptive
held back
held dear
held in awe
held in consideration
held in esteem
held in favor
held in pledge
held in regard
held in reserve
held in respect
held in trust
held out
held up
helen of troy
heli-
heliacal rising
helianthine B
helic-
helical gear
helical rack
helico-
helicoidal saw
helicopter gun ship
helicopter gunship
helio-
heliocentric longitude
heliocentric parallax
heliographic chart
heliotrope gray
helium group
helix angle
hell around
hell bomb
hell broke loose
hell for leather
hell gate
hell hole
hell let loose
hell mouth
hell of a
hell to pay
hell upon earth
hell week
hell's bells
hell's half-acre
hell's kitchen
hell-begotten
hell-bent
hell-bent for election
hell-bent on
hell-bind
hell-black
hell-born
hell-bound
hell-bred
hell-brewed
hell-cat
hell-dark
hell-deep
hell-devil
hell-diver
hell-doomed
hell-driver
hell-engendered
hell-fire
hell-fired
hell-for-leather
hell-gate
hell-hard
hell-hatched
hell-haunted
hell-hound
hell-like
hell-raiser
hell-raker
hell-red
hell-vine
hellebore green
hellebore red
hellish host
hello girl
hello there
helm alee
helm aport
helm astraboard
helm aweather
helm port
helm wind
helm-wind
helmet liner
helmet of hair
helmet quail
helmet shell
helmet-crest
helmet-shaped
helmet-wearing
helmeted guinea fowl
helminth-
help a lame dog over a stile
help along
help bear your grief
help decide
help in time of need
help on its way
help out
help to
help up
help yourself to
helped by
helping along
helping hand
helter-skelter
helter-skelteriness
helve hammer
hem and haw
hem in
hem-
hem-stitch
hema-
hemat-
hematin crystals
hematin paste
hematite red
hemato-
hematocrit value
hematogenic shock
hemi-
hemi-elytrum
hemi-type
hemispherico-conical
hemispherico-conoid
hemlock fir
hemlock parsley
hemlock pitch
hemlock spruce
hemlock-leaved
hemmed in
hemmed-in
hemming-in
hemo-
hemolymph gland
hemolytic anemia
hemophilia A
hemophilia B
hemophilia C
hemophilic arthritis
hemorrhagic measles
hemorrhagic plague
hemorrhagic septicemia
hemp agrimony
hemp nettle
hemp oil
hemp palm
hemp tree
hemp-agrimony
hemp-nettle
hempen bridle
hempen collar
hempen necktie
hempen tippet
hempseed oil
hen and chickens
hen clam
hen coop
hen curlew
hen flea
hen frigate
hen gorse
hen harrier
hen hawk
hen louse
hen mold
hen party
hen pepper
hen plant
hen run
hen scratches
hen track
hen tracks
hen turkey
hen's-foot
hen-and-chickens
hen-coop
hen-driver
hen-egg
hen-fat
hen-feathered
hen-feathering
hen-harrier
hen-hawk
hen-hearted
hen-house
hen-peck
hen-pecked
hen-roost
hen-tailed
hench-boy
hendeca-
hens-and-chickens
hep to
hepar calcis
hepat-
hepato-
hepato-pancreas
hepped up
hepped up over
hepta-
heptadecanoic acid
her infinite variety
her native ornament of hair
herabol myrrh
herald abroad
herald angel
herald's college
herald's trick
herald's trumpet
heraldic device
heraldic heiress
heraldic insignia
heraldic knot
heraldic official
heraldic officials
heralds' college
herb Christopher
herb Gerard
herb Paris
herb Robert
herb bennet
herb doctor
herb john
herb of grace
herb paris
herb patience
herb robert
herb-grace
herb-woman
herbaceous border
herbs Paris
herbs Robert
herbs patience
hercules beetle
hercules' club
hercules'-club
herd instinct
herd together
herd's grass
herd's-grass
herd-book
herd-boy
herd-grass
herd-groom
here and now
here and there
here and there in
here and there on
here below
here lies
here today and gone tomorrow
here's good luck
here's how
here's looking at you
here's mud in your eye
here's to absent friends
here's to you
here-hence
hereafter, the
hereditary character
hereditary disease
heriot service
herky-jerky
hermaphrodite brig
hermaphrodite caliper
hermaphrodite duct
hermaphrodite schooner
hermes trismegistus
hermetically sealed
hermit crab
hermit crow
hermit order
hermit thrush
hermit warbler
hermo-
hermosa pink
hernio-
hero sandwich
hero worship
hero-shiped
hero-shipping
hero-shipped
hero-shipping
hero-worship
hero-worshiper
hero-worshipping
heroic-comic
heroic act
heroic age
heroic couplet
heroic deed
heroic legend
heroic myth
heroic poetry
heroic stanza
heroic tenor
heroic verse
heron's-bill
herpes facialis
herpes labialis
herpes simplex
herpes zoster
herpet-
herr-ban
herring buss
herring gull
herring hog
herring king
herring oil
herring pond
herring salad
herring work
herring-bone
herring-kale
herring-pond
herring-shaped
herringbone bond
herringbone bridging
herringbone gear
herringbone stitch
herringbone strutting
hertzian wave
hesitant approach
hesitate over
hesitation waltz
hesper-
hesperid-
hessian boot
hessian fly
het up
heter-
hetero-
heterogeneous reactor
heterogeneous system
heterogenous vaccine
heterolytic fission
heterotrophic organism
hew down
hew-hole
hex doctor
hex mark
hex sign
hex-
hexa-
hexacosanoic acid
hexadecanoic acid
hexadecimal notation
hexadecimal system
hexaethyl tetraphosphate
hexagon-drill
hexakis-
hexanedioic acid
hexanoic acid
hexoic acid
hexose sugar
hexyl group
hexyl radical
hey rube
hey-day
hey-day guise
hey-ho
heyday of the blood
heyday of youth
hi ya
hi-fi
hi-fi fan
hiatal hernia
hiatus hernia
hiatus of learning
hiberno-
hic et nunc
hic et ubique
hic jacet
hic-cough
hiccius doccius
hiccup-nut
hick joint
hick town
hick-joint pointing
hickory acacia
hickory aphid
hickory borer
hickory cloth
hickory elm
hickory girdler
hickory moth
hickory nut
hickory oak
hickory oil
hickory phylloxera
hickory pine
hickory poplar
hickory shad
hickory shirt
hickory stripe
hickory twig girdler
hickory wattle
hidden danger
hidden hand
hidden meaning
hidden out
hidden-fruit
hidden-vein
hide away
hide beetle
hide nor hair
hide or hair
hide out
hide rope
hide splitter
hide under
hide your face
hide your hand
hide your head
hide your head in the sand
hide your light under a bushel
hide your trail
hide yourself
hide-and-go-seek
hide-and-seek
hide-out
hidebound disease
hidey hole
hidey-hole
hiding place
hiding power
hidro-
hidy-hole
hie on
hie to
hie yourself to
hielaman tree
hier-
hiera picra
hieratic symbol
hiero-
hig taper
higgledy-piggledy
high aim
high altar
high analysis
high and dry
high and low
high and mighty
high as a kite
high as a steeple
high bar
high beam
high birth
high blood pressure
high blower
high brass
high bunt
high by-pass ratio engine
high camp
high celebration
high chair
high chief
high church
high collar
high color
high comedy
high command
high commissioner
high cost
high court
high cranberry
high day
high descent
high diver
high diving
high dudgeon
high energy physics
high explosive
high fashion
high feather
high fidelity
high finance
high flavor
high fog
high frequency
high fulham
high german
high glee
high goal
high grade
high growth rate
high hand
high hat
high heaven
high holiday
high hopes
high horse
high hurdles
high ideals
high income
high iron
high jinks
high jump
high jumper
high king
high life
high light
high liver
high living
high lope
high mass
high mightiness
high milling
high muck-a-muck
high noon
high old time
high on the hog
high order
high pitch
high place
high places
high point
high polymer
high pressure
high price
high price tag
high prices
high priest
high priesthood
high principles
high proof
high purpose
high rank
high regard
high relief
high renaissance
high repute
high road
high roller
high school
high schooler
high sea
high seas
high season
high seat
high sign
high society
high specific activity
high spirits
high spot
high standard of living
high steel
high street
high summer
high table
high tax bracket
high tea
high tech
high tide
high time
high treason
high up
high value
high visibility
high voice
high water
high wind
high wine
high wines
high wire
high wire artist
high words
high yellow
high-aimed
high-aiming
high-altitude bombing
high-altitude flying
high-altitude research aircraft
high-altitude research rocket
high-altitude rocket
high-and-mightiness
high-and-mighty
high-angle fire
high-angle gun
high-angled
high-arched
high-aspiring
high-backed
high-binder
high-blazing
high-blessed
high-blooded
high-blower
high-blown
high-bodiced
high-boiling
high-boned
high-born
high-breasted
high-bred
high-brow
high-browed
high-browish
high-browishly
high-browism
high-built
high-button shoes
high-caliber
high-calorie diet
high-camp
high-case
high-caste
high-ceiled
high-ceilinged
high-churchman
high-class
high-climber
high-climbing
high-collared
high-colored
high-coloured
high-complexioned
high-compression
high-count
high-crested
high-crowned
high-cut
high-density
high-duty
high-elbowed
high-embowed
high-energy particle
high-explosive
high-explosive charge
high-explosive shell
high-falutin
high-faluting
high-fated
high-feathered
high-fed
high-fidelity
high-fidelity speaker
high-fidelity system
high-flavored
high-flier
high-flowing
high-flown
high-flown diction
high-flushed
high-flyer
high-flying
high-flying tippler
high-foreheaded
high-frequency
high-frequency amplification
high-frequency cable
high-frequency current
high-frequency direction finder
high-frequency heater
high-frequency pulse
high-frequency speaker
high-frequency telephony
high-frequency treatment
high-frequency wave
high-gazing
high-geared
high-grade
high-grade bond
high-grade ore
high-grade stock
high-grown
high-handed
high-handedly
high-handedness
high-hat
high-hat cymbals
high-hatted
high-hattedness
high-hatter
high-hattiness
high-hatting
high-hatty
high-headed
high-heaped
high-hearted
high-heel
high-heeled
high-hoe
high-holder
high-hole
high-horned
high-hung
high-intensity lamp
high-judging
high-key
high-keyed
high-level
high-level language
high-level talk
high-lineaged
high-lived
high-living
high-lone
high-low
high-low-jack
high-lows
high-lying
high-mettled
high-minded
high-mindedly
high-mindedness
high-motived
high-mounted
high-mounting
high-mu tube
high-muck-a
high-muck-a-muck
high-muckety-muck
high-necked
high-nosed
high-notioned
high-octane
high-octane gas
high-pass
high-pass filter
high-peaked
high-pitch
high-pitched
high-placed
high-pointing
high-pooped
high-potency
high-potential
high-power
high-powered
high-pressure
high-pressure area
high-pressure cylinder
high-pressure methods
high-pressure salesmanship
high-pressured
high-pressuring
high-priced
high-principled
high-priority
high-prized
high-proof
high-protein diet
high-quality
high-raised
high-ranking
high-reaching
high-reared
high-resolved
high-rigger
high-rise
high-rise apartment building
high-riser
high-roofed
high-runner
high-school
high-sea
high-seasoned
high-seated
high-set
high-shoe
high-shouldered
high-sided
high-sighted
high-soaring
high-society
high-soled
high-souled
high-sounding
high-sounding words
high-speed
high-speed data handling
high-speed digit computer
high-speed embosser
high-speed memory
high-speed steel
high-speed turn
high-spirited
high-spiritedly
high-spiritedness
high-stepper
high-stepping
high-stomached
high-strung
high-sulphur
high-swelling
high-swollen
high-swung
high-tail
high-tasted
high-temperature cement
high-tempered
high-tension
high-test
high-thoughted
high-throned
high-thundering
high-tide
high-tone
high-toned
high-topped
high-topped shoes
high-tory
high-towered
high-tuned
high-up
high-ups
high-vacuum phototube
high-vaulted
high-velocity
high-vitamin diet
high-voltage
high-voltage probe
high-waisted
high-walled
high-warp
high-water
high-water mark
high-water pants
high-water shrub
high-wing monoplane
high-wire artist
high-wrought
highball glass
highbush blueberry
highbush huckleberry
higher algebra
higher apsis
higher arithmetic
higher criticism
higher echelons
higher education
higher fungus
higher mathematics
higher-up
higher-ups
highest category
highest common factor
highest degree
highest pitch
highest point
highest type
highest-ranking
highfalutin ways
highfaluting ways
highland cranberry
highland cudweed
highland fling
highlight halftone
highly colored imagination
highly considered
highly emotional
highly esteemed
highly regarded
highly reputed
highly respectable
highly satisfied
highly strung
highly touted
highly-wrought
highs sounding
hightail it
highty-tighty
highwall tent
highway engineer
highway engineering
highway marker
highway patrol
highway robber
highway robbery
highway trailer
highways and byways
hike out
hike up
hiking trail
hilaro-tragedy
hill clematis
hill climb
hill climber
hill country
hill folk
hill fox
hill grub
hill heaped upon hill
hill myna
hill oat
hill of beans
hill palm
hill partridge
hill planter
hill station
hill tit
hill-altar
hill-dwelling
hill-fort
hill-girdled
hill-girt
hill-man
hill-side
hill-surrounded
hill-top
hilly-billy
hinc illae lacrimae
hind end
hind kidney
hind leg
hind legs
hind part
hind shank
hind wing
hind-calf
hind-foremost
hind-gut
hind-head
hind-sight
hinder part
hinge fault
hinge joint
hinge line
hinge on
hinge plate
hinge strap
hinge tooth
hinge upon
hinge-pole
hinged joint
hinging on
hinging post
hinoki cypress
hint at
hip and thigh
hip bath
hip boot
hip boots
hip brier
hip disease
hip flask
hip girdle
hip joint
hip knob
hip lock
hip molding
hip pocket
hip rafter
hip roll
hip roof
hip rose
hip straps
hip tile
hip vertical
hip-and-valley roof
hip-bone
hip-girdle
hip-gout
hip-huggers
hip-joint
hit one for
hit or miss
hit out
hit pay dirt
hit rock bottom
hit show
hit the ball
hit the booze
hit the bottle
hit the brake pedal
hit the campaign trail
hit the ceiling
hit the deck
hit the eye
hit the hay
hit the high spots
hit the jackpot
hit the mark
hit the nail on the head
hit the road
hit the sack
hit the sauce
hit the silk
hit the skids
hit the spot
hit the trail
hit town
hit tune
hit up
hit upon
hit upon a solution
hit you in the eye
hit you where you live
hit-and-miss
hit-and-miss window
hit-and-run
hit-and-run attack
hit-and-run driver
hit-in
hit-off
hit-or-miss
hit-or-missness
hit-run
hit-skid
hitch a ride
hitch and hike
hitch angle
hitch kick
hitch on
hitch pin
hitch rides
hitch up
hitch your wagon to a star
hitch-hiker
hitching post
hitching your wagon to a star
hither and thither
hither and yon
hitting the booze
hitting the bottle
hitting the sauce
hitting-up
hitty-missy
hive bee
hive body
hive dross
hive of industry
hive off
hive sirup
hive vine
ho, hum
ho-bird
ho-ho
ho-hum
hoar-frost
hoar-frosted
hoar-stone
hoard up
hoary age
hoary cress
hoary eld
hoary hair
hoary-eyed
hoary-feathered
hoary-haired
hoary-headed
hoary-headed joke
hoary-leaved
hoary-white
hob ferret
hob tap
hob-and-nob
hob-nob
hob-thrush
hobble skirt
hobble-bush
hobbling pilot
hobby shop
hobby-horse
hobnail glass
hobnailed shoes
hobnob with
hobo camp
hobo jungle
hobson's choice
hobson-jobson
hoc anno
hoc est
hock a tchainik
hock cockle
hock leg
hock shop
hock-cart
hock-day
hockey cart
hockey gloves
hockey skate
hockey skates
hockey stick
hocking ale
hocus-pocus
hocus-pocused
hocus-pocusing
hocus-pocussed
hocus-pocussing
hod carrier
hoddy-doddy
hodge-podge
hodge-pudding
hodgkin's disease
hoe culture
hoe drill
hoe in
hoe into
hoe-cake
hoe-plough
hog ape
hog apple
hog badger
hog brake
hog call
hog caterpillar
hog chain
hog cholera
hog deer
hog flu
hog for, a
hog frame
hog gum
hog hair
hog hook
hog in armour
hog jowl
hog lard
hog louse
hog mane
hog millet
hog money
hog peanut
hog piece
hog plum
hog pox
hog score
hog sheer
hog stave
hog sucker
hog truss
hog turn
hog wallow
hog wire
hog's back
hog's bean
hog's fennel
hog's pudding
hog's-back
hog- wash
hog-backed
hog-brace
hog-cote
hog-deer
hog-faced
hog-fat
hog-fish
hog-frame
hog-louse
hog-maned
hog-mouthed
hog-necked
hog-nose
hog-nose snake
hog-nosed
hog-nut
hog-plum
hog-raising
hog-reeve
hog-score
hog-skin
hog-tie
hog-tied
hog-tight
hog-trough
hog-wash
hog-wild
hogen mogen
hogger pump
hoggling-frame
hognose snake
hognosed skunk
hohl-flute
hoi polloi
hoisin sauce
hoist a banner
hoist by
hoist by your own petard
hoist loader
hoist sail
hoist the blue Peter
hoist the white flag
hoist with
hoist-
hoisting gaff
hoisting machine
hoisting yard
hoity-toitiness
hoity-toity
hoity-toitysm
hoity-toityness
hoke act
hoke comic
hoke up
hoker moker
hokey cokey
hokey-pokey
hokum act
hokum comic
hol-
hold a brief for
hold a candle to
hold a card
hold a close wind
hold a conversation
hold a course
hold a funeral
hold a heading
hold a high opinion of
hold a loose rein
hold a low opinion of
hold a meeting
hold a middle course
hold a post
hold a press conference
hold a seance
hold a session
hold a sitting
hold a tight hand upon
hold aces
hold against
hold aloof
hold aloof from
hold an idea
hold as
hold at bay
hold at your beck and call
hold away from
hold back
hold beam
hold beneath contempt
hold beneath one
hold by
hold captive
hold cheap
hold communication
hold conference
hold control
hold court
hold dear
hold down
hold down a job
hold everything
hold fast
hold for
hold for ransom
hold forth
hold forth without interruption
hold good
hold hands
hold in
hold in abomination
hold in bondage
hold in captivity
hold in check
hold in consideration
hold in contempt
hold in custody
hold in derision
hold in esteem
hold in fee simple
hold in hand
hold in leading strings
hold in leash
hold in low esteem
hold in mind
hold in restraint
hold in reverence
hold in solution
hold in subjection
hold in swaddling clothes
hold in the thoughts
hold in thrall
hold in view
hold it
hold it against
hold jubilee
hold membership
hold no brief for
hold off
hold office
hold on
hold on a course
hold on like a bulldog
hold on the course
hold on to
hold opposite views
hold out
hold out a helping hand
hold out against
hold out an expectation
hold out hope
hold out on
hold out promise
hold out the hand
hold out the olive branch
hold out the right of fellowship
hold out the right of friendship
hold over
hold over your head
hold prisoner
hold spellbound
hold steady
hold steady for
hold the attention
hold the bag
hold the belief
hold the course
hold the field
hold the fort
hold the helm
hold the interest
hold the line
hold the market
hold the memory of
hold the mirror up to nature
hold the phone
hold the prerogative
hold the promptbook
hold the proxy of
hold the purse strings
hold the reins
hold the ring of truth
hold the sack
hold the scales
hold the stage
hold the thought
hold the wire
hold tight
hold to
hold together
hold true
hold under close arrest
hold under house arrest
hold up
hold up in the wash
hold up the hand
hold up the mirror to
hold up to public ridicule
hold up to public scorn
hold up to public shame
hold up to reprobation
hold up to shame
hold up to view
hold up your hand
hold up your head
hold water
hold with
hold yard
hold your breath
hold your course
hold your end up
hold your eye
hold your gaze
hold your ground
hold your hand
hold your head above water
hold your head high
hold your horses
hold your jaw
hold your lip
hold your nose in the air
hold your own
hold your path
hold your peace
hold your sides
hold your tongue
hold your way
hold yourself aloof
hold yourself apart
hold yourself erect
hold yourself in readiness
hold yourself stiff
hold yourself straight
hold-all
hold-back
hold-clear
hold-down
hold-off
hold-up
hold-up bill
holder of the legal estate
holder-forth
holder-on
holder-up
holding back
holding company
holding furnace
holding ground
holding in
holding in remembrance
holding paddock
holding pattern
holding together
holding-out partner
holdup job
holdup man
hole card
hole in one
hole in the heart
hole in the wall
hole out
hole to creep out of
hole up
hole-and-comer
hole-and-corner
hole-high
hole-in-corner
holes in
holey dollar
holiday camp
holiday-maker
holiday-making
holier than the Pope
holier-than-thou
holistic approach
holistic medicine
hollandaise sauce
holler out
hollo after
hollow back
hollow heart
hollow horn
hollow hunger
hollow man
hollow mockery
hollow newel
hollow organ
hollow out
hollow pretense
hollow sea
hollow shell
hollow threat
hollow truce
hollow ware
hollow-back
hollow-backed
hollow-billed
hollow-cheeked
hollow-chested
hollow-eyed
hollow-footed
hollow-forge
hollow-forged
hollow-forging
hollow-fronted
hollow-ground
hollow-hearted
hollow-horned
hollow-jawed
hollow-pointed
hollow-root
hollow-toned
hollow-toothed
hollow-vaulted
hollow-voiced
hollow-ware
holly fern
holly green
holly oak
holly-green
holly-leaved
hollyhock anthracnose
hollyhock fungus
hollyhock rust
hollywood bed
holm cock
holm oak
holm thrush
holm tree
holm-oak
holm-tree
holo-
holocrine gland
holographic will
holstein-friesian
holster pipe
holus-bolus
holy Christ
holy Christmas
holy Moses
holy bread
holy cats
holy city
holy clover
holy communion
holy cow
holy cross
holy day
holy day of obligation
holy days
holy dollar
holy-water font
holy-water sprinkler
holy-water stoup
hom-
home address
home appliance
home base
home brew
home builder
home circle
home defense army
home dweller
home economics
home economist
home free
home fried potatoes
home fries
home front
home furnishings
home guard
home in on
home is where you start
home life
home mission
home missionary
home office
home on
home permanent
home place
home plate
home range
home reserve
home reserves
home roof
home room
home rule
home ruler
home run
home sheltered
home signal
home station
home stretch
home study
home sweet home
home teacher
home thrust
home tie
home town
home towner
home truth
home-
home-abiding
home-along
home-baked
home-born
home-bred
home-brew
home-brewed
home-bringing
home-building
home-built
home-come
home-coming
home-driven
home-dwelling
home-faring
home-fed
home-felt
home-going
home-growing
home-grown
home-keeping
home-killed
home-loving
home-made
home-owning
home-raised
home-reared
home-sailing
home-sent
home-sick
home-sickness
home-staying
home-thrust
home-woven
homeless waif
homely as a mud fence
homely enough to sour milk
homely enough to stop a clock
homeo-
homeopathic dose
homeopathic magic
homestead law
homeward bound
homeward-bound
homeward-bounder
homicidal maniac  
homing device  
homing guidance  
homing pigeon  
homing rocket  
homing torpedo  
hominy grits  
homme de cour  
homme moyen sensuel  
homo faber  
homo sapiens  
homo signorum  
homo-  
homo-hetero-analysis  
homo-organ  
homoeo-  
homogeneous coordinates  
homogeneous reactor  
homogenized milk  
homogentisic acid  
homoi-  
homoio-  
homologous chromosomes  
homologous vaccine  
homolographic projection  
homolosine projection  
homolytic fission  
homonymous construction  
homosexual marriage  
homosexual neurosis  
homothetic transformation  
hone for  
honest as the day is long  
honest injun  
honest man  
honest person  
honest sweat  
honest woman  
honest-to-God  
honey ant  
honey badger  
honey bag  
honey ball  
honey balm  
honey bear  
honey beige  
honey bell  
honey bird
honey blond
honey bottle
honey bread
honey bunch
honey buzzard
honey cake
honey cherry
honey child
honey clover
honey creeper
honey crisp
honey eater
honey extractor
honey fly
honey fungus
honey garlic
honey gilding
honey gland
honey grass
honey guide
honey jack
honey kite
honey locust
honey lotus
honey maker
honey making
honey mesquite
honey moth
honey mouse
honey mushroom
honey palm
honey plant
honey ratel
honey sac
honey stomach
honey tree
honey tube
honey up
honey vine
honey weasel
honey whip
honey yellow
honey-bear
honey-bearing
honey-bee
honey-bird
honey-blond
honey-bloom
honey-buzzard
honey-color
honey-colored
honey-dew
honey-drop
honey-dropping
honey-eater
honey-eating
honey-flower
honey-flowing
honey-gathering
honey-guide
honey-heavy
honey-laden
honey-loaded
honey-month
honey-mouthed
honey-pot
honey-secreting
honey-stalks
honey-steeped
honey-stone
honey-stored
honey-storing
honey-sweet
honey-tasting
honey-tongued
honey-voiced
honey-yielding
honeycomb coral
honeycomb isinglass
honeycomb moth
honeycomb radiator
honeycomb ringworm
honeycomb sponge
honeycomb stitch
honeycomb stomach
honeycomb tripe
honeycomb work
honeydew melon
honeyed phrases
honeyed tongue
honeyed words
honeymoon bridge
honesuckle apple
honesuckle clover
honesuckle family
honesuckle grass
honesuckle ornament
honeysuckle tree
honi soit qui mal y pense
honk the horn
honky-tonk
honor a bill
honor be to
honor before
honor bright
honor card
honor guard
honor man
honor medal
honor point
honor price
honor roll
honor society
honor system
honor trick
honor-bound
honor-fired
honor-giving
honor-owing
honor-thirsty
honorable descent
honorable discharge
honorable mention
honorable ordinary
honorary canon
honorary member
honoris causa
honors course
honors of war
honour school
honourable discharge
honours list
honours of war
hoo-ha
hooch hound
hood cap
hood clock
hood end
hood molding
hood mould
hood-crowned
hood-mould
hood-shaped
hooded barley
hooded crow
hooded grass
hooded matweed
hooded seal
hooded top
hooded warbler
hoodie crow
hoodman-blind
hoof foot
hoof it
hoof-and-mouth disease
hoof-bound
hoof-cast
hoof-cut
hoof-plowed
hoof-printed
hoof-shaped
hoofed animal
hook a ride
hook and butt
hook and eye
hook and ladder
hook bolt
hook check
hook climber
hook gauge
hook in
hook into
hook it
hook ladder
hook maker
hook money
hook pin
hook rug
hook scarf
hook screw
hook shot
hook slide
hook spanner
hook squid
hook up
hook up with
hook wrench
hook, line, and sinker
hook-and-ladder
hook-and-ladder company
hook-and-ladder truck
hook-armed
hook-backed
hook-beaked
hook-bill
hook-billed
hook-collector transistor
hook-handed
hook-headed
hook-nose
hook-nosed
hook-shaped
hook-shouldered
hook-snouted
hook-tipped
hook-up
hooked into
hooked on
hooked rug
hookem-snivey
hooker-off
hooker-on
hooker-out
hooker-over
hooker-up
hookup wire
hookworm disease
hooky-crooky
hoop ash
hoop back
hoop bundler
hoop iron
hoop petticoat
hoop pine
hoop shell
hoop skirt
hoop snake
hoop tension
hoop tree
hoop willow
hoop withe
hoop-back
hoop-coop plant
hoop-la
hoop-petticoat
hoop-petticoat narcissus
hoop-shaped
hoop-stick
hooping-cough
hoopla campaign
hoosier town
hoot owl
hoot toot
hootchie-kootchie
hootchy-kootch
hootchy-kootchies
hootchy-kootchy
hootchy-kootchy show
hoover apron
hop along
hop aphid
hop back
hop borer
hop clover
hop dog
hop flea beetle
hop flour
hop fly
hop froth fly
hop gland
hop grub
hop hornbeam
hop in
hop into
hop jack
hop kiln
hop looper
hop louse
hop meal
hop merchant
hop mildew
hop mold
hop moth
hop off
hop oil
hop plant
hop plant borer
hop sack
hop sacking
hop step and jump
hop to it
hop tree
hop trefoil
hop up
hop-about
hop-garden
hop-o'-my-thumb
hop-o-my-thumb
hop-picker
hop-sack
hop-sacking
hop-shaped
hop-yard
hope against hope
hope and pray
hope chest
hope deferred
hope for
hope for the best
hope in
hope to God
hope to die
hoped-for
hopeful prognosis
hopeless case
hoping against hope
hoplo-
hopped up
hopped-up
hopper barge
hopper car
hopper casement
hopper closet
hopper dredge
hopper frame
hopper light
hopper salt
hopper vent
hopper window
hopper-bottom car
hopper-shaped
hopping John
hopping mad
hopvine moth
hopvine thecla
horehound motherwort
horizon blue
horizon distance
horizon glass
horizontal axis
horizontal bar
horizontal deflector
horizontal engine
horizontal fault
horizontal fire
horizontal line
horizontal mobility
horizontal parallax
horizontal plane
horizontal projection
horizontal stabilizer
horizontal synchronizer
horizontal synchronizing pulse
horizontal union
hormic psychology
hormic theory
horn alligator
horn arrester
horn balance
horn bar
horn bowsprit
horn bug
horn chestnut
horn die
horn fly
horn gap
horn gate
horn in
horn knot
horn lead
horn of Amalthea
horn of plenty
horn ore
horn player
horn poppy
horn pout
horn pox
horn reflector
horn silver
horn timber
horn-book
horn-eyed
horn-fish
horn-footed
horn-mad
horn-madness
horn-owl
horn-plate
horn-rimmed
horn-rimmed glasses
horn-rims
horn-shaped
horn-silver
horn-wood
hornbill cuckoo
hornblende schist
hornblende-gabbro
horned dinosaur
horned lark
horned lizard
horned owl
horned poppy
horned pout
horned rattlesnake
horned screamer
horned snake
horned toad
horned viper
horned whiff
hornet comb
hornet fly
hornet's nest
hornless cow
horns of a dilemma
horny coral
horny-fingered
horny-fisted
horny-hoofed
horny-knuckled
horny-nibbed
horny-toad
horror picture
horror vacui
horror-crowned
horror-fraught
horror-inspiring
horror-loving
horror-stricken
horror-struck
hors concours
hors d'oeuvre
hors d'oeuvres
hors de combat
horse aloes
horse ant
horse around
horse artillery
horse bean
horse blanket
horse block
horse boat
horse boot
horse bot
horse bow
horse box
horse brass
horse brier
horse chanter
horse chestnut
horse clipper
horse conch
horse coper
horse courser
horse dam
horse dealer
horse devil
horse doctor
horse drench
horse driver
horse duck
horse elder
horse emmet
horse fiddle
horse fly
horse gentian
horse gentler
horse ginseng
horse godmother
horse gowan
horse guard
horse hoe
horse iron
horse latitudes
horse laugh
horse litter
horse louse
horse mackerel
horse marine
horse master
horse mint
horse mushroom
horse nettle
horse nop
horse of a different color
horse of another color
horse opera
horse parlor
horse pick
horse pistol
horse plum
horse post
horse race
horse racer
horse racing
horse railroad
horse railway
horse rake
horse rasp
horse rough
horse savin
horse scraper
horse sense
horse show
horse sickness
horse soldier
horse sugar
horse tail
horse thistle
horse tick
horse timber
horse towel
horse trade
horse trader
horse trading
horse trainer
horse training
horse wrangler
horse's ass
horse's neck
horse-and-buggy
horse-back
horse-bitten
horse-block
horse-boat
horse-box
horse-boy
horse-bread
horse-breaker
horse-car
horse-chestnut
horse-collar
horse-coper
horse-corser
horse-course
horse-dealing
horse-drawn
horse-eye
horse-faced
horse-fair
horse-fish
horse-flesh
horse-fly
horse-foot
horse-godmother
horse-guard
horse-head
horse-hoe
horse-hoof
horse-hour
horse-jockey
horse-laugh
horse-leech
horse-litter
horse-load
horse-loving
horse-mackerel
horse-marine
horse-master
horse-matcher
horse-mill
horse-mint
horse-nail
horse-owning
horse-play
horse-plum
horse-pond
horse-power
horse-pox
horse-race
horse-radish
horse-scorser
horse-sense
horse-tail
horse-taming
horse-trade
horse-traded
horse-trading
horseback rider
horseback riding
horseflesh ore
horsefoot snipe
horsehair worm
horseless carriage
horsepower-hour
horsepower-year
horseshoe arch
horseshoe back
horseshoe bat
horseshoe crab
horseshoe kidney
horseshoe magnet
horseshoe nail
horseshoe snake
horseshoe-shaped
horsetail agaric
horsetail mushroom
horsetail tree
horsing around
hortatory address
hortus clusus
hortus siccus
hose cart
hose cock
hose company
hose down
hose duck
hose grass
hose hook
hose jacket
hose reel
hose truck
hose-in-hose
hose-net
hosing down
hospital administrator
hospital bed
hospital cleanliness
hospital corner
hospital fever
hospital gangrene
hospital light
hospital lock
hospital room
hospital service contract
hospital ship
hospital staff
hospital station
hospital steward
hospital train
hospital window
hospitalization insurance
host of heaven
host of hell
host plant
hostages to fortune
hostel school
hostess gown
hostess house
hostess-ship
hostile criticism
hostile expedition
hostile personality
hostile reaction
hostile witness
hot about
hot air
hot as blazes
hot as fire
hot as hell
hot as pepper
hot as the hinges of hell
hot atom
hot bath
hot bed
hot blast
hot blood
hot box
hot buttered rum
hot cake
hot cereal
hot chisel
hot chocolate
hot circuit
hot cockles
hot cold-working
hot corner
hot cross bun
hot day
hot diggety
hot dog
hot economy
hot enough to roast an ox
hot flash
hot for
hot galvanizing
hot goods
hot head
hot iron
hot issue
hot items
hot jazz
hot lead
hot lick
hot light
hot line
hot luncheon
hot metal
hot money
hot number
hot off the fire
hot off the griddle
hot off the press
hot off the spit
hot on
hot pack
hot pack method
hot pants
hot pepper
hot place
hot plate
hot pot
hot potato
hot press
hot pursuit
hot roast beef sandwich
hot rod
hot rodder
hot sauces
hot seat
hot shot
hot shower
hot spot
hot spring
hot stuff
hot switch
hot tear
hot temper
hot tip
hot toddy
hot trimmer
hot type
hot under the collar
hot up
hot war
hot water
hot wave
hot weather
hot well
hot wind
hot ziggety
hot-punched
hot-roll
hot-rolled
hot-short
hot-shortness
hot-shot
hot-spirited
hot-spot
hot-spotted
hot-spotting
hot-stomached
hot-stove league
hot-swage
hot-tempered
hot-vulcanized
hot-water bag
hot-water bottle
hot-water cylinder
hot-water fit
hot-water heater
hot-water heating
hot-water pipe
hot-water-heat
hot-water-heated
hot-windy
hot-wire
hot-wire meter
hot-wire microphone
hot-work
hot-work steel
hotbed sash
hotel broker
hotel detective
hotel lock
hotel manager
hotel rack
hothouse lamb
hotsy-totsy
hotted up
hough-sinew
hound dog
hound on
hound to destruction
hound's tooth
hound's-tongue
hound's-tooth
hound's-tooth check
hound-dog
house dove
house drain
house dress
house duty
house factor
house farmer
house finch
house flag
house furnisher
house furnishing
house furnishings
house god
house guest
house holly fern
house in
house jobber
house knacker
house lights
house manager
house martin
house mosquito
house mouse
house mover
house moving
house of God
house of assembly
house of assignation
house of burgesses
house of cards
house of commons
house of correction
house of death
house of delegates
house of detention
house of ill fame
house of ill repute
house of joy
house of life
house of lords
house of prayer
house of prostitution
house of representatives
house of worship
house organ
house painter
house party
house physician
house place
house plan
house plant
house servant
house slipper
house snake
house sparrow
house staff
house steward
house surgeon
house tax
house track
house trailer
house trap
house trim
house wagon
house wrecker
house wren
house-boat
house-broken
house-builder
house-cap
house-craft
house-dog
house-dove
house-father
house-headship
house-mother
house-place
house-proud
house-raising
house-room
house-search
house-to-house
house-to-house combat
house-top
house-train
house-warming
housed string
household ammonia
household art
household cavalry
household effects
household franchise
household goddess
household gods
household goods
household name
household suffrage
household troop
household troops
household word
household words
household-stuff
housemaid's knee
housey-housey
housing bill
housing development
housing estate
housing problem
housing project
housing scheme
hove to
hover fly
hover hawk
hover over
hovering accent
hovering act
how about that
how are you
how come
how do
how do you do
how does she head
how far
how goes it
how is it that
how is your rudder
how it goes
how it is
how now
how should I know
how the land lies
how the wind blows
how they fall
how things are
how things stack up
how things stand
how you doin'
how's every little thing
how's the world treating you
how's things
how's tricks
how-d'ye-do
how-de-do
how-do-ye
how-do-ye-do
how-do-you-do
how-to
how-to book
howdy-do
however that may be
howgozit curve
howl down
howl like all the devils of hell
howler monkey
howling monkey
howling success
howling wilderness
howling wind
hoyle shooting
hr factor
hr-
hub a dub
hub borer
hub brake
hub braking
hub driller
hub dynamometer
hub maker
hub odometer
hub of industry
hub turner
hub-band
hub-bander
hub-banding
hub-boring
hub-deep
hub-turning
hubba hubba
hubble-bubble
huckle-bone
hudder-mudder
huddle on
hudson seal
hue and cry
hue cycle
huff and puff
huff-cap
huff-duff
huff-shouldered
huff-snuff
hug the coast
hug the earth
hug the land
hug the shore
hug yourself
hug-me-tight
huge-armed
huge-bellied
huge-bodied
huge-boned
huge-built
huge-grown
huge-horned
huge-jawed
huge-limbed
huge-looking
huge-proportioned
huge-tongued
hugger-mugger
hugger-muggeries
hugger-muggery
hula girl
hula hoop
hula skirt
hula-hula
hull balance
hull down
hull efficiency
hull girder
hull insurance
hull up
hull-less
hull-less oat
hulling line
hully gully
hum and haw
hum note
hum tone
hum-bird
human being
human dynamo
human ecology
human engineering
human equation
human error
human factor
human family
human form
human frailty
human geography
human interest
hummingbird moth
hump it
hump speed
hump yard
hump yourself
hump-backed
hump-shaped
hump-shoulder
hump-shouldered
humpback bridge
humpback whale
humpbacked salmon
humped cattle
humpty dumpty
humpty-dumpy
hunch down
hundred days
hundred per cent
hundred's place
hundred-dollar
hundred-dollar bill
hundred-eyed
hundred-feathered
hundred-footed
hundred-handed
hundred-headed
hundred-leaf
hundred-leaved
hundred-legged
hundred-legs
hundred-mile
hundred-percent
hundred-percent American
hundred-percenter
hundred-pound
hundred-pounder
hundred-to-one shot
hundred-yard dash
hundred-year
hundreds and thousands
hundredth's place
hung jury
hung over
hung up
hung up on
hung-up
hunger after
hunger belt
hunger for
hunger grass
hunger march
hunger marcher
hunger strike
hunger striker
hunger-bit
hunger-bitten
hunger-driven
hunger-mad
hunger-pressed
hunger-starve
hunger-stricken
hunger-stung
hunger-worn
hungry as a bear
hungry mouth
hungry rice
hunk of a man
hunker down
hunky-dory
hunt and peck
hunt board
hunt box
hunt button
hunt down
hunt for
hunt in couples
hunt out
hunt table
hunt the slipper
hunt through
hunt up
hunt's-up
hunter green
hunter trials
hunter's green
hunter's moon
hunter's pink
hunter's robe
hunter-killer submarine
hunting box
hunting cap
hunting case
hunting cat
hunting chair
hunting cry
hunting dog
hunting expedition
hunting ground
hunting horn
hunting knife
hunting leopard
hunting license
hunting lodge
hunting miter
hunting shirt
hunting spider
hunting sword
hunting trip
hunting watch
hunting-ground
huntsman's-cup
hurdle race
hurdle racer
hurdle work
hurdles, the
hurdy-gurdies
hurdy-gurdist
hurdy-gurdy
hurdy-gurdy man
hurdy-gurdyist
hurl a brickbat
hurl against
hurl at
hurl at the head of
hurl defiance
hurl forth
hurl-bone
hurley stick
hurley-hacket
hurly burly
hurly-burlies
hurly-burly
hurr-bur
hurrah campaign
hurricane bird
hurricane deck
hurricane globe
hurricane house
hurricane hunter
hurricane lamp
hurricane lantern
hurricane signal
hurricane tracking
hurricane warning
hurricane-decked
hurricane-force wind
hurricane-hunter aircraft
hurricane-proof
hurry about
hurry along
hurry away
hurry call
hurry off
hurry on
hurry through
hurry up
hurry-burry
hurry-scurried
hurry-scurry
hurry-scurrying
hurry-skurried
hurry-skurry
hurry-skurrying
hurry-up
hurst beech
hurt the feelings
husband and wife
husband your resources
husband-to-be
hush as death
hush money
hush my mouth
hush of night
hush puppy
hush ship
hush shop
hush tube
hush up
hush your mouth
hush-boat
hush-hush
hush-money
hush-up
hushed attention
hushed-up
husk corn
husk tomato
husk-tomato
husking bee
husking glove
husking peg
husky eater
hustings court
hustle out
hustle up
hustle-cap
hut circle
hut-keep
hut-shaped
hutch table
hutia carabali
hutia conga
hw-
hy-spy
hyacinth bacteriosis
hyacinth bean
hyacinth blue
hyacinth red
hyacinth squill
hyacinth violet
hyacinth-flowered
hyal-
hyaline cartilage
hyaline degeneration
hyaline membrane disease
hyalo-
hyaloid membrane
hyaluronic acid
hyber-
hybrid computer
hybrid corn
hybrid perpetual
hybrid perpetual rose
hybrid stop
hybrid tea
hybrid tea rose
hybrid vigor
hybrid vigour
hybrid word
hydatid cyst
hydatid mole
hydnocarpic acid
hydr-
hydrangea blue
hydrargyri subchloridum
hydrated alumina
hydrated lime
hydration number
hydraulic accumulator
hydraulic brake
hydraulic coupling
hydraulic engine
hydraulic engineer
hydraulic fluid
hydraulic jump
hydraulic lift
hydraulic machinery
hydraulic mining
hydraulic motor
hydraulic organ
hydraulic pile
hydraulic power
hydraulic press
hydraulic radius
hydraulic ram
hydraulic servo
hydraulic suspension
hydraulic tailgate
hydraulic torque converter
hydraulic-fill dam
hydraulico-
hydrazo group
hydrazo radical
hydrazoic acid
hydriodic acid
hydro-
hydro-aeroplane
hydro-airplane
hydro-electric
hydro-jet
hydro-pneumatic
hydro-ski
hydro-ureter
hydrobromic acid
hydrocarbon cement
hydrochloric acid
hydrocinnamic aldehyde
hydrocinnamoyl group
hydrocinnamoyl radical
hydrocinnamyl group
hydrocinnamyl radical
hydrocyanic acid
hydroelectric plant
hydroelectric power
hydrofluoric acid
hydrogen arsenide
hydrogen blast
hydrogen bomb
hydrogen bond
hydrogen bromide
hydrogen carbonate
hydrogen chloride
hydrogen cyanide
hydrogen dioxide
hydrogen electrode
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen oxide
hydrogen peroxide
hydrogen selenide
hydrogen silicide
hydrogen sulfide
hydrogen sulphate
hydrogen sulphide
hydrogen sulphite
hydrogen tartrate
hydrogen telluride
hydrogen-bomb
hydrogenated fat
hydrographic chart
hydrographic oceanographic
hydrologic cycle
hydromellitic acid
hydrometric pendulum
hydronium ion
hydrophobia cat
hydrostatic balance
hydrostatic head
hydrosulfurous acid
hydrosulphurous acid
hydrotelluric acid
hydrothermal water
hydroxide ion
hydroxonium ion
hydroxy acid
hydroxy aldehyde
hydroxy ketone
hydroxy-
hydroxyacetic acid
hydroxybenzoic acid
hydroxybutyric acid
hydroxyl group
hydroxyl radical
hydroxysuccinic acid
hyena poison
hyena-dog
hyet-
hyetal wind rose
hyeto-
hygr-
hygro-
hyl-
hylo-
hymeneal rites
hymeno-
hymn book
hymn maker
hymn making
hymn of praise
hymn singer
hymn singing
hymn tune
hymn writer
hymn writing
hymn-loving
hymn-tune
hymnal stanza
hyo-
hyodeoxycholic acid
hyodesoxycholic acid
hyoid bone
hyp-
hypabyssal rock
hyped up
hyper-
hyper-Dorian
hyperbaric therapy
hyperbolic function
hyperbolic geometry
hyperboreal blast
hyperborean blast
hyperchromic anemia
hypercomplex number
hyperemesis gravidarum
hyperesthesia theory
hyperfine structure
hyperfocal distance
hypergeometric distribution
hypergeometric equation
hypergeometric function
hyperplastic inflammation
hypersonic speed
hypertensive heart disease
hypertrophic arthritis
hypertrophic inflammation
hyphenated American
hypn-
hypnagogic image
hypno-
hypnotic sleep
hypnotic somnolence
hypnotic suggestion
hypnotic trance
hypo-ionic mode
hypo-
hypo-alum
hypo-ovarianism
hypoaeolian mode
hypoantimonic acid
hypochlorous acid
hypochromic anemia
hypocotyl arch
hypocrite plant
hypodermic injection
hypodermic needle
hypodermic syringe
hypodermic tablet
hypodorian mode
hypodynamic cordis
hypogastric artery
hypoglossal nerve
hypoglycemic shock
hypoglycemic shock therapy
hypoid gear
hypoi-ionic mode
hypolocrian mode
hypolydian mode
hypomixolydian mode
hyponitrous acid
hypophosphoric acid
hypophosphorous acid
hypophrygian mode
hypophysis cerebri
hypoplastic anemia
hypospray injection
hyposulfurous acid
hyposulphurous acid
hypothecated stock
hypothesis ad hoc
hypothesis and verification
hypothetical imperative
hypothetico-disjunctive
hyps-
hypsi-
hypso-
hyraci-
hyson skin
hyssop loosestrife
hyssop oil
hyssop skullcap
hyssop spurge
hyssop violet
hyssop-leaved
hyst-
hyster-
hysteresis coefficient
hysteresis curve
hysteresis loop
hysteresis loss
hysteresis meter
hysteria libidinosa
hysteria-proof
hysterical aphony
hysterical epilepsy
hysterical fever
hysterical mutism
hystero-
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysterone proteron
hysterone-proteron
i beam
i-
i-come
i-cried
i-fere
i-type semiconductor
ia-
iambic pentameter
iatro-
iatrogenic disease
ibn-Batuta
ibn-Rushd
ibn-Saud
ibn-Sina
ice age
ice anchor
ice apron
ice ax
ice axe
ice bag
ice banner
ice barrier
ice beam
ice bear
ice belt
ice bird
ice bridge
ice bucket
ice bulletin
ice calorimeter
ice canoe
ice cap
ice cave
ice chest
ice chipper
ice chopper
ice claw
ice code
ice collar
ice color
ice concrete
ice cream
ice creeper
ice crusher
ice crystal
ice crystals
ice cube
ice cuber
ice cubes
ice cutter
ice dealer
ice dike
ice dock
ice drag
ice duck
ice feathers
ice fern
ice field
ice fish
ice fishing
ice floe
ice flower
ice flowers
ice fog
ice foot
ice fork
ice fox
ice front
ice glass
ice gorge
ice gull
ice gush
ice hockey
ice hook
ice house
ice island
ice jam
ice lance
ice lead
ice line
ice lolly
ice machine
ice maker
ice making
ice master
ice milk
ice nail
ice needle
ice over
ice pack
ice pail
ice paper
ice partridge
ice pellets
ice period
ice petrel
ice pick
ice pillar
ice pilot
ice pink
ice pinnacle
ice plant
ice plow
ice point
ice raft
ice rain
ice rampart
ice rink
ice river
ice run
ice scraper
ice shaver
ice shed
ice sheet
ice shelf
ice ship
ice show
ice skate
ice skates
ice skating
ice sky
ice spar
ice spur
ice stick
ice storm
ice stream
ice ton
ice tongs
ice tongue
ice up
ice water
ice whale
ice yacht
ice yachting
ice yachtsman
ice-bird
ice-blind
ice-boat
ice-bolt
ice-bound
ice-breaker
ice-breaking
ice-brook
ice-built
ice-cap
ice-capped
ice-chipping
ice-clad
ice-cold
ice-cool
ice-cooled
ice-covered
ice-cream
ice-cream cone
ice-cream fork
ice-cream freezer
ice-cream soda
ice-cream sundae
ice-crushing
ice-crusted
ice-cube
ice-cube machine
ice-cubing
ice-cutting
ice-encrusted
ice-enveloped
ice-fall
ice-field
ice-floe
ice-foot
ice-free
ice-green
ice-hill
ice-hook
ice-imprisoned
ice-island
ice-laid
ice-locked
ice-master
ice-mountain
ice-plant
ice-plough
ice-scoured
ice-sheet
ice-skate
ice-skated
ice-skating
ice-stream
ice-work
iceberg lettuce
icebox cake
iced coffee
iced tea
iced-tea spoon
iceland moss
iceland poppy
iceland spar
ich dien
ichn-
iche-numon fly
ichneumon-
ichthy-
icthyo-
icthyophthirius disease
icing sugar
icon-
iconic memory
icono-
icos-
icterus index
icy blasts
icy calm
icy clutch of dread
icy fingers of dread
icy nerves
icy pole
icy wind
icy-cold
id est
idea afloat
idea man
idea of pure reason
idea of reference
idea, the
ideal element
ideal gas
ideal gas equation or law
ideal gas law
ideal of pure reason
ideal point
ideal specific impulse
ideal type
idee fixe
idee-force
idee-maitresse
identical equation
identical proposition
identical rhyme
identical same
identical twin
identical twins
identification badge
identification bracelet
identification light
identification mark
identification parade
identification space
identification tag
identification thread
identified as
identify with
identify yourself with
identity card
identity crisis
identity matrix
identity theory of mind
ideo-
ideo-unit
ideogrammatic character
ideogrammatic symbol
ideogrammic character
ideogrammic symbol
ideographic character
ideographic symbol
ideopathic epilepsy
ides of March
idio-
idiom dictionary
idiomorphic-granular
idiot board
idiot box
idiot card
idiot savant
idiot savants
idiot sheet
idiot stitch
idiot work
idiot's delight
idiotic grin
idiots savants
idle away
idle away time
idle chat
idle chatter
idle chatterer
idle current
idle fancy
idle gear
idle gossip
idle hands
idle hours
idle pulley
idle rich
idle talk
idle threat
idle wheel
idle-brained
idle-handed
idle-headed
idle-looking
idle-minded
idle-pated
idle-witted
idler gear
idler pulley
idler wheel
idol breaker
idol worship
idol worshiper
idol worshiping
idolo-
idols of the cave
idols of the forum
idols of the market place
idols of the theater
idols of the tribe
idonic acid
ie-
ier-oe
if and only if
if and when
if at all
if ever
if humanly possible
if it be so
if it be true that
if it should happen that
if it so happens
if it turns out
if necessary
if need be
if not
if only
if possible
if worst comes to worst
if you please
if you wish
if-clause
ife hemp
ignatius’ bean
igneous rock
ignes fatui
igni-
ignis fatuous
ignis fatuus
ignition cable
ignition cap
ignition charge
ignition key
ignition point
ignition temperature
ignition tube
ignobile vulgus
ignominious defeat
ignoratio elenchii
ignore grammar
ignore it
ignore opportunity's knock
ignotum per ignotius
ikrar-namah
il Duce
il-
ilang-ilang
ile-
ilio-
ilo-ileostomy
iliac artery
ilio-
ilio-inguinal
iliotibial band
ill at ease
ill blood
ill breeding
ill disposition
ill done-by
ill fame
ill feeling
ill fortune
ill hap
ill health
ill house
ill humor
ill humored
ill humour
ill luck
ill manners
ill nature
ill off
ill repute
ill service
ill success
ill temper
ill turn
ill usage
ill use
ill will
ill wind
ill-
ill-according
ill-accoutered
ill-accustomed
ill-achieved
ill-acquired
ill-acted
ill-adapted
ill-adventured
ill-advised
ill-advisedly
ill-affected
ill-affectedly
ill-affectedness
ill-agreeable
ill-agreeing
ill-annexed
ill-armed
ill-arranged
ill-assimilated
ill-assorted
ill-assorted marriage
ill-at-ease
ill-balanced
ill-balanced sentences
ill-befitting
ill-begotten
ill-behaved
ill-being
ill-beseeming
ill-bested
ill-boding
ill-born
ill-borne
ill-breathed
ill-bred
ill-bred fellow
ill-built
ill-calculating
ill-cared
ill-celebrated
ill-cemented
ill-chosen
ill-clad
ill-cleckit
ill-coined
ill-colored
ill-come
ill-comer
ill-composed
ill-concealed
ill-conceived
ill-concerted
ill-conditioned
ill-conditionedness
ill-conducted
ill-considered
ill-consisting
ill-contented
ill-contenting
ill-contrived
ill-cured
ill-customed
ill-deedy
ill-defined
ill-definedness
ill-devised
ill-digested
ill-directed
ill-disciplined
ill-disposed
ill-disposedness
ill-dissembled
ill-doing
ill-done
ill-drawn
ill-dressed
ill-educated
ill-effaceable
ill-equipped
ill-erected
ill-executed
ill-famed
ill-farfeled
ill-faring
ill-faringly
ill-fashioned
ill-fated
ill-fated life
ill-fatedness
ill-favor
ill-favored
ill-favoredly
ill-favoredness
ill-favoured
ill-favouredly
ill-favouredness
ill-featured
ill-fed
ill-fitted
ill-fitting
ill-flavored
ill-foreseen
ill-formed
ill-found
ill-founded
ill-friend
ill-furnished
ill-gauged
ill-gendered
ill-given
ill-got
ill-gotten
ill-gotten gains
ill-governed
ill-greeting
ill-grounded
ill-hap
ill-headed
ill-health
ill-housed
ill-humor
ill-humored
ill-humored person
ill-humored woman
ill-humoredly
ill-humoredness
ill-humoured
ill-humouredly
ill-humouredness
ill-imagined
ill-informed
ill-intentioned
ill-invented
ill-joined
ill-judge
ill-judged
ill-judging
ill-kempt
ill-kept
ill-knotted
ill-less
ill-lighted
ill-limbed
ill-lit
ill-lived
ill-looked
ill-looking
ill-lookingness
ill-made
ill-manageable
ill-managed
ill-mannered
ill-manneredly
ill-manneredness
ill-mannerly
ill-marked
ill-matched
ill-mated
ill-meant
ill-met
ill-minded
ill-mindedly
ill-mindedness
ill-natured
ill-naturedly
ill-naturedness
ill-neighboring
ill-noised
ill-nurtured
ill-observant
ill-occupied
ill-omened
ill-omenedness
ill-paid
ill-perfuming
ill-persuaded
ill-placed
ill-pleased
ill-proportioned
ill-provided
ill-qualified
ill-regulated
ill-requite
ill-requited
ill-resounding
ill-rewarded
ill-roasted
ill-ruled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
ill-seen
ill-served
ill-set
ill-shaped
ill-smelling
ill-sorted
ill-sounding
ill-spent
ill-spun
ill-starred
ill-strung
ill-succeeding
ill-suited
ill-suing
ill-supported
ill-tasted
ill-taught
ill-tempered
ill-temperedly
ill-temperedness
ill-time
ill-timed
ill-tongued
ill-treat
ill-treated
ill-treater
ill-treatment
ill-tuned
ill-turned
ill-understood
ill-usage
ill-use
ill-used
ill-using
ill-ventilated
ill-weaved
ill-wedded
ill-willed
ill-willer
ill-willie
ill-willing
ill-willy
ill-wish
ill-wisher
ill-won
ill-worded
ill-written
ill-wrought
ill-yoked
illegal commerce
illegal operations
illegal traffic
illegible handwriting
illegitimate business
illegitimate child
illicit business
illicit businessman
illicit love
ilipe butter
illiterate speech
ills the flesh is heir to
illuminating engineer
illuminating engineering
illuminating gas
illuminating oil
illuminating projectile
illupi oil
illusion-proof
im-
image breaker
image breaking
image converter
image dissector
image iconoscope
image intensifier
image orthicon
image space
image tube
image worship
image-breaker
image-breaking
image-maker
image-matched input resistance
image-matched output resistance
image-worship
imageless thought
imagery study
imaginal bud
imaginal disk
imaginal type
imaginary axis
imaginary invalid
imaginary number
imaginary part
imaginary unit
imagination-proof
imaginative exercise
imagist verse
imagistic poetry
imb-
imbibition process
imbricato-
imbue with life
imbued with
imbued with life
imide chloride
imido group
imido radical
imino ester
imino group
imino radical
imitation doublet
imitation fur
imitation leather
imitation vermilion
imitation-proof
imitative magic
immaculate conception
immanent cause
immature personality
immaturity reaction
immediate annuity
immediate cause
immediate cognition
immediate communication
immediate constituent
immediate constituent analysis
immediate dislike
immediate foreground
immediate future
immediate neighbor
immediate prospect
immediate purpose
immediate resources
immediately if not sooner
immemorial usage
immense number
immersed in
immersed in thought
immersion foot
immersion heater
immersion lens
immersion scale
immolate before
immortal hand
immortal name
immovable feast
immune body
immune globulin
immune serum
immunity theory
immunization therapy
immuno-
imunosuppressive drug
imou pine
imp gal
imp-pole
impact area
impact parameter
impact pressure
impact test
impact theory
impaired hearing
impairment of motor function
impairment of speech
impanel a jury
impartial arbitrator
impatient of
impatient of control
impatient of discipline
impedance coil
impedance component
impedance drop
impedance matching
impedance ratio
impedient impediment
impelling force
impend over
imperceptible duration
imperfect cadence
imperfect competition
imperfect contrition
imperfect flower
imperfect fungus
imperfect knowledge
imperfect number
imperfect rhyme
imperfect speech
imperfect usufruct
imperfect vision
imperfectly spoken
imperial Brussels
imperial eagle
imperial elephant
imperial gallon
imperial jade
imperial mammoth
imperial moth
imperial octavo
imperial purple
imperial quarto
imperialist threat
imperially slim
imperium in imperio
impervious verb
impervious to
impervious to light
impervious to persuasion
imperviousness to light
impinge on the eye
impinge on your consciousness
impingement attack
impious person
implant in
implantation cone
implicate yourself
implicated in
implicit belief
implicit consent
implicit differentiation
implicit function
implicit function theorem
implied contract
implied meaning
implied threat
implore counsel
implore mercy
import credit
import tax
important person
important persons
important point
important thing
imported currantworm
imported wine
impose a penalty on
impose on
impose on you for
impose upon
impose your will
imposing an onus
imposing stone
imposing table
imposition of hands
impost block
impress forcibly
impress on the mind
impress upon
impress upon the memory
impress upon the mind
impressed by
impressed with
impressed with yourself
improper fraction
improper integral
improper suggestion
improve each shining hour
improve on
improve the mind
improve the occasion
improve the shining hour
improve upon
improve your mind
improvement lease
improvement purchase
improving the mind
improvisational drama
imprudent step
impudent person
impulse buying
impulse duct engine
impulse excitation
impulse face
impulse movement
impulse of life
impulse recorder
impulse roller
impulse transformer
impulse turbine
impurity atom
impute shame to
impute to
in Abraham's bosom
in Argolis
in Davy Jones's locker
in Dutch
in God's good time
in Indian file
in NW Africa
in Queer Street
in Sunday best
in Technicolor
in a backwater
in a bad humor
in a bad way
in a beeline
in a big way
in a bind
in a bit
in a blaze
in a blue funk
in a body
in a bondman's key
in a bother
in a botheration
in a box
in a capsule
in a chain
in a chorus
in a circle
in a class by itself
in a cloud
in a corner
in a crescendo
in a dark corner
in a daze
in a dead calm
in a delicate condition
in a different manner
in a dilemma
in a direct line
in a dither
in a fair manner
in a fair way
in a fair way to
in a fashion
in a ferment
in a fever
in a few words
in a fix
in a flash
in a flurry
in a fluster
in a flutter
in a fog
in a foofaraw
in a frenzy of desire
in a fright
in a fume
in a funk
in a fury
in a fury of desire
in a glow
in a good
in a good mood
in a good state of preservation
in a groove
in a haze
in a hole
in a hole-and-corner way
in a huddle
in a huff
in a hurry
in a jam
in a jiff
in a jiffy
in a jumble
in a lather
in a lather of haste
in a line
in a line for
in a little bit
in a little while
in a manner
in a manner of speaking
in a maze
in a measure
in a mess
in a minute
in a mist
in a moment
in a muck of a sweat
in a muddle
in a nice pickle
in a nutshell
in a panic
in a passion
in a pet
in a pickle
in a pig's eye
in a position to
in a pother
in a predicament
in a pretty pass
in a pretty pickle
in a pucker
in a quandary
in a quiver
in a rage
in a reverie
in a roundabout way
in a row
in a rush
in a rut
in a scrape
in a second
in a sense
in a series
in a shake
in a shocking humor
in a short time
in a short while
in a small compass
in a small way
in a smart-alecky way
in a smart-ass fashion
in a sorry plight
in a sound sleep
in a spin
in a spot
in a squirrel cage
in a stable state
in a state
in a state of nature
in a state of suspense
in a stew
in a straight line
in a stupor
in a sweat
in a sweat of haste
in a swivet
in a temper
in a tight spot
in a tizzy
in a trance
in a transport
in a transport of delight
in a trice
in a tumble
in a turmoil
in a twink
in a twinkling
in a twitter
in a watery bier
in a watery grave
in a wax
in a way
in a while
in a whirl
in a whisper
in a wink
in a word
in abeyance
in absentia
in abstracto
in abundance
in accord
in accordance
in accordance with
in action
in actuality
in addition
in addition to
in adjustment
in admiration
in advance
in advance of
in advance of your age
in adverse circumstances
in aeternum
in aftertime
in agreement
in agreement with
in aid of
in alarm
in all
in all ages
in all conscience
in all creation
in all directions
in all directions at once
in all fairness
in all haste
in all its intensity and color
in all likelihood
in all manner of ways
in all places
in all probability
in all quarters
in all reason
in all respects
in all seriousness
in all soberness
in all your born days
in alt
in altissimo
in amazement
in ambuscade
in ambush
in amends
in an aside
in an evil hour
in an instant
in an uncertain state
in an undertone
in an unguarded moment
in an uproar
in ancient times
in and in
in and out
in anger
in another way
in answer
in anticipation
in anticipation of
in antis
in any case
in any event
in any possible way
in any way
in apple-pie order
in apposition
in armor
in arms
in arrear
in arrears
in articulo mortis
in ascendancy
in association
in association with
in astonishment
in at the death
in atonement
in authority
in awe
in awe of
in back of
in bad
in bad humor
in bad odor
in bad odor with
in bad repute
in bad spirits
in bad taste
in bad with
in balance
in balk
in ballast
in banc
in banco
in base
in battle array
in bed
in bedrock
in behalf of
in being
in bend
in between
in bewilderment
in bits
in bits and pieces
in black and white
in bloom
in blossom
in blue water
in board
in bold relief
in bondage
in bonds
in brief
in brief compass
in broad daylight
in broad terms
in brodo
in buckram
in bud
in bulk
in cahoot
in cahoots
in camera
in captivity
in case
in case of
in case that
in cash
in chains
in chambers
in chancery
in character
in charge
in charge of
in check
in chevron
in chief
in childbed
in chorus
in circles
in circulation
in closed meeting
in clover
in cold blood
in collaboration
in collision
in collusion
in color
in column
in combat
in comfort
in command
in commemoration
in commemoration of
in commendam
in commission
in common
in company
in company with
in comparison with
in compensation
in competition
in complete steel
in compliance with
in complicity
in concert
in concert with
in conclave
in conclusion
in concord
in condition
in conference
in confidence
in confinement
in confirmation
in conflict with
in conformity with
in demand
in denial
in depth
in despair
in desperate case
in desperate straits
in despite of
in detail
in detention
in diapers
in difficulties
in difficulty
in disagreement
in disagreement with
in disarray
in discredit
in disdain
in disfavor
in disgrace
in disguise
in dishabille
in disorder
in dispute
in disrepair
in disrepute
in distress
in double harness
in double time
in double-quick time
in doubt
in driblets
in driblets and drabs
in dubio
in due course
in due form
in due season
in due time
in dumb show
in duplicate
in durance vile
in duty bound
in earnest
in ease
in eclipse
in ecstasies
in ecstasy
in effect
in either case
in embarrassed circumstances
in embryo
in epitome
in equal shares
in equilibrio
in equilibrium
in equipoise
in equity
in error
in escrow
in esse
in essence
in every clime
in every direction
in every hole and corner
in every instance
in every nook and cranny
in every place
in every quarter
in every region
in every respect
in every your mouth
in everyone's mouth
in evidence
in excess
in excess of
in exchange
in executive session
in exercise
in existence
in expectation
in explanation
in extenso
in extremis
in extremities
in fact
in faith
in fashion
in fault
in favor
in favor of
in fear
in fear and trembling
in fear of your life
in fee
in fee simple
in fess
in file
in good part
in good season
in good set terms
in good shape
in good spirits
in good supply
in good taste
in good time
in good trim
in good truth
in good with
in great measure
in grief
in half
in half a jiffy
in half a mo
in half a shake
in half measures
in halves
in hand
in harbor
in harmony
in harmony with
in harness
in haste
in haste like a snail
in health
in heaps
in heat
in heaven
in hell
in hellfire
in hiding
in hidlings
in high
in high dudgeon
in high esteem
in high estimation
in high favor
in high feather
in high gear
in high relief
in high spirits
in historic times
in hoc
in hoc signo vinces
in hock
in hold
in holes and corners
in holy orders
in honor of
in hopes
in hospital
in hostile array
in hot blood
in hot haste
in hot pursuit
in hot water
in hysterics
in idea
in ignorance of
in imitation of
in infinitum
in installments
in irons
in its entirety
in its infancy
in its own way
in its place
in its stead
in itself
in jeopardy
in jest
in joke
in justice
in juxtaposition
in keeping
in keeping with
in kelter
in kilter
in kind
in large
in layers
in leading strings
in leaf
in league
in leash
in length
in less than no time
in letters of fire
in lieu
in lieu of
in like manner
in limine
in line
in line of duty
in line with
in liquor
in litigation
in little
in loc cit
in lock-step with
in loco
in loco parentis
in longhand
in lots
in love
in love with
in low gear
in low relief
in low spirits
in luck
in lure
in luxury
in majority
in many instances
in march time
in measure
in medias res
in medium
in mem
in memoriam
in memory of
in mesh
in mid
in mid-progress
in miniature
in mint condition
in moderation
in mortal fear
in mothballs
in motion
in mourning
in must
in naked beauty more adorned
in name only
in nappies
in narrow circumstances
in native buff
in nature's garb
in need
in need of rest
in negligee
in no case
in no long time
in no place
in no respect
in no time
in no uncertain terms
in no way
in no wise
in nomine
in nothing flat
in numbers
in obedience to
in olden times
in omnia paratus
in one way or another
in one word
in open court
in operation
in opposition
in opposition to
in order
in order that
in order to
in orders
in ordinary
in orle
in other respects
in other ways
in other words
in our time
in outline
in ovo
in pain
in pais
in pale
in pantomime
in paradise
in parallel
in pari delicto
in part
in partibus
in particular
in partnership
in passage to
in passing
in pawn
in pectore
in pendentive
in penury
in peril
in perpetual remembrance
in perpetuity
in perpetuum
in person
in personam
in petto
in phase
in pieces
in place
in place of
in places
in plain English
in plain sight
in plain style
in plain terms
in plain view
in plain words
in play
in plenty
in point
in point of
in point of fact
in poor health
in poor taste
in port
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in praesenti
in preference
in preference to
in prehistoric times
in preparation
in preparation for
in pretense
in principle
in print
in prison
in privacy
in private
in private conference
in privy
in reparation
in reply
in reprisal
in requital
in rerum natura
in reserve
in residence
in respect of
in respect that
in respect to
in response
in restitution
in retaliation
in retirement
in retreat
in retribution
in retrospect
in return
in revenge
in reverse
in reward
in rhythm
in rivalry
in rotation
in round numbers
in round terms
in ruins
in russet mantle clad
in rut
in sackcloth and ashes
in saecula saeculorum
in safety
in sail
in scorn
in search of
in season
in season and out of season
in seclusion
in secrecy
in secret
in secret meeting
in seed
in seeming
in seisin
in self-defense
in sequence
in series
in service
in session
in set form
in set phrases
in set terms
in seven-league boots
in seventh heaven
in shape
in shards
in shelter
in shore
in short
in short order
in short supply
in shorthand
in shreds
in sickness and in health
in sight
in silence
in single file
in sinu Abraham
in situ
in slavery
in slow motion
in slow tempo
in small doses
in smithereens
in snatches
in so far
in so far as
in so many words
in society
in solido
in solidum
in solitude
in solution
in some measure
in some place
in some such way
in some way
in some way or other
in sooth
in soundings
in spades
in spate
in specie
in spite
in spite of
in spite of yourself
in spitting distance
in sport
in spots
in statu quo
in step
in step with
in stir
in stock
in store
in straitened circumstances
in strict confidence
in strong relief
in stud
in style
in subjection
in substance
in succession
in such wise
in sum
in summary
in supply
in support of
in suspense
in suspension
in swaddling clothes
in swarms
in sync
in synchronization
in tails
in tatters
in tears
in tempo
in terror
in terrorem
in terrorem clause
in that
in that case
in that event
in that instance
in that neighborhood
in that place
in that vicinity
in that way
in the Christian Era
in the Common Era
in the absence of
in the abstract
in the act
in the act of
in the affirmative
in the aftermath
in the age of
in the aggregate
in the air
in the aisle
in the altogether
in the arms of Morpheus
in the ascendant
in the background
in the bag
in the balance
in the beginning
in the best taste
in the black
in the blood
in the bloom of youth
in the bosom of the lodge
in the bosom of your family
in the bud
in the buff
in the can
in the cannon's mouth
in the cards
in the care of
in the center of
in the chains
in the charge of
in the chips
in the circumstances
in the clear
in the clouds
in the clover
in the clutches
in the cold
in the contingency that
in the course of
in the course of business
in the course of things
in the course of time
in the cradle
in the crib
in the dark
in the dark of night
in the dead of night
in the depths
in the direction of
in the distance
in the doghouse
in the doldrums
in the doleful dumps
in the driver's seat
in the dumps
in the dust
in the era of
in the event of
in the event that
in the extreme
in the eye of the wind
in the eyes of
in the eyes of the law
in the face of
in the face of day
in the face of death
in the face of heaven
in the family way
in the field
in the fire
in the first place
in the flesh
in the flower of youth
in the forefront
in the foreground
in the fourth place
in the front
in the fullness of time
in the future
in the gaseous state
in the glare of publicity
in the good old days
in the grand style
in the grave
in the grave six feet under
in the groove
in the gross
in the gutter
in the habit of
in the hands of
in the heart
in the heat of passion
in the highest degree
in the hole
in the hopper
in the humor
in the immediate future
in the interest
in the interim
in the intervening time
in the jaws of death
in the know
in the land of Nod
in the land of the living
in the lap of Morpheus
in the large
in the latest mode
in the latest style
in the lead
in the light of
in the limelight
in the limits of
in the line of duty
in the long run
in the lump
in the main
in the majority
in the making
in the market
in the market for
in the marketplace
in the marts of trade
in the mass
in the matter of
in the mean
in the meantime
in the meanwhile
in the melting mood
in the memory of man
in the middle
in the middle of
in the middle of the road
in the midst of
in the midst of battle
in the mind
in the mode
in the money
in the mood
in the morning
in the name of
in the natural way of things
in the near future
in the negative
in the neighborhood
in the neighborhood of
in the news
in the nick of time
in the night
in the nursery
in the offing
in the old days
in the olden time
in the open
in the open air
in the opinion of
in the oven
in the past
in the pink
in the pink of condition
in the pipeline
in the place of
in the plenitude of power
in the presence of
in the process of
in the process of time
in the public eye
in the raw
in the rear
in the red
in the remote distance
in the right
in the rough
in the saddle
in the same boat
in the same breath
in the same category
in the same manner
in the same way as
in the same words
in the second instance
in the second place
in the secret
in the semblance of
in the sequel
in the service of
in the shade
in the shadow of a rock
in the singular
in the small
in the soup
in the spotlight
in the state of nature
in the stead of
in the sweet by-and-by
in the swim
in the teeth of
in the teeth of the wind
in the thick of
in the thick of combat
in the thick of the fray
in the third place
in the thoughts
in the time of
in the train of
in the twinkling of an eye
in the usual course
in the van
in the vein
in the very act
in the very grain
in the vicinity
in the vicinity of
in the wake of
in the way
in the white
in the whole wide world
in the wide world
in the wind
in the wind's eye
in the wings
in the womb of time
in the works
in the world
in the worst way
in the wrong
in the wrong box
in the wrong pew
in the wrong place
in the year of our Lord
in theory
in there with
in these days
in this day and age
in this place
in this vicinity
in this way
in those parts
in throngs
in time
in times gone by
in times past
in torment
in toto
in tow
in trans
in transit
in transit to
in transitu
in trim
in triplicate
in triumph
in trouble
in trust
in truth
in tune
in turn
in turns
in twain
in two
in two shakes
in two shakes of a lamb's tail
in two words
in uniformity with
in unison
in unison with
in use
in utero
in vacuo
in vain
in various places
in velvet
in very sooth
in very truth
in view
in view of
in view of the fact that
in vino veritas
in violation of law
in virtue of
in vitro
in vivo
in vogue
in want
in want of
in way of
in what condition
in what manner
in what period
in what place
in what way
in which place
in which time
in white tie and tails
in with
in wonder
in words of one syllable
in words to that effect
in working order
in writing
in years
in your armor
in your bad books
in your behalf
in your best bib and tucker
in your birthday suit
in your black books
in your book
in your books
in your charge
in your chest
in your clutches
in your control
in your cups
in your element
in your employ
in your estimation
in your eye
in your favor
in your good
in your good books
in your good graces
in your grasp
in your grip
in your hands
in your heart of hearts
in your inmost thoughts
in your opinion
in your own hand
in your own interest
in your own person
in your own right
in your own sweet way
in your own way
in your pay
in your place
in your pocket
in your possession
in your power
in your prime
in your right mind
in your second childhood
in your shell
in your shirt sleeves
in your shirt-sleeves
in your shoes
in your sleeve
in your sober senses
in your stead
in your stocking feet
in your teens
in your thinking
in your tracks
in-
in-and-in
in-and-out
in-and-out bond
in-and-outer
in-beaming
in-being
in-between
in-bond shop
in-book
in-breeding
in-built
in-calf
in-car
in-clearer
in-clearing
in-clerk
in-co-ordinate
in-co-ordinated
in-co-ordination
in-crowd
in-dimension
in-fighting
in-flight
in-flight refueling
in-flight refueling tanker
in-flight training
in-goal
in-going
in-group
in-house
in-knee
in-kneed
in-law
in-laws
in-lb
in-lean
in-line
in-line engine
in-lot
in-marriage
in-migrant
in-migrate
in-migration
in-off
in-patient
in-phase
in-plant
in-quarto
in-sail
in-service
in-service training
in-the-wool
in-to-out
in-toed
in-tray
inability to believe
inactive market
inactive stock
inactive war
inadequate personality
inalienable right
inanimate matter
inasmuch as
inaugural address
inauguration day
inboard profile
inboard-outboard motor
inboard-rigged
inborn aptitude
inborn capacity
inborn predisposition
inborn proclivity
inborn susceptibility
inborn tendency
incandescent body
incandescent electric lamp
incandescent lamp
incandescent light
incandescent lighting
incandescent mantle
incandescent point
incapable of
incapable of life
incarnations of
incasement theory
incendiary antiaircraft rocket
incendiary bomb
incendiary grenade
incendiary rocket
incense boat
incense burner
incense cedar
incense juniper
incense resin
incense shrub
incense tree
incense wood
incense-breathing
incense-breathing morn
incentive pay
incentive wage
inch along
inch by inch
inch forward
inch mast
inch of mercury
inch plant
inch rule
inch your way up
inch-deep
inch-high
inch-long
inch-pound
inch-thick
inch-ton
inch-wide
incidence wire
incident light
incident light meter
incident to
incidental information
incidental music
incidental note
incidental power
incidental remark
incidental to
inciso-
incisor foramen
incito-motor
inclination compass
inclination of the balance
inclination of the head
inclination to believe
inclinatory needle
incline an ear to
incline plane
incline the head
incline toward
incline towards
incline your ear
inclined engine
inclined plane
inclined railway
inclined to
inclined to believe
inclined to forget
inclined toward
inclined-plane clock
inclining toward
include in
include me out
include out
inclusion body
inclusion map
inclusion-exclusion
inclusive disjunction
inclusive of
inclusive or
inco-ordinate
inco-ordination
income account
income after deductions
income after taxes
income basis
income bond
income fund
income group
income sheet
income stock
income tax
income-tax
incoming population
incomplete antibody
incomplete fracture
incontestable clause
incontrovertible evidence
incorporated bar
incorporeal being
incorporeal entity
incorporeal hereditament
increase in size
increase of temperature
increase the chances
increase the temperature
increase twist
increment borer
incremental plotter
incremental recorder
incremental repetition
increasent moon
incriminate yourself
incriminating evidence
incubation patch
incubation period
incubator baby
incubator bird
incumbent on
incumbent upon
incur a debt
incur a responsibility
incur costs
incur danger
incur discredit
incur disesteem
incur disgrace
incur dishonor
incur expenses
incur loss
ind-
indanthrene blue
inde blue
indebted to
indecent assault
indecent exposure
indecent proposal
indefinite article
indefinite integral
indefinite number
indefinite pronoun
indefinite quantities
indefinite space
indelibly impressed
indelibly impressed on the mind
indelicate language
indemnity bond
indentured servant
independence day
independence of path
independent assortment
independent clause
independent of
independent of your will
independent school
independent variable
independent-seconds watch
independently rich
independently wealthy
indeterminacy principle
indeterminate sentence
index bar
index card
index center
index correction
index crank
index error
index expurgatorius
index finger
index forest
index fossil
index glass
index hand
index head
index mark
index notation
index number
index of refraction
index per cent
index pin
index plane
index plate
index sector
index set
index-linked
india ink
india paper
india rubber
india-rubber
indian club
indian corn
indian fig
indian file
indian giver
indian hemp
indian ink
indian licorice
indian meal
indian paintbrush
indian pipe
indian pudding
indian red
indian sign
indian summer
indian tobacco
indian turnip
indicated horsepower
indicating control switch
indicator card
indicator diagram
indicator plant
indicator telegraph
indicator tube
indices Librorum Prohibitorum
indicial equation
indignant displeasure
indignation meeting
indignation-proof
indigo auxiliary
indigo bird
indigo blue
indigo broom
indigo brown
indigo bunting
indigo bush
indigo carmine
indigo copper
indigo dyer
indigo extract
indigo finch
indigo grinder
indigo maker
indigo plant
indigo printing
indigo snake
indigo thorn
indigo weed
indigo white
indigo-bearing
indigo-bird
indigo-blue
indigo-dyed
indigo-grinding
indigo-plant
indigo-producing
indigo-white
indigo-yielding
indirect authority
indirect costs
indirect course
indirect discourse
indirect evidence
indirect infection
indirect initiative
indirect labor
indirect lighting
indirect object
indirect power
indirect primary
indirect proof
indirect question
indirect speech
indirect tax
indisposed to believe
indisposed to communicate
indisposed to talk
indisposition to speak
indisputable evidence
indisputable fact
indistinct speech
individual essence
individual identity
individual liberty
individual medley
individual psychology
individual responsibility
individual retirement account
individual speech competence
individual speech habits
individual speech performance
indo-
indo-arian
indo-chinese
indo-european
indo-european languages
indo-german
indo-germanic
indo-hittite
indo-iranian
indoleacetic acid
indolebutyric acid
indomitable sea
indoor baseball
indoor-outdoor carpeting
indorse, indorsement
induced current
induced drag
induced radioactivity
induced topology
inductance coil
inductance factor
induction accelerator
induction balance
induction bridge
induction coil
induction compass
induction current
induction furnace
induction generator
induction hardening
induction heat
induction heater
induction heating
induction heating machine
induction instrument
induction machine
induction meter
induction motor
induction regulator
induction top
inductive capacity
inductive method
inductive reactance
inductive reasoning
inducto-
inductor alternator
inductor compass
inductor generator
indulge in
indulge in easy vices
indulge in wish-fulfillment
indulge with
indulge your appetite
indulge your appetites
indulge yourself
indurated clay
industrial action
industrial archaeology
industrial art
industrial arts
industrial chemistry
industrial design
industrial designer
industrial disease
industrial economy
industrial engineer
industrial engineering
industrial estate
industrial instrumentation
industrial insurance
industrial life insurance
industrial medicine
industrial park
industrial psychologist
industrial psychology
industrial relations
industrial revolution
industrial school
industrial store
industrial union
industrial worker
industrial zone
inequivalent inert gas
inertia ellipsoid
inertia governor
inertia selling
inertia transmission
inertia-reel seat-belt
inertial guidance
inertial guidance system
inertial mass
inertial navigation
inertial navigation system
inertial reference frame
inertial space
inertial system
inescapable fact
inevitable accident
inevitably narrative
inexpiable sin
inextensive deformation
infant prodigy
infant school
infant-school
infantile amnesia
infantile fixation
infantile paralysis
infantile sexuality
infantry combat
infantry tactics
infants' school
infants' wear
infatuated with
infection hypha
infection period
infection thread
infectional arthritis
infectious disease
infectious ectromelia
infectious granuloma
infectious hepatitis
infectious keratitis
infectious laryngotracheitis
infectious mononucleosis
infectious myxomatosis
inferior article
inferior court
inferior goods
inferior horse
inferior maxillary
inferior personality
inferior planet
inferiority complex
infernal machine
infernal pit
infernal regions
infero-
infield fly
infiltration gallery
infiltration vein
infinite baffle
infinite duration
infinite goodness
infinite integral
infinite justice
infinite love
infinite mercy
infinite power
infinite product
infinite regress
infinite series
infinite space
infinite spirit
infinite truth
infinite wisdom
infinitely continuous
infinitely extended
infinitesimal calculus
infinitive clause
infinitive marker
infinitive phrase
infinito-
infinito-absolute
infinito-infinitesimal
infinity plug
infirm of purpose
infirm of will
infirm old age
infirmity of age
infirmity of purpose
infirmity of will
inflame with love
inflammable material
inflammatory rheumatism
inflatable slide
inflate prices
inflationary gap
inflationary pressure
inflationary prices
inflationary spiral
inflationary trend
inflationist period
inflection of voice
inflection point
inflexible will
inflict a penalty on
inflict capital punishment
inflict on
inflict pain
inflict upon
influence machine
influence peddler
influence peddling
influence user
influential person
influential persons
inform against
inform on
informa pauperis
informal English
informal agreement
informal language
informal school
informal speech
informal standard speech
informal vote
information against
information center
information explosion
information machine
information media
information medium
information retrieval
information science
information storage
information theory
informatory double
informed in
informed of
informing gun
infra dig
infra dignitatem
infra indiginitatem
infra praesidia
infra-
infra-anal
infra-angelic
infra-auricular
infra-axillary
infra-esophageal
infra-red
infra-umbilical
infrared beam projector
infrared broiler
infrared cooker
infrared gas and liquid analyzer
infrared heater
infrared lamp
infrared photography
infrared ray
infrared spectroscopy
infrared telescope
infrared therapy
infraroentgen ray
infringe a copyright
infringement of copyright
infuse life into
infusion process
infusorial earth
ingle cheek
ingle nook
ingle-bred
inglorious defeat
ingot chipper
ingot cutter
ingot forger
ingot heater
ingot iron
ingot lathe
ingot maker
ingot weigher
ingrain carpet
ingratiate yourself
ingratiate yourself with
inguino-
inhabitants of Pandemonium
inhalation tuberculosis
inhale snuff
inhale spasmodically
inharmonious harmony
inhere in
inherent authority
inherent immunity
inherent power
inherent stability
inherent vice
inheritance factor
inheritance tax
inherited immunity
inhibit your desires
inhibiting antibody
initial rhyme
initial stability
initiation fee
inject in
inject yourself into
injection grid
injection method
injection-gneiss
injure your reputation
injury benefit
injury of your reputation
injury time
injury to your reputation
injury-proof
ink bag
ink ball
ink bell
ink black
ink bottle
ink bottler
ink cap
ink cartridge
ink disease
ink eradicator
ink eraser
ink fountain
ink gall
ink grinder
ink in
ink knife
ink maker
ink malady
ink marble
ink mixer
ink mushroom
ink nut
ink pad
ink plant
ink printer
ink roller
ink sac
ink spiller
ink spilling
ink up
ink-berry
ink-black
ink-blurred
ink-cap
ink-carrying
ink-colored
ink-distributing
ink-dropping
ink-slab
ink-spotted
ink-stained
ink-wasting
ink-writing
ink-written
inkblot test
inkhorn term
inking bell
inking roller
inky cap
inky-black
inland bill
inland marine insurance
inland sea
inland waters
inlay graft
inlying picket
inmost heart
inmost mind
inmost recesses of the memory
inmost soul
inmost thoughts
inn of court
innate aptitude
innate idea
innate immunity
innate proclivity
innato-
ininner arbiter
inner automorphism
inner bar
inner barrister
inner circle
inner city
inner ear
inner essence
inner form
inner jib
inner landscape
inner life
inner light
inner man
inner mechanism
inner mission
inner nature
inner planet
inner product
inner reality
inner recess
inner recesses of the heart
inner recesses of the mind
inner self
inner space
inner station
inner tube
inner workings
inner-city
inner-directed
inner-directed person
inner-directedness
inner-direction
innermost being
innermost recesses
innermost recesses of the heart
innerspring mattress
innocent as a lamb
innocent person
innocent tumor
innocent within
innominate artery
innominate bone
innominate vein
innovation-proof
ino-
inofficious testament
inofficious will
inordinate desire
inorganic chemical
inorganic chemistry
inorganic fertilizer
inorganic matter
inorganic substance
inorganized matter
inositol-hexaphosphoric
inositolhexaphosphoric acid
inp-
inpatient clinic
input conductance
input current
input data
input oscillation
input quantity
input resistance
input voltage
input-output analysis
input-output device
inquire after
inquire for
inquire into
inquire of
inquire onto
inquiring mind
inquiry agent
inquiry into
inquiry into first causes
ins and outs
insane asylum
insanity curing
insanity-proof
insatiable desire
inscribe in the memory
inscribe yourself
insculp'd upon
insect bed
insect flower
insect lime
insect orchis
insect powder
insect sound
insect wax
insect-eating
insect-eating bird
insectivorous bat
insensible to
insensible to the past
inseparable friend
insert in
inset initial
inside and out
inside clinch
inside dope
inside forward
inside information
inside job
inside loop
inside man
inside of
inside out
inside parts
inside straight
inside track
inside wire
inside-out
insigne cum laude
insignia of arm
insignia of branch
insignia of rank
insincere argument
insinuate in
insinuate yourself
insinuate yourself into
insist on
insist upon
insistent demand
insofar as
insolvency statute
insolvent debtor
insomnia-proof
insomuch as
inspect the books
inspection chamber
inspection gauge
inspector general
inspector of taxes
inspire belief
inspire confidence
inspire hope
inspire respect
inspired leader
inspiriting force
inspiriting power
inspiriting principle
instability line
installment bond
installment buying
installment credit
installment loan
installment mortgage
installment plan
installment selling
instance court
instance side
instant replay
instantaneous sound pressure
instead of
instinct for
instinct with life
institute an inquiry
institute of technology
institution of higher learning
instruction card
instruction-proof
instrument board
instrument carrier
instrument flight
instrument flight rules
instrument flying
instrument in proof
instrument instrumentality
instrument lamp
instrument landing
instrument landing system
instrument light
instrument of execution
instrument of punishment
instrument of torture
instrument panel
instrument rocket
instrument servo
instrument transformer
instrumental conditioning
instrumental logic
instrumental music
instrumental score
instruments of
destruction
insubstantial image
insufficiency of the valves
insufficient funds
insulating tape
insulation resistance
insulin reaction
insulin shock
insulin shock therapy
insurance adjuster
insurance agent
insurance auditor
insurance broker
insurance canvasser
insurance clerk
insurance collector
insurance company
insurance examiner
insurance man
insurance messenger
insurance patrol
insurance policy
insurance reserve
insurance salesman
insurance solicitor
insurance tester
insurance traveler
insurance underwriter
insuring clause
insusceptible of change
intaglio printing
intaglio rilevato
intaglio rilievo
intake manifold
intake valve
intangible assets
integer vitae
integrable group
integral calculus
integral cover
integral curvature
integral curve
integral cylinder head
integral domain
integral equation
integral function
integral humanism
integral photography
integral test
integral unit
integral whole
integrated bar
integrated circuit
integrated data processing
integrated personality
integrated system
integrating factor
integrating flowmeter
integrating ionization chamber
integration by parts
integration of personality
integrative power
intellectual acquirement
intellectual acquisition
intellectual attainment
intellectual childishness
intellectual climate
intellectual curiosity
intellectual elite
intellectual exercise
intellectual faculty
intellectual genius
intellectual gifts
intellectual grasp
intellectual immaturity
intellectual inertia
intellectual object
intellectual pleasure
intellectual power
intellectual prodigy
intellectual talents
intellectual weakness
intellectually childish
intellectually immature
intelligence agency
intelligence agent
intelligence bureau
intelligence department
intelligence office
intelligence officer
intelligence quotient
intelligence service
intelligence test
intelligence testing
intelligence work
intelligent being
intemperate person
intend to
intense cold
intense darkness
intense heat
intensity of illumination
intensity-modulated display
intensive care
intensive farming
intent on
intent upon
inter alia
inter alios
inter nos
inter se
inter vivos
inter-
inter-‘varsity
inter-Allied
inter-American
inter-Andean
inter-European
inter-agent
inter-brain
inter-plane
inter-varsity
intercalary meristem
intercardinal point
interception radar
interchange of speech
interchange of views
interchangeable bond
intercommunication system
intercosmic space
interdict list
interdiction bombing
interdiction fire
interdisciplinary knowledge
interesse termini
interest group
interest in
interest inventory
interest lottery
interest payment
interest rate
interests of
interfacial tension
interfaith marriage
interfere with
interference color
interference drag
interference figure
interference fit
interference microscope
interference microscopy
interference pattern
interference phenomenon
interference spectrum
interference-proof
intergalactic distance
intergalactic matter
intergalactic space
interim bond
interim certificate
interim dividend
interior angle
interior ballistics
interior decorating
interior decoration
interior decorator
interior design
interior designer
interior drainage
interior man
interior mapping
interior monologue
interior paint
interior planet
interior point
interior polygon
interior side
interior slope
interior-sprung
interjection point
interlaced scanning
interlacing arcade
interlibrary loan
interline rate
interlinear translation
interlocking directorate
interlocking directorates
interlocutory decree
intermediate agent
intermediate card
intermediate frequency
intermediate host
intermediate period
intermediate pile
intermediate school
intermediate schooler
intermediate space
intermediate trainer
intermediate vessel
intermediate-frequency amplifier
intermediate-frequency pulse
intermediate-frequency signal
intermediate-frequency tube
intermediate-value theorem
intermedio-lateral
intermeshing rotors
intermeshing-rotor helicopter
intermetallic compound
intermittent claudication
intermittent current
intermittent duct engine
intermittent fever
intermittent movement
internal auditory meatus
internal conversion
internal ear
internal energy
internal evidence
internal friction
internal frustration
internal gear
internal hemorrhoid
internal iliac artery
internal jugular vein
internal medicine
internal reality
internal reconstruction
internal relation
internal respiration
internal revenue
internal revenue agent
internal revenue tax
internal rhyme
internal secretion
internal selector
internal stress
internal-combustion
internal-combustion engine
international Morse code
international agreement
international air mile
international alphabet flag
international angstrom
international bank
international banking
international candle
international carat
international date line
international fixed calendar
international law
international nautical mile
international numeral pennant
international organization
international pitch
international radio silence
international relations
international securities
international temperature scale
international unit
international-minded
internment camp
inter-
internuncial neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpreive semantics
interquartile range
interracial marriage
interrogation mark
interrogation point
interrogator-responser
interrupted cadence
interrupted fern
interrupted screw
interrupted sequence
intersecting arcade
intersection locus
intersection of minds
interstate highway
interstellar distance
interstellar space
interstitial irradiation therapy
intertidal zone
interval of convergence
interval operation
interval training
intervening space
intervertebral disc
intervertebral disk
intervertebral substance
intestinal digestion
intestinal flora
intestinal fortitude
intestinal juice
intimate acquaintance
intimate borrowing
intimate friend
intimate friendship
intimate with
intimately related
into arrears
into commission
into high gear
into irons
into it
into question
into the background
into the bargain
into the dust
into the ground
into the past
into the shoes of
into the wind
into the wind's eye
into thin air
into with both feet
into your hands
intolerant person
intonation contour
intonation of voice
intonation pattern
intoxicating liquor
intra muros
intra vires
intra vitam
intra-
intra-abdominal
intra-abdominally
intra-acinous
intra-alveolar
intra-appendicular
intra-arachnoid
intra-arterial
intra-articular
intra-atomic
intra-atrial
intra-aural
intra-auricular
intra-mercurial
intra-urban
intra-urethral
intra-uterine
intra-vitam
intracranial cast
intracutaneous test
intransitive relation
intransitive verb
intraterine device
intravenous drip
intravenous therapy
intrazonal soil
intrenching tool
intrinsic evidence
intrinsic factor
intrinsic semiconductor
intro-
introduce in
introduce new blood
introductory phrase
introductory study
intrusive rock
intuitional geometry
intuitive impression
intuitive knowledge
intuitive reason
invalid claim
invalid linking
invalid title
invalidity benefit
invariant subalgebra
inveigh against
inventory-clearance sale
inverse cosecant
inverse cosine
inverse cotangent
inverse feedback
inverse function
inverse geometry
inverse image
inverse peak voltage
inverse proportion
inverse ratio
inverse relationship
inverse secant
inverse sine
inverse square law
inverse tangent
inversion casting
inversion center
inversion point
inversion temperature
inversion transconductance
invert soap
invert sugar
inverted comma
inverted cross
inverted engine
inverted flight
inverted king post truss
inverted mordent
inverted normal loop
inverted pleat
inverted snob
inverted spin
inverted turn
invertible counterpoint
inverting telescope
invest in
invest with power
investigation into first causes
investigative agency
investigative bureau
investment bank
investment banker
investment banking
investment banking house
investment bill
investment broker
investment casting
investment company
investment credit
investment mold
investment reserve
investment securities
investment trust
investors on the sidelines
invisible balance
invisible glass
invisible hand
invisible helper
invisible ink
invisible painting
invisible radiation
invisible shadow
invitation to combat
invitational race
invite attention
invite ridicule
invocation of saints
invocatory plea
invocatory prayer
invoke benefits upon
involuntary cooperation
involuntary impulse
involuntary muscle
involuntary presence
involuntary servitude
involute teeth
involute-leaved
involutional melancholia
involutional psychosis
involve in
involve the interest
involve with
involve yourself
involved in
involved in debt
inward light
inward monitor
inward-bound
inward-flow turbine
io moth
io-
iod-
iodic acid
iodine absorption
iodine bush
iodine pentoxide
iodine scarlet
iodine value
iodine weed
iodo-
iodobehenic acid
ion chamber
ion counter
ion engine
ion exchange
ion propulsion
ion propulsior
ion rocket
ionic bond
ionic conduction
ionization chamber
ionization constant
ionization current
ionization gauge
ionization potential
ionizing event
ionizing radiation
ionospheric wave
iota subscript
ipecac spurge
ippi-appa
ipse dixit
ipsissima verba
ipsissimis verbis
ipso facto
ipso jure
ir-
irid-
iridescent seaweed
iridium black
irido-
iris blue
iris diaphragm
iris family
iris green
iris mauve
iris shutter
iris stop
iris-in
iris-out
irish bull
irish coffee
irish moss
irish setter
irish terrier
irish water spaniel
irish wolfhound
irish-gaelic
iron age
iron alum
iron ammonium oxalate
iron bacteria
iron blue
iron boot
iron brick
iron brown
iron buff
iron bullet
iron calker
iron carbide
iron carbonate
iron caster
iron cement
iron chloride
iron citrate
iron clay
iron coating
iron concrete
iron corer
iron crow
iron curtain
iron deficiency anemia
iron discharger
iron dog
iron family
iron filing
iron fitter
iron forger
iron founder
iron foundry
iron gang
iron glance
iron grass
iron gray
iron grey
iron grip
iron gum
iron hand
iron hat
iron heater
iron heel
iron horse
iron hydroxide
iron law of wages
iron liquor
iron loss
iron lung
iron maiden
iron maker
iron man
iron manufacturer
iron miner
iron mining
iron minium
iron mold
iron molder
iron nerves
iron oak
iron ore
iron out
iron oxide
iron perchloride
iron planer
iron plate
iron plater
iron prospector
iron protosulphate
iron puddler
iron putty
iron pyrites
iron ration
iron rations
iron red
iron roller
iron roofer
iron rust
iron sand
iron scale
iron scrap
iron shearer
iron sickness
iron sodium oxalate
iron spinel
iron sponge
iron stand
iron stretcher
iron sulfate
iron sulphate
iron sulphide
iron tree
iron trichloride
iron trimmer
iron vit
iron vitriol
iron will
iron yellow
iron-banded
iron-bark
iron-barred
iron-black
iron-blue dun
iron-blue spinner
iron-bound
iron-boweled
iron-braced
iron-branded
iron-burnt
iron-calked
iron-capped
iron-cased
iron-clenched
iron-coated
iron-colored
iron-core transformer
iron-cored
iron-curtain country
iron-enameled
iron-faced
iron-fastened
iron-forged
iron-founder
iron-free
iron-gloved
iron-grated
iron-gray
iron-grey
iron-guarded
iron-handed
iron-hard
iron-hearted
iron-heartedly
iron-heartedness
iron-heeled
iron-hooped
iron-jawed
iron-jointed
iron-knotted
iron-lined
iron-man
iron-marked
iron-mine
iron-mold
iron-mooded
iron-mould
iron-nailed
iron-nerved
iron-ore
iron-oxide red
iron-pated
iron-railed
iron-red
iron-ribbed
iron-riveted
iron-sand
iron-sceptered
iron-sheathed
iron-sick
iron-souled
iron-spotted
iron-stained
iron-strapped
iron-studded
iron-tipped
iron-tired
iron-toothed
iron-tree
iron-vane meter
iron-visaged
iron-willed
iron-winged
iron-witted
iron-worded
ironbark acacia
ironbark box
ironbound coast
ironbound security
ironclad agreement
ironclad oath
ironclad proof
ironclad ram
ironclad reasoning
ironer-up
ironic implication
ironic juxtaposition
ironic suggestion
ironing board
irons in the fire
ironstone china
irony-proof
irradiation therapy
irrational number
irreducible and stubborn facts
irreducible content
irrefutable logic
irregular motion
irregular warfare
irrepressible optimist
irresistible force
irresistible impulse
irresolute person
irrespective of
irrigating shovel
irrigation ditch
irrigation engineer
irrigation engineering
irritable bowel syndrome
irritable heart
irritable man
irritable temper
irritation fever
irritation-proof
is-
is-it
isamine blue
isat-
ischemic heart disease
ischio-
issing-star
island arc
island base
island chain
island continent
island group
island myrtle
island of Langerhans
island of Reil
island universe
island-belted
island-born
island-contained
island-dotted
island-dweller
island-hop
island-strewn
island-studded
islet of Langerhans
islet of langerhans
islets of Langerhans
iso-
iso-octane
iso-osmotic
iso-urea
iso-uretine
iso-uric
isoamyl acetate
isoamyl benzoate
isoamyl benzyl ether
isoamyl group
isoamyl nitrite
isoamyl radical
isoamyl salicylate
isobaric line
isobutyl propionate
isoclinal line
isoclinic line
isocyanic acid
isocyno group
isocyno radical
isoelectric point
isoganal line
isogonal line
isogonic line
isoionic point
isolate yourself
isolating language
isolation booth
isolation hospital
isolation ward
isomagnetic line
isometric drawing
isometric exercises
isometric line
isometric projection
isonicotinic acid hydrazide
isophthalic acid
isopiestic line
isoplastic graft
isoporic line
isopropyl alcohol
isopropyl ether
isopropyl group
isopropyl meprobamate
isopropyl radical
isosceles triangle
isothermal line
isothermal process
isothermal region
isothiocyanate group
isothiocyanate radical
isotope therapy
isotopic isobar
isoxyllic acid
issue a blank check
issue a caveat
issue a command
issue a manifesto
issue a position paper
issue a prohibitory injunction
issue a statement
issue a white paper
issue a writ
issue an injunction
issue an injunction against
issue an invitation
issue an ultimatum
issue forth
issue from
issue par
issue price
issue securities
issue stock
issued capital stock
issuing company
isthmus of the fauces
it beats me
it beats the Dutch
it being provided
it can be supposed
it cannot be helped
it does not matter
it does not signify
it follows that
it has me guessing
it is all the same
it is certain
it is fated
it is for a fact
it is necessary
it is of no consequence
it is of no importance
it is proven
it is said
it is that
it is written
it makes no difference
it matters not
it may be
it might be thought
it must be
it must follow
it must have its way
it must needs be
it needs must be
it stands to reason
it will all come out in the wash
it will be
it would appear
it's God's will
it's Greek to me
it's all one to me
it's all the same to me
it's beyond me
it's in the cards
it's no go
it's too deep for me
ita-palm
itaconic acid
italian sonnet
italo-
itch for
itch for knowledge
itch louse
itch mite
itch to
itch tree
itching for
itching palm
itching to
itchwood tree
item by item
item of evidence
item on the agenda
item veto
itemized bill
iterated integral
its last legs
its way
itsy-bitsy
itsy-witsy
itty-bitty
iu-
ivied halls
ivory black
ivory bleacher
ivory board
ivory brown
ivory carver
ivory carving
ivory cutter
ivory engraver
ivory fluter
ivory gull
ivory hunter
ivory hunting
ivory nut
ivory palm
ivory paper
ivory plant
ivory plum
ivory polisher
ivory porcelain
ivory rounder
ivory slabber
ivory sorter
ivory thumper
ivory tickler
ivory tower
ivory tree
ivory yellow
ivory-backed
ivory-beaked
ivory-billed
ivory-billed woodpecker
ivory-black
ivory-bound
ivory-carving
ivory-faced
ivory-finished
<table>
<thead>
<tr>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>j'y suis j'y reste</td>
<td>jaal goat</td>
<td>jaal-goat</td>
<td>jab at</td>
<td>jacaranda brown</td>
<td>jacaranda palm</td>
<td>jack Mormon</td>
<td>jack afloat</td>
<td>jack arch</td>
<td>jack baker</td>
<td>jack bean</td>
<td>jack block</td>
<td>jack boot</td>
<td>jack bowl</td>
<td>jack chain</td>
<td>jack cheese</td>
<td>jack crosstree</td>
<td>jack crosstrees</td>
<td>jack crows</td>
<td>jack curlew</td>
</tr>
</tbody>
</table>
jack field
jack frost
jack fruit
jack head
jack hern
jack in
jack johnson
jack ketch
jack ladder
jack lagging
jack lamp
jack lantern
jack light
jack line
jack mackerel
jack nicker
jack oak
jack of all trades
jack pigeon
jack pin
jack pine
jack pit
jack plane
jack plum
jack post
jack pot
jack press
jack rabbit
jack rafter
jack rib
jack rod
jack roll
jack rope
jack saddle
jack salmon
jack shave
jack spinner
jack spring
jack staff
jack stop
jack stretcher
jack stringer
jack timber
jack towel
jack tree
jack truss
jack up
jack worm
jack yard
jack-a-dandies
jack-a-dandy
jack-a-dandyism
jack-a-lent
jack-at-a-pinch
jack-boot
jack-booted
jack-boy
jack-by-the-hedge
jack-chain
jack-frame
jack-fruit
jack-in-a-box
jack-in-a-boxes
jack-in-office
jack-in-the-box
jack-in-the-boxes
jack-in-the-green
jack-in-the-pulpit
jack-in-the-pulpits
jack-knife
jack-line
jack-o’-lantern
jack-o-lantern
jack-of-all-trades
jack-plane
jack-pudding
jack-rabbit
jack-screw
jack-snipe
jack-spaniard
jack-staff
jack-stone
jack-straw
jack-tar
jack-yarder
jackal buzzard
jackass bark
jackass brig
jackass clover
jackass copal
jackass deer
jackass fish
jackass gunter
jackass hare
jackass kingfisher
jackass penguin
jackass rig
jackass-rigged
jackdaw in peacock's feathers
jacket crown
jackhead pit
jacking engine
jacking-up
jackknife clam
jackknife-fish
jackknife-fishes
jackleg lawyer
jackleg politician
jacko bush
jacks-of-all-trades
jackson day
jacky winter
jacob's ladder
jacob's membrane
jacob's staff
jacobean lily
jade green
jade plant
jade-green
jade-stone
jag bolt
jag spear
jag spike
jagged-toothed
jagger spring
jaggery palm
jagging iron
jaguar-man
jai alai
jail delivery
jail fever
jail-bird
jail-delivery
jail-fever
jake leg
jalee work
jam in
jam nut
jam riveter
jam session
jam through
jam up
jam weld
jam-full
jam-pack
jam-packed
jam-up
jamaica ginger
jamaica rum
jamais de la vie
jamb shaft
jambe de mouton
jamestown-weed
janca tree
jane doe
jane-of-apes
jangada fiber
jangada tree
jangle the nerves
jangled nerves
januis clausis
janus geminus
japan allspice
japan clover
japan drier
japan wax
japanese beetle
japanese iris
japanese millet
japanese mink
japanese persimmon
japanese plum
japanese quince
japanese spurge
japanic acid
jar on
jar upon the ear
jar with
jar-bird
jar-burial
jar-owl
jara-assu
jardin anglais
jardin chinois
jardin des plantes
jardins anglais
jardins chinois
jargon aphasia
jargon word
jarring of sounds
jasmine oil
jasmine tea
jasper gray
jasper green
jasper opal
jasper pink
jasper red
jasper ware
jato unit
jaundice berry
jaundice tree
jaundice-eyed
jaundiced eye
jaundiced yellow
jaunting car
jaunting-car
jaunty car
java man
java sparrow
javelin bat
javelin man
javelin throw
javelin thrower
javelin-man
javelle water
jaw bit
jaw clutch
jaw coupling
jaw crusher
jaw jerk
jaw lizard
jaw rope
jaw slide
jaw wrench
jaw's-harp
jaw-bone
jaw-cracking
jaw-fall
jaw-fallen
jaw-locked
jaw-tied
jaw-twister
jaws of death
jay bird
jay blue
jay teal
jay-bird
jay-hawker
jay-vee
jazz band
jazz festival
jazz musician
jazz singer
jazz stick
jazz up
jazzed up
je ne sais quoi
je vous en prie
je vous remercie beaucoup
je-te
jealous-hood
jealous-pated
jealousy-proof
jecoric acid
jedding ax
jeep carrier
jeepers creepers
jeer at
jeer capstan
jefferson davis's birthday
jefferson day
jeffrey pine
jehovah's witnesses
jejun-
jejuno-colostomy
jejuno-ileostomy
jejuno-jejunostomy
jekyll and hyde
jell-o
jellied gasoline
jelly baby
jelly bag
jelly bean
jelly boiler
jelly doughnut
jelly egg
jelly lichen
jelly nut
jelly plant
jelly poke
jelly powder
jelly roll
jelly-fish
jennie harp
jenny ass
jenny cutthroat
jenny howlet
jenny scaffold
jet injection
jet interrupter
jet jockey
jet lag
jet motor
jet pilot
jet pipe
jet plane
jet pod
jet power
jet propeller
jet propulsion
jet pump
jet rock
jet set
jet setter
jet stream
jet tanker
jet thrust
jet transport
jet wash
jet-assisted takeoff
jet-black
jet-enamelled ware
jet-pile
jet-propelled
jet-propulsion
jet-set
jet-setter
jeu d'esprit
jeu de mots
jeu de theatre
jeune fille
jeune premier
jeune premiere
jeunes filles
jeunes premiers
jeunesse dor
jeunesse doree
jeux d'esprit
jeux de mots
jew crow
jew down
jew nail
jew's harp
jew's-ear
jew's-harp
jew-fish
jewel block
jewel box
jewel case
jewel smuggling
jewel thief
jewel-block
jewel-bright
jewel-colored
jewel-enshrined
jewel-gleaming
jewel-headed
jewel-house
jewel-loving
jewel-proof
jewel-studded
jeweler's putty
jeweler's rouge
jewelers' putty
jewelers' rouge
jeweller's rouge
jewelry store
jewelweed family
jewish calendar
jews' harp
jews' stone
jews' trump
jib boom
jib cat
jib crane
jib door
jib guy
jib iron
jib martingale
jib netting
jib pole
jib sheet
jib stay
jib topsail
jib traveler
jib-boom
jib-door
jib-headed
jib-header
jib-o-jib
jibber jib
jibber the kibber
jibe all standing
jibe at
jig borer
jig brow
jig bushing
jig button
jig indicator
jig saw
jig-back
jig-drill
jig-file
jig-jig
jig-jog
jig-joggy
jig-saw
jigger boom
jigger flea
jigger mast
jigger pump
jigger saw
jig-ger weed
jiggery-pokery
jigog ring
jigsaw puzzle
jill-flirt
jim crow
jim crowism
jim dash
jim-crow
jim-dandy
jim-dandy peach
jim-jam
jimson weed
jimson-weed
jin ricksha
jingle bell
jingle shell
jingle stick
jingle-jangle
jingling John
jingling Johnny
jinny road
jitney driver
jiu-jitsu
jive talk
jnana-marga
jo-darter
job action
job analysis
job card
job case
job classification
job costing
job description
job font
job lot
job of work
job order
job press
job printer
job printing
job ticket
job type
job watch
job work
job's comforter
job's tears
job-order costing
jobbing printer
jock strap
jockey backstay
jockey bar
jockey boot
jockey box
jockey cap
jockey club
jockey coat
jockey gear
jockey pulley
jockey saddle
jockey weight
jockey wheel
jodhpur boot
jodhpur boots
jodhpur shoe
joe rocker
joe-pye weed
joey glass
jog along
jog on
jog the memory
jog trot
jog-jog
jog-trot
joggle beam
joggle piece
joggle plating
joggle post
juggling plank
john barleycorn
john bull
john doe
john dory
john hancock
john henry
john-a-nokes
john-a-stiles
john-apple
johnny cake
johnny house
johnny reb
johnny-cake
johnny-jump-up
johnny-on-the-spot
johnson grass
joie de vivre
join Maths
join battle
join battle with
join forces
join fortunes with
join hands
join hands with
join in
join in a conversation
join in fellowship
join in holy wedlock
join in marriage
join in the chorus
join issue
join issue upon
join the angels
join the choir invisible
join the great majority
join the majority
join the opposition
join the parade
join together
join up
join up with
join with
join your ancestors
join your fortunes with
join yourself to
join yourself with
join-
joy girl
joy powder
joy ride
joy rider
joy riding
joy stick
joy-beredt
joy-bright
joy-bringing
joy-deserted
joy-dispelling
joy-encompassed
joy-inspiring
joy-juice
joy-killer
joy-mixed
joy-rapt
joy-resounding
joy-ridden
joy-ride
joy-riding
joy-rode
joy-wrung
ju-jitsu
ju-ju
jubilant display
jubilee indulgence
judaeo-
judas hole
judas tree
judas window
judas-tree
judeo-spanish
judex ordinarius
judex pedaneus
judge advocate
judge advocate general
judge advocate general corps
judge advocate generals
judge advocates
judge advocates general
judge amiss
judge before the evidence is in
judge beforehand
judge delegate
judge not
judge of assize
judge ordinary
juicy morsel
jujitsu expert
jujube plum
juke house
juke joint
julian calendar
jumbee bean
jumble sale
jumble together
jumbo jet
jump Computer technol
jump a claim
jump a mile
jump aboard
jump about
jump all over
jump all over someone
jump area
jump at
jump at the bidding of
jump bail
jump ball
jump bid
jump dial
jump discontinuity
jump down your throat
jump frog
jump head
jump in
jump into
jump jet
jump joint
jump leads
jump line
jump off
jump on
jump on the bandwagon
jump out
jump out of your skin
jump over
jump pass
jump ring
jump rope
jump saw
jump scrape
jump seat
jump ship
jump shot
jump spark
jump stroke
jump suit
jump the gun
jump to a conclusion
jump to it
jump turn
jump up
jump weld
jump wire
jump-
jump-hop
jump-off
jump-shift
jump-spark coil
jump-start
jump-up
jumped-up
jumper cable
jumper lead
jumper sled
jumper stay
jumper wire
jumping bean
jumping disease
jumping jack
jumping mouse
jumping pain
jumping plant louse
jumping spider
jumping-off place
jumping-off-place
jumpy as a cat on a hot tin roof
junction box
junction transistor
juncture of events
june beetle
jungle ballot
jungle bear
jungle bendy
jungle bunny
jungle cat
jungle cock
jungle fever
jungle fowl
jungle geranium
jungle green
jungle gym
jungle hen
jungle juice
jungle ox
jungle rice
jungle rot
jungle sheep
jungle warfare
jungle-clad
jungle-covered
jungle-traveling
jungle-walking
jungle-worn
junior barister
junior chamber of commerce
junior college
junior common room
junior counsel
junior high
junior high school
junior leaguer
junior lightweight
junior middleweight
junior miss
junior officer
junior school
junior securities
junior varsity
junior welterweight
juniper bay
juniper berries
juniper berry
juniper cedar
juniper gum tree
juniper oil
juniper tree
juniper webworm
juniper-berry oil
juniper-tar oil
juniperic acid
junk bottle
junk collector
junk dealer
junk food
junk heap
junk jewelry
junk mail
junk peddler
junk ring
junk room
junk shop
junk yard
junk-bottle
jupiter's beard
jure divino
jure humano
juridical days
juristic act
juristic person
jury box
jury chancellor
jury fixing
jury list
jury mast
jury of inquest
jury of matrons
jury of the vicinage
jury of women
jury of your peers
jury panel
jury process
jury room
jury selection
jury skid
jury trial
jury wheel
jury-
jury-fixer
jury-mast
jury-pack ing
jury-rig
jury-rigged
jury-rigged expedient
jury-rigging
jury-shy
jury-squaring
jus canonicum
jus civile
jus commune
jus divinum
jus ecclesiasticum
jus gentium
jus inter gentes
jus naturae
jus naturale
jus postliminii
jus primae noctis
jus publicum
jus sanguinis
jus scriptum
jus soli
just a bit
just about
just across the street
just alike
just around the corner
just as predicted
just as you thought
just be
just being
just dandy
just deserts
just do
just enough
just expectation
just folks
just here
just imagine
just in case
just in time
just intonation
just know
just like one
just like that
just next door
just noticeable difference
just now
just once
just opposite
just out
just plain nuts
just right
just see
just so
just the opposite
just the other way
just the other way around
just the reverse
just the same
just then
just this once
just to be doing
just under the wire
just what the doctor ordered
juste-milieu
juste-milieux
justice box
justice court
justice in eyre
justice of assize
justice of the peace
justice seat
justice's warrant
justice-dealing
justice-loving
justice-proof
justice-sighting
justices in eyre
justifiable abortion
justifiable expectation
justifiable homicide
justification by faith
justification by works
justification space
justify hope
justify one in supposing
justifying space
justitia omnibus
jut out
jut over
jute board
jute butts
jute crusher
jute opener
jute tier
juvenile plumage
juvenile book
juvenile court
juvenile delinquency
juvenile delinquent
juvenile dictionary
juvenile editor
juvenile hormone
juvenile lead
juvenile officer
juxta-ampullar
juxta-articular
juxtapose in opposition
k ration
k'ai shu
k-meson
kA
kCi
keel arch
keel batten
keel line
keel over
keel petal
keel rail
keel rope
keel up
keel vessel
keel-boat
keel-bully
keeled snake
keelson rider
keen about
keen desire
keen eye
keen interest
keen on
keen pleasure
keen satisfaction
keen sight
keen-biting
keen- eared
keen-edged
keen-eyed
keen-nosed
keen-o
keen-o-peachy
keen-scented
keen-sighted
keen-witted
keen-wittedness
keena nuts
keep a check of
keep a check on
keep a civil tongue in your head
keep a course
keep a firm hand on
keep a firm hold upon
keep a good leeway
keep a good lookout
keep a good lookout for
keep a good margin
keep a good offing
keep a happy medium
keep a light in the window
keep a middle course
keep a nose to the wind
keep a sharp eye on
keep a sharp eye upon
keep a sharp lookout
keep a sharp lookout for
keep a stiff upper lip
keep a straight face
keep a tight hand on
keep a tight hand upon
keep a tight rein on
keep a watch
keep a weather eye open
keep abreast of the times
keep account of
keep accounts
keep afloat
keep alert
keep alive
keep alive in your thoughts
keep aloof
keep aloof from
keep an account with
keep an ace up your sleeve
keep an ear to the ground
keep an eye on
keep an eye out for
keep an eye upon
keep an idea
keep an open house
keep an open mind
keep apart
keep as a nest egg
keep aside
keep at
keep at a distance
keep at a respectful distance
keep at arm's length
keep at bay
keep at it
keep at your beck and call
keep awake
keep away
keep away from
keep bachelor quarters
keep back
keep banker's hours
keep between us
keep body and soul together
keep books
keep both feet on the ground
keep busy
keep buttoned up
keep by one
keep calm
keep clear of
keep close
keep close to
keep coming
keep company
keep company with
keep cool
keep count of
keep dark
keep doggedly at
keep down
keep driving
keep everyone waiting
keep faith
keep faith with
keep fit
keep fresh
keep from
keep from harm
keep from laughing
keep from spreading
keep going
keep guard
keep hands off
keep her so
keep her steady
keep hidden
keep hold of
keep hold of the land
keep hope alive
keep hoping
keep house
keep in
keep in bounds
keep in check
keep in contact with
keep in countenance
keep in custody
keep in detention
keep in formation
keep in hand
keep in ignorance
keep in line
keep in memory
keep in mind
keep in order
keep in practice
keep in reserve
keep in sight
keep in step
keep in store
keep in suspense
keep in the background
keep in the dark
keep in the middle of the road
keep in the right path
keep in touch
keep in touch with
keep in view
keep in with
keep informed
keep intact
keep inviolate
keep it a deep
keep it under your hat
keep kosher
keep late hours
keep moving
keep mum
keep off
keep off and on
keep on
keep on good terms
keep on hand
keep on the go
keep on the safe side
keep open house
keep out
keep out of harm's way
keep out of mischief
keep out of sight
keep out of the way
keep out of the way of
keep pace with
keep pointed
keep posted
keep quiet
keep remote from
keep safe
keep score
keep secret
keep shady
keep silence
keep silent
keep snug
keep something for a rainy day
keep station
keep step
keep step with
keep still
keep subject
keep tab
keep tab on
keep tabs
keep tabs on
keep tally
keep the ball rolling
keep the change
keep the course
keep the door open
keep the ears on the ground
keep the ears to the ground
keep the even tenor of your way
keep the eyes upon
keep the faith
keep the field
keep the golden mean
keep the heading
keep the lid on
keep the memory alive
keep the peace
keep the pot boiling
keep the wolf from the door
keep the wound open
keep time
keep to
keep to the middle
keep to the middle path
keep to the middle way
keep to yourself
keep together
keep track of
keep troth
keep trying
keep under
keep under control
keep under cover
keep under lock and key
keep under observation
keep under wraps
keep under your thumb
keep up
keep up a correspondence
keep up a fast pace
keep up a killing pace
keep up appearances
keep up on
keep up the good work
keep up the memory of
keep up to date
keep up to standard
keep up with
keep up with the Joneses
keep up your courage
keep uppermost in your thought
keep vigil
keep watch
keep watch and ward
keep watch over
keep within
keep within bounds
keep within compass
keep within limits
keep within these walls
keep within your budget
keep within your means
keep you guessing
keep you on edge
keep you on pins and needles
keep you on tenterhooks
keep you posted
keep your chin up
keep your cool
keep your course
keep your distance
keep your ear to the ground
keep your ears open
keep your esthetic distance
keep your eye on the ball
keep your eye peeled
keep your eyes on the stars
keep your eyes open
keep your eyes peeled
keep your eyes skinned
keep your fingers crossed
keep your footing
keep your freedom
keep your hand in
keep your head
keep your head above water
keep your mouth shut
keep your nose out of this
keep your nose to the grindstone
keep your own counsel
keep your pecker up
keep your place
keep your powder dry
keep your promise
keep your shirt on
keep your spirits up
keep your sword in its sheath
keep your temper
keep your trap shut
keep your weather eye open
keep your word
keep your yap shut
keep yourself to yourself
keep yourself under control
keeper hook
keeper ring
keeping apart
keeping flocks and herds
keeping in
keeping in mind
keeping room
keeping secret
keeping-room
keg fig
keg spring
kei-apple
kekuna oil
kelp ash
kelp crab
kelp goose
kelp greenling
kelp gull
kelp hen
kelp pigeon
kelp plover
kelp raft
kemiri nut
kemp-haired
kendal green
kennel club
kennelly-heaviside layer
kenny method
keno goose
kent cap
kente cloth
kentucky coffee tree
kephalo-
kept down
kept in
kept in remembrance
kept in reserve
kept mistress
kept under
kept woman
kera-
kera-
kent cap
kerato-
kerato-
kerb drill
kerb market
kerb weight
kerb-stone
kerbstone market
kermes mineral
kermes oak
kern counter
kernel sentence
kernel smut
kernel spot
kerosene heater
kerosene stove
kerry blue terrier
kestner plant
ket-
ketch-rigged
keto form
keto-
keto-enol isomerism
keto-enol tautomerism
ketone alcohol
ketone body
ketone group
ketone radical
kettle base
kettle hat
kettle hole
kettle maker
kettle moraine
kettle net
kettle of fish
kettle stitch
kettle-bottom
kettle-bottomed
kettle-stitch
kew tree
kewpie doll
key bed
key bit
key block
key bolt
key bugle
key case
key chord
key club
key desk
key drift
key file
key filer
key frame
key fruit
key harp
key holder
key horizon
key industry
key line
key man
key money
key move
key of the Nile
key pad
key pattern
key pin
key pipe
key plate
key plug
key punch
key ring
key rocker
key scarf
key seat
key sentence
key signature
key size
key station
key stop
key to
key to the city
key tone
key trait
key trumpet
key up
key word
key-bugle
key-cold
key-drawing
key-note
key-seat rule
keyed up
keyed-up
keyhole limpet
keyhole saw
keyhole urchin
keynote insurance
keynote address
keynote speech
keystone joist
keystone sack
keyway caliper
keyway drill
kg-m
khaki bush
khaki campbell
khaki weed
khaki-clad
khaki-clothed
khaki-colored
khaki-hued
kheu tree
khus-khus
ki-yi
kiabooca wood
kick about
kick against
kick against the pricks
kick around
kick back
kick down the ladder
kick downstairs
kick in
kick in the teeth
kick off
kick off an attack
kick out
kick over
kick over the traces
kick plait
kick plate
kick pleat
kick start
kick starter
kick the air
kick the beam
kick the bucket
kick the clouds
kick the habit
kick the wind
kick turn
kick up
kick up a dust
kick up a hullabaloo
kick up a racket
kick up a row
kick up a shindy
kick up dust
kick up your heels
kick upstairs
kick wheel
kick you in the teeth
kick your habit
kick your heels
kick yourself
kick-about
kick-off
kick-sled
kick-start
kick-up
kickie-wickie
kicking coil
kicking downstairs
kicking out
kicking strap
kicking tackle
kicking upstairs
kicking-colt
kicking-horses
kicksey-winsey
kicksie-wicksie
kicksy-wicksy
kid along
kid around
kid brother
kid glove
kid gloves
kid out of
kid point
kid sister
kid stuff
kid yourself
kid-glove
kid-glove orange
kid-glove politics
kid-gloved
kid-skin
kiddie car
kidding around
kiddy car
kidney basin
kidney bean
kidney beans
kidney corpuscle
kidney cotton
kidney disease
kidney liverleaf
kidney machine
kidney oil
kidney ore
kidney pie
kidney stone
kidney transplant
kidney vetch
kidney worm
kidney-bean tree
kidney-leaved
kidney-shaped
kids' stuff
kikuyu grass
kill by inches
kill en masse
kill off
kill the fatted calf
kill the slain
kill time
kill two birds with one stone
kill with kindness
kill yourself
kill-
kill-courtesy
kill-cow
kill-crazy
kill-crazy animal
kill-devil
kill-joy
kill-kid
kill-time
kill-wart
killdeer plover
killed bowl
killed spirits
killed-virus vaccine
killer boat
killer whale
killer-diller
killing bottle
killing frost
killing ground
killing pace
killing site
killing time
killy hawk
kiln evaporator
kiln foreman
kiln run brick
kiln scum
kiln-burnt
kiln-dried
kiln-dry
kiln-drying
kilo-
kilo-oersted
kiloelectron volt
kilogram calorie
kilogram-calorie
kilogram-force
kilogram-meter
kilogramme-metre
kilovar-hour
kilovolt-ampere
kilovolt-ampere-hour
kilowatt-hour
kilt pleat
kim-kam
kimono sleeve
kind Nature's signal of retreat
kind deed
kind of
kind offices
kind regards
kind remembrances
kind words and comfortable
kind-hearted
kind-mannered
kindest regards
kindle down
kindling wood
kindly act
kindly disposition
kindly-disposed
kindred soul
kindred spirit
kinds of
kinematic pair
kinematic viscosity
kinesi-
kineesthetic memory
kinetic art
kinetic energy
kinetic potential
kinetic theory
kinetic theory of gases
kinetic theory of heat
kinetic theory of matter
kineto-
king at arms
king auk
king ball
king bee
king bridge
king card
king carp
king closer
king closure
king clover
king cobra
king conch
king crab
king crow
king devil
king eagle
king eider
king fern
king james version
king leg
king lory
king mackerel
king monkey
king mullet
king nut
king of arms
king of beasts
king of the castle
king of the forest
king of the herrings
king of the hill
king of the mountain
king ortolan
king parakeet
king penguin
king plank
king plant
king post
king prawn
king quail
king rail
king rod
king row
king salmon
king size
king snake
king sora
king spoke
king tody
king truss
king vulture
king's English
king's bench
king's birthday
king's blue
king's colour
king's colours
king's counsel
king's english
king's evidence
king's evil
king's highway
king's man
king's pattern
king's peace
king's purple
king's ransom
king's scout
king's-shilling
king's weather
king's yellow
king's-pawn openings
king-bird
kiss good-bye
kiss hands
kiss of death
kiss of life
kiss of peace
kiss off
kiss one’s feet
kiss the book
kiss the hem of your garment
kiss the rod
kiss your ass
kiss your feet
kiss-me
kiss-me-quick
kiss-off
kissing and making up
kissing bug
kissing cousin
kissing crust
kissing dance
kissing disease
kissing gate
kissing gourami
kissing kin
kissing strings
kit and boodle
kit and caboodle
kit bag
kit fiddle
kit fox
kit out
kit violin
kit-cat
kit-fox
kitchen bob
kitchen boiler
kitchen cabinet
kitchen fee
kitchen garden
kitchen gardener
kitchen ground
kitchen kaffir
kitchen match
kitchen midden
kitchen police
kitchen range
kitchen rose
kitchen saw
knee drill
knee drop
knee grass
knee guard
knee halter
knee holly
knee holm
knee jerk
knee joint
knee pants
knee pine
knee plate
knee puff
knee punch
knee rafter
knee roof
knee socks
knee strap
knee swell
knee timber
knee tool
knee viol
knee-bent
knee-bowed
knee-braced
knee-breeched
knee-cap
knee-crooking
knee-deep
knee-high
knee-high to a grasshopper
knee-hole
knee-joint
knee-jointed
knee-length
knee-pan
knee-shaking
knee-shaped
knee-sprung
knee-tied
knee-timber
knee-worn
kneel grass
kneel to
kneeling rafter
kneeling stool
knell-like
knick-knack
knife acacia
knife and fork
knife bar
knife bayonet
knife box
knife colter
knife edge
knife file
knife grass
knife grinder
knife key
knife lanyard
knife money
knife plait
knife plaiting
knife pleat
knife poised at your throat
knife rest
knife stone
knife switch
knife tool
knife-backed
knife-bladed
knife-board
knife-edge
knife-edged
knife-featured
knife-grinder
knife-handle
knife-jawed
knife-plaited
knife-point
knife-shaped
knife-striped
knifing tool
knight adventure
knight bachelor
knight bachelors
knight banneret
knight baronet
knight commander
knight cross
knight errant
knight errantry
knight grand commander
knight grand cross
knight marshal
knight of columbus
knight of the pen
knight of the plume
knight of the post
knight of the quill
knight of the road
knight service
knight templar
knight's fee
knight's-spur
knight-adventurer
knight-errant
knight-errantries
knight-errantry
knight-errantry
knight-service
knighthood-errant
knightly skill
knights adventurers
knights bachelors
knights bannerets
knights baronets
knights commanders
knights grand commanders
knights grand cross
knights marshals
knights-errant
knit goods
knit the brow
knitting case
knitting machine
knitting needle
knitting pin
knitting sheath
knitting stick
knitting wire
knob celery
knob latch
knob lock
knob-billed
knob-nosed
knobbling fire
knobbling roll
knobcone pine
knock about
knock against
knock around
knock back
knock cold
knock dead
knock down
knock for a loop
knock galley-west
knock in
knock in the head
knock into a cocked hat
knock into your head
knock it off
knock off
knock on the head
knock on wood
knock out
knock out of the box
knock over
knock rummy
knock senseless
knock stiff
knock the bottom out of
knock the chip off your shoulder
knock the chocks
knock the chocks out from under
knock the props out from under
knock together
knock unconscious
knock under
knock up
knock you off your perch
knock your brains out
knock your eyes out
knock your head against
knock yourself out
knock-
knock-about
knock-down
knock-down-and-drag
knock-down-and-drag-out
knock-down-and-drag-out fight
knock-down-and-drag-out quarrel
knock-down-drag-out
knock-knee
knock-kneed
knock-knees
knock-me-down
knock-on
knock-out
knockdown argument
knocked flat
knocked out
knocked silly
knocked up
knocked-down
knocker-off
knocker-up
knocking-shop
knockout blow
knockout drop
knockout drops
knol-khol
knop yarn
knot bindweed
knot clipper
knot gall
knot garden
knot porter
knot stitch
knot tier
knot-grass
knot-jointed
knot-jointed rice grass
knot-portering
knotgrass spurge
knotroot grass
knotted score
knotter bill
knotter hook
knotting bill
knotty pine
knotty point
knotty question
knotty rhatany
knotty-leaved
knotty-pated
knotweed spurge
know a hawk from a handsaw
know a little
know a thing or two
know a trick worth two of that
know again
know all the answers
know all the ins and outs
know all the moves of the game
know all the tricks
know all the tricks of the trade
know backwards
know backwards and forwards
know beforehand
know by heart
know by rote
know by sight
know damn well
know darn well
know down to the ground
know for certain
know from A to Z
know from alpha to omega
know from nothing
know from the ground up
know full well
know inside out
know instinctively
know it all
know it-all
know like a book
know like the back of your hand
know no bounds
know no end
know no wrong
know not
know not what
know nothing
know nothing of
know the
know the ropes
know the score
know the ways of the world
know well
know what it's all about
know what's what
know when you have had enough
know which is which
know your ass from your elbow
know your onions
know your own mind
know your stuff
know your way about
know-all
know-how
know-it-all
know-little
know-nothing
know-nothingism
know-nothingness
knowledge of the world
knowledge without reason
knowledge without thought
knowledge-gap
known as
known by every schoolboy
known by measurement
known by the name of
known quantity
knuckle ball
knuckle bow
knuckle down
knuckle down to
knuckle gear
knuckle gearing
knuckle guard
knuckle joint
knuckle line
knuckle molding
knuckle pin
knuckle post
knuckle timber
knuckle tip
knuckle to
knuckle tooth
knuckle under
knuckle under to
knuckle-bone
knuckle-deep
knuckle-duster
knuckle-dusters
knuckle-joint
knuckle-joint press
knuckle-kneed
knurl toe
ko-katana
koa finch
koda millet
koh-i-noor
koi-kopal
kok-saghyz
kokra wood
kokum butter
kokum oil
kol nidre
kola nut
kola tree
koloa mapu
koloa moha
komma-ichi-da
kona cyclone
kona storm
konker tree
koppel flute
kosam seeds
kosher soap
kosher wine
kottabos kataktos
kousso flower
kow-tow
kraft paper
kraft process
kraut grass
krebs cycle
krems lead
krenging hook
kriss kringle
kriya-sakti
kriya-shakti
krym-saghyz
kryo-
ku klux klan
ku kluxer
ku-klux
kudzu vine
kugel granite
kujiira shaku
kung chih
kung chin
kung ching
kung fen
kung fu
kung-fu
kungu cake
kuo-yu
kuping tael
kurchee bark
kuroshio extension
kuroshio system
kurrol's salt
kuteera gum
kutira gum
kwe-bird
kyano-
kyrie eleison
l'istesso tempo
l'union fait la force
l-
l-arterenol
l-glucose
l-noradrenaline
l-norepinephrine
la carte
la grippe
la guerre
la mode
la patrie
la recherche du temps perdu
la ronde
la tene
la-de-da
la-di-da
la-la
laap insect
laap insects
label stop
labeled atom
labeled element
labia majora
labia minora
labial pipe
labio-
labium majus
labium minus
labium minus pudendi
labor against
labor and bring forth
labor bank
labor camp
labor caucus
labor contract
labor costs
labor day
labor exchange
labor force
labor in behalf of
labor in darkness
labor in vain
labor in your vocation
labor interests
labor lost
labor market
labor movement
labor of Sisyphus
labor of love
labor omnia vincit
labor organizer
labor pains
labor relations
labor room
labor spy
labor strike
labor the obvious
labor turnover
labor under
labor under a disadvantage
labor under a false impression
labor under difficulties
labor union
labor unionist
labor value theory
labor-saving
labor-saving device
laborare est orare
laboratory animal
laboratory apparatus
laboratory assistant
laboratory camera
laboratory chemist
laboratory course
laboratory diagnosis
laboratory equipment
laboratory experiment
laboratory method
laboratory microscope
laboratory school
laboratory table
laboratory technician
laboratory technique
laboratory test
laboratory work
laboratory worker
labored breathing
laboring man
laboring oar
labors of Hercules
labour camp
labour exchange
labour-saving
labrador retriever
labyrinth fish
labyrinth packing
lac dye
lac insect
lac lake
lac resin
lac resins
lac sulphuris
lac sumac
lac tree
lac virginis
lac wax
lace bug
lace coral
lace curtain
lace edging
lace fern
lace finisher
lace fly
lace glass
lace grass
lace into
lace lizard
lace maker
lace paper
lace piece
lace pigeon
lace pillow
lace plant
lace shoes
lace stitch
lace tree
lace trimming
lace up
lace vine
lace-bordered
lace-covered
lace-curtain
lace-curtained
lace-edged
lace-fern
lace-finishing
lace-fronted
lace-leaf
lace-leaves
lace-piece
lace-trimmed
lace-vine
lace-winged
lacerate the ear
lacerate the heart
lacertus fibrosus
lacewing fly
lachryma Christi
lachryma christi
lachrymal bone
lachrymatory gas
lacing course
lack force
lack in
lack of affect
lack of agreement
lack of appetite
lack of bite
lack of charisma
lack of charm
lack of claim
lack of color
lack of concord
lack of contact
lack of depth
lack of eagerness
lack of enthusiasm
lack of feeling
lack of feeling tone
lack of feelings
lack of finish
lack of food
lack of force
lack of foresight
lack of forethought
lack of hindrance
lack of incisiveness
lack of influence
lack of information
lack of integrity
lack of interest
lack of magnetism
lack of meaning
lack of message
lack of parallelism
lack of personality
lack of pleasure
lack of polish
lack of power
lack of preparation
lack of refinement
lack of respect
lack of self-confidence
lack of self-reliance
lack of sentimentality
lack of sheen
lack of sparkle
lack of title
lack of touch
lack of vision
lack of weight
lack of zeal
lack regularity
lack-all
lack-beard
lack-brain
lack-fettle
lack-latin
lack-learning
lack-linen
lack-love
lack-lustre
lack-pity
lacquer red
lacquer tree
lacquer ware
lacrim-
lacrimal bone
lacrimal duct
lacrimal gland
lacrimal sac
lacrosse stick
lact-
lactate dehydrogenase
lacteal gland
lactic acid
lacto-
lactogenic hormone
lactose intolerance
lacunar amnesia
lacustrine dweller
lacustrine dwelling
lacustrine inhabitant
lad's love
ladder back
ladder beetle
ladder braid
ladder chain
ladder company
ladder jack
ladder pipe
ladder road
ladder shell
ladder stitch
ladder tournament
ladder track
ladder truck
ladder-back
ladder-back chair
ladder-backed
laden with doom
laden with significance
laden with sorrow
ladies' fingers
ladies' gallery
ladies' man
ladies' room
ladies' wear
ladies'-tobacco
ladies'-tobaccoes
ladies'-tobaccos
ladies'-wear shop
ladies-in-waiting
ladies-of-the-night
ladies-tresses
ladle board
ladle out
lady apple
lady beetle
lady bountiful
lady bracken
lady brake
lady chair
lady chapel
lady court
lady crab
lady cracker
lady day
lady fair
lady fern
lady friend
lady grass
lady hair grass
lady killer
lady love
lady mayoress
lady of pleasure
lady of the bedchamber
lady of the evening
lady of the house
lady pea
lady superior
lady whin
lady woman
lady wrack
lady's bedstraw
lady's cushion
lady's finger
lady's glove
lady's laces
lady's maid
lady's man
lady's mantle
lady's slipper
lady's thumb
lady's traces
lady's-eardrop
lady's-mantle
lady's-slipper
lady's-smock
lady's-thistle
lady's-thumb
lady's-tresses
lady-bird
lady-cow
lady-fish
lady-help
lady-in-waiting
lady-killer
lady-killing
lady-love
lady-of-the-night
lady-slipper
lady-smock
ladybird beetle
laetare sunday
laevo-
lag b'omer
lag behind
lag bolt
lag fault
lag line
lag screw
lag-bed tractor
lager beer
laggen-gird
lagging load
lah-di-dah
laid aside
laid bare
laid baton
laid deck
laid embroidery
laid low
laid off
laid on the shelf
laid paper
laid up
laid wool
laisser aller
laisser faire
laisser passer
laisser-aller
laisser-faire
laissez aller
laissez faire
laissez passer
laissez-aller
laissez-faire
laissez-faireism
laissez-passer
lait d'amandes
lake basin
lake bass
lake breeze
lake carp
lake chub
lake cress
lake duck
lake dweller
lake dwelling
lake fever
lake fly
lake front
lake herring
lake lawyer
lake minnow
lake of fire and brimstone
lake perch
lake perches
lake pitch
lake plover
lake salmon
lake shad
lake sheepshead
lake shore
lake sturgeon
lake trout
lake water cress
lake whitefish
lake-bound
lake-colored
lake-girt
lake-land
lake-moated
lake-reflected
lake-resounding
lake-surrounded
lakeland terrier
lamb down
lamb lily
lamb mint
lamb pie
lamb plant
lamb tail
lamb's ears
lamb's lettuce
lamb's tails
lamb's tongue
lamb's wool
lamb's-quarters
lamb's-wool
lamb-like
lambda particle
lamboideal suture
lambent flame
lame and impotent conclusion
lame brains
lame duck
lame excuse
lame verses
lame-born
lame-brain
lame-footed
lame-horsed
lame-legged
lamell-
lamella roof
lamellar vector
lamelli-
lament for
lamin-
laminar flow
laminar-flow system
laminar-flow-control plane
laminated glass
laminated safety glass
laminated wood
lamini-
lamp bearer
lamp cage
lamp chimney
lamp fitter
lamp holder
lamp house
lamp jack
lamp maker
lamp oil
lamp oiler
lamp shade
lamp shell
lamp socket
lamp standart
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
lamp-decked
lamp-foot
lamp-heated
lamp-hour
lamp-iron
lamp-lined
lamp-oil
lamp-post
lamp-warmed
lamper eel
lamper-eel
lamprey eel
lampro-
lana dye
lance bucket
lance corporal
lance head
lance of courtesy
lance rest
lance sergeant
lance snake
lance tooth
lance-acuminated
lance-breaking
lance-fashion
lance-headed snake
lance-jack
lance-knight
lance-leaved
lance-linear
lance-oblong
lance-oval
lance-ovate
lance-pierced
lance-shaped
lance-worn
lancet arch
lancet architecture
lancet clock
lancet fish
lancet window
lancinating pain
land agency
land agent
land bank
land battleship
land board
land breeze
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crake
land cress
land crocodile
land drake
land dreadnought
land dredge
land end
land fast
land flowing with milk and honey
land force
land forces
land girl
land grant
land hunger
land lane
land law
land lead
land league
land leech
land line
land mail
land measure
land mile
land mine
land of Nod
land of Prester John
land of dreams
land of enchantment
land of faerie
land of heart's desire
land of milk and honey
land of plenty
land of promise
land of the gods
land office
land on
land on like a ton of bricks
land on your feet
land otter
land patent
land pike
land pirate
land pitch
land plaster
land power
land rail
land rat
land reform
land rock
land scale
land scrip
land scurvy
land seal
land service
land settlement
land shark
land side
land snail
land sole
land spring
land station
land steward
land surveyor
land tax
land tenure
land tie
land tortoise
land trash
land trust
land up
land urchin
land warfare
land warrant
land wheel
land wind
land with
land yard
land-bank
land-born
land-bred
land-breeze
land-cast
land-crab
land-damn
land-devouring
land-eating
land-flood
land-gavel
land-girt
land-grabber
land-grabbing
land-grant bond
land-grant college
land-grant road
land-holder
land-horse
land-hungry
land-law
land-leaper
land-line
land-loper
land-lubber
land-measure
land-mere
land-meter
land-metster
land-obsessed
land-office business
land-poor
land-rat
land-rover
landing speed
landing stage
landing strake
landing strip
landing surveyor
landing tee
landing waiter
landing wire
landing-direction light
landing-place
landing-waiter
landlocked salmon
landlocked water
landmark beacon
landmark decision
landscape architect
landscape architecture
landscape gardener
landscape gardening
landscape marble
landscape mirror
landscape painting
landslide victory
lane route
lane snapper
lang lay
lang syne
lang-kail
langrage shot
langrel shot
language arts
language laboratory
language study
language style
langue d'o
langue d'oc
langue d'oil
langue de boeuf
langue de chat
langues de boeuf
languish for
lank-bellied
lank-blown
lank-cheeked
lank-eared
lank-haired
lank-jawed
lank-lean
lank-sided
lank-winged
lantern bellows
lantern carrier
lantern clock
lantern fish
lantern flounder
lantern fly
lantern gear
lantern gurnard
lantern jack
lantern jaw
lantern jaws
lantern keg
lantern light
lantern lily
lantern pinion
lantern ring
lantern shell
lantern slide
lantern sprat
lantern tree
lantern wheel
lantern-jawed
lanthanide series
lanyard knot
lap box coupling
lap dissolve
lap dog
lap dovetail
lap dovetail joint
lap dovetailing
lap game
lap joint
lap link
lap microphone
lap of honour
lap of luxury
lap over
lap pack
lap plate
lap ring
lap riveting
lap robe
lap shaver
lap siding
lap table
lap up
lap weld
lap winding
lap-butted
lap-chart
lap-dog
lap-jointed
lap-lap
lap-love
lap-rivet
lap-streak
laparo-
laparo-uterotomy
laparotomy pack
lapel button
lapel microphone
lapel mike
lapel pin
lapidary bee
lapidary mill
lapis lazuli
lapis lazuli blue
lapis lazuli ware
lapp owl
lapped joint
lapped-butt joint
lappet caterpillar
lappet loom
lappet moth
lappet weaving
lappet wheel
lapse back
lapse from grace
lapse into
lapse into disorder
lapse of memory
lapse of time
lapse rate
lapsed from grace
lapsed nature
lapsed state
lapsus calami
lapsus linguae
lapsus memoriae
lapwing gull
larboard watch
larch agaric
larch canker
larch pine
large-built
large-caliber
large-celled
large-crowned
large-diameter
large-drawn
large-eared
large-eyed
large-finned
large-flowered
large-footed
large-framed
large-fronded
large-fruited
large-grained
large-grown
large-handed
large-handedness
large-headed
large-hearted
large-heartedness
large-hipped
large-horned
large-leaved
large-leaved cucumber tree
large-lettered
large-limbed
large-looking
large-lunged
large-minded
large-mindedly
large-mindedness
large-molded
large-natured
large-necked
large-nostriled
large-petaled
large-rayed
large-scale
large-scaled
large-size
large-sized
large-souled
large-spaced
large-stomached
large-tailed
large-thoughted
large-throated
large-toothed
large-trunked
large-type
large-utteranced
large-viewed
large-wheeled
large-wristed
largemouth bass
larger than life
lariat loop
larixinic acid
lark bunting
lark finch
lark plover
lark sparrow
lark-colored
lark-heel
lark-heeled
larspur violet
larum-bell
larval epilepsy
larval plague
larvi-
laryng-
laryngeal epilepsy
laryngis stridulus
laryngo-
laser photography
laser surgery
lash and carry
lash and tie
lash back
lash comb
lash into
lash into a frenzy
lash into a fury
lash into fury
lash line
lash out
lash out at
lash rail
lash the waves
lash up
lash-up
lasso cell
lasso harness
last act
last agony
last breath
last dab
last days
last debt
last ditch
last duty
last expedient
last extremity
last forever
last gasp
last home
last honors
last inning
last lap
last lick
last long
last maker
last making
last marin
last mile
last minute
last muster
last name
last off the mark
last offices
last out
last post
last quarter
last resort
last resource
last rest
last rites
last round
last roundup
last service
last shift
last sleep
last stage
last stop
last straw
last stroke
last supper
last survivor annuity
last thing
last things
last touch
last trumpet
last will and testament
last word
last word, the
last words
last-born
last-cited
last-cyclic
last-ditch
last-ditch fight
last-ditcher
last-erected
last-in
last-in first-out
last-made
last-mentioned
last-minute
last-minute lie
last-named
laststage-free
lasting fame
lasting friendship
latch bolt
latch circuit
latch locking
latch needle
latch on
latch onto
latch-key
latch-string
latchkey child
late arrival
late blight
late bloomer
late developer
late greek
late hour
late in the day
late lamented
late latin
late off the mark
late riser
late wood
late-begun
late-betrayed
late-blooming
late-born
late-built
late-coined
late-come
late-comer
late-cruising
late-disturbed
late-embarked
late-filled
late-flowering
late-found
late-imprisoned
late-kissed
late-lamented
late-lingering
late-lost
late-met
late-model
late-protracted
late-ripening
late-sacked
late-taken
late-transformed
late-type star
late-wake
late-won
lateen sail
lateen-rigged
latency period
latent content
latent epilepsy
latent heat
latent image
latent learning
latent meaning
latent meaningfulness
latent period
latent strabismus
latent syphilis
latent violence
later than
later time
latera recta
lateral axis
lateral canal
lateral chain
lateral circuit
lateral drift
lateral fissure
lateral line
lateral line system
lateral lisp
lateral magnification
lateral meristem
lateral moraine
lateral pass
lateral plane
lateral resistance
lateral stability
lateral system
lateral tangent arc
lateral thinking
lateri-
latero-
latest fad
latest fashion
latest thing
latest thing, the
latest wrinkle
latest-born
latex paint
latex paper
lath and plaster
lath brick
lath cutter
lath maker
lath making
lath nail
lath nailer
lath puncher
lath splitter
lath tier
lath trimmer
lath-backed
lath-legged
lathe chuck
lathe-bore
lather up
lathered up
lathering up
lathing hammer
lathing hatchet
lati-
latin cross
latin quarter
latin square
latissimi dorsi
latissimus dorsi
latitude and longitude
latitude sailing
latrine lawyer
latrine rumor
latter end
latter-day
latter-day saint
lattice bar
lattice beam
lattice bridge
lattice girder
lattice moss
lattice plant
lattice stitch
lattice strut
lattice truss
lattice-leaf
lattice-leaves
lattice-plant family
lattice-window
lattice-work
latus rectum
lau lau
laudator temporis acti
laugh at
laugh away
laugh down
laugh fit to burst
laugh fit to bust
laugh in
laugh in your beard
laugh in your face
laugh in your sleeve
laugh it up
laugh off
laugh on the other
laugh out of court
laugh outright
laugh to scorn
laugh up
laugh up your sleeve
laugh yourself limp
laugh yourself sick
laugh yourself silly
laughing academy
laughing gas
laughing gull
laughing hyena
laughing jackass
laughing muscle
laughing stock
laughing-stock
laughter holding both his sides
laughter-dimpled
laughter-lighted
laughter-lit
laughter-loving
laughter-provoking
laughter-stirring
launch a holy war on
launch a vendetta
launch an attack
launch forth
launch into
launch into eternity
launch out against
launch pad
launch upon
launch vehicle
launch window
launch-ways
launched into eternity
launching base
launching gear
launching mortar
launching pad
launching platform
launching rack
launching ramp
launching shoe
launching tower
launching tube
launching vehicle
launching way
launching ways
laundry cart
laundry room
laundry soap
laurel bay
laurel butter
laurel camphor
laurel cherry
laurel family
laurel green
laurel hawthorn
laurel oak
laurel oil
laurel pink
laurel sumac
laurel thyme
laurel-bearing
laurel-browed
laurel-crowned
laurel-decked
laurel-leaf
laurel-leaf oil
laurel-leaved
laurel-locked
laurel-worthy
laurel-wreathed
lauric acid
lauric aldehyde
lauroyl group
lauroyl radical
lauryl alcohol
lauryl aldehyde
laus Deo
lauter tub
lava cone
lava-capped
lava-lava
lava-lit
lava-paved
lavaliere microphone
lavatory pan
lavatory paper
lave net
lavender blue
lavender cotton
lavender grass
lavender oil
lavender water
lavender-blue
lavender-flowered
lavender-scented
lavender-tinted
lavender-water
laver bread
lavish care on
lavish feast
lavish upon
lavish with
lavish yourself on
law French
law agent
law and order
law binding
law buckram
law centre
law code
law court
law enforcement agency
law enforcement agent
law hand
law member
law member of a court-martial
law merchant
law of Dulong and Petit
law of Malus
law of action and reaction
law of additiv
law of additive pressures
law of averages
law of conservation of charge
law of conservation of energy
law of conservation of mass
law of contradiction
law of cosines
law of definite composition
law of definite proportions
law of equivalent retaliation
law of excluded middle
law of exponents
law of general application
law of gravitation
law of identity
law of large numbers
law of mass action
law of moses
law of motion
law of multiple proportion
law of multiple proportions
law of nations
law of nature
law of parity
law of parsimony
law of partial pressures
law of reflection
law of refraction
law of retaliation
law of sines
law of succession
law of the domicile
law of the forum
law of the jungle
law of the land
law of the mean
law of the place
law of thermodynamics
law of thought
law of trichotomy
law of universal gravitation
law office
law officer
law sakes
law school
law stationer
law term
law, the
law-abiding
law-abidingness
law-beaten
law-book
law-borrow
law-breaker
law-bred
law-condemned
law-day
law-fettered
law-hand
law-honest
law-learned
law-learnedness
law-loving
law-magnifying
law-maker
law-merchant
law-reckoning
law-revering
law-ridden
law-stationer
law-worthy
lawful authority
lawful possession
lawless person
lawn billiards
lawn bowling
lawn cart
lawn chair
lawn grass
lawn green
lawn meet
lawn mower
lawn party
lawn pennywort
lawn sleeves
lawn tennis
lawn-roller
lawn-sleeved
lawn-tennis
lawn-tractor
lawyer bush
lawyer cane
lawyer palm
lawyer reference
lawyer vine
lax stewardship
lax-flowered
lay a course
lay a course for
lay a duty on
lay a false scent
lay a fart
lay a hand on
lay a heavy hand on
lay a plot
lay a trap for
lay a wager
lay a wet blanket on
lay abbot
lay aboard
lay about
lay about one
lay aloft
lay an egg
lay an embargo on
lay analyst
lay anchor
lay aside
lay at
lay at the door of
lay at your door
lay at your feet
lay away
lay away from
lay baptism
lay bare
lay before
lay before the public
lay blame upon
lay board
lay boat
lay brother
lay by
lay by the heels
lay chalice
lay charges
lay claim to
lay clerk
lay close
lay day
lay days
lay down
lay down a plan
lay down the law
lay down your arms
lay down your tools
lay eggs
lay elder
lay emphasis upon
lay eyes on
lay fee
lay figure
lay flat
lay for
lay forward etc
lay ghosts
lay hands on
lay heads together
lay hold of
lay in
lay in a stock
lay in a store
lay in a supply
lay in provisions
lay in ruins
lay in store
lay in the earth
lay in the grave
lay in the lap of the gods
lay in the scales
lay intermediary
lay into
lay it on
lay it on the line
lay it on thick
lay it on with a trowel
lay judge
lay level
lay level with the ground
lay lord
lay low
lay me down to sleep
lay money on
lay of the land
lay of the land, the
lay off
lay off from
lay on
lay on a color
lay on color
lay on one
lay on the line
lay on the rack
lay on the table
lay one's hand on
lay open
lay out
lay out a course
lay out money
lay out on
lay over
lay plans
lay reader
lay shaft
lay siege to
lay sister
lay stress upon
lay the ax to the root of
lay the blame on
lay the dust
lay the first stone
lay the foundation
lay the groundwork
lay the land
lay to
lay to heart
lay to rest
lay to the oars
lay to your charge
lay to your door
lay together
lay under an interdict
lay under an interdiction
lay under restraint
lay under the sod
lay up
lay up a store
lay up for
lay upon
lay vicar
lay violent hands on
lay wait
lay wait for
lay waste
lay your cards on the table
lay your course for
lay your finger on
lay your fingers on
lay your hands on
lay your money down
lay your shoulder to the wheel
lay yourself open
lay yourself open to
lay yourself out
lay-by
lay-day
lay-down
lay-fee
lay-land
lay-man
lay-minded
lay-off
lay-on
lay-out
lay-over
lay-shaft
lay-up
layaway plan
layer board
layer cake
layer tint
layer-on
layer-out
layer-over
layer-up
layers-out
laying bare
laying duck
laying of charges
laying on
laying on of hands
laying open
laying over
laying press
laying top
laying waste
layout chart
lazar house
lazar-house
lazuli bunting
lazy Susan
lazy bar
lazy crab
lazy daisy stitch
lazy eight
lazy eye
lazy guy
lazy halyard
lazy jack
lazy painter
lazy person
lazy stream
lazy susan
lazy tack
lazy tongs
lb ap
lb av
lb t
le dernier cri
le drapeau tricolore
le genre humain
le pas
le premier pas
le roi est mort vive le roi
le roi le veut
le sport
le style c'est l'homme
le tout ensemble
lea oak
lea rig
lea-land
lea-rig
lead a charmed life
lead a cloistered life
lead a dog's life
lead a retired life
lead acetate
lead acid cell
lead an easy life
lead arming
lead arsenate
lead ash
lead astray
lead azide
lead back
lead block
lead bullion
lead by the nose
lead captive
lead carbonate
lead chloride
lead chromate
lead colic
lead color
lead curve
lead dioxide
lead foil
lead glass
lead glaze
lead gray
lead into captivity
lead item
lead line
lead mill
lead mining
lead monoxide
lead nitrate
lead ocher
lead off
lead on
lead one a dance
lead one a merry chase
lead out
lead oxide
lead oxychloride
lead palsy
lead pencil
lead peroxide
lead pilot
lead pipe cinch
lead poisoning
lead rammer
lead role
lead runner
lead screw
lead sheet
lead singer
lead soap
lead someone a chase
lead spar
lead sulphate
lead sulphide
lead tetraethyl
lead the dance
lead the mind astray
lead the way
lead time
lead to
lead to believe
lead to the altar
lead tolerance
lead track
lead tree
lead up
lead up the garden path
lead up to
lead vinegar
lead vitriol
lead weed
lead white
lead you a chase
lead you a pretty dance
lead you to
lead you to expect
lead you to gather
lead you up the garden path
lead-acid battery
lead-blue
lead-burn
lead-burned
lead-burner
lead-burning
lead-chamber process
lead-clad
lead-coated
lead-colored
lead-covered
lead-encased
lead-filled
lead-free gas
lead-gray
lead-hardening
lead-headed
lead-in
lead-in wire
lead-lapped
lead-lead
lead-lined
lead-melting
lead-off
lead-pipe cinch
lead-pulverizing
lead-ruled
lead-sheathed
lead-smelting
lead-tempering
lead-up
leaded bronze
leaded glass
leaded flycatcher
leaden-blue
leaden-colored
leaden-eyed
leaden-footed
leaden-headed
leaden-heeled
leaden-hued
leaden-natured
leaden-paced
leaden-skulled
leaden-soled
leaden-souled
leaden-spirited
leaden-thoughted
leaden-weighted
leaden-willed
leaden-winged
leaden-witted
leader block
leader cable
leader head
leader of fashion
leader of men
leader of the opposition
leader pipe
leader writer
leading aircraftman
leading article
leading bar
leading block
leading card
leading coefficient
leading edge
leading her mother
leading idea
leading lady
leading light
leading man
leading mark
leading note
leading question
leading reins
leading strings
leading to
leading tone
leading wheel
leading wind
leading wire
leading woman
leadpipe cinch
leaf beet
leaf beetle
leaf bite
leaf blade
leaf blender
leaf blight
leaf blotch
leaf bud
leaf bug
leaf coral
leaf curl
leaf cutting
leaf fall
leaf fat
leaf gold
leaf green
leaf insect
leaf lard
leaf lettuce
leaf metal
leaf metals
leaf miner
leaf mold
leaf monkey
leaf mould
leaf mustard
leaf out
leaf picker
leaf roll
leaf roller
leaf rust
leaf scald
leaf sight
leaf sorter
leaf spot
leaf spring
leaf stripper
leaf through
leaf warbler
leaf-bearing
leaf-clad
leaf-climber
leaf-climbing
leaf-curl fungus
leaf-cutter
leaf-cutting ant
leaf-cutting bee
leaf-eared
leaf-eating
leaf-footed
leaf-forming
leaf-fringed
leaf-gold
leaf-hopper
leaf-laden
leaf-lard
leaf-nose
leaf-nosed
leaf-nosed bat
leaf-shaded
leaf-shaped
leaf-sheltered
leaf-strewn
leafcutter ant
leafcutter bee
leafy-stemmed
league together
league with
leaguer lass
leak away
leak in
leak out
leakage coefficient
leakage conductance
leakage conductor
leakage flux
leaking purse
leaky wave-guide antenna
lean and hungry look
lean as a rake
lean limbed
lean on
lean on a broken reed
lean on it
lean over
lean over backward
lean over backwards
lean toward
lean towards
lean upon
lean-cheeked
lean-eared
lean-face
lean-faced
lean-fleshed
lean-headed
lean-horned
lean-jawed
lean-limbed
lean-looking
lean-minded
lean-necked
lean-ribbed
lean-souled
lean-to
lean-to roof
lean-to tent
lean-tos
lean-witted
leaning thread
leaning toward
leaning tower
leap before you look
leap day
leap in the dark
leap into the breach
leap like a startled gazelle
leap over
leap over the wall
leap to the eye
leap up
leap year
leap-frog
leaping head
leaping spider
leaping weir
lear board
learn a lesson
learn about
learn all about
learn by doing
learn by experience
learn by heart
learn by rote
learn from
learn the ins and outs
learn the ropes
learn to live in your own skin
learn verbatim
learn word for word
learned clerk
learned man
learned profession
learner's permit
learning by heart
lease and release
lease out
lease rod
lease system
lease-back
lease-lend
lease-pardle
lease-purchase
leasehold insurance
leasehold mortgage
least bittern
least common denominator
least common multiple
least flycatcher
least killifish
least of all
least sandpiper
least shrew
least significant digit
least squares
least upper bound
least weasel
leather beetle
leather brown
leather carp
leather cloth
leather dresser
leather enameler
leather fern
leather goods
leather goods store
leather jack
leather maker
leather paper
leather star
leather-backed
leather-bound
leather-colored
leather-covered
leather-cushioned
leather-cutting
leather-faced
leather-hard
leather-headed
leather-jacket
leather-lined
leather-lunged
leather-necked
leather-winged
leatherback turtle
leathery turtle
leave a loose thread
leave alone
leave an aching void
leave be
leave behind
leave flat
leave flatfooted
leave go
leave half-done
leave holding the bag
leave home
leave in
leave in the dark
leave in the lurch
leave it to one
leave it to you
leave looking
leave loose ends
leave no avenue unexplored
leave no chance
leave no escape
leave no loose ends
leave no option
leave no room for error
leave no stone unturned
leave no trace
leave no void
leave not a rack behind
leave nothing hanging
leave nothing to chance
leave nothing to say
leave nothing undone
leave of absence
leave off
leave out
leave out in the cold
leave out nothing
leave out of account
leave out of your calculation
leave over
leave remaining
leave standing
leave taking
leave the atmosphere
leave the beaten path
leave the country
leave the door open
leave the earth behind
leave the ground
leave the nest
leave the scene
leave the stage
leave the straight and narrow
leave the way open
leave things as they are
leave to chance
leave to luck
leave to your own devices
leave to yourself
leave unavenged
leave undone
leave unsatisfied
leave well enough alone
leave word
leave you cold
leave you to gather
leave your card
leave your mark
leave yourself wide open
leave-taking
leaving aside
leaving life
leaving much to chance
leaving no room for error
leaving no stone unturned
leaving out
leaving out nothing
leaving the earth behind
leaving the ground
lebbek tree
lechosos opal
lecture hall
lecture room
lecture-demonstration
led astray
led by the nose
led captain
led farm
ledge stone
ledged door
ledgement table
ledger bait
ledger bark
ledger beam
ledger blade
ledger board
ledger line
ledger paper
ledger plate
ledger strip
ledger tackle
ledger-book
ledum camphor
lee anchor
lee gauge
lee helm
lee sheet
lee shore
lee side
lee tack
lee tide
lee wave
lee wheel
lee wheelsman
lee's birthday
lee-board
lee-bow
lee-way
leech line
leech rope
leech worm
leech-book
leek green
leek-green
leer at
leering look
leeward tide
left a mile behind
left bank
left bower
left field
left fielder
left five degrees rudder
left full rudder
left half rudder
left hand
left handsomely
left heart
left of center
left out
left out in the cold
left pedro
left rudder
left side
left stage
left standard rudder
left ten degrees rudder
left undone
left wing
left winger
left-bank
left-brained
left-eyed
left-eyed flounder
left-eyedness
left-foot
left-footed
left-footedness
left-footer
left-hand
left-hand buoy
left-hand dagger
left-hand engine
left-hand side
left-handed
left-handed compliment
left-handed marriage
left-handedly
left-handedness
left-hander
left-handiness
left-laid
left-lay
left-legged
gleaggedness
left-luggage office
left-off
left-over
left-sided
left-wing
left-wing extremism
left-wing extremist
left-winger
left-wingish
left-wingism
left-eye flounder
leg armor
leg art
leg bail
leg band
leg before
leg before wicket
leg boot
leg break
leg bye
leg drop
leg hit
leg iron
leg it
leg man
leg of lamb
leg of mutton
leg show
leg stump
leg to stand on
leg trap
leg up
leg viol
leg-bail
leg-break
leg-breaker
leg-harness
leg-iron
leg-o'-mutton
leg-of-mutton
leg-of-mutton sail
leg-of-mutton spanker
leg-pull
leg-puller
leg-weary
legacy duty
legal action
legal adviser
legal age
legal agreement
legal aid
legal aid association
legal aid society
legal argument
legal assessor
legal authority
legal bucketing
legal cap
legal case
legal chemistry
legal claim
legal contract
legal counsellor
legal counselor
legal decision
legal document
legal estate
legal ethics
legal evidence
legal expert
legal fiction
legal flaw
legal form
legal geology
legal heir
legal holiday
legal inability
legal incapacity
legal instrument
legal irregularity
legal jointure
legal medicine
legal murder
legal order
legal paper
legal plea
legal possession
legal power
legal practitioner
legal proceedings
legal process
legal profession
legal remedy
legal reserve
legal restraint
legal right
legal right of use
legal rights
legal science
legal securities
legal separation
legal statement
legal summons
legal system
legal tender
legal tribunal
legal weight
legal-size paper
legal-tender note
legalis homo
legally separated
leger line
leghorn straw
legion of honor
legion of merit
legionary ant
legislative assembly
legislative bill
legislative body
legislative caucus
legislative chamber
legislative clause
legislative council
legislative immunity
legislative investigation
legislative lobby
legislative motion
legislative procedure
legislative veto
legitimate drama
legitimate portion
legitimate stage
legitimate succession
legitimate theater
lego-literary
lei day
leio-
leip-
leisure class
leisure suit
leisurely gait
lekai salmon
lem-
lemming mouse
lemon balm
lemon cheese
lemon chrome
lemon cucumber
lemon day lily
lemon drop
lemon geranium
lemon grass
lemon kali
lemon lily
lemon mint
lemon oil
lemon scurvy grass
lemon sole
lemon squash
lemon squeezer
lemon verbena
lemon vine
lemon yellow
lemon-color
lemon-colored
lemon-faced
lemon-flavored
lemon-grass oil
lemon-green
lemon-scented
lemon-scented gum
lemon-tinted
lemon-yellow
lemonade sumac
lend a color to
lend a hand
lend a helping hand
lend a willing ear
lend an ear
lend an ear to
lend one aid
lend substance to
lend support
lend wings to
lend your backing to
lend your countenance to
lend your favor to
lend your name to
lend your offices
lend your support to
lend yourself to
lend-lease
lend-leased
lend-leasing
lending at interest
lending institution
lending library
length and breadth
length between perpendiculars
length of time
length over all
lengthen out
leni-lenape
leno brocade
leno weave
lens cell
lens cover
lens hood
lens maker
lens making
lens opening
lens screen
lens turret
lens-mount
lens-shaped
lent lily
lenticular cloud
lenticular nucleus
lenticular process
lenticular truss
lenticulo-optic
lentil cut
lentil tare
lentil weevil
leonine partnership
leonine rhyme
leontiasis ossea
leopard cat
leopard flower
leopard frog
leopard lily
leopard lionne
leopard lizard
leopard moth
leopard seal
leopard's bane
leopard's spots
leopard's-bane
leopard-man
leper house
lepid-
lepidio-
lepra arabum
lepto-
lepto-form
lepto-type
lepton number
lerp insects
lese majesty
lese-majesty
less advanced
less and less
less semitone
less than
less than no time
lesser Bairam
lesser Ionic
lesser anteater
lesser bear
lesser celandine
lesser dog
lesser doxology
lesser litany
lesser multangular bone
lesser nobility
lesser omentum
lesser panda
lesser star grass
lesser weever
lesser wintergreen
lesser yellowlegs
let 'em have it
let a fart
let alone
let be
let blood
let bygones be bygones
let dangle
let daylight in
let down
let down easy
let down your defenses
let down your guard
let down your side
let drive
let drive at
let drop
let fall
let fall into desuetude
let fall into disuse
let fall the shadow of mine eyes
let flow through your fingers
let fly
let fly at
let get around
let get by
let get past
let go
let go by
let go by default
let go free
let go the anchor
let go with
let go your own way
let have
let have it
let her out
let in
let in on
let in on the know
let in to
let into
let into the secret
let it all hang out
let it be understood
let it go
let it have its way
let it pass
let it stand
let it take its course
let know
let loose
let loose of
let money be no object
let next to
let off
let off a shot at
let off steam
let on
let on like
let or hindrance
let out
let out on bail
let pass
let ride
let rip
let sleeping dogs lie
let slide
let slip
let slip the dogs of war
let slip through your fingers
let someone have it
let take its course
let the air out of
let the cat out of the bag
let the devil take the hindmost
let the matter stand
let the mind lie fallow
let the portcullis down
let the wound heal
let things take their course
let tomorrow take care of itself
let up
let up on
let well enough alone
let wind
let you go at will
let you have his head
let you have your own way
let you off easy
let you off this time
let your angry passions rise
let your attention wander
let your breath out
let your hair down
let your imagination riot
let your imagination run riot
let your imagination run wild
let your light shine
let your mind wander
let your thoughts wander
let your voice be heard
let your wits go bird's nesting
let yourself go
let yourself in for
let-alone
let-alone doctrine
let-alone policy
let-alone principle
let-off
let-out
let-pass
let-up
lethal blow
lethal chamber
lethal dose
lethal factor
lethal gene
lethargic encephalitis
lethargic hypnosis
letter avocatory
letter bag
letter board
letter bomb
letter book
letter box
letter card
letter carrier
letter carver
letter caster
letter cutter
letter drop
letter engraver
letter file
letter founding
letter foundry
letter from Uncle Sam
letter hand
letter learning
letter lichen
letter messenger
letter missive
letter name
letter of advice
letter of credence
letter of credit
letter of delegation
letter of introduction
letter of marque
letter of marque and reprisal
letter paper
letter plant
letter porter
letter post
letter press
letter scales
letter sheet
letter sorter
letter stamper
letter stock
letter telegram
letter weigher
letter writer
letter writing
letter-bound
letter-card
letter-copying
letter-duplicating
letter-erasing
letter-fed
letter-folding
letter-high
letter-learned
letter-opener
letter-perfect
letter-press
letter-winged
lettering pen
letterpress photoengraving
letters credential
letters dimissory
letters missive
letters of administration
letters of credence
letters of marque
letters of marque and reprisal
letters of request
letters of the alphabet
letters overt
letters pacifical
letters patent
letters rogatory
letters testamentary
letterwinged kite
letting down
letting go
letting out
lettre de cachet
lettre de change
lettre de creance
lettres de cachet
lettres de change
lettuce bird
lettuce green
lettuce mildew
lettuce opium
lettuce saxifrage
leuc-
leucite basalt
leucite-basanite
leucite-tephrite
leuco base
leuco-
leucoturic acid
leukemic reticuloendotheliosis
leuko-
leukocyto-
leuna saltpeter
lev-
lev-vari facias
levee en masse
level as a plain
level at
level crossing
level curve
level curves
level head
level instrument
level land
level landing
level line
level of stress
level off
level pegging
level plane
level premium
level staff
level surfaces
level with
level-coil
level-headed
level-headedness
level-jawed
level-off
level-wind
leveling head
leveling instrument
leveling rod
leveling screw
leveling stand
leveling support
levelling screw
levels of meaning
lever action
lever engine
lever escapement
lever pilot
lever safety valve
lever scales
lever shears
lever tumbler
lever watch
lever-action
lever-action rifle
levin bolt
levin brand
levo camphor
levo-
levo-pinene
levulinic acid
levy a distress
levy blackmail
levy court
levy en masse
levy in mass
levy war on
lew-warm
lewis bolt
lewis gun
lewis iron
lex domicili
lex fori
lex generalis
lex loci
lex mercatoria
lex mercatorum
lex non scripta
lex scripta
lex situs
lex talionis
lex terrae
lexical form
lexical insertion
lexical item
lexical meaning
lexigraphic character
lexigraphic symbol
ley line
ley pewter
leyden jar
leze majesty
liability insurance
liability limit
liability to error
liable to
liable to error
liaise with
liaison plane
liar of the first magnitude
liber cell
liberal arts
liberal education
liberal studies
liberal-arts college
liberal-minded
liberal-mindedness
liberty abused
liberty boat
liberty bodice
liberty cap
liberty green
liberty hall
liberty horse
liberty in tranquillity
liberty of speech
liberty of the press
liberty pole
liberty ship
liberty tea
liberty tree
libidinal energy
libido arrest
libido fixation
libra mayor
library binding
library card
library case
library catalog
library director
library edition
library paste
library school
library science
library steps
library table
libration in latitude
libration in longitude
libration of the moon
libretto-writing
license bond
license fee
license plate
license tax
licensed pilot
licensed practical nurse
licensed victualer
lich bird
lich fowl
lich gate
lich owl
lich path
lich stone
lich-gate
lich-house
lich-owl
lichen fungus
lichen green
lichen islandicus
lichen primus
lichen tropicus
lichen-clad
lichen-crusted
lichen-grown
lichen-laden
lichenic acid
lick into shape
lick of work
lick one's shoes
lick the dust
lick the feet of
lick the plate
lick the platter
lick to a frazzle
lick your ass
lick your boots
lick your chops
lick your shoes
lick your wounds
lick-dish
lick-finger
lick-foot
lick-ladle
lick-platter
lick-spigot
lick-spittle
licker-in
lickety-brindle
lickety-cut
lickety-split
licking disease
licking stone
licorice fern
licorice powder
licorice root
licorice stick
licorice sugar
licorice vetch
licorice vine
licorice weed
lid cell
lid slit
lidless eye
lidless vigil
lie a course
lie across
lie ahead
lie ahull
lie along
lie along the shore
lie around
lie at the heart
lie at the root of
lie at your door
lie athwart
lie back on your record
lie beam on to the seas
lie beneath
lie by
lie close
lie close to the wind
lie detector
lie doggo
lie dormant
lie down
lie down and roll over for
lie down on the job
lie fallow
lie flat
lie flatly
lie hard upon
lie heavy
lie heavy upon
lie hid
lie hidden
lie idle
lie in
lie in Abraham's bosom
lie in ambush
lie in state
lie in the grave
lie in wait
lie in wait for
lie in your course
lie in your power
lie in your throat
lie like a trooper
lie limply
lie low
lie near the wind
lie of the land
lie off
lie off the land
lie on
lie on a level
lie on a level with
lie on the shelf
lie on the surface
lie on your back
lie on your face
lie on your head
lie opposite
lie out of
lie over
lie prone
lie prostrate
lie snug
lie still
lie supine
lie through your teeth
lie to
lie under
lie under a necessity
lie under an obligation
lie under the surface
lie up
lie upon
lie upon your oars
lie with
lie-abed
lie-by
lie-bys
lie-down
lied form
lieder singer
liege lord
liege man
liege poustie
liege subject
liege woman
liege-manship
lieno-
lieu commun
lieue marine
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
lieutenant-colonelcy
lieutenant-general
lieutenant-governorship
life after death
life and letters
life annuity
life arrow
life assurance
life belt
life beyond the grave
life breath
life buoy
life car
life cast
life cycle
life essence
life estate
life expectancy
life float
life force
life guard
life hangs by a thread
life history
life instinct
life insurance
life interest
life jacket
life line
life mask
life member
life net
life of Riley
life of Riley, the
life of ease
life of riley
life of the party
life peer
life plant
life preserver
life principle
life process
life raft
life records
life ring
life rocket
life savings
life science
life seen through a temperament
life sentence
life size
life space
life span
life story
life style
life table
life to come
life upon the larger scale
life vest
life zone
life's duration
life's guide
life's work
life-abhorring
life-and-death
life-and-death struggle
life-bearing
life-beaten
life-begetting
life-bereft
life-blood
life-breathing
life-bringing
life-consuming
life-creating
life-crowded
life-deserted
life-destroying
life-devouring
life-diffusing
life-ending
life-enriching
life-force
life-giver
life-giving
life-guard
life-guardsman
life-hugging
life-infatuate
life-infusing
life-invigorating
life-lengthened
life-like
life-lorn
life-lost
life-maintaining
life-or-death
life-or-death struggle
life-outfetching
life-penetrated
life-poisoning
life-preserver
life-preserving
life-prolonging
life-quelling
life-rendering
life-renewing
life-restoring
life-sapping
life-saver
life-serving
life-size
life-sized
life-spent
life-style
life-support system
life-sustaining
life-sweet
life-teeming
life-thirsting
life-tide
life-timer
life-weariness
life-weary
life-while
life-worthy
life-yielding
lifeless matter
lifeless matter found in nature
lifelike image
liferent escheat
lifesaving boat
lifesaving service
lift a finger
lift a hand
lift a hand against
lift bolt
lift bridge
lift component
lift direction
lift force
lift gate
lift hammer
lift off
lift pump
lift ram
lift ratio
lift span
lift temporarily
lift tenter
lift the curtain on
lift the hat
lift the veil
lift truck
lift up
lift up the eyes
lift up the heart
lift up the voice
lift valve
lift van
lift wall
lift wire
lift your hand against
lift your voice
lift-drag ratio
lift-off
lift-off hinge
lift-slab
lifter rod
lifting body
lifting bolt
lifting bridge
lifting day
lifting eye
lifting foot
lifting head
lifting irons
lifting jack
lifting plan
lifting plate
lifting pump
lifting sail
lig-by
ligamentum nuchae
light adaptation
light air
light and shade
light and shade surface
light artillery
light as a feather
light as air
light as any wind that blows
light as day
light as gossamer
light baffle
light battery
light beer
light bob
light bomber
light box
light bread
light breeze
light bridge
light bulb
light colonel
light comedian
light comedy
light cream
light cruiser
light curve
light displacement
light draft
light dragoon
light engine
light equation
light face
light filter
light fingers
light fixture
light flyweight
light globe
light gunmetal
light harmony
light harness
light headed
light heart
light heavyweight
light holder
light holders
light horse
light horseman
light housekeeping
light infantryman
light into
light line
light load line
light lock
light lunch
light machine gun
light magnesia
light meal
light measure
light meat
light metals
light meter
light middleweight
light mineral
light mineral oil
light music
light of day
light of heel
light of love
light of your eye
light of your life
light oil
light on
light opera
light out
light pen
light plot
light purse
light quantum
light railroad
light reaction
light red
light repast
light shield
light show
light sleep
light socket
light source
light texture
light the fuse
light the way
light touch
light tower
light transport
light trap
light treatment
light unit
light up
light upon
light valve
light verse
light weight
light welterweight
light whiskey
light wind
light wine
light year
light-adapted
light-armed
light-beam telephone
light-bearded
light-bellied
light-blue
light-bluish
light-bob
light-bellied
light-borne
light-bounding
light-brained
light-built
light-causing
light-century
light-charged
light-cheap
light-clad
light-colored
light-complexioned
light-creating
light-diffusing
light-disposed
light-drab
light-draft
light-embroidered
light-faced
light-fast
light-fingered
light-fingered gentry
light-fingeredness
light-foot
light-footed
light-footedly
light-footedness
light-gilded
light-giving
light-grasp
light-grasping
light-gray
light-green
light-haired
light-handed
light-handedly
light-handedness
light-harnessed
light-hating
light-headed
light-headedly
light-headedness
light-hearted
light-heartedly
light-heartenedness
light-heeled
light-horseman
light-horsemen
light-hued
light-intensity control
light-intensity indicator
light-leaved
light-legged
light-limbed
light-loaded
light-locked
light-marching
light-minded
light-mindedly
light-mindedness
light-o'-love
light-o'love
light-of-love
light-pervious
light-poised
light-producing
light-proof
light-reactive
light-refracting
light-refractive
light-robed
light-rooted
light-rootedness
light-scattering
light-sensitive
light-skinned
light-skirts
light-spirited
light-spreading
light-struck
light-thoughted
light-timbered
light-tongued
light-treaded
light-veined
light-waved
light-weight
light-winged
light-witted
light-year
light-years
light-yellow
lighten one of
lightening hole
lighter discharger
lighter staff
lighter than air
lighter than vanity
lighter-than-air
lighter-than-air aviation
lighter-than-air craft
lighthouse clock
lighthouse coffeepot
lighthouse keeper
lighthouse tube
lighting off
lighting up
lighting-up time
lightish-blue
lightly touching
lightning arrester
lightning attack
lightning beetle
lightning bug
lightning conductor
lightning discharge
lightning express
lightning file
lightning gods
lightning pains
lightning protector
lightning rod
lightning saw
lightning speed
lightning stone
lightning switch
lightning tooth
lightning tube
lightning war
lightning-like
lights out
lights-out
lign-
lign-aloes
lignaloe oil
ligni-
ligninsulphonic acid
lignite wax
ligno-
lignosulphonic acid
lignum aloes
lignum vitæ
ligulate-flowered
liguli-
like Niobe
like Swiss cheese
like a bat out of hell
like a blue streak
like a bolt from the blue
like a book
like a bulldog
like a coward
like a drowned rat
like a fish out of water
like a flash
like a furnace
like a horse in a mill
like a house afire
like a lamb
like a leech
like a lord
like a man
like a prune
like a scared rabbit
like a shot
like a shot out of hell
like a soldier
like a streak
like a streak of lightning
like a thief in the night
like a thunderbolt
like a thunderclap
like a trooper
like all creation
like all forty
like all get-out
like an oven
like anything
like as not
like best
like better
like blazes
like buckets in a well
like cats and dogs
like clockwork
like crazy
like dough
like enough
like figures
like for like
like fun
like fury
like grains of sand
like greased lightning
like hell I will
like it is
like lightning
like mad
like new
like no other
like nothing
like one possessed
like parchment
like putty
like putty in your hands
like sardines in a can
like shooting fish in a barrel
like sin
like sixty
like so
like sweet bells jangled
like taking candy from a baby
like that
like the rock of Gibraltar
like this
like to
like two drops of water
like water
like wax
like wildfire
like---but oh how different
like-eyed
like-fashioned
like-featured
like-looking
like-made
like-minded
like-mindedly
like-mindedness
like-natured
like-persuaded
like-sex
like-shaped
like-sized
liked to
likely lad
likely story
likely to
liken to
likes of
lilac gray
lilac mildew
lilac-banded
lilac-blue
lilac-colored
lilac-flowered
lilac-headed
lilac-mauve
lilac-pink
lilac-purple
lilac-tinted
lilac-violet
lilies of the valley
lilly-low
lilly-pilly
lily bell
lily bellflower
lily bind
lily family
lily flower
lily grass
lily green
lily iron
lily leek
lily leek
lily of the valley
lily pad
lily palm
lily pink
lily thorn
lily-cheeked
lily-clear
lily-cradled
lily-crowned
lily-fingered
lily-flower
lily-liver
lily-livered
lily-liveredness
lily-paved
lily-pot
lily-robed
lily-shaped
lily-shining
lily-tongued
lily-trotter
lily-white
lily-whiteness
lily-wristed
lima bean
limb-meal
limber as a dishrag
limber board
limber chest
limber hole
limber pine
limber rope
limber up
limber-neck
limber-twig pine
limbic lobe
limbic system
limbo patrum
limbs of Satan
lime anthracnose
lime boil
lime buffer
lime burner
lime epidote
lime feldspar
lime glass
lime grass
lime green
lime harmotome
lime hydrate
lime juice
lime liniment
lime mesotype
lime nitrogen
lime pit
lime plant
lime soap
lime sulfur
lime tree
lime twig
lime uranite
lime-ash
lime-boiled
lime-burner
lime-juicer
lime-kiln
lime-pit
lime-rod
lime-soda mesotype
lime-sulphur
lime-twig
lime-water
lime-white
limette oil
limit condition
limit control
limit gauge
limit man
limit of patience
limit of proportionality
limit of resolution
limit of vision
limit point
limit switch
limit system
limit yourself
limit, the
limit-setting
limited company
limited divorce
limited edition
limited fee simple
limited liability
limited monarchy
limited negative
limited nuclear weapons
limited number
limited owner
limited partner
limited partnership
limited payment insurance
limited policy
limited veto
limited war
limited-liability company
limiting adjective
limiting condition
limiting factor
limiting point
limousine-landaulet
limp as a dishrag
limp-cover book
limpet mine
limping meters
limping standard
limu-elele
limu-kohu
lin ft
lin tree
lin-lan-lone
linalyl acetate
linch-pin
linden borer
linden family
linden green
linden inchworm
linden leaf beetle
linden yellow
lindy hop
line ahead
line block
line breaker
line breeding
line buck
line caster
line chief
line co-ordinates
line copy
line cut
line displacement
line drawing
line drive
line drop
line engraver
line engraving
line equation
line gale
line gauge
line geometry
line hunter
line integral
line letter
line loss
line microphone
line of action
line of apsides
line of battle
line of business
line of circumvallation
line of credit
line of defense
line of demarcation
line of departure
line of descent
line of direction
line of duty
line of endeavor
line of fire
line of flight
line of force
line of goods
line of induction
line of march
line of position
line of scrimmage
line of sight
line of sighting
line of site
line of succession
line of thrust
line of type
line of vision
line of work
line officer
line out
line printer
line radio
line relay
line riding
line space
line spectrum
line squall
line storm
line switch
line symmetry
line test
line up
line up with
line vector
line voltage
line your pockets
line-bred
line-breed
line-bucker
line-casting
line-engraving
line-firing
line-haul
line-hunting
line-of-battle ship
line-out
line-roll conveyer
line-sequential
line-sequential color television
line-throwing rocket
line-up
lineal measure
lineal promotion
lineal rank
lineal relation
linear accelerator
linear algebra
linear calibrations
linear chromatism
linear chromatist
linear coefficient
linear combination
linear complex
linear content
linear dependence
linear differential equation
linear differential form
linear equation
linear fractional transformation
linear function
linear functional
linear graph
linear independence
linear lead
linear manifold
linear measure
linear measures
linear micrometer
linear motor
linear operation
linear operator
linear perspective
linear polarization
linear problem
linear programming
linear projection
linear segment
linear set
linear space
linear substitution
linear system
linear tactics
linear transformation
linear-acute
linear-attenuate
linear-awled
linear-elliptical
linear-elongate
linear-ensate
linear-filiform
linear-lanceolate
linear-leaved
linear-ligulate
linear-oblong
linear-ovate
linear-setaceous
linear-shaped
linear-subulate
linearly ordered set
lined blade
lined gold
lined up
linen closet
linen draper
linen draperess
linen drapery
linen floss
linen fold
linen machine
linen panel
linen paper
linen pattern
linen wedding
linen-armourer
lines drawing
lines plan
ling cod
ling pink
linga sharira
linger behind
linger on
lingoa wood
lingu-
lingua crioula
lingua franca
lingua francas
lingua geral
lingua rustica
lingua vulgaris
linguae francae
lingual artery
lingual bone
lingual delirium
lingual gyrus
lingual hemorrhoid
lingual nerve
lingual protrusion lisp
lingual ribbon
lingual titubation
linguistic act
linguistic ambience
linguistic analysis
linguistic area
linguistic atlas
linguistic behavior
linguistic borrowing
linguistic community
linguistic finesse
linguistic form
linguistic geographer
linguistic geography
linguistic intercourse
linguistic island
linguistic scholar
linguistic science
linguistic scientist
linguistic stock
linguistic structure
linguistic tact
linguo-
lining cloth
lining sight
lining stitcher
lip-deep
lip-good
lip-labour
lip-learned
lip-licking
lip-open
lip-read
lip-reading
lip-red
lip-round
lip-rounding
lip-smacking
lip-spreading
lip-teeth
lipid histiocytosis
lipo-
lipoid pneumonia
liquefied petroleum gas
liqueur glass
liquid absolute
liquid air
liquid apiol
liquid assets
liquid assets ratio
liquid coal
liquid compass
liquid conduction
liquid crystal
liquid crystal display
liquid extract
liquid fire
liquid fuel
liquid glass
liquid gold
liquid helium
liquid measure
liquid nitrogen
liquid oxygen
liquid paraffin
liquid petrolatum
liquid pint
liquid quart
liquid soap
liquid storax
liquid-fuel rocket
liquid-level control
liquid-level indicator
liquid-level sensor
literacy test
literae humaniores
literae scriptae
literal error
literal meaning
literal translation
literal-minded
literalists of the imagination
literary agent
literary artefact
literary artifact
literary artisan
literary artist
literary artistry
literary composition
literary craftsman
literary critic
literary criticism
literary elegance
literary flair
literary hack
literary inelegance
literary journeyman
literary language
literary man
literary piracy
literary pirate
literary power
literary production
literary remains
literary style
literary talent
literature of the field
lith-
lithia emerald
lithia mica
lithia water
lithic acid
lithium aluminum hydride
lithium chloride
lithium fluoride
lithium oxide
lithium stearate
litho purple
litho-
lithographic stone
litis contestatio
litmus milk
litmus paper
litmus test
litter lout
litter-bearer
litterae humaniores
little Joe
little Mary
little Miss Fixit
little angel
little auk
little bear
little bit
little bite
little black ant
little blue heron
little bluestem
little boys' room
little brain
little brother
little brown jug
little bugger
little businessman
little by little
little casino
little chance
little cherub
little darling
little devil
little doll
little egret
little end
little expectation
little fellow
little finger
little game
little girls' room
little good
little grebe
little green man
little gull
little guy
little guys
little hours
little house
little innocent
little kids
little known
little leaf
little magazine
little man
little master
little millet
little missy
little monkey
little office
little one
little ones
little opportunity
little owl
little people
little people, the
little person
little pitcher with big ears
little problem
little quaking grass
little rascal
little recall
little red schoolhouse
little retentivity
little shaver
little slam
little smack
little spotted cat
little squirt
little summer of St
little tad
little talk
little terror
little theater
little theatre
little thing
little toe
little tot
little voice
little ways
little while
little white lie
little woman
little, a
little-able
little-bitsy
little-bitty
little-boukit
little-branched
little-by-little
little-ease
live frugally
live hard
live high
live high off the hog
live high on the hog
live in
live in a glass house
live in clover
live in hopes
live in peace
live in retirement
live in your memory
live it up
live like a pig
live like cat and dog
live like the grasshopper
live load
live matter
live oak
live off of
live off the fat of the land
live on
live on the fat of the land
live on velvet
live one
live or die
live outside the law
live parking
live peaceably with all men
live plainly
live show
live simply
live spindle
live steam
live stock
live temperately
live the life of Riley
live through
live through it
live to a ripe old age
live to eat
live to fight another day
live together
live trap
live up
live up to
live upon
live upon nothing
live well
live wire
live with
live with it
live within your income
live-bearer
live-bearing
live-box
live-ever
live-forever
live-front switchboard
live-in maid
live-in-idleness
live-oak
live-out maid
live-sawed
live-virus vaccine
lived-in
lively imagination
lively interest
lively market
lively pace
liven vivificate
liver and lights
liver and onions
liver balsam
liver brown
liver chestnut
liver death
liver disease
liver extract
liver fluke
liver fluke disease
liver fungus
liver lily
liver maroon
liver of sulfur
liver of sulphur
liver rot
liver salts
liver sausage
liver sausage tree
liver shark
liver spots
liver-brown
liver-colored
liver-hued
liver-moss
liver-rot
liver-white
liveried servant
liverwort lettuce
livery colors
livery company
livery cupboard
livery servant
livery stable
livery-man
livery-stable
livestock insurance
livid brown
livid pink
livid purple
livid violet
livid with rage
livid-brown
living being
living death
living force
living fossil
living hall
living image
living in
living issue
living language
living machine
living matter
living nature
living picture
living pledge
living quarters
living rock
living room
living sapphires
living soul
living space
living thing
living trust
living wage
livre jaune
livre parisis
livre tournois
lizard bronze
lizard fish
lizard flower
lizard green
lizard seeker
lizard's-tail
lizards-tail
lizardtail grass
llama hair
lm-hr
lm/W
lo and behold
loa loa
load chart
load control
load displacement
load draft
load factor
load fund
load indicator
load line
load line mark
load of money
load resistance
load shedding
load the dice
load the mind
load the mind with
load water line
load water plane
load waterline
load with care
load with ornament
load with reproaches
load-indicating resistor
load-line disk
load-line mark
load-water-line
loaded cane
loaded dice
loaded for
loaded for bear
loaded moment
loaded with doom
loaded with shame
loaded with significance
loading coil
loading donkey
loading down
loading inductance
loaf of bread
loaf sugar
loaf-sugar
loam board
loan agent
loan collection
loan farm
loan form
loan god
loan office
loan officer
loan shark
loan translation
loan value
loan word
loan-office
loan-shark
loan-sharking
loaned stock
loaves and fishes
lob's pound
lob-
lob-worm
lobar pneumonia
lobato-
lobato-digitate
lobato-divided
lobato-foliaceous
lobato-partite
lobato-ramulose
lobby pine
lobby through
lobed-leaved
lobelia blue
lobelia family
lobelia violet
loblolly bay
loblolly boy
loblolly pine
loblolly sweetwood
loblolly tree
lobster Newburg
lobster Newburgh
lobster Thermidor
lobster caterpillar
lobster crab
lobster flower
lobster moth
lobster newburg
lobster pot
lobster roll
lobster shift
lobster thermidor
lobster tour
lobster trap
lobster trick
lobster-horns
lobster-red
lobster-tail
lobster-tail helmet
lobster-tailed
lobsters-claw
lobular pneumonia
lobular pump
loc cit
local anaesthetic
local anesthetic
local authority
local call
local case
local color
local colour
local dialect
local economy
local examinations
local express
local government
local horizon
local law
local maximum
local minimum
local office
local option
local optioner
local optionism
local optionist
local oscillator
local oscillator signal
local road
local stamp
local tax
local time
local union
local wind
local yokel
local-option law
local-oscillator tube
locally Euclidean space
locally compact space
locally finite set
loci classici
loci sigilli
lock bay
lock forward
lock gate
lock horns
lock hospital
lock in
lock nut
lock off
lock on
lock on to
lock out
lock plate
lock rail
lock saw
lock seam
lock seat
lock step
lock stitch
lock the door
lock turtle
lock up
lock washer
lock, stock, and barrel
lock-a-daisy
lock-grained
lock-hair fern
lock-jaw
lock-out
lock-up
locked in
locked jaw
locked up
locked jaw
locked up page
locked-wire rope
locker box
locker paper
locker plant
locker room
locking face
locking gauntlet
locking in
locking on
locking pallet
locking piece
locking plate
locking ring
locking signals
locking up
locking wheel
lockup safety valve
loco citato
loco disease
loco parentis
loco supra citato
loco vetch
loco-descriptive
loco-foco
locomotive boiler
locomotive engine
locomotor ataxia
locoprimo citato
loctal base
locum tenens
locum tenentes
locum-tenency
locus classicus
locus communis
locus in quo
locus sigilli
locus standi
locust bean
locust beetle
locust bird
locust eater
locust lobster
locust mite
locust moth
locust plant
locust pod
locust sawfly
locust shrimp
locust tree
locust-kernel gum
locust-tree
lode claim
loden coat
loden green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgepole pine
lodger bee
lodger franchise
lodging house
lodging knee
lodging place
lodging turn
lodh bark
loft-dried
lofting iron
lofty affectations
lofty airs
lofty ambition
lofty mountains
lofty peak
lofty-browed
lofty-headed
lofty-humored
lofty-looking
lofty-minded
lofty-notioned
lofty-peaked
lofty-plumed
lofty-roofed
lofty-sounding
log bunk
log cabin
log canoe
log carriage
log chip
log deck
log dog
log drive
log driver
log driving
log fixer
log frame
log glass
log jack
log jam
log kicker
log line
log loader
log measure
log peeler
log perch
log reel
log rule
log run
logical thought
logically impossible
logico-metaphysical
logistic curve
logistic line
logo-
logographic character
logographic symbol
logos Christology
logos theology
logothete-
logwood black
logwood blue
logwood paper
loin end
loiter about
loiter around
loiter away the time
loiter behind
loiter out the time
loll around
loll shraub
loll-shraub
lollipop around
lolly water
lombard street
lombard-street
lomi-lomi
london pride
lone hand
lone pair
lone wolf
lone woman
lonely end
lonely heart
lonesome end
long accent
long account
long ago
long arm
long ballot
long bill
long bob
long bone
long card
long chair
long chalk
long clam
long cloth
long coat
long cross
long distance
long division
long dozen
long drink of water
long duration
long ess
long face
long fake
long for
long gallery
long game
long green
long haul
long home
long hop
long horn
long horse
long house
long hundred
long hundredweight
long in the tooth
long interest
long iron
long jenny
long johns
long jump
long life
long life to
long mane
long mark
long market
long measure
long metre
long mordent
long moss
long odds
long on looks
long pants
long pennant
long pig
long play
long pooper
long primer
long pull
long purse
long-awaited
long-awned
long-axed
long-backed
long-barreled
long-beaked
long-bearded
long-bellied
long-berried
long-billed
long-boat
long-bodied
long-borne
long-bow
long-bracted
long-branched
long-breathed
long-buried
long-celled
long-chained
long-clawed
long-coated
long-coats
long-contended
long-continued
long-continuing
long-coupled
long-crested
long-cycle
long-cycled
long-dated
long-day
long-dead
long-delayed
long-descending
long-deserted
long-desired
long-destroying
long-distance
long-distance call
long-docked
long-drawn
long-drawn-out
long-eared
long-eared owl
long-enduring
long-established
long-exerted
long-expected
long-experienced
long-extended
long-eyed sharp
long-faced
long-faded
long-favored
long-fed
long-fiber
long-fibered
long-fin tunny
long-fingered
long-finned
long-flaked coil
long-fleeced
long-flowered
long-footed
long-forgotten
long-fronted
long-fruit ed
long-gown
long-gowned
long-grassed
long-hair
long-hair ed
long-hair ed griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heeled
long-hid
long-horned
long-horned beetle
long-horned grasshopper
long-jawed
long-jointed
long-journey
long-kept
long-lacked
long-lasting
long-lastingness
long-leaved
long-leaved bent
long-leaved pine
long-leg
long-legged  
long-limbed  
long-line  
long-lined  
long-liner  
long-lining  
long-lived  
long-livedness  
long-living  
long-locked  
long-lost  
long-lunged  
long-memoried  
long-nebbbed  
long-neck clam  
long-necked  
long-nosed  
long-off  
long-on  
long-parted  
long-past  
long-pasterned  
long-pending  
long-period variable  
long-planned  
long-playing  
long-plumed  
long-pod  
long-podded  
long-possessed  
long-projected  
long-protrated  
long-quartered  
long-range  
long-range attack aircraft  
long-range bomber  
long-range forecasting  
long-range heavy bomber  
long-range medium bomber  
long-range patrol bomber  
long-range plan  
long-range planning  
long-range radar  
long-range rocket  
long-reaching  
long-resounding  
long-ribbed  
long-ridged
long-term memory
long-termer
long-thinking
long-threatened
long-time
long-timed
long-toed
long-toed stint
long-tongue
long-tongued
long-toothed
long-traveled
long-visaged
long-waisted
long-wandered
long-wandering
long-wave
long-wedded
long-winded
long-windedly
long-windedness
long-winged
long-wire aerial
long-wire antenna
long-wished
long-withdrawing
long-withheld
long-wooled
long-worded
longcase clock
longed-for
longhair music
longi-
longicorn beetle
longing eye
longing for the past
longitude by account
longitude in arc
longitude in time
longitudinal axis
longitudinal coefficient
longitudinal framing
longitudinal magnification
longitudinal section
longitudinal stability
longitudinal wave
longleaf pine
longleaf yellow pine
longschat pine
longshore drift
longways dance
loo mask
look a fright
look a gift horse in the mouth
look a mess
look a sight
look about for
look about one
look after
look after your fences
look after your own interests
look aghast
look agog
look ahead
look alive
look all over
look all over hell
look another way
look around
look around for
look as if you had seen a ghost
look aside
look askance
look askance at
look askant
look asquint
look at
look at in the light of
look at it
look away
look back
look back on
look back upon things past
look bad
look beautiful
look before you leap
look beyond
look big
look black
look black as thunder
look black upon
look bleak
look blue
look closely at
look coldly upon
look cool upon
look daggers
look daggers at
look dark
look down
look down on
look down over
look down upon
look down your nose
look down your nose at
look everywhere
look fit to kill
look foolish
look for
look for a needle in a haystack
look for time
look for trouble
look forth
look forward to
look full in the face
look good
look green about the gills
look guilty
look here
look high and low
look in
look in on
look in the face
look in your eyes
look into
look into every hole and corner
look into the future
look kindly upon
look like
look like a million
look like hell
look like the devil
look lively
look on
look on the bright side
look on the dark side
look on with the evil eye
look out
look out for
look out for number one
look out upon
look over
look right through
look round
look serious
look sharp
look silly
look slippy
look something terrible
look straight in the eye
look straight in the eyes
look sullen
look sweet upon
look the other way
look threatening
look through
look to
look to be
look to your laurels
look toward
look up
look up and down
look up to
look upon
look upon as
look upstairs and downstairs
look with scorn upon
look with your own eyes
look you
look you in the eye
look you in the face
look you up
look-alike
look-alikes
look-down
look-in
look-over
look-see
look-through
look-up
looked-for
looker-on
lookers-on
looking ahead
looking back
looking fit to kill
looking for
looking forward to
looking glass
looking out the window
looking up
looking-glass
looking-glass bush
lookout man
loom joiner
loom large
loom of the land
loom oiler
loom tenter
loom turner
loom weaver
loom-state
looming in the distance
looming in the future
loony bin
loop aerial
loop antenna
loop back
loop in
loop knot
loop line
loop of Henle
loop stitch
loop the loop
loop winding
loop window
loop-hole
loop-the-loop
loophole frame
looping mill
looping the loop
loose bowels
loose change
loose construction
loose cover
loose end
loose ends
loose for sea
loose formation
loose memory
loose morals
loose order
loose purse strings
loose sentence
loose smut
loose thread
loose tongue
loose translation
loose woman
loose-barbed
loose-bodied
loose-coupled
loose-curl
loose-driving
loose-enrobed
loose-fibered
loose-fitting
loose-fleshed
loose-floating
loose-flowered
loose-flowing
loose-footed
loose-footed sail
loose-girdled
loose-gowned
loose-handed
loose-hanging
loose-hipped
loose-hung
loose-joint hinge
loose-jointed
loose-kneed
loose-leaf
loose-leaf notebook
loose-limbed
loose-lipped
loose-lived
loose-living
loose-locked
loose-lying
loose-mannered
loose-moraled
loose-necked
loose-packed
loose-panicled
loose-principled
loose-robed
loose-skinned
loose-spiked
loose-thinking
loose-tongued
loose-topped
loose-wadded
loose-wived
loose-woven
loose-writ
loosen the purse strings
loosen up
looseness of the bowels
lop-ear
lop-eared
lop-sided
lopho-
loppered milk
lord and master
lord bird
lord chancellor
lord it over
lord lieutenant
lord mayor
lord of creation
lord of misrule
lord of the bedchamber
lord of the manor
lord paramount
lord spiritual
lord temporal
lord trier
lord's day
lord's prayer
lord's supper
lord's table
lord-in-waiting
lord-lieutenancy
lord-lieutenant
lords and ladies
lords of creation
lords temporal and spiritual
lords-and-ladies
lords-in-waiting
lorraine cross
lose altitude
lose blood
lose caste
lose color
lose countenance
lose courage
lose credit
lose currency
lose distinctness
lose face
lose flesh
lose ground
lose heart
lose heat
lose hope
lose momentum
lose no time
lose novelty
lose one
lose one's cookies
lose out
lose patience
lose power
lose resolution
lose self-control
lose sharpness
lose sight of
lose speed
lose strength
lose the chance
lose the day
lose the opportunity
lose the will to live
lose time
lose track of
lose weight
lose your good name
lose your grip
lose your head
lose your hearing
lose your heart
lose your heart to
lose your life
lose your nerve
lose your reason
lose your senses
lose your shirt
lose your sight
lose your temper
lose your tongue
lose your vision
lose your way
lose your wits
lose yourself in
lose-out
losh hide
losh leather
losing game
losing hazard
losing streak
losing your touch
loss leader
loss of contact with reality
loss of ground
loss of hearing
loss of honor
loss of innocence
loss of life
loss of memory
loss of mind
loss of name
loss of reason
loss of repute
loss of speech
loss of tone
loss of touch with reality
loss of voice
loss of your illusions
loss ratio
lost cause
lost in
lost in amazement
lost in thought
lost in wonder
lost lamb
lost language
lost motion
lost river
lost sheep
lost soul
lost souls
lost to
lost to all sense of honor
lost to shame
lost to sight
lost to view
lost tribes
lost-wax process
lot on
lot out
lot, a
lot, the
lote bush
lots of laughs
lotus grass
lotus land
lotus position
lotus-eater
lotus-eating
loud and clear
loud color
louping ill
loups-garous
louse herb
louse up
louse-up
loused up
lousy knave
lousy rich
lousy with
louver board
louver boards
louver window
love God
love affair
love apple
love arrows
love charm
love chest
love child
love deities
love ditty
love feast
love game
love god
love goddess
love grass
love interest
love knot
love letter
love match
love nest
love of God
love of country
love of mankind
love potion
love seat
love set
love song
love story
love the sound of your own voice
love to
love to distraction
love vine
love-anguished
love-apple
love-begot
love-begotten
love-bird
love-bitten
love-born
love-breathing
love-crossed
love-darting
love-delighted
love-devouring
love-drury
love-entangle
love-entangled
love-enthralled
love-feast
love-illumined
love-in-a-mist
love-in-idleness
love-inspired
love-inspiring
love-knot
love-lacking
love-laden
love-learned
love-lies-bleeding
love-lilt
love-lorn
love-mad
love-madness
love-maker
love-making
love-mourning
love-performing
love-sick
love-smitten
love-spent
love-starved
love-stricken
love-touched
love-whispering
love-worthiness
love-worthy
love-wounded
loved one
lovely as the day
lovely build
lovely time
lovely to behold
lover of beauty
lover of learning
lover of wisdom
lover's knot
lover's leap
lover-boy
lovers' lane
lovey-dovey
loving care
loving couple
loving cup
loving kindness
loving-kindness
low IQ
low area
low beam
low blood pressure
low brass
low bunt
low camp
low charge
low church
low class
low comedian
low comedy
low cunning
low down
low estimation
low explosive
low fellow
low frequency
low fulham
low german
low grade
low green tent
low ground
low grounds
low growth rate
low house
low hurdles
low in the pecking order
low latin
low man on the totem pole
low mass
low milling
low opinion
low order of importance
low order of probability
low pitch
low price
low price tag
low prices
low priority
low profile
low quality
low relief
low rumbling
low sodium diet
low spear grass
low spirits
low sunday
low tariff
low taste
low temperature
low tide
low visibility
low voice
low water
low wine
low wines
low-altitude bombing
low-arched
low-backed
low-bellowing
low-bended
low-blast
low-blooded
low-bodied
low-boiling
low-born
low-boughed
low-bowed
low-breasted
low-bred
low-brow
low-browed
low-built
low-calorie diet
low-camp
low-capacitance probe
low-carbohydrate diet
low-caste
low-ceiled
low-ceilinged
low-charge
low-churchman
low-class
low-conceited
low-conditioned
low-consumption
low-cost
low-country
low-crested
low-crowned
low-current
low-cut
low-deep
low-down
low-down dirty shame
low-downer
low-downness
low-ebbed
low-energy fission
low-filleted
low-flighted
low-fortuned
low-frequency
low-frequency current
low-frequency speaker
low-frequency wave
low-gauge
low-geared
low-grade
low-heeled
low-hung
low-intensity
low-key
low-keyed
low-lead gas
low-level
low-level language
low-leveled
low-lipped
low-lived
low-living
low-low
low-lying
low-masted
low-melting
low-minded
low-mindedly
low-mindedness
low-murmuring
low-muttered
low-necked
low-paneled
low-pass filter
low-pitched
low-power
low-pressure
low-pressure area
low-pressure cylinder
low-pressure salesmanship
low-priced
low-principled
low-priority
low-profile
low-purposed
low-quality
low-quartered
low-rate
low-rented
low-resistance
low-rimmed
low-rise
low-roofed
low-salt diet
low-set
low-sized
low-sounding
low-spirited
low-spiritedly
low-spiritedness
low-spoken
low-statured
low-temperature
low-tension
low-test
low-thoughted
low-toned
low-tongued
low-tread
low-uttered
low-voiced
low-voltage
low-voltage protection
low-voltage release
low-waisted
low-water
low-water mark
low-wattage
low-wheeled
low-wing monoplane
low-withered
low-witted
low-yield nuclear weapons
lowbush blueberry
lowdown, the
lower apsis
lower atmosphere
lower berth
lower bo
lower boom
lower bound
lower case
lower chamber
lower class
lower classes
lower criticism
lower deck
lower frequencies
lower fungus
lower hold
lower house
lower limit
lower mast
lower middle class
lower mizzen-topsail yard
lower mordent
lower oneself
lower orders
lower ranks
lower regions
lower sail
lower school
lower semi-continuous function
lower semicontinuous function
lower side
lower status
lower strata
lower studding sail
lower the boom
lower the spirits
lower world
lower your colors
lower your flag
lower your guard
lower your note
lower your tone
lower yourself
lower-boom topping lift
lower-case
lower-case alphabet
lower-cased
lower-casing
lower-income housing
lowering yourself
lowest common denominator
lowest common multiple
lowest layer
lowest level
lowest point
lowest stratum
lowest terms
lowland fir
lowland plover
lowland white fir
lowness of spirit
loxide window
loxa bark
loyal friendship
loyal opposition
loyalty oath
lozenge perforation
lozenge-shaped
lpW
lt-yr
lubber fend
lubber fiend
lubber grasshopper
lubber line
lubber's hole
lubber's knot
lubber's line
lubber's mark
lubber's point
lubber-hole
lube oil
lubricating agent
lubricating oil
lucid interval
lucid stillness
lucifer match
luck of the draw
luck penny
lucken gowan
lucky bean
lucky break
lucky dip
lucky dog
lucky person
lucky piece
lucky shot
lucky strike
lucky-bag
lucrative interest
lucus a non lucendo
ludicro-
lufbery circle
luff on luff
luff tackle
luff up
luff upon luff
lug foresail
lug hook
lug in
lug in by the heels
lug nut
lug pad
lug screw
lug sill
lug topsail
lug wrench
lug-rigged
lug-worm
luggage shop
luggage tan
luggage train
luggage van
lugger topsail
lukewarm piety
lukewarm support
lull before the storm
lull to sleep
lullaby vt
lumb-
lumbar puncture
lumbar region
lumbar rheumatism
lumber jacket
lumber kiln
lumber room
lumber-pie
lumbering pace
lumberman's saw
lumbo-
lumbo-abdominal
lumbo-aortic
lumbo-iliac
lumbo-inguinal
lumbo-ovarian
lumen meter
lumen-hour
lumin-
luminosity curve
luminous efficacy
luminous efficiency
luminous emittance
luminous energy
luminous exitance
luminous flux
luminous flux density
luminous intensity
luminous paint
luminous power
luminous range
lump coal
lump it
lump of sugar
lump sucker
lump sum
lump together
lump-fish
lumpen proletariat
lumpy jaw
luna cornea
luna moth
lunar base
lunar caustic
lunar city
lunar colony
lunar corona
lunar cycle
lunar day
lunar distance
lunar eclipse
lunar excursion module
lunar halo
lunar insertion
lunar landscape
lunar mare
lunar module
lunar month
lunar orbit
lunar rainbow
lunar rill
lunar rille
lunar tide
lunar waste
lunar year
lunar-diurnal
lunatic asylum
lunatic fringe
lunch break
lunch counter
lunch hour
lunch time
lunch wagon
luncheon bar
luncheon meat
luncheon voucher
lung book
lung cancer
lung fever
lung fish
lung fluke
lung plague
lung sickness
lunge at
lungworm disease
lunisolar precession
lunitidal interval
lupus erythematosus
lupus vulgaris
lurid imagination
lurking hole
lurking place
lush up
lust after
lust for
lust for knowledge
lust for learning
lust-born
lust-burned
lust-burning
lust-engendered
lust-stained
lust-tempting
luster pottery
luster wool
lustful leer
lusts of the flesh
lusus naturae
lute maker
lute player
lute stern
lute tablature
lute-
lute-backed
lute-fashion
lute-playing
lute-string
lute-voiced
luteinizing hormone
luteo-
lutine bell
luting paste
luxuriate in
luxuriate on
luxury liner
luxury price
luxury tax
luxury-loving
luxury-proof
lyam-hound
lych gate
lych-gate
lychee nut
lycoperdon nut
lycopodium powder
lye boil
lygaeid bug
lygus bug
lying ahull
lying down
lying hid
lying in ambush
lying in wait
lying low
lying press
lying pretension
lying to
lying wall
lying-in
lying-in hospital
lying-ins
lyings-in
lyke-wake
lyme grass
lyme-grass
lyme-hound
lymph cell
lymph corpuscle
lymph gland
lymph heart
lymph node
lymph nodule
lymph-
lymph-vascular
lymphatic gland
lymphatic leukemia
lymphatic system
lympho-
lympho-adenoma
lymphogenous leukemia
lymphogranuloma inguinale
lymphogranuloma venereum
lymphoid cell
lymphoid leukemia
lynch law
lynx cat
lynx flower
lynx-eyed
lyo-
lyra viol
lyrate-lobed
lyre back
lyre bat
lyre pheasant
lyre snake
lyre tree
lyre turtle
lyre-form sofa
lyre-guitar
lyre-leaved
lyre-shaped
lyre-tailed
lyre-tailed nightjar
lyric bass
lyric cantata
lyric drama
lyric poet
lyric poetry
lyric soprano
lyric stage
lyric tenor
lyric theater
lyric-writing
lyrical abstraction
lyrical abstractionist
lyrico-dramatic
machinery steel
machinist's hammer
machinist's mate
mackay bean
mackerel bait
mackerel bird
mackerel breeze
mackerel gull
mackerel shark
mackerel sky
mackinaw coat
macnab cypress
macr-
macrame cord
macrame knot
macro-
macro-axis
macrobiotic diet
macrocytic anemia
macula lutea
mad about
mad apple
mad as a March hare
mad as a hatter
mad as a hornet
mad as a wet hen
mad dog
mad for
mad itch
mad money
mad on
mad round
mad staggers
mad with lust
mad-apple
mad-brained
mad-bred
mad-doctor
mad-dog skullcap
mad-headed
madder bleach
madder bloom
madder blue
madder brown
madder carmine
madder crimson
madder extract
madder lake
magen david
maggot in one’s brain
maggot in the brain
maggot snipe
maggot therapy
maggot-pie
magic act
magic belt
magic bullets
magic carpet
magic circle
magic eye
magic formula
magic lantern
magic lily
magic number
magic realism
magic realist
magic ring
magic show
magic spectacles
magic spell
magic square
magic wand
magic words
magico-religious
magico-sympathetic
magninot line
magistral line
magistrates’ court
magma basalt
magmaic stoping
magna charta
magna cum laude
magne-
magnesia magma
magnesium carbonate
magnesium chloride
magnesium citrate
magnesium dioxide
magnesium flare
magnesium hydroxide
magnesium light
magnesium oxide
magnesium peroxide
magnesium sulfate
magnesium trisilicate
magnet forger
magnet keeper
magnet school
magnet-
magnetic amplifier
magnetic attraction
magnetic axis
magnetic battery
magnetic bearing
magnetic bottle
magnetic bubble
magnetic cartridge
magnetic character reader
magnetic chart
magnetic circuit
magnetic coefficient
magnetic compass
magnetic concentration
magnetic conductivity
magnetic constant
magnetic core
magnetic course
magnetic creeping
magnetic curves
magnetic declination
magnetic deviation
magnetic dip
magnetic dipole moment
magnetic disk
magnetic domain
magnetic drum
magnetic drum recorder
magnetic electricity
magnetic elements
magnetic equator
magnetic field
magnetic field of currents
magnetic figures
magnetic flux
magnetic flux density
magnetic force
magnetic friction
magnetic heading
magnetic hysteresis
magnetic inclination
magnetic induction
magnetic ink
magnetic intensity
magnetic lag
magnetic lens
magnetic memory
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic permeability
magnetic pickup
magnetic pole
magnetic potential
magnetic pulley
magnetic quantum number
magnetic recorder
magnetic recording
magnetic relay
magnetic reluctance
magnetic remanence
magnetic repulsion
magnetic resistance
magnetic retardation
magnetic retentiveness
magnetic rotation
magnetic scalar potential
magnetic storm
magnetic tape
magnetic tape recorder
magnetic tape unit
magnetic tube of force
magnetic variation
magnetic viscosity
magnetic wire
magnetic wire recorder
magnetico-
magnetite arc
magnetite arc lamp
magnetite-basalt
magnetite-olivinite
magnetite-spinellite
magnetizing current
magnetizing force
magneto assembler
magneto-
magneto-electric
magneto-electricity
magneto-optical effect
magnetocaloric effect
magnetoelectric generator
magnetoelectric machine
magnetomotive force
magnetostriction microphone
magnificent rifle bird
magnifying glass
magnifying power
magnolia warbler
magnum bonum
magnum opus
magnus hitch
magpie diver
magpie finch
magpie goose
mah jong
mah-jongg
mahala mat
mahaleb cherry
mahali disease
maharao raja
mahogany birch
mahogany brown
mahogany family
mahogany-brown
mahua butter
maid marian
maid of all work
maid of honor
maid of honour
maid-in-waiting
maiden cane
maiden lady
maiden name
maiden over
maiden pink
maiden speech
maiden state
maiden voyage
maiden's blush
maiden's-tears
maiden's-wreath
maiden's-wreaths
maidenhair fern
maidenhair spleenwort
maidenhair tree
maidenhair-tree
maidenhair-vine
maids-hair
maids-in-waiting
main plane
main plant
main point
main road
main rocket
main royal
main sea
main sequence
main sequence star
main skysail
main staysail
main stem
main store
main street
main strength
main thing
main yard
main-brace
main-brace bumpkin
main-course
main-de-fer
main-deck
main-frame computer
main-guard
main-royal brace
main-royal lift
main-royal mast
main-royal stay
main-royal staysail
main-royal studding sail
main-royal yard
main-royal-studding-sail boom
main-sheet
main-skysail brace
main-skysail lift
main-skysail mast
main-skysail stay
main-skysail yard
main-top
main-topgallant
main-topgallant brace
main-topgallant lift
main-topgallant mast
main-topgallant sail
main-topgallant stay
main-topgallant studding sail
main-topgallant yard
main-topgallantmast
main-topmast
main-topmast stay
main-topmast staysail
main-topmast studding sail
main-topmast-studding-sail boom
main-topsail
main-topsail lift
main-topsail schooner
main-topsail yard
main-trysail gaff
main-trysail peak halyard
main-trysail rig
main-trysail vang
main-yard
main-yardman
mainstream jazz
maintain a household
maintain clearance
maintain connection
maintain continuity
maintain distance
maintain position
maintain the heading
maintain the highest standards
maintain with your last breath
maintain your perspective
maintained school
maintaining power
maintenance and cure
maintenance bond
maintenance man
maintenance of membership
maintenance of your good name
mais oui
maison de sante
maison-dieu
maître d'
maître d'hôtel
maître de ballet
maître d'hôtel
maize mildew
maize oil
maize smut
maize yellow
maize-eater
majo bitters
majolica dipper
majolica painter
major agglutinins
major axis
major basilica
major chord
major element
major form class
major general
major in
major interval
major key
major league
major medical insurance
major mode
major operation
major operations
major order
major orders
major part
major party
major penalty
major piece
major planet
major poet
major premise
major premiss
major scale
major second
major seminary
major seventh chord
major suit
major surgery
major tenace
major term
major third
major triad
major-domo
major-domos
major-domoship
major-general
major-generalcy
major-generalship
major-league
major-leaguer
majority carrier
majority leader
majority rule
majuscule script
make a North River jibe
make a U-turn
make a bargain
make a bed
make a beeline
make a beginning
make a bequest
make a bet
make a bid
make a bid for
make a blind bargain
make a blooper
make a blunder
make a board
make a boast of
make a bold push
make a boner
make a boo-boo
make a break for
make a break for it
make a breakthrough
make a brolly-hop
make a burst of speed
make a buy
make a call
make a cash payment
make a cat's-paw of
make a cautious move
make a chattel of
make a circuit
make a clamor
make a clean breast
make a clean breast of
make a clean sweep
make a close study of
make a comeback
make a commotion
make a comparison
make a compromise
make a critical revision
make a cross-reference
make a dash
make a dash at
make a dash for
make a date
make a dead set against
make a dead set at
make a dead-stick landing
make a deal
make a deal for
make a decision
make a demand
make a dent in
make a determined resistance
make a detour
make a dicker
make a distinction
make a doormat of oneself
make a doormat of yourself
make a face
make a fair copy
make a false step
make a faux pas
make a federal case
make a federal case of
make a figure
make a fine distinction
make a flight
make a fool of
make a fool of yourself
make a fortune
make a fresh start
make a funny
make a fuss
make a fuss about
make a fuss over
make a generalization
make a getaway
make a go of it
make a good board
make a good end
make a good thing of
make a grab for
make a half board
make a hash of
make a hit
make a hit with
make a hog of yourself
make a hole in
make a household word of
make a journey
make a killing
make a landfall
make a laughingstock of
make a leg
make a light
make a lip
make a liquid sound
make a living
make a long face
make a long story short
make a low bow
make a lucky strike
make a man of
make a mark
make a match
make a memorandum
make a mess of
make a miscue
make a misstep
make a mistake
make a mockery of
make a monkey of
make a monkey of yourself
make a monkey out of
make a motion
make a moue
make a mouth
make a move
make a mow
make a new beginning
make a new man of
make a nice distinction
make a noise
make a noise in the world
make a nose dive
make a note
make a parachute jump
make a party to
make a pass
make a pass at
make a passage
make a patsy of
make a pawn of
make a peace offering
make a personal appearance
make a pig of yourself
make a pilgrimage
make a pinch
make a pitch for
make a play for
make a plaything of
make a plea
make a point of
make a practice of
make a precipitate departure
make a prediction
make a present of
make a pretense
make a pretense of
make a pretext of
make a production of
make a prognosis
make a projection
make a promise
make a proof
make a prophecy
make a puppet of
make a purchase
make a quick exit
make a racket
make a radical change
make a raid
make a rebuttal
make a recension
make a reconnaissance
make a regulation
make a report
make a request
make a requisition
make a resolute stand
make a resolution
make a reverence
make a round trip
make a row
make a run
make a run for
make a rush at
make a sacrifice
make a sale
make a scene
make a scoop
make a selection
make a set at
make a short sale
make a show
make a show of
make a sign
make a signal
make a slow start
make a sound
make a sounding
make a space
make a special effort
make a spectacle of yourself
make a speech
make a spinnaker run
make a splash
make a splurge
make a sport of
make a spurt
make a stab at
make a stand
make a stand against
make a statement
make a stir about
make a strategic withdrawal
make a strong bid for
make a study of
make a subtle distinction
make a success
make a sucker of
make a survey
make a syllabus
make a tentative move
make a thrust at
make a tilt at
make a to-do
make a to-do over
make a touch
make a train
make a trial of
make a trip
make a try
make a virtue of necessity
make a visit
make a whole
make a will
make a wrong step
make a wry face
make a wry face at
make a wry mouth
make accounts square
make acknowledgment
make acknowledgments of
make acquaintance with
make acquainted
make acute
make advances
make after
make agree
make all clear for
make all square
make allocations
make allowance
make allowance for
make allowances for
make amends
make an adaptation
make an adjustment
make an ado
make an ado about
make an allusion to
make an announcement
make an appearance
make an approximation
make an arrangement
make an arrest
make an ass of
make an ass of yourself
make an assignment
make an attempt
make an auspicious beginning
make an edition
make an effort
make an end of
make an entrance
make an entry
make an estimation
make an example of
make an exit
make an expedition
make an experiment
make an idol of
make an impact upon
make an impression
make an improvement
make an incursion
make an inroad
make an intrusion
make an investment
make an irruption into
make an obeisance
make an offer
make an opening
make an outcry
make an overture
make an uproar
make and break
make angry
make answer
make anxious
make apology for
make application
make arrangements
make arrangements for
make as if
make as though
make assignments
make assurance double sure
make at
make attentive
make available
make available to all
make away
make away with
make bad weather
make believe
make better
make bite the dust
make black
make blind
make blood flow freely
make blue
make bold
make bold to
make bold to ask
make bold with
make bones about
make bones of
make book
make both ends meet
make bricks without straw
make businesslike
make capital of
make capital out of
make ceramics
make certain
make choice of
make clear
make cold
make comfortable
make common cause
make common cause with
make compensation
make complex
make concave
make concessions
make conditional
make confession
make conform
make connection
make contact with
make contingent
make conversation
make court to
make delivery
make dependent
make dispositions for
make dissimilar
make distinctions
make do
make do with
make doubt
make drunk
make ducks and drakes of
make due provision for
make dutiable
make economies
make elastic
make electric
make ends meet
make every effort
make expiation
make explosive noise
make eyes at
make fair promise
make fair weather
make false pretenses
make fast
make for
make for health
make foul water
make four
make free
make free of
make free with
make friends with
make fun
make fun of
make game of
make go
make goo-goo eyes at
make good
make good time
make good use of
make good weather
make good your escape
make good your promise
make good your word
make grandiloquent
make graphics
make grieve
make grow
make happy
make haste
make haste slowly
make hay
make hay of
make hay while the sun shines
make head
make head against
make headway
make heavy weather
make heavy weather of it
make her number
make holiday
make hopeless
make hot
make hot under the collar
make human
make ill-humored
make immortal verse
make imperative
make impossible
make incumbent
make innovations
make inquiry
make inquisition
make it
make it a condition
make it clear
make it felt
make it hot for
make it quick
make it snappy
make it so
make it tough for
make it up
make it up to
make it with
make it your business
make its appearance
make justice prevail
make knots
make known
make land
make larger
make late
make laws
make leeway
make legal
make legal and binding
make legendary
make lie down and roll over
make lie down and turn over
make light
make light of
make lighter
make like
make likely
make liquor
make little of
make love
make mad
make magnetic
make mandatory
make matters up
make mention of
make merry
make merry with
make mincemeat of
make money
make money by
make more acute
make more likely
make more than one
make more than you
make mountains out of molehills
make much ado about
make much ado about nothing
make much of
make music
make nervous
make no bones about
make no bones about it
make no doubt
make no mistake
make no provision
make no scruple of
make no sign
make nothing of
make obeisance
make obligatory
make of
make off
make off with
make one
make one easy
make one tremble
make one's blood run cold
make one's flesh creep
make one's hair stand on end
make one's teeth chatter
make oneself heard
make out
make out a case
make out a report
make out like
make out with
make over
make overtures
make parallel
make parts
make pay through the nose
make peace
make perfect
make place
make plain
make plates
make pleasant
make pliant
make plumb
make port
make possible
make precise
make preparations
make prints
make probable
make profit
make progress
make progress against
make propitiation
make proud
make provision for
make public
make purple
make putty of
make quits
make rapid strides
make ready
make red
make redundant
make reference to
make reparation
make reprisal
make requisition
make requital
make reservations
make restitution
make retribution
make right
make right prevail
make room
make round
make sacrifice to
make sad
make sad work of
make safe
make sail
make sea room
make secure
make semitransparent
make sense
make sensitive
make shift
make short work of
make sit up and beg
make small
make smell like roses
make so bold as to
make soft
make someone see stars
make sore
make space
make special
make staccato sounds
make sternway
make strides
make suit to
make supplication
make sure
make sure against
make sure of
make talk
make terms
make the air blue
make the best of
make the best of a bad bargain
make the best of it
make the best of your time
make the best of your way
make the butt of your humor
make the chips fly
make the dust fly
make the eagle scream
make the eyes water
make the flesh crawl
make the flesh creep
make the fur fly
make the grade
make the mind a blank
make the most of
make the most of it
make the most of your time
make the mouth water
make the round of
make the rules
make the scene
make the sign of the cross
make the sign of the cross over
make the sign of the cross upon
make the sparks fly
make the supreme sacrifice
make the welkin ring
make the worst of
make things hum
make threads
make time
make time stand still
make tired
make too much of
make tough
make toward
make toxic
make tracks
make tributary
make trouble
make uncertain
make unfeeling
make uniform
make unintelligible
make unique
make up
make up accounts
make up for
make up for lost time
make up leeway
make up to
make up your mind
make use of
make vertical
make viscid
make void
make war
make war on
make water
make waves
make way
make way for
make way into
make welcome
make whoopee
make with
make worse
make you a
make you a compliment
make you fed-up
make you feel at home
make you feel welcome
make you jump out of his skin
make you puke
make you retch
make you say 'uncle'
make you see
make you see double
make you shit your pants
make you shudder
make you sick
make you sick in the stomach
make you sick to the stomach
make you sing small
make you sit up and take notice
make you stare
make you tiddly
make you tired
make you tremble
make you vomit
make young
make your adieus
make your appearance
make your bed
make your bed and lie on it
make your blood boil
make your blood run
make your blood run cold
make your bow
make your business
make your case
make your cause your own
make your choice
make your compliments to
make your debut
make your escape
make your exit
make your field
make your flesh creep
make your fortune
make your hair stand on end
make your head reel
make your head revolve
make your head spin
make your head swim
make your head whirl
make your heart bleed
make your home
make your keep
make your mark
make your mouth water
make your move
make your nerves tingle
make your oath
make your own
make your own way
make your peace
make your pile
make your point
make your rounds
make your salutations
make your skin crawl
make your teeth chatter
make your voice heard
make your way
make your way to
make yourself acquainted with
make yourself at home
make yourself comfortable
make yourself conspicuous
make yourself easy about
make yourself easy on that score
make yourself felt
make yourself heard
make yourself master of
make yourself part of
make yourself scarce
make yourself understood
make-
make-ado
make-belief
make-believe
make-do
make-faith
make-falcon
make-fire
make-fray
make-game
make-hawk
make-king
make-law
make-mirth
make-or-break
make-out artist
make-peace
make-ready
make-shame
make-sport
make-talk
make-up
make-way
make-weight
make-work
maker's mark
maker-off
maker-up
makes of
makes you shiver
makeup artist
makeup man
making a clean breast
making a leg
making a part of
making again
making amends
making an end
making blind
making certain
making distinctions
making do
making foolish
making good
making iron
making it with
making light
making no bones about it
making once more
making over
making ready
making right
making scenes
making soft
making up
making way
making yourself scarce
making-up
making-up day
making-up price
mako shark
mal a propos
mal de mer
mal de pinto
mal du pays
mal-
mal-entendu
mal-observation
mala fide
mala fides
malac-
malacca cane
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
male alto
male animal
male bamboo
male being
male cat
male chauvinism
male chauvinist
male chauvinist pig
male fern
male gamete
male line
male organs
male person
male rhyme
male servant
male sex
male turkey
male-
male-sterile
maleic acid
maleic hydrazide
malevolent influence
malgre soi
malic acid
malice aforethought
malice prepense
malicious defamation
malicious gossip
malicious mischief
malicious parody
malignant catarrh
malignant catarrhal fever
malignant granuloma
malignant growth
malignant hypertension
malignant lymphoma
malignant pustule
malignant tumor
malleable cast iron
malleable iron
mallee bird
mallee fowl
mallee root
malleh bug
mallow family
mallow pink
mallow rose
mallow rust
mallow tree
malm rock
malonic acid
malonic ester
malonyl group
malonyl radical
maloo climber
malpighian layer
malpighian tube
malpractice insurance
malt extract
malt house
malt liquor
malt sugar
malt vinegar
malt whiskey
malt whisky
malt-dust
malt-horse
malt-house
malt-worm
malta fever
malted milk
maltese cat
maltese cross
malum in se
mama's boy
mamma's boy
mammary gland
mammato-cumulus
mammee apple
mammee colorado
mammee sapota
mammoth tree
mammy coot
mammy wagon
mamori katana
man Friday
man about town
man after your own heart
man alive
man and boy
man and wife
man and woman
man ape
man engine
man fish
man friday
man from Mars
man fungus
man higher up
man hunt
man hunter
man in the moon
man in the street
man jack
man lock
man midwife
man mountain
man of God
man of action
man of all work
man of commerce
man of courage
man of deeds
man of experience
man of few words
man of genius
man of good will
man of his word
man of honor
man of influence
man of intellect
man of iron
man of learning
man of letters
man of mark
man of means
man of men
man of mettle
man of note
man of old
man of parts
man of property
man of science
man of straw
man of substance
man of taste
man of the cloth
man of the house
man of the people
man of the world
man of wealth
man of wisdom
man on the flying trapeze
man on the make
man overboard
man power
man the garrison
man tiger
man with hair on his chest
man without a country
man's best friend
man's estate
man-abhorring
man-about-town
man-at-arms
man-back
man-bearing
man-begot
man-bodied
man-born
man-brute
man-carrying
man-catching
man-centered
man-changed
man-child
man-compelling
man-created
man-day
man-days
man-degrading
man-destroying
man-devised
man-devouring
man-eater
man-eating
man-eating shark
man-enchanting
man-enslaved
man-fashion
man-fearing
man-for-man defense
man-forked
man-god
man-grown
man-handle
man-hater
man-hating
man-headed
man-high
man-hole
man-hour
man-hunter
man-keen
man-killer
man-killing
man-made
man-maiming
man-making
man-midwife
man-midwifery
man-milliner
man-mimicking
management trust
managing director
managing editor
mancona bark
mandarin duck
mandarin orange
mandated territory
mandatory injunction
mandatory primary
mandatory referendum
mandelic acid
mandibulo-
mandibulo-auricularis
mando-bass
mando-cello
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
manganese bronze
manganese brown
manganese dioxide
manganese epidote
manganese heptoxide
manganese oxide
manganese sesquioxide
manganese spar
manganese steel
manganese sulfate
manganese tetroxide
manganese velvet brown
manganese violet
manganic acid
manganous sulfate
mange mite
mange-mange
mangel-wurzel
manger board
manger son ble en herbe
mangle operator
mangle rack
mangle wheel
mango anthracnose
mango bird
mango fish
mango ginger
mango melon
mango-squash
mangold fly
mangold-wurzel
mangrove catechu
mangrove cuckoo
mangrove family
mangrove mullet
mangrove skipper
mangrove snapper
mangum terrace
manhood suffrage
mania a potu
maniacal excitement
manic condition
manic state
manic-depressive
manic-depressive psychosis
manicoa rubber
maniere criblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
manipulate the market
manipulated market
manipulated variable
manipulative surgery
manlike types
manly art of self-defense
manly vigor
mann tree
mann-
manna ash
manna from heaven
manna grass
manna gum
manna in the wilderness
manna insect
manna lichen
manna sugar
manna-croup
manned rocket
manned station
manner of articulation
manner of being composed
manner of speaking
manner of working
manners of cooking
manned bob
manned female
manned wavy shingle
mannitol hexanitrate
manometer pressure
manor farm
manor house
manor manage
manor-house
manrope knot
mansard roof
mansion house
mansion-house
mansions in the sky
manstopping bullet
manta ray
mantel shelf
mantel-tree
mantis crab
mantis shrimp
mantle cavity
mantle of snow
mantle rock
mantle yourself with
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manual labor
manual of instruction
manual training
manubial column
manufactured gas
manufacturer's agent
manufacturing center
manufacturing lathe
manuring plant
manuring quarter
manuring town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
many-acred
many-angled
many-armed
many-banded
many-beaming
many-belied
many-bleating
many-blossomed
many-blossoming
many-branched
many-breasted
many-celled
many-chambered
many-cobwebbed
many-colored
many-coltered
many-cornered
many-eared
many-eyed
many-faced
many-facessness
many-faceteted
many-flowered
many-folded
many-formed
many-fountained
many-gifted
many-handed
many-headed
many-headed multitude
many-headedness
many-horned
many-hued
many-jointed
many-knotted
many-languaged
many-lay
many-leaved
many-legged
many-lived
many-lobed
many-meaning
many-millioned
many-minded
many-mingled
many-mingling
many-mouthed
many-named
many-nationed
many-nerved
many-one
many-parted
many-peopled
many-petaled
many-pigeonholed
many-pillared
many-pointed
many-ranked
many-rayed
many-ribbed
many-rooted
many-rowed
many-seated
many-seatedness
many-seeded
many-sided
many-sidedness
many-sounding
many-spangled
many-sported
many-steepled
many-stemmed
many-storied
many-stringed
many-syllabled
many-tailed
many-tinted
many-toned
many-tongued
many-towered
many-tribed
many-tubed
many-twinkling
many-valued
many-valued logic
many-valved
many-veined
many-voiced
many-wandering
many-weathered
many-winding
many-windowed
many-wintered
many-yeared
map lichen
map maker
map making
map out
map projection
map reader
map reading
map turtle
maple ash
maple borer
maple eye
maple family
maple scale
maple sirup
maple sugar
maple syrup
maple syrup urine disease
maple worm
maple-faced
maple-leaved
mar-
mar-hawk
marabou stork
maraging steel
marang nut
maraschino cherries
maraschino cherry
marathon race
marble cake
marble cork
marble flower
marble thrush
marble-arched
marble-breasted
marble-calm
marble-checkered
marble-colored
marble-constant
marble-covered
marble-faced
marble-grinding
marble-hard
marble-imaged
marble-looking
marble-minded
marble-mindedness
marble-pale
marble-paved
marble-piled
marble-pillared
marble-polishing
marble-quarrying
marble-ribbed
marble-sculptured
marble-topped
marble-white
marbled paper
marc de Burgogne
marcel wave
march against
march away
march in double-quick time
march in quick time
march of events
march of time
march off
march on
march out
march out of step
march past
march stone
march tempo
march under the banner of
march up to the cannon's mouth
march upon
march with
march-land
march-man
march-past
marche aux puces
marching orders
marchoiness-ship
marconi rig
mardi gras
mare clausum
mare liberum
mare nostrum
mare's nest
mare's tail
mare's-nest
mare's-tail
mare-roe
marechal niel
mares of Diomedes
margaric acid
margate fish
margin draft
margin line
margin of lift
margin of power
margin purchaser
margin up
marginal affair
marginal land
marginal man
marginal matter
marginal note
marginal sea
marginal utility
margined securities
maria theresa dollar
mariage de convenance
marigold finch
marigold window
marigold yellow
marijuana cigarette
marijuana smoker
marine animal
marine animals
marine barometer
marine belt
marine biology
marine blue
marine chronometer
marine corps
marine engine
marine engineer
marine engineering
marine glue
marine green
marine insurance
marine ivy
marine league
marker-out
markers-off
market analysis
market analyst
market bleach
market boat
market crab
market cross
market expansion
market garden
market gardener
market gardening
market hunter
market index
market keeper
market letter
market mammy
market order
market overt
market penny
market place
market pot
market price
market research
market town
market value
market, the
market-ripe
marketable securities
marketing research
marking caliper
marking cotton
marking gage
marking gauge
marking hammer
marking hatchet
marking ink
marking iron
marking knife
marking nut
marking stitch
marking the occasion
marl grass
marl-pit
marlin swordfish
marline-spike
marlinespike fish
marlinespike hitch
marlinespike seamanship
marling hitch
marmalade box
marmalade plum
marmalade tree
marmoreal repose
marmot squirrel
Marnean epoch
maroon red
marquise rose
marquise scale
marram grass
marriage act
marriage bed
marriage brokage
marriage broker
marriage ceremony
marriage chest
marriage connection
marriage contract
marriage counselor
marriage deities
marriage encounter
marriage flight
marriage god
marriage goddess
marriage guidance
marriage license
marriage of convenience
marriage portion
marriage proposal
marriage relationship
marriage sacrament
marriage settlement
marriage song
marriage vow
marriage-bed
married couple
married love
married man
married name
married print
married state
married status
married woman
marron glace
marrons glac
marrow bean
marrow cabbage
marrow pea
marrow squash
marry into
marry off
marsh andromeda
marsh bent
marsh blackbird
marsh bluebill
marsh buck
marsh cress
marsh crocodile
marsh deer
marsh elder
marsh fern
marsh fever
marsh five-finger
marsh foxtail
marsh gas
marsh grass
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marsh parsley
marsh pea
marsh peep
marsh pennywort
marsh pine
marsh pink
marsh plover
marsh purslane
marsh quail
marsh rabbit
marsh robin
marsh rosemary
marsh samphire
marsh shield fern
marsh speedwell
marsh spike grass
marsh spot
marsh stitchwort
marsh tea
marsh tern
marsh tit
marsh titmouse
marsh treader
marsh trefoil
marsh turnip
marsh vetchling
marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal's baton
marshalling yard
marsupial mole
marsupial mouse
martello tower
martial arts
martial law
martial music
martial spirit
martin snipe
martingale backrope
martingale boom
marumi kumquat
marvel-of-Peru
mary jane
mary magdalene
mascarene grass
mascot blue
masculine caesura
masculine ending
masculine rhyme
masculo-
mash machine
mash note
mash tun
mash up
mash weld
mashie iron
mashie niblick
mask microphone
mask of death
mask stop
masked ball
masking piece
masking tape
mason bee
mason jar
mason moth
mason spider
mason wasp
mason's line
mason's lung
mason-dixon line
masquerade as
masquerade ball
masquerade party
mass action
mass attack
mass card
mass defect
mass destruction
mass energy
mass in
mass leave
mass man
mass market
mass media
mass meeting
mass movement
mass murder
mass noun
mass number
mass observation
mass observer
mass of the presanctified
mass production
mass ratio
mass reflex
mass spectrograph
mass spectrography
mass spectrometer
mass spectrometry
mass spectroscope
mass spectroscopy
mass spectrum
mass suicide
mass unit
mass-book
mass-energy
mass-energy equation
mass-fiber
mass-house
mass-luminosity law
mass-minded
mass-mindedness
mass-monger
mass-penny
mass-priest
mass-produce
mass-produced
mass-word
masses of
massor mass
massy-proof
mast ball
mast band
mast brown
mast cell
mast clamp
mast cloth
mast cover
mast funnel
mast hasp
mast hoop
mast house
mast lining
mast partner
mast ring
mast track
mast tree
mast-
mast-fed
mast-head
master alloy
master bedroom
master builder
master carpenter
master chief petty officer
master chord
master clock
master compass
master control desk
master controller
master craftsman
master cylinder
master film
master gauge
master gunner
master hand
master key
master leaf
master map
master mariner
master mason
master matrix
master mechanic
master of
master of ceremonies
master of foxhounds
master of style
master of the house
master of the revels
master of the rolls
master of the situation
master plan
master race
master rod
master screw
master sergeant
master shifter
master spirit
master spirit of the age
master spring
master stroke
master switch
master tap
master touch
master wheel
master workman
master your feelings
master yourself
master's degree
master's degree candidate
master's gown
master's oral
master-at-arms
master-builder
master-hand
master-key
master-mason
master-singer
master-slave manipulator
master-stroke
master-vein
master-work
masters-at-arms
mastery of skills
masthead angle
masthead compass
mastic tree
mastiff bat
masting house
masto-
mastodon locomotive
mastoid cell
mastoid process
mat bean
mat burn
mat cane
mat finish
mat of hair
mat rush
mat-covered
mat-forming
mat-ridden
mat-roofed
mata-mata
matc-maker
match coins
match cord
match data
match findings
match frame
match game
match hook
match in the powder barrel
match joint
match lining
match pipe
match plane
match plate
match play
match point
match race
match rifling
match rope
match stamp
match tub
match up with
match wheel
match yourself against
match-board
match-lined
matchbox bean
matched order
matching machine
matching pair
matching plane
matching set
matchless discordant
matinee idol
matinee race
matinee racing
mating call
mating cry
mator mate
mat-
matre d'hôtel
matre d'hôtel butter
matri-
matricaria camphor
matrimonial agency
matrimonial agent
matrimonial bureau
matrimonial union
matrimony vine
matrix algebra
matrix mechanics
matrix paper
matrix sentence
matron of honor
matron of honour
matron-like
matt weave
matte shot
matted hair
matter in deed
matter in hand
matter informalism
matter informalist
matter little
matter of chance
matter of concern
matter of course
matter of fact
matter of ignorance
matter of importance
matter of indifference
matter of interest
matter of law
matter of life and death
matter of life or death
matter of necessity
matter of no consequence
matter of no importance
matter of record
matter painting
matter waves
matter-of
matter-of-course
matter-of-fact
matter-of-factly
matter-of-factness
matters in hand
matters of importance
mattress type
matura diamond
mature age
mature belief
mature judgment
mature man
mature thought
mature woman
matutinal epilepsy
matzo ball soup
matzo balls
matzo meal
matzoth baker
maundy thursday
mauvais quart d'heure
mauvais sujet
mauvaise honte
mauve blush
mauve decade
maxillo-
maximal ideal
maximum dissemination
maximum likelihood
maximum modulus principle
maximum speed
maximum thermometer
maximum-security prison
may I
may day
may duke
may it please you
may queen
may tree
may-apple
may- bug
may-bush
may-butter
may-day
may-dew
may-flowering tulip
may-fly
may-game
may-lady
may-lord
may-woon
mayfair tan
mayor-elect
mazal tov
maze-gane
mazel tov
mazer tree
mcm1io n9p8y9r llglhut
me-too
me-tooism
me-ward
mea culpa
meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
meadow chicken
meadow chickweed
meadow clover
meadow crake
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
meadow fescue
meadow foxtail
meadow gowan
meadow grass
meadow grasshopper
meadow green
meadow hen
meadow land
meadow lark
meadow lily
meadow moor
meadow mouse
meadow mushroom
meadow mussel
meadow nematode
meadow nuts
meadow nymph
meadow orchis
meadow ore
meadow parsnip
meadow pea
meadow peat
meadow pine
meadow pink
meadow pipit
meadow queen
meadow reed grass
meadow rice grass
meadow rue
meadow saffron
meadow sage
meadow salsify
meadow saxifrage
meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
meadow vole
meadow-beauty family
meadow-brown
meadow-sweet
meadows and pastures
meager diet
meaking iron
meal beetle
meal moth
meal offering
meal pennant
meal plum
meal snout moth
meal ticket
meal worm
mealie meal
mealy bellwort
mealy bug
mealy-back
mealy-mouthed
mealy-mouthedness
mean anomaly
mean business
mean calorie
mean deviation
mean deviation from the mean
mean distance
mean free path
mean latitude
mean life
mean line
mean mind
mean much
mean noon
mean nothing
mean planet
mean sea level
mean semitone
mean solar day
mean solar time
mean square
mean square deviation
mean sun
mean time
mean to
mean to imply
mean to say
mean to suggest
mean value
mean value theorem
mean well
mean what you say
mean while
mean wretch
mean-acting
mean-conditioned
mean-dressed
mean-looking
mean-minded
mean-souled
mean-spirited
mean-spiritedly
mean-spiritedness
mean-square error
mean-time clock
mean-tone tuning
mean-witted
meander belt
meander line
meandering stream
means of access
means of carrying
means of conveyance
means of dealing
means of production
means of transporting
means test
means to an end
meantone system
measles vaccine
measure against
measure depth
measure for measure
measure line
measure of my days
measure off
measure out
measure signature
measure swords
measure swords with
measure time
measure up
measure up to
measure your length
measure zero
measurement cargo
measurement of variables
measurement ton
measuring cup
measuring device
measuring glass
measuring machine
measuring rod
measuring stick
measuring wheel
measuring worm
meat ax
meat block
meat breakfast
meat by-product
meat chopper
meat cleaner
meat eater
meat fly
meat grinder
meat loaf
meat market
meat offering
meat packer
meat pie
meat preserver
meat saw
meat slicer
meat stew
meat tea
meat thermometer
meat-eater
meat-eating
meat-fed
meat-hungry
meat-packing
meato-
mechan-
mechanic's lien
mechanical advantage
mechanical aid
mechanical aptitude
mechanical arts
mechanical binding
mechanical bird
mechanical device
mechanical drawing
mechanical engineer
mechanical engineering
mechanical equivalent of heat
mechanical heart
mechanical impedance
mechanical instrument
mechanical man
mechanical means
mechanical metallurgy
mechanical piano
mechanical refrigeration
mechanical suspension
mechanical telephone
mechanical tissue
mechanical twin
mechanical vector
mechanical wave
mechanically precise
mechanico-
mechanized warfare
medaddy-bush
medal bronze
medal chief
medal for merit
medal of freedom
medal of honor
medal play
medal winner
meddle with
meden agan
medi-
media campaign
medial condyle
medial strip
median strip
mediastino-pericardial
mediastino-pericarditis
mediastinum testis
mediated generalization
medical Greek
medical aid
medical and surgical instruments
medical attendant
medical attention
medical care
medical center
medical certificate
medical corps
medical diagnosis
medical diathermy
medical dressing
medical ethics
medical examination
medical examiner
medical history
medical instrument
medical jurisprudence
medical jury
medical man
medical practice
medical practitioner
medical prognosis
medical school
medical treatment
medicinal herbs
medicinal leech
medicinal oil
medicine animal
medicine bag
medicine ball
medicine case
medicine chest
medicine dance
medicine dropper
medicine glass
medicine lodge
medicine man
medicine monger
medicine shop
medicine show
medicine tree
medicine wolf
medico-
medico-legal medicine
medieval latin
medieval literature
medieval mode
medio-
medio-passive
meditate over
meditate upon
mediterranean flour moth
mediterranean fruit fly
medium artillery
medium bomber
medium frequency
medium of exchange
medium of transportation
medium quarto
medium shot
medium wave
medium-dated
medium-rare
medium-sized
medley cloth
medley of colors
medley race
medley relay
medulla oblongata
medulla oblongatas
medullae oblongatae
medullary ray
medullary sheath
medusa bud
medusa's head
meed of praise
meek soul
meek-browed
meek-eyed
meek-eyed Morn
meek-minded
meek-spirited
meerschaum enameler
meet a bet
meet adversity
meet an obligation
meet and right
meet around the conference table
meet boldly
meet eyeball to eyeball
meet face to face
meet halfway
meet hand-to-hand
meet head-on
meet her
meet one's end
meet requirements
meet squarely
meet the expense of
meet the eye
meet the gaze
meet up with
meet with
meet with a loss
meet with approval
meet with attention
meet with foul play
meet with success
meet you at every turn
meet your Maker
meet your Waterloo
meet your commitments
meet your death
meet your fate
meet your obligations
meet your wishes
meeting house
meeting of minds
meeting place
meeting rail
meeting-house
meeting-place
meetone's end
meetyour end
mega-
megal-
megalithic tomb
megalo-
megaloblastic anaemia
megavolt-ampere
megawatt-hour
mein Herr
meiwa kumquat
melamine resin
melan-
melancholia attonita
melancholia hypochondriaca
melancholia religiosa
melano-
melanocyte-stimulating hormone
melba toast
melegueta pepper
melic grass
melic poetry
melilite-basalt
mell-doll
mell-supper
mellow wisdom
mellow-breathing
mellow-colored
mellow-deep
mellow-eyed
mellow-flavored
mellow-lighted
mellow-looking
mellow-mouthed
mellow-ripe
mellow-tasted
mellow-tempered
mellow-toned
melodic interval
melodic line
melodic minor
melodic minor scale
melody part
melon aphid
melon apple
melon beetle
melon cactus
melon caterpillar
melon fly
melon foot
melon loco
melon louse
melon moth
melon pear
melon seed
melon shell
melon shrub
melon thistle
melon tree
melon worm
melon-bulb
melon-faced
melon-formed
melon-laden
melon-leaved
melon-shaped
melon-yellow
melt away
melt down
melt in tears
melt in the air
melt into
melt into one
melt like snow
melt the heart
melting mood
melting point
melting pot
melton cloth
mem-sahib
member bank
member in good standing
member of the bar
member of the human race
member of the intelligentsia
members in Christ
members of the bar
membrana propria
membrana serosa
membrana tympana
membrane bone
membraneous labyrinth
membranous labyrinth
memento mori
memo book
memorandum book
memorandum head
memoria in aeterna
memoria technica
memorial arch
memorial column
memorial day
memorial park
memorial record
memorial rose
memorial statue
memorial stone
memorial tablet
memory bank
memory book
memory circuit
memory gap
memory like a sieve
memory obstruction
memory root
memory span
memory trace
memory training
memory tubes
memory verse
memory-trace
men's chorus
men's clothing
men's lounge
men's magazine
men's room
men's wear
men's-wear shop
men-
men-at-arms
men-children
men-folk
men-of-the-earth
men-of-war
menace to health
menage a trois
menage man
mend sail
mend the furl
mend your fences
mend your manners
mend your ways
mendel's law
mendicant friar
mendicant order
mendoza beaver
menhaden boat
menhaden oil
mening-
meningo-
meningo-osteophlebitis
meno mosso
meno-
menopausal arthritis
mens rea
mens sana in corpore sano
menstrual discharge
menstrual epact
menstrual epilepsy
menstrual equation
menstrual flow
menstrual flux
mensural music
mensural notation
mental acquisitiveness
mental act
mental age
mental alertness
mental alienation
mental association
mental attitude
mental balance
mental blankness
mental blindness
mental block
mental body
mental capacity
mental case
mental chemistry
mental climate
mental composure
mental confusion
mental cruelty
mental cultivation
mental culture
mental defectiveness
mental deficiency
mental derangement
mental disease
mental disorder
mental dissociation
mental distress
mental disturbance
mental effort
mental equilibrium
mental exercise
mental faculty
mental fatigue
mental genius
mental giant
mental grasp
mental handicap
mental healer
mental healing
mental health
mental home
mental hospital
mental hygiene
mental illness
mental image
mental impression
mental instability
mental institution
mental labor
mental linking
mental object
mental outlook
mental philosophy
mental picture
mental poise
mental presentation
mental process
mental prominence
mental ratio
mental representation
mental reservation
mental retardation
mental set
mental shock
mental sickness
mental strain
mental subnormality
mental symptom
mental telepathist
mental telepathy
mental test
mental topography
mental void
mental weakness
mentally blind
mentally defective
mentally defective personality
mentally deficient
mentally handicapped
mentally ill
mentally retarded
mentally sick
mentally sound
menteur a triple etage
menthane group
mention confidentially
mention in passing
mention privately
mention to
mentioned in dispatches
mento-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercapto-
mercator projection
merchant adventurer
merchant bank
merchant banker
merchant flag
merchant fleet
merchant guild
merchant marine
merchant navy
merchant prince
merchant ship
merchant venturer
merchant-adventurer
merchant-tailor
merchant-venturer
merci beaucoup
mercur-
mercurial barometer
mercurial mind
mercurial ointment
mercurial telescope
mercuric chloride
mercuric oxide
mercuric subsulfate
mercuric sulfide
mercuric sulphide
mercurous chloride
mercury arc
mercury barometer
mercury bath
mercury bichloride
mercury boiler
mercury cell
mercury chloride
mercury cyanide
mercury dichloride
mercury fulminate
mercury iodide
mercury lamp
mercury mass
mercury oxide
mercury perchloride
mercury poisoning
mercury subchloride
mercury sulfide
mercury sulphide
mercury switch
mercury thiocyanate
mercury weed
mercury-arc lamp
mercury-arc rectifier
mercury-discharge lamp
mercury-vapor detector
mercury-vapor lamp
mercury-vapor tube
mercury-vapor turbine
mercury-vapour lamp
mercy flight
mercy killer
mercy killing
mercy seat
mercy stroke
mercy-seat
mere caricature
mere chance
mere child
mere child's play
mere counterfeit
mere existence
mere externals
mere facade
mere farce
mere few
mere hint
mere noise
mere nothing
mere notion
mere rhetoric
mere scratch
mere shadow
mere show
mere skin and bones
mere subsistence
mere talk
mere theory
mere things
mere tropism
mere wreck
merely exist
merely glimpsed
merely nominal
merely surface
merge in
merge into
meridian angle
meridian circle
meridian of life
meridian section
merit badge
merit rate
merit system
merit-monger
mermaid weed
mermaid's purse
mero cabrilla
mero-
merocrine gland
meromorphic function
merry as a cricket
merry as a grig
merry chase
merry dancers
merry man
merry men
merry-andrew
merry-andrewism
merry-andrewize
merry-eyed
merry-faced
merry-go-round
merry-hearted
merry-make
merry-making
merry-meeting
merry-minded
merry-singing
merry-smiling
merry-totter
mes-
mescal bean
mescal button
mescal buttons
mescal maguey
mesh bag
mesh connection
mesh knot
meshing-spur gear
mesityl oxide
mesmeric sleep
mesne lord
meso-
mesoxalyl-urea
mesquite grass
mesquite gum
mess about
mess about with
mess around
mess around with
mess beef
mess call
mess gear
mess hall
mess in
mess jacket
mess kit
mess pork
mess sergeant
mess steward
mess up
mess with
mess-john
mess-up
message carrier
message stick
message-bearer
 messed up
messed-up
messenger RNA
messenger bird
messenger cable
messenger of God
messenger wire
messiah religion
messing around
meta-
meta-toluidine
metabolic disease
metabolic diseases
metabolic heat
metabolic pathway
metabolic psychosis
metacentric stability
metacresol purple
metagalactic space
metal age
metal breaker
metal carbonyl
metal casting
metal cloth
metal coloring
metal cut
metal detector
metal foil
metal fouling
metal lath
metal lather
metal leaf
metal paste-up
metal sculpture
metal spraying
metal wood
metal-bearing
metal-bending
metal-boring
metal-bound
metal-broaching
metal-bushed
metal-clad
metal-clasped
metal-cleaning
metal-coated
metal-covered
metal-cutting
metal-decorated
metal-drilling
metal-drying
metal-edged
metal-embossed
metal-forged
metal-framed
metal-free phthalocyanine
metal-grinding
metal-jacketed
metal-lined
metal-lithography
metal-melting
metal-perforating
metal-piercing
metal-shaping
metal-sheathed
metal-slitting
metal-slotting
metal-studded
metal-testing
metal-tipped
metal-trimming
metallic bond
metallic conduction
metallic luster
metallic soap
metallic thermometer
metallic wood-boring beetle
metallo-
metallo-organic
metallurgical chemistry
metallurgical engineer
metallurgical engineering
metallurgical microscope
metamict substance
metamorphic cycle
metamorphic rock
metanil yellow
metaphorical meaning
metaphorical sense
metaphosphoric acid
metaphysical idealism
metaphysical poetry
metaphysico-
metastable state
metastatic inflammation
metastatic tumor
mete out
mete out to
meteor crater
meteor dust
meteor dust impacts
meteor shower
meteor swarm
meteor trail
meteor train
meteoric particles
meteoric shower
meteoric success
meteorological instrument
meteorological reconnaissance
meteorological tower
meter angle
meter fixer
meter maid
meter rate
meter relay
meter-ampere
meter-candle
meter-candle-second
meter-kilogram
meter-kilogram-second
meter-millimeter
meter-reading
metered mail
metes and bounds
meth-
methacrylate resin
methacrylic acid
methamphetamine hydrochloride
methane series
methanol alcohol
methodical signs
methoxy DDT
methoxy group
methoxy radical
methyl acetate
methyl alcohol
methyl aldehyde
methyl benzene
methyl blue
methyl bromide
methyl cellulose
methyl chloride
methyl chlorocarbonate
methyl chloroformate
methyl cyanide
methyl ester
methyl ether
methyl ethyl ketone
methyl green
methyl group
methyl isobutyl ketone
methyl methacrylate
methyl methane
methyl oleate
methyl orange
methyl phenol
methyl phenyl ether
methyl propyl ketone
methyl radical
methyl red
methyl rubber
methyl salicylate
methyl styryl ketone
methyl sulfate
methyl violet
methyl yellow
methacetic acid
methylated spirit
methylated spirits
methylene azure
methylene blue
methylene chloride
methylene dichloride
methylene group
methylene iodide
methylene radical
methylidyne group
methylidyne radical
methylisobutenyl ketone
methylphenylcarbinyl acetate
methylosanilene chloride
methylthionine chloride
methyltri-nitro
meticulous attention
meting out
metopon hydrochloride
metr-
metre-candle
metre-kilogram-second
metric carat
metric centner
metric grain
metric hundredweight
metric space
metric system
metric ton
metric topology
metrical accent
metrical foot
metrical form
metrical group
metrical pattern
metrical psalm
metrical unit
metro-
metronome mark
metronomic mark
metropolitan area
metropolitan county
metropolitan district
meum et tuum
mew gull
mew up
mewling infant
mexican hairless
mexican spanish
mezankorrie moth
mezereon family
mezza voce
mezzamine floor
mezzanine floor
mezzanine story
mezzo forte
mezzo piano
mezzo staccato
mezzo-mezzo
mezzo-relievo
mezzo-relieves
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mi-
mia mia
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mickle-mouthed
mic1n o9p8y9r iilhlutm
micr-
micro biology
micro-
micro-aerophile
micro-aerophilic
micro-audiphone
micro-form
micro-instrumentation
micro-movie
micro-needle
micro-stress
microcosmic salt
microcytic anemia
microfilm plotter
microfilm reader
microfilm viewer
micrometer caliper
micrometer calliper
micrometer drum
micrometer gauge
micrometer head
micrometer screw
micrometrically precise
microscopic distinction
microwave diathermy
microwave diathermy machine
microwave height finder
microwave linear accelerator
microwave link
microwave mixer
microwave oven
microwave radar
microwave relay station
microwave spectroscope
microwave spectroscopy
microwave spectrum
mid air
mid gear
mid leg
mid mashie
mid off
mid position
mid spoon
mid wicket off
mid wicket on
mid-
mid-nineteenth
mid-ocean
mid-oestral
mid-off
mid-on
mid-orbital
mid-part
mid-period
mid-periphery
mid-pillar
mid-point
mid-position
mid-refrain
mid-region
mid-river
mid-road
mid-sea
mid-season
mid-side
mid-sky
mid-slope
mid-sole
mid-span
mid-stride
mid-styled
mid-sun
mid-swing
mid-tarsal
mid-term
mid-thigh
mid-thoracic
mid-tide
mid-time
mid-totality
mid-tow
mid-town
mid-travel
mid-value
mid-ventral
mid-volley
mid-walk
mid-wall
mid-wall column
mid-water
mid-week
mid-wicket
mid-workings
mid-world
mid-zone
midair collision
midas fly
midday flower
midday sun
midden mavis
middle C
middle Paleolithic
middle age
middle ages
middle body
middle buster
middle c
middle class
middle common room
middle course
middle deck
middle distance
middle ear
middle earth
middle eight
middle english
middle finger
middle french
middle game
middle greek
middle ground
middle high german
middle irish
middle lamella
middle latitude
middle life
middle low german
middle mast
middle name
middle of the road
middle oil
middle order
middle orders
middle passage
middle path
middle plane
middle point
middle position
middle sailing
middle school
middle scots
middle state
middle staysail
middle stone
middle stump
middle term
middle voice
middle watch
middle way
middle welsh
middle white
middle-aged
middle-agedly
middle-agedness
middle-burst
middle-class
middle-class type
middle-classdom
middle-classism
middle-classness
middle-colored
middle-cut file
middle-distance
middle-earth
middle-growthed
middle-horned
middle-of-the-road
middle-of-the-roader
middle-rate
middle-road
middle-shot wheel
middle-sized
middle-sizedness
middle-statured
middle-temperature error
middle-tone
middle-witted
middle-wooled
middling meat
middling well
middy blouse
midget golf
midget racer
midnight blue
midnight line
midnight sun
midrange speaker
midship oar
midshipman's hitch
midst of
midsummer daisy
midsummer day
midsummer madness
midsummer-men
midwall column
midwall shaft
midwife frog
midwife toad
midwing monoplane
might and main
might be
might of arms
might-be
might-have-been
mighty effort
mighty in battle
mighty like
mighty-brained
mighty-handed
mighty-minded
mighty-mouthed
mighty-spirited
mignonette family
mignonette green
mignonette lace
mignonette-vine
migrant laborer
migrant shrike
migrant worker
migration of ions
migration velocity
migratory bird
migratory laborer
migratory locust
migratory worker
mikado brown
mikado locomotive
mikado orange
mikado yellow
mike fright
mil-foot
mila a landi
milch cow
milch glass
milch-cow
mild alkali
mild as milk
mild as milk and water
mild as mother's milk
mild blushing goddess
mild mercurous chloride
mild mosaic
mild process
mild radical
mild silver protein
mild steel
mild-aired
mild-aspected
mild-blowing
mild-brewed
mild-cured
mild-eyed
mild-faced
mild-flavored
mild-looking
mild-mannered
mild-mooned
mild-savored
mild-scented
mild-seeming
mild-spirited
mild-spoken
mild-tempered
mild-tongued
mild-worded
mildew-proof
mildly radical
mile-ohm
mile-pound
mile-ton
mileage book
mileage ticket
miles glorious
miles per hour
miliary fever
miliary tuberculosis
military academy
military aircraft
military attache
military band
military camp
military campaign
military chaplain
military cloak
military court
military dictatorship
military engineer
military engineering
military establishment
military flight
military government
military governor
military honours
military insignia
military intelligence
military judge
military law
military man
military march
military mast
military medal
military medicine
military music
military obligation
military officer
military operation
military operations
military orchid
military pace
military pilot
military police
military police corps
military policeman
military reserves
military rocket
military school
military science
military service
military spirit
military step
military subdivision
military tactics
military top
military training
military transport
military unit
military-intelligence man
military-minded
militate against
milk a he-goat into a sieve
milk a scene
milk and honey
milk and water
milk bar
milk bench
milk brother
milk can
milk cart
milk checker
milk chocolate
milk cow
milk fever
milk float
milk glass
milk leg
milk of almonds
milk of bismuth
milk of human kindness
milk of magnesia
milk pail
milk powder
milk products
milk pudding
milk punch
milk purslane
milk route
milk run
milk shake
milk sherry
milk sickness
milk snake
milk stout
milk sugar
milk tester
milk the ram
milk thistle
milk toast
milk tooth
milk train
milk vetch
milk willow-herb
milk-and-water
milk-and-wateriness
milk-and-waterish
milk-and-waterism
milk-and-watery
milk-bearing
milk-blended
milk-borne
milk-breeding
milk-condensing
milk-cooling
milk-curdling
milk-drying
milk-faced
milk-fed
milk-giving
milk-hued
milk-livered
milk-punch
milk-tested
milk-testing
milk-toast
milk-tooth
milk-warm
milk-washed
milk-white
milk-yielding
milking machine
milking stool
milkweed butterfly
milkweed family
milkweed tortoise beetle
milkwort family
milky disease
milky way
milky way galaxy
mill agent
mill around
mill beetle
mill bill
mill cake
mill chisel
mill cinder
mill construction
mill end
mill engineer
mill engineering
mill fever
mill hole
mill outlet
mill run
mill saw
mill store
mill town
mill wheel
mill work
mill-dam
mill-headed
mill-ink
mill-lead
mill-leat
mill-pond
mill-post
mill-race
mill-rind
mill-round
mill-run
mill-sixpence
mill-type motor
mill-wheel
mille marin
milled soap
miller's thumb
miller's-thumb
millet disease
millet grass
millet seed
millet-seed rash
milli-
milligram-hour
milline rate
milling cutter
milling machine
millionth comparator
millstone around your neck
millstone bridge
millwright chisel
milo disease
milo maize
milo root rot
milori blue
milori green
milpa system
mime artist
mimeograph copy
mimic thrush
miminy-piminyn
mimosa bark
mimosa family
mimosa-leaved
min min
mince it
mince pie
mince the truth
mince words
mince-pie
minced meat
minced pie
minced-pie
mincing horse
mincing steps
mind blindness
mind body
mind cure
mind deafness
mind like a blotter
mind like a sieve
mind of your own
mind out
mind overthrown
mind reader
mind reading
mind the store
mind unhinged
mind what you are about
mind what you are doing
mind your P's and Q's
mind your business
mind your manners
mind your own business
mind's core
mind's eye
mind-altering drug
mind-blind
mind-blindness
mind-blowing
mind-blowing drug
mind-body
mind-body problem
mind-boggler
mind-boggling
mind-changer
mind-changing
mind-curist
mind-expanding
mind-expanding drug
mind-expansion
mind-healer
mind-healing
mind-infected
mind-matter theory
mind-perplexing
mind-ravishing
mind-reader
mind-set
mind-sick
mind-stricken
mind-stuff theory
mind-torturing
mind-wrecking
mind-your-own-business
minded to
mindful of
mindful of others
mindless of
mine detector
mine examiner
mine host
mine layer
mine of information
mine of wealth
mine pig
mine ship
mine sweeper
mine thrower
mine work
mine-run
miner's anemia
miner's asthma
miner's consumption
miner's dial
miner's inch
miner's lamp
miner's lettuce
miner's lung
miner's phthisis
mineral acid
mineral black
mineral blue
mineral brown
mineral charcoal
mineral coal
mineral deposit
mineral dressing
mineral jelly
mineral kingdom
mineral oil
mineral pigment
mineral pitch
mineral processing
mineral resources
mineral salt
mineral science
mineral seal oil
crude sperm oil
crude spirits
natural spring
crude tallow
natural tar
natural water
natural waters
natural wax
natural wool
natural world
natural-bearing material
naturalogical chemistry
ning tree
minute with
mining-mangle
mining-mangleness
mining-mangler
mini-
mini-specs
miniature camera
miniature golf
miniature painting
miniature photography
miniature pinscher
miniature poodle
miniature schnauzer
minie ball
minimal art
minimal pair
minimax theorem
minimum access programming
minimum flying speed
minimum free form
minimum lending rate
minimum thermometer
minimum wage
minimum-security prison
minimum-wage law
mining claim
mining engineer
mining engineering
mining geology
minion of the law
minister of music
minister of state
minister of the Gospel
minister plenipotentiary
minister resident
minister to
minister without portfolio
minister-general
ministering angel
ministering spirits
ministers resident
ministers without portfolios
mink frog
mink-ranching
minny bass
mino bird
minole-mangle
minor axis
minor basilica
minor canon
minor chord
minor coin
minor criticism
minor detail
minor details
minor element
minor in
minor interval
minor key
minor league
minor matter
minor mode
minor operation
minor operations
minor order
minor orders
minor party
minor penalty
minor piece
minor planet
minor poet
minor premise
minor premiss
minor role
minor scale
minor second
minor seminary
minor seventh chord
minor suit
minor surgery
minor tenace
minor term
minor triad
minor wrong
minor-league
minor-leaguer
minority carrier
minority group
minority interests
minority leader
minority opinion
minority position
minority prejudice
minority voice
minstrel show
minstrel song
mint bush
mint camphor
mint condition
mint family
mint geranium
mint julep
mint leaves
mint of money
mint sauce
mint stamp
minus acceleration
minus sight
minus sign
minus some buttons
minuscule script
minute attention
minute bell
minute book
minute drops
minute glass
minute gun
minute hand
minute man
minute mark
minute of arc
minute quantity
minute steak
minute thing
minute things
minuteness of detail
mio-
mirabile dictu
miracle drug
miracle drugs
mis-mark
mis-meet
mis-pen
mis-rely
mis-say
mis-season
mis-seat
mis-see
mis.seek
mis-seem
mis-send
mis-sense
mis-serve
mis-set
mis-shape
mis-shapen
mis-sheathed
mis-ship
mis-shod
mis-sing
mis-solution
mis-sort
mis-sound
mis-space
mis-speak
mis-spell
mis-spend
mis-start
mis-state
mis-steer
mis-step
mis-stitch
mis-stop
mis-strike
mis-stroke
mis-style
mis-succeeding
mis-sue
mis-suit
mis-sway
mis-swear
mis-sworn
mis-tilled
mis-tune
mis-union
mis-word
misbehave yourself
miscarriage of justice
miscellaneous drugs
misch metal
mischief-loving
mischief-maker
mischief-making
mischief-working
mischio marble
misconduct yourself
misdemean yourself
mise en sc
mise-en-scene
mise-enscene
miserable lot
misery in the head
misfortune- difficulty
misfortune-proof
mish-mash
miso soup
miso-
misoshiru soup
misplaced modifier
misprision of felony
misprision of treason
misread the case
misread the situation
miss a cue
miss an opportunity
miss by a mile
miss fire
miss nothing
miss on the low side
miss out
miss stays
miss the boat
miss the bus
miss the chance
miss the mark
miss the market
miss the truth
miss your aim
miss your footing
miss your mooring
miss-fire
missa cantata
missal letter
missal stand
missel bird
missel thrush
missel tree
missel-bird
missel-thrush
missle engineer
missle engineering
missle guidance
missle man
missle program
missle project
missle research
missle science
missle technology
missle testing
missle warfare
missing link
mission accomplished
mission furniture
mission grass
missionaries apostolic
missionary alphabet
missionary apostolic
missionary position
missionary rector
missionary salesman
missionary weed
misspeak yourself
mist blue
mist concentrate sprayer
mist gray
mist-blotted
mist-blurred
mist-clad
mist-covered
mist-enshrouded
mist-exhaling
mist-impelling
mist-laden
mist-shrouded
mist-wet
mist-wreathen
mistle thrush
mistletoe bird
mistletoe cactus
mistress-piece
mistress-ship
misty rain
misty-eyed
misty-moisty
misunderstand one another
misuse of words
mitch board
mitch-board
miter box
miter box saw
miter cap
miter clamp
miter gear
miter jib
miter joint
miter saw
miter square
miter-clamped
miter-jointed
mitered jib
mitered sail
mithridate mustard
mitigating circumstances
mitis casting
mitis metal
mitral incompetence
mitral insufficiency
mitral stenosis
mitral valve
mitre block
mitre box
mitre joint
mitre square
mitre-jointed
mitre-wort
mitten money
mix Up
mix it up
mix it up with
mix up
mix with
mix yourself up with
mix-hellene
mix-up
mixed acid
mixed bag
mixed blessing
mixed bud
mixed cadence
mixed chorus
mixed crystal
mixed decimal
mixed doubles
mixed drink
mixed drinks
mixed economy
mixed farming
mixed foursome
mixed grill
mixed language
mixed larceny
mixed marriage
mixed metaphor
mixed nerve
mixed number
mixed race
mixed times
mixed up
mixed-blood
mixed-up
mixer tube
mixing faucet
mixing ratio
mixing room
mixing valve
mixo-
mixolydian mode
mixture curve
mixture stop
mixy-maxy
mizen-mast
mizzen royal
mizzen sail
mizzen skysail
mizzen stay
mizzen staysail
mizzen-royal brace
mizzen-royal lift
mizzen-royal mast
mizzen-royal stay
mizzen-royal staysail
mizzen-royal yard
mizzen-skysail brace
mizzen-skysail lift
mizzen-skysail mast
mizzen-skysail stay
mizzen-skysail yard
mizzen-topgallant brace
mizzen-topgallant lift
mizzen-topgallant mast
modern-built
modern-looking
modern-made
modern-practiced
modern-sounding
moderne cut
modernist verse
modest price
modest violet
modi operandi
modi vivendi
modock wool
modular arithmetic
modular assembly
modular production
modulation monitor
modulus of elasticity
modulus of rigidity
modulus of volume elasticity
modus operandi
modus ponens
modus tollens
modus vivendi
moeso-goth
mogul base
mogul locomotive
mohair rug
mohawk weed
moes’ scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resisting
moko-moko
mol wt
molar conductance
molar conductivity
molar tooth
molar volume
molar weight
molasses grass
mold fungus
mold loft
mold of perfection
moldboard plow
molded base line
molded breadth
molded depth
molded displacement
molded draft
molded form
molded line
molded plastic
molded salad
molding board
molding book
molding compounds
molding edge
molding plane
moldy nose
mole catcher
mole crab
mole cricket
mole drain
mole drainage
mole drainer
mole fraction
mole gray
mole plow
mole rat
mole trap
mole-blind
mole-blindedly
mole-catching
mole-eyed
mole-head
mole-hill
mole-sighted
molecular beam
molecular biology
molecular distillation
molecular film
molecular formula
molecular heat
molecular mass
molecular physics
molecular ray
molecular sieve
molecular volume
molecular weight
moll hern
molluscum contagiosum
molluscum epitheliate
mollweide protection
molly maguire
molly washdish
molly-coddle
molotov cocktail
molybdenum steel
molybdenum trioxide
molybdc anhydride
molybdc oxide
moment of force
moment of inertia
moment of momentum
moment of stability
moment of truth
moment-area method
momentary success
momentary triumph
momentary-contact switch
momentum pump
momentum valve
mon cher
mon semblable
mon-
mon-khmer
monad deme
monaural system
monel metal
monesia bark
monetary arithmetic
monetary unit
money belt
money box
money broker
money changer
money changing
money chest
money clip
money cowry
money dealer
money dealing
money down
money getter
money going out
money illusion
money in hand
money market
money matter
money matters
money of account
money of necessity
money order
money player
money saver
money spider
money teller
money to burn
money wages
money's worth
money's-worth
money-bag
money-bloated
money-bound
money-box
money-breeding
money-changer
money-earning
money-getting
money-grasping
money-grub
money-grubbing
money-hungry
money-lender
money-loving
money-mad
money-maker
money-making
money-raising
money-saving
money-spelled
money-spinner
money-wort
moneyed capital
moneyed corporation
moneyed man
mong corn
mongolian idiot
mongoloid idiocy
mongoloid idiot
mongoose plant
monilia disease
monistic idealism
monitor bug
monitor chuck
monitor room
monitor screen
monitoring booth
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
moon-fish
moon-flower
moon-gathered
moon-gazing
moon-glittering
moon-god
moon-gray
moon-led
moon-loved
moon-mad
moon-made
moon-man
moon-raised
moon-shaped
moon-stricken
moon-struck
moon-taught
moon-tipped
moon-touched
moon-trodden
moon-white
moon-whitened
mooneye cisco
moonlight blue
moonlight flit
moonlight requisition
moonlight school
moonseed family
moor besom
moor blackbird
moor buzzard
moor cock
moor grass
moor hen
moor myrtle
moor-bred
moor-cock
moor-fowl
moor-hen
moor-pout
mooring buoy
mooring chock
mooring harness
mooring line
mooring mast
mooring pendant
mooring pennant
mooring rack
mooring screw
mooring shackle
mooring swivel
mooring telegraph
mooring tower
moose call
moose elm
moose fly
moose-ear
moose-misse
moot case
moot court
moot hall
moot point
moot-hill
moot-house
moot-stow
mootchie wood
mop and mow
mop bucket
mop pail
mop up
mop up the floor with
mop-up
mope-eyed
mopped up
mopper-up
moppers-up
mopping up
mopping-up
mopstick rail
mora hair
morainal drift
moral badness
moral censor
moral certainty
moral climate
moral code
moral courage
moral delinquency
moral excellence
moral faculty
moral fiber
moral flaw
moral goodness
moral hazard
moral insanity
moral lesson
moral obligation
moral of the story
moral philosophy
moral pollutedness
moral pollution
moral precept
moral principles
moral rectitude
moral righteousness
moral sense
moral strength
moral support
moral theology
moral turpitude
moral victory
moral virtue
moral weakness
morality play
moralize upon
morally corrupt
morally polluted
morass ore
moray eel
morbid anatomy
morbid anxiety
morbid curiosity
morbid drive
morbid excitability
morbid growth
morbid psychology
morbid sensibility
morbidity rate
morbidly curious
morbidly sensitive
morbus Gallicus
mordant dye
mordant rouge
more and more
more dead than alive
more desirable
more dict
more distant
more frightened than hurt
more heat than light
more in sorrow than in anger
more or less
more suo
more than a match for
more than doubtful
more than enough
more than ever
more than expected
more than half
more than meets the ear
more than meets the eye
more than one
more than you bargained for
more than you can afford
more than you can tell
more truth than poetry
morgan le fay
morganatic marriage
moriche palm
morn star
morning after
morning campion
morning coat
morning devotions
morning dress
morning glory
morning glory seeds
morning loan
morning prayer
morning prayers
morning services
morning sickness
morning star
morning time
morning twilight
morning watch
morning-breathing
morning-bright
morning-colored
morning-gift
morning-glory
morning-glory family
morning-glory sphinx
morning-tide
morning-watch
morning-winged
mornings after
morocco leather
mororation in composition
morph-
morphemic analysis
morphine meconate
morpho-
morphologic construction
morphological analogy
morphological botany
morphological individual
morphophonemic analysis
morris chair
morris dance
morris tube
morris-dance
morris-pike
morro castle
morrow-mass
morrow-tide
morse code
mort d'ancestor
mort note
mortal blow
mortal fear
mortal flesh
mortal horror
mortal mind
mortal remains
mortal sin
mortal wound
mortality committee
mortality rate
mortality table
mortalily ill
mortar and pestle
mortar barrage
mortar bed
mortar board
mortar boat
mortar fire
mortar ketch
mortar-board
mortgage bond
mortgage broker
mortgage company
mortgage deed
mortgage holder
mortgage points
mortgage shark
mortgage-holder
mortgaged to the hilt
mortgagee clause
mortification of the flesh
mortification root
mortify the flesh
mortify your flesh
mortify yourself
mortise and tenon joint
mortise block
mortise chisel
mortise gauge
mortise gear
mortise joint
mortise lock
mortise-and-tenon joint
mortuary roll
mortuum vadium
mosaic binding
mosaic bold
mosaic disease
mosaic dwarf
mosaic gold
mosaic work
mosaic-drawn
mosaic-floored
mosaic-paved
moschatel family
mosey along
mosey off
mosque swallow
mosquito bar
mosquito bee
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
mosquito netting
mosquito-bitten
mosquito-bred
mosquito-free
moss agate
moss animal
moss campion
moss fern
moss green
moss pink
moss rose
moss stitch
moss-back
moss-backed
moss-begrown
moss-bordered
moss-bound
moss-brown
moss-clad
moss-covered
moss-crowned
moss-gray
moss-green
moss-grown
moss-hag
moss-inwoven
moss-lined
moss-trooper
moss-woven
mossy-backed
most admired disorder
most assuredly
most certainly
most distant
most frequently
most important
most likely
most often
most recent
most reverend
most significant digit
most unkindest cut of all
most, the
most-favored-nation clause
mot d'ordre
mot juste
mote nut
mote spoon
mote-hill
moth and rust
moth ball
moth bean
moth blight
moth mullein
mother-sick
mother-spot
mothers superior
mothers-in-law
motion backwards
motion block
motion downward
motion forwards
motion from
motion in general
motion photomicrograph
motion picture
motion pictures
motion short of
motion sickness
motion study
motion to
motion to and fro
motion towards
motion upwards
motion work
motion-picture
motion-picture actor
motion-picture camera
motion-picture fan
motion-picture film
motion-picture photography
motion-picture projector
motion-picture show
motion-picture theater
motionless torrents
motivating force
motivation research
motivational research
motive column
motive force
motive power
motive-monger
motive-mongering
motley color
motley fool
motley-minded
motmot blue
motmot green
moto-
motor abreaction
motor ambulance
motor aphasia
motor assembler
motor builder
motor bus
motor car
motor caravan
motor coach
motor corps
motor court
motor drive
motor generator
motor hotel
motor impulse
motor inn
motor launch
motor lodge
motor lorry
motor neuron
motor oil
motor paralysis
motor park
motor pool
motor scooter
motor ship
motor torpedo boat
motor truck
motor unit
motor van
motor vehicle
motor vessel
motor-camper
motor-camping
motor-driven
motor-generator
motor-generator servo
motor-man
motor-minded
motor-mindedness
motor-ship
motor-speed control system
motorcycle race
motorcycle saddle
motorized vehicle
motorized warfare
mots justes
mottle-leaf
mottle-leaf mosaic
mottled enamel
mottled-top disease
motto kiss
motu proprio
motuca fly
moubata bug
moudy-warp
mould-board
moulding board
moulding-board
mouldy fig
moulin a paroles
mound bird
mound builder
mound maker
mound making
mound-builder
mound-building
mount Pegasus
mount an attack
mount an offensive
mount guard
mount the barricades
mount the ladder of success
mount the throne
mount up to
mount your high horse
mountain accentor
mountain adder
mountain artillery
mountain ash
mountain avens
mountain beaver
mountain bluebird
mountain bluet
mountain bracken
mountain bunch grass
mountain camellia
mountain cat
mountain chain
mountain climber
mountain cranberry
mountain creeper
mountain currant
mountain damso
mountain devil
mountain dew
mountain ebony
mountain fern
mountain fetterbush
mountain fever
mountain flax
mountain fleece
mountain foxtail
mountain fringe
mountain goat
mountain gorilla
mountain gun
mountain heath
mountain hollow
mountain holly fern
mountain laurel
mountain lilac
mountain lion
mountain mahogany
mountain maker
mountain making
mountain man
mountain maple
mountain nymph
mountain oyster
mountain parsley
mountain range
mountain redtop
mountain rice
mountain rose
mountain rosebay
mountain sage
mountain sandwort
mountain sheep
mountain sickness
mountain spleenwort
mountain starwort
mountain tent
mountain time
mountain timothy
mountain viscacha
mountain wave
mountain whitefish
mountain wind
mountain wine
mountain-built
mountain-dwelling
mountain-girdled
mountain-green
mountain-high
mountain-loving
mountain-sick
mountain-walled
mounted infantryman
mounted police
mounted policeman
mounting medium
mounting-block
mourners' bench
mourning band
mourning cloak
mourning cloak butterfly
mourning dove
mourning garment
mourning iris
mourning ring
mourning warbler
mouse barley
mouse bloodwort
mouse deer
mouse grass
mouse gray
mouse opossum
mouse out
mouse pox
mouse-brown
mouse-color
mouse-colored
mouse-colour
mouse-deer
mouse-dun
mouse-eared
mouse-eaten
mouse-gray
mouse-hole
mouse-hunt
mouse-killing
mouse-pea
mouse-still
mousetail grass
mousetrap switch
mousing hook
mousquetaire gloves
mousseline de laine
mousseline de soie
mousseline sauce
moustache cup
mouth bow
mouth breathing
mouth footed
mouth glue
mouth harp
mouth hole
mouth honor
mouth organ
mouth piece
mouth-filling
mouth-made
mouth-organ
mouth-to-mouth
mouth-to-mouth method
mouth-to-mouth resuscitation
mouth-watering
movable feast
movable type
movable-do system
move along
move apart
move around
move aside
move away
move back
move behind
move for
move forward
move heaven and earth
move in
move in a circle
move in a groove
move in a rut
move into
move off
move on
move out
move over
move quickly
move to action
move to the side
move with the times
move you to
move your fanny
move your tail
moveable feast
movement of air
movie actor
movie camera
movie film
movie house
movie star
movie theater
movie-goer
movie-minded
movies, the
moving apart
moving average
moving cause
moving cluster
moving picture
moving road
moving spirit
moving staircase
moving stairway
moving target indicator
moving toward
moving van
moving-coil galvanometer
moving-coil meter
moving-coil microphone
moving-coil speaker
moving-conductor microphone
moving-iron meter
moving-picture show
moving-picture theater
mow down
mow-burnt
mowing grass
mowing machine
mowrah butter
mowrah fat
mowrah oil
mowrah-seed oil
moyen-age
mrs grundy
mu meson
mu-meson
muc-
much acclaimed
much ado about nothing
much as
much at one
much cry and little wool
much esteemed
much obliged
much of a muchness
much the same
much to be desired
much to be regretted
much-admired
much-advertised
much-branched
much-coiled
much-containing
much-devouring
much-discussed
much-enduring
much-engrossed
much-honored
much-hunger
much-lauded
much-loved
much-loving
much-mooted
much-pondering
much-praised
much-revered
much-sought
much-suffering
much-valued
much-worshiped
mucic acid
mucilage canal
mucilage cell
mucilage duct
muck about
muck around
muck bar
muck in
muck rolls
muck soil
muck up
muck-rake
muck-up
mucked up
mucking around
muckle hammer
muco-
mucoitin-sulphuric
mucoitinsulfuric acid
mucoso-
mucous colitis
mucous membrane
mucus body
mud bath
mud berth
mud dauber
mud drum
mud flat
mud heap
mud hen
mud house
mud lump
mud map
mud pie
mud pilot
mud pot
mud puddle
mud puppy
mud turtle
mud-bespattered
mud-built
mud-color
mud-colored
mud-exhausted
mud-fish
mud-lost
mud-roofed
mud-shot
mud-slinging
mud-splashed
mud-walled
muddle along
muddle away
muddle through
muddle-headed
muddle-minded
muddy-complexioned
muddy-mettled
mudslinging campaign
muermo family
muff coupling
muff your cue
muffin cap
muffin man
muffin pan
muffin turner
muffle color
muffle furnace
muffle kiln
muffle up
muffle-jaw
muffle-shaped
muffled drum
muffled drums
muffled tone
mug shot
mug up
mug-house
mug-up
mug-wet
muga moth
muga silk
muggy weather
mugho pine
muhammadan calendar
mui-tsaï
muir ill
muir poot
mulatto jack
mulatto-wood
mulberry bird
mulberry family
mulberry wine
mulberry-faced
mulct law
mule armadillo
mule chair
mule chest
mule deer
mule skinner
mule spinning
mule train
mule-fat
mule-foot
mule-headed
mule-jenny
muley axle
muley cow
muley head
muley saw
mulga grass
mulier puisne
mulier younger
mull muslin
mull over
mullein dock
mullein foxglove
mullein pink
mullet hawk
mulligan stew
multi-
multi-colour
multi-jet
multi-ply
multi-prop
multi-scene control board
multiaxial joint
multiband antenna
multichannel analyser
multiflora rose
multigrid tube
multilateral symmetry
multilateral trade
multilinear form
multipath transmission
multiphase current
multiple algebra
multiple alleles
multiple allelism
multiple allelomorph
multiple circuit
multiple connection
multiple drill
multiple factor
multiple factors
multiple fission
multiple fruit
multiple image
multiple integr
multiple integral
multiple messages
multiple myeloma
multiple neuritis
multiple party system
multiple personality
multiple projector
multiple sclerosis
multiple series
multiple shop
multiple star
multiple store
multiple telegraph
multiple thread
multiple voting
multiple warhead
multiple-beam interferometer
multiple-choice
multiple-clutch
multiple-die
multiple-disk
multiple-disk clutch
multiple-dome
multiple-drill
multiple-feed closed loop
multiple-line
multiple-missile warhead
multiple-pass
multiple-series
multiple-speed
multiple-threaded
multiple-toothed
multiple-tuned
multiple-unit car
multiple-valued
multiplex circuit
multiplex receiver
multiplex telegraphy
multiplex transmission
multiplex tube
multiplication sign
multiplication table
multiplicative axiom
multiplicative group
multiplicative identity
multiplicative inverse
multiplier channels
multiplier phototube
multiply and replenish the earth
multiply by four
multiply by three
multiply by two
multiplying-glass
multipurpose plane
multipurpose tube
multistage flight
multistage rocket
multistep hydroplane
multivalent vaccine
multum in parvo
mum's the word
mumble-the-peg
mumblety-peg
mumbly-peg
mumbo jumbo
mumbo jumbos
mumbo-jumbo
mummy apple
mummy brown
mummy case
mummy chamber
mummy wheat
mummy-brown
mummy-cloth
mumping day
mumps meningitis
mundane astrology
mundane house
mung bean
municipal bond
municipal building
municipal corporation
municipal engineer
municipal securities
munition armor
munitions of war
munitions plant
mural coronet
mural crown
mural painting
murder en masse
murder the King's English
murder the Queen's English
murder wholesale
murder will out
murderous frenzy
murderous insanity
murexide reaction
murexide test
muriatic acid
murillo bark
murine opossum
murmur diphthong
murphy bed
murphy button
murrhine glass
mus b
muscae volitantes
muscle beach
muscle cell
muscle column
muscle fiber
muscle fibre
muscle in
muscle maker
muscle making
muscle man
muscle plasma
muscle power
muscle sense
muscle tissue
muscle-bound
muscle-bound between the ears
muscle-building
muscle-celled
muscle-kneading
muscle-tired
muscovy duck
muscular disease
muscular dystrophy
musculo-
musculocutaneous nerve
muse on
muse on other things
muse over
muse upon
musette bag
museum beetle
museum piece
mush rot
mush through
mush up
mush-kinu
mushroom anchor
mushroom cloud
mushroom sauce
mushroom system
mushroom-colored
mushroom-grown
mushroom-shaped
music Muses
music arrangement
music box
music buff
music centre
music critic
music director
music division
music drama
music fan
music festival
music form
music hall
music in space
music lover
music lyre
music maker
music notation
music of the spheres
music paper
music passage
music patron
music patrons
music performance
music piece
music program
music roll
music room
music school
music score
music speech
music stand
music style
music theme
music theory
music wire
music-copying
music-drawing
music-flowing
music-footed
music-like
music-loving
music-mad
music-making
music-panting
music-stirring
music-tongued
musica falsa
musica ficta
musica mensurata
musical accent
musical box
musical chairs
musical comedy
musical copy
musical ear
musical flair
musical glasses
musical instrument
musical notation
musical note
musical ornament
musical part
musical passage
musical performance
musical phrase
musical piece
musical program
musical quality
musical revue
musical saw
musical scale
musical score
musical sense
musical sentence
musical sound
musical stage
musical suite
musical talent
musical theater
musical thought
musically inclined
musico-
musicogenic epilepsy
musing on the past
musique concr
musk ambrette
musk bag
musk deer
musk duck
musk hog
musk mallow
musk melon
musk orchid
musk ox
musk parrot
musk plant
musk rose
musk turtle
musk-cat
musk-cod
musk-deer
musk-duck
musk-ox
musk-rat
musk-root
musk-tree
musk-wood
muskeg moss
musket arrow
muskrat weed
muskus grass
muslin clipper
muslin delaine
musquash root
muss up
mussaenda coffee
mussed up
mussel bill
mussel crab
mussel-shell
must item
mustache cup
mustache monkey
mustang grape
mustard and cress
mustard beetle
mustard family
mustard gas
mustard greens
mustard oil
mustard plaster
mustard sauce
mustard seed
mustard-seed coal
muster courage
muster in
muster on
muster out
muster roll
muster up
muster your resources
muster-out
mustering out
mut dash
mutamur in illis
mutated form
mutation fox
mutation mink
mutation pressure
mutation stop
mutatis mutandis
mutato nomine
mute swan
mute witness
muted ecstasy
muth-labben
muto-
mutton bird
mutton cane
mutton chop
mutton chops
mutton grass
mutton snapper
mutton spanker
mutton tallow
mutton-chop
mutton-fish
mutton-head
mutton-legger
muttonchop whiskers
mutual admiration
mutual affinity
mutual agreement
mutual aid
mutual approach
mutual assistance
mutual attraction
mutual company
mutual concession
mutual fund
mutual impedance
mutual inductance
mutual induction
mutual insurance
mutual regard
mutual replacement
mutual repulsion
mutual savings bank
mutual support
mutual supportiveness
mutual transfer
mutual understanding
mutual-defense treaty
mutually approaching
muu-muu
muzzle ring
muzzle velocity
muzzle yourself
muzzle-loader
muzzle-loading
muzzy speech
my Angel-infancy
my Father's house
my boys
my burning youth
my craft and sullen art
my goodness
my green age
my humble self
my love
my nearest and dearest enemy
my stars
my word
my-
myall wood
myasthenia gravis
myc-
myceto-
myco-
mycobacterium paratuberculosis
mydas fly
myel-
myelin sheath
myelo-
myelogenous leukemia
myeloid leukemia
myna bird
mynad-minded
myo-
myocardial infarction
myocardial insufficiency
myoclonous epilepsy
myogen fibrin
myosin fibrin
myosotis blue
myovascular insufficiency
myrcia oil
myria-
myriad-leaf
myriad-leaves
myriad-minded
myricyl alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
myrtle berry
myrtle bird
myrtle grass
myrtle green
myrtle-berry
myrtle-leaved
mystery clock
mystery grass
mystery of mysteries
mystery play
mystery religion
mystery story
mystery tour
mystical experience
mystical intuition
mystical theology
mystico-
mystico-allegoric
mystico-religious
mythical lore
mythical monster
mythical monsters
mythico-
mythico-historical
mythico-philosophical
mythico-romantic
mytho-
myxo-
n number
n'est-ce pas
n-
n-dimensional
n-ple
n-ple
n-jumble
n-tuple
n-tuple linear algebra
n-tuply
n-type
nCi
nF
nW
na zdorov'e
na-dene
nacreous cloud
nag at
nag-tailed
nagaed wood
nagami kumquat
nail bed
nail bit
nail bone
nail brush
nail caster
nail down
nail enamel
nail file
nail filer
nail filing
nail fold
nail hole
nail maker
nail making
nail molder
nail polish
nail puller
nail set
nail up
nail varnish
nail violin
nail water
nail your colors to the mast
nail-bearing
nail-biting
nail-clipping
nail-cutting
nail-head
nail-headed
nail-paring
nail-pierced
nail-shaped
nail-sick
nail-studded
nail-tailed
nailed down
nailer joist
nailhead rust
nailhead spar
nailhead spot
naive realism
nake-footed
naked as a jaybird
naked as a needle
naked as a worm
naked as my nail
naked as the day one was born
naked as the day you were born
naked eye
naked fact
naked floor
naked force
naked ladies
naked oat
naked singularity
naked smut
naked steel
naked to
naked-armed
naked-bladed
naked-eared
naked-eye
naked-eyed
naked-flowered
naked-fruited
naked-seeded
naked-stalked
naked-tailed
nalidixic acid
namas kar
namby-pambical
namby-pambics
namby-pambies
namby-pambiness
namby-pamby
namby-pambyish
namby-pambyism
namby-pambyness
name and address
name day
name for office
name names
name of the game
name over
name part
name plate
name tape
name to conjure with
name-caller
name-calling
name-child
name-day
name-drop
name-dropped
name-dropper
name-dropping
names of
namma hole
nand pearl
nankeen bird
nankeen lily
nanny goat
nanny plum
nanny-goat
nano-
nap hand
napa leather
naphth-
naphtha distiller
naphtha launch
naphthene-base oil
naphthol black
naphthol blue black
naphthol yellow
naphthyl group
naphthyl methyl ketone
naphthyl radical
naphthylamine black
napier's bones
napkin pattern
napkin ring
narcissus fly
narco-
narcotic injection
narcotic shot
narcotic stupor
narcotic trance
narcotico-acrid
narcotico-irritant
narcotics addict
narcotics agent
narcotics pusher
narcotics smuggling
narcotics traffic
nark it
narkul grass
narra amarilla
narra blanca
narra encarnada
narrative poem
narrative poetry
narrow boat
narrow brush
narrow down
narrow escape
narrow gauge
narrow house
narrow margin
narrow means
narrow place
narrow seas
narrow squeak
narrow sympathies
narrow the gap
narrow views
narrow-backed
narrow-billed
narrow-bladed
narrow-brained
narrow-breasted
narrow-celled
narrow-chested
narrow-crested
narrow-ended
narrow-eyed
narrow-faced
narrow-fisted
narrow-gage
narrow-gauge
narrow-gauged
narrow-guage
narrow-guaged
narrow-headed
narrow-hearted
narrow-hipped
narrow-jointed
narrow-laced
narrow-leaved
narrow-leaved oat grass
narrow-meshed
narrow-minded
narrow-mindedly
narrow-mindedness
narrow-mouthed
narrow-mouthed toad
narrow-necked
narrow-nosed
narrow-petaled
narrow-rimmed
narrow-seeded
narrow-shouldered
narrow-shouldred
narrow-skulled
narrow-souled
narrow-spirited
narrow-spiritedness
narrow-streeted
narrow-throated
narrow-toed
narrow-visioned
narrow-waisted
narrowing gap
nary one
nas-
nasal accent
nasal bone
nasal cavity
nasal concha
nasal discharge
nasal gleet
nasal index
nasal tone
nasal twang
nascent condition
nascent state
nash-gab
naso-
nasolacrimal duct
nastic movement
nasturtium family
nasturtium red
nasturtium yellow
nasty blow
nasty crack
nasty look
natal day
natch-bone
nation hood
nation-state
national accounting
national anthem
national assembly
national assistance
national bank
national bank note
national blue
national cemetery
national chairman
national church
national code
national convention
national debt
national economy
national emergency
national flag
national forest
national guard
national holiday
national honor
national income
national insurance
national language
national leader
national leadership
national literature
national militia
national monument
national newspaper
national park
national product
national school
national service
national socialism
national style
native Australian
native bear
native cleverness
native companion
native dextran
native environment
native land
native language
native metals
native millet
native mineral
native oak
native peach
native soil
native speaker
native speech
native tendency
native timothy
native to
native to the heath
native to the place
native to the soil
native tongue
native wit
native-born
native-born citizenship
native-bornness
natura non facit saltum
natural affection
natural aids
natural astrology
natural child
natural childbirth
natural classification
natural color
natural death
natural development
natural dye
natural dyestuff
natural endowment
natural fiber
natural gas
natural gender
natural geometry
natural gift
natural growth
natural harbor
natural hierarchy
natural history
natural idiot
natural immunity
natural impulse
natural instinct
natural language
natural law
natural levee
natural logarithm
natural magic
natural man
natural mineral
natural minor
natural number
natural person
natural philosopher
natural philosophy
natural politeness
natural radioactivity
natural realism
natural realist
natural religion
natural resources
natural right
natural rights
natural rubber
natural science
natural scientist
natural selection
natural state
natural tendency
natural theology
natural to
natural varnish
natural virtue
natural virtues
natural wit
natural world
natural-born
natural-born fool
naturalis possessio
naturalistic description
naturalistic fallacy
naturalistic humanism
naturalized citizen
naturalized citizenship
nature book
nature cure
nature deity
nature in the raw
nature myth
nature philosopher
nature philosophy
nature printing
nature spirit
nature strip
nature study
nature trail
nature worship
nature worshiper
nature's nobleman
nature-print
nature-printing
naughty child
naughty pack
naughty word
nautch dance
nautch girl
nautical chain
nautical day
nautical mile
naval academy
naval air station
naval aircraft
naval architecture
naval auxiliary
naval bomber
naval brass
naval cadet
naval college
naval combat
naval crown
naval engineer
naval fighter
naval forces
naval intelligence
naval interceptor
naval medicine
naval militia
naval mine
naval officer
naval operations
naval pilot
naval pipe
naval reserve
naval school
naval stores
naval vessel
naval vessels
naval warfare
naval-intelligence man
navel ill
navel orange
navel pipe
navel point
navel-shaped
navigable airspace
navigable river
navigable semicircle
navigate in space
navigating bridge
navigating bridge deck
navigating officer
navigation act
navigation and ranging
navigation light
navigation lights
navigation of empty space
navigation radius
navigation weir
navigational satellite
navigator's bubble
navigator-bombardier trainer
navy agent
navy bean
navy bill
navy blue
navy board
navy cross
navy cut
navy green
navy league
navy leaguer
navy man
navy plug
navy unit
navy yard
nay rather
nay-say
naya paisa
naye paise
ne exeat
ne plus ultra
ne'er a
ne'er a one
ne'er-do-well
ne'er-dos
ne-
neanderthal man
neap tide
near and far
near as the bark on a tree
near at hand
near beer
near by
near death
near duplicate
near east
near enough to
near future
near go
near hand
near likeness
near miss
near point
near relation
near rhyme
near side
near squeak
near the ground
near the limen of hearing
near the mark
near the surface
near the threshold of hearing
near the wind
near thing
near to
near upon
near your end
near your heart
near-
near-acquainted
near-adjoining
near-at-hand
near-blindness
near-bordering
near-by
near-colored
near-coming
near-dwelling
near-fighting
near-following
near-growing
near-guessed
near-hand
near-legged
near-miss
near-point
near-related
near-resembling
near-sight
near-sighted
near-silk
near-smiling
near-stored
near-threatening
near-touching
near-ushering
near-white
nearly die laughing
nearly duplicate
nearly duplicated
nearly replicate
nearly replicated
nearly reproduce
nearly reproduced
nearly the same
neat as a button
neat as a pin
neat as wax
neat house
neat line
neat price
neat profit
neat soap
neat weight
neat's foot
neat's leather
neat's tongue
neat's-foot oil
neat-ankled
neat-dressed
neat-faced
neat-fingered
neat-folded
neat-footed
neat-handed
neat-handedly
neat-handedness
neat-house
neat-limbed
neat-looking
neb-neb
nebula of Lyra
nebula of Orion
nebular hypothesis
nebulous stars
necessary condition
necessary stool
necessity money
necessity's sharp pinch
neck and crop
neck and heels
neck and neck
neck canal cell
neck cell
neck cord
neck deep
neck handkerchief
neck journal
neck molding
neck of the woods
neck or nothing
neck rot
neck strap
eck sweetbread
neck verse
neck yoke
neck-and-neck race
neck-band
neck-beef
neck-bone
neck-break
neck-breaking
neck-cracking
neck-deep
neck-fast
neck-high
neck-hole
neck-piece
neck-rein
neck-stretching
neck-tie
neck-verse
necklace orchid
necklace poplar
necklace tree
necktie party
necktie sociable
necr-
necro-
necrotic enteritis
necrotic inflammation
necrotic tissue
nectar bird
nectar of the gods
nectar-bearing
nectar-breathing
nectar-dropping
nectar-breathing
nectar-loving
nectar-secretion
nectar-seeking
nectar-spouting
nectar-streaming
nectar-tongued
need clarification
need doing
need explanation
need for
need must
need no explanation
need no prodding
need to
need translation
need-be
need-not
needle bath
needle beam
needle bearing
needle blight
needle bug
needle bush
needle cast
needle chervil
needle dam
needle diatom
needle file
needle fir
needle furze
needle girder
needle gorse
needle grass
needle grinder
needle grinding
needle gun
needle holder
needle ironstone
needle juniper
needle lace
needle loom
needle maker
needle ore
needle palm
needle point
needle pointer
needle scar
needle spar
needle spike rush
needle telegraph
needle time
needle tooth
needle trade
needle valve
needle weir
needle whin
needle-and-ball indicator
needle-and-thread
needle-bar
needle-billed
needle-fish
needle-form
needle-gun
needle-leaved
needle-made
needle-nosed
needle-point
needle-pointed
needle-scarred
needle-shaped
needle-sharp
needle-witted
needle-nose pliers
needs must
needs-be
needy, the
neel-bhunder
neer-do-well
negation-proof
negative acceleration
negative answer
negative attitude
negative catalyst
negative electricity
negative feedback
negative flag
negative geotropism
negative glow
negative hallucination
negative income tax
negative ion
negative lens
negative misprision
negative polarity
negative pole
negative reinforcement
negative resistance
negative sign
negative tax
negative taxis
negative transfer
negative transference
negative tropism
negative valence
negative-pole
negative-raising
neglect the opportunity
neglected-looking
negotiable bond
negotiable instrument
negotiable instruments
negotiable note
negotiable paper
negotiable securities
negotiate a loan
negotiate a peace
negro corn
negro-head
negrohead beech
neiges d'antan
neighborhood house
neighborhood newspaper
neither fish
neither fish nor fowl
neither here nor there
neither hide nor hair
neither hot nor cold
neither more nor less
neither nobility nor clergy
neither one thing nor the other
nem con
nemat-
nematode worm
nemean lion
nemine contradicente
nemine dissentiente
nemo me impune lacessit
neo-
neo-Catholic
neo-Celtic
neo-Christianity
neo-Darwinian
neo-Darwinism
neo-Darwinist
neo-Gothic
neo-Greek
neo-Hippocratic medicine
neo-Plasticism
neo-Platonician
neo-Roman
neo-Sanskrit
neo-Sanskritic
neo-Scholastic
neo-Scholasticism
neo-Sogdian
nerve ending
nerve fiber
nerve fibre
nerve gas
nerve impulse
nerve net
nerve ring
nerve sheath
nerve stretching
nerve trunk
nerve yourself
nerve-ache
nerve-celled
nerve-cutting
nerve-deaf
nerve-deafness
nerve-destroying
nerve-irritating
nerve-jangling
nerve-racked
nerve-racking
nerve-rendering
nerve-ridden
nerve-shaken
nerve-shaking
nerve-shattering
nerve-stretching
nerve-tingling
nerve-trying
nerve-winged
nerve-wracking
nerves of steel
nerves on edge
nervo-
nervous as a cat
nervous breakdown
nervous disorder
nervous exhaustion
nervous nellie
nervous prostration
nervous stomach
nervous strain
nervous system
nervous tension
nervous wreck
nest box
nest egg
nest fungus
nest of drawers
nest-building
nest-egg
nestle-cock
net area
net assets
net blotch
net domestic product
net earnings
net fixer
net income
net interest
net line
net national product
net necrosis
net pay
net plankton
net price
net profit
net receipts
net register ton
net register tonnage
net silk
net tare
net ton
net tonnage
net tracery
net valuation
net value
net wages
net weaver
net weight
net worth
net-fashion
net-tender
net-veined
net-winged
nether cheeks
nether regions
nether side
nether vert
nether world
nether world diety
nethermost layer
nethermost level
nethermost stratum
neti neti
netted melon
netted-veined
nettie-wife
netting knot
nettle butterfly
nettle cell
nettle cloth
nettle creeper
nettle family
nettle geranium
nettle hemp
nettle potato
nettle rash
nettle tree
nettle-cloth
nettle-leaved
nettle-rough
nettle-stung
nettle-tree
nettling cell
network affiliations
network pulser
network show
network stations
neufchatel cheese
neur-
neural arch
neural axis
neural canal
neural cavity
neural crest fold
neural gland
neural groove
neural lamina
neural plate
neural process
neural shield
neural spine
neural tube
neuraminic acid
neuro-
neurocirculatory asthenia
neurogenic shock
neurological disease
neuromotor apparatus
neuron doctrine
neurotic disorder
neurotic personality
neurotic-depressive reaction
neuter passive
neuter verb
neutral acriflavine
neutral atom
neutral axis
neutral color
neutral corner
neutral ground
neutral monist
neutral point
neutral position
neutral red
neutral spirits
neutral territory
neutral tint
neutral zone
neutral-tinted
neutralist nation
neuto-
neutron bomb
neutron factory
neutron number
neutron reaction
neutron star
never a one
never be forgotten
never cease
never die
never end
never fear
never feel better
never finish
never forget
never free from
never hear the last of
never idle
never in all your born days
never in my life
never in the world
never let go
never let on
never mind
never nod
never on earth
never on time
never otherwise
never pass
never say die
never sleep
never so
never stoop
never to be erased from the mind
never to be forgotten
never to return
never touch
never-ceasing
never-ceasingly
never-certain
never-changing
never-conquered
never-constant
never-daunted
never-dead
never-dietree
never-dying
never-ended
never-ending
never-endingly
never-endingness
never-fading
never-failing
never-lasting
never-needed
never-never
never-never country
never-never land
never-quenching
never-ready
never-resting
never-resting thing called Time
never-satisfied
never-say-die
never-setting
never-shaken
never-silent
never-sleeping
never-smiling
never-stable
never-strike
never-swerving
never-tamed
never-tiring
never-to-be-equaled
never-trodden
never-twinkling
never-vacant
new phase
new philharmonic pitch
new planets
new realism
new sense
new slant
new style
new term
new testament
new theology
new thought
new to
new town
new twist
new wave
new wine
new wine in old bottles
new wool
new word
new world
new wrinkle
new year
new year's day
new yorker
new zealander
new-admitted
new-apparel
new-array
new-awaked
new-begotten
new-bladed
new-bloomed
new-blown
new-born
new-built
new-coined
new-come
new-create
new-cut
new-day
new-fallen
new-fashion
new-fashioned
new-fire method
new-fledged
new-found
new-front
new-furbish
nibby-jibby
nice Nelly
nice body
nice distinction
nice ear
nice going
nice guy
nice nellie
nice piece of work
nice predicament
nice-Nellie
nice-Nellyism
nice-nelly
nice-nellyism
nicene creed
niceness of distinction
niche in the hall of fame
nicht wahr
nick of time
nick-eared
nick-nack
nickel acetate
nickel bloom
nickel bronze
nickel calciner
nickel carbonyl
nickel glance
nickel gray
nickel green
nickel gymnite
nickel monoxide
nickel ocher
nickel oxide
nickel plate
nickel protoxid
nickel sesquioxide
nickel silver
nickel steel
nickel tetracarbonyl
nickel-cadmium battery
nickel-iron accumulator
nickel-plate
nickel-plated
nickelic oxide
nickelous oxide
nicker nut
nicker tree
nicker-tree
nicotine addict
nicotine addiction
nicotine sulphate
nicotinic acid
nicotinic acid amide
nictitating membrane
nid-nod
niddle-noddle
niddy-noddy
nieve penitente
nievie-nievie-nick-nack
niff-naff
niff-naffy
nify-naffy
niger oil
niger seed
nigger bug
nigger chaser
nigger chub
nigger daisy
nigger heaven
nigger pine
nigger toe
niggerhead cactus
nigh about
nigh by
nigh hand
nigh on
nigh onto
nigh side
nigh-destroyed
nigh-drowned
nigh-ebbed
nigh-hand
nigh-naked
nigh-past
nigh-spent
night adder
night and day
night ape
night bird
night blindness
night blue
night bolt
night cart
night chair
night clothes
night cloud
night sparrow
night spell
night spot
night steed
night stick
night sweat
night table
night terror
night vision
night warbler
night watch
night watcher
night watches
night watching
night watchman
night willow herb
night-bird
night-black
night-blind
night-blindness
night-blooming
night-blooming cereus
night-blowing
night-born
night-bringing
night-cap
night-cellar
night-cheering
night-clad
night-cloaked
night-clothes
night-club
night-clubbed
night-clubbing
night-contending
night-cradled
night-crow
night-dark
night-decking
night-dispersing
night-dress
night-enshrouded
night-eyed
night-fallen
night-faring
night-feeding
night-filled
night-flowering
night-fly
night-flying
night-folded
night-foundered
night-gaping
night-glass
night-gown
night-grown
night-hag
night-haired
night-haunted
night-hawk
night-heron
night-hid
night-light
night-long
night-mantled
night-night
night-overtaken
night-owl
night-piece
night-prowling
night-rail
night-raven
night-riding
night-robbing
night-robe
night-robed
night-rolling
night-scented
night-season
night-shift
night-shining
night-shirt
night-singing
night-spell
night-straying
night-struck
night-swaying
night-swift
night-swollen
night-tide
night-time
night-traveling
night-tripping
night-veiled
night-walker
night-wandering
night-warbling
night-watch
night-watching
night-watchman
night-work
nightclub habitue
nightshade family
nighty-night
nigrosine spirit-soluble
nigrosine water-soluble
nigrospora cob rot
nihil ad rem
nihil album
nihil debet
nihil dicit
nihil ex nihilo
nihil habet
nihil obstat
nihilistic delusion
niku-bori
nil admirari
nil desperandum
nil nisi bonum
nil sine numine
nile green
nilly-willy
nilpotent algebra
nim tree
nimble mind
nimble will
nimble wit
nimble-eyed
nimble-feathered
nimble-fingered
nimble-footed
nimble-headed
nimble-heeled
nimble-jointed
nimble-mouthed
nimble-moving
nimble-pinioned
nimble-shifting
nimble-spirited
nimble-stepping
nimble-tongued
nimble-toothed
nimble-winged
nimble-witted
nimble-wittedness
nimbus cloud
niminy-pimininess
niminy-piminy
niminy-piminyism
nimmy-pimmy
nimonic alloy
nine days' wonder
nine o'clock
nine points of the law
nine-banded
nine-banded armadillo
nine-circled
nine-cornered
nine-day
nine-eyed
nine-eyed eel
nine-eyes
nine-foot
nine-hole
nine-holes
nine-hour
nine-inch
nine-jointed
nine-killer
nine-knot
nine-lived
nine-mile
nine-part
nine-part measure
nine-part time
nine-ply
nine-point
nine-point circle
nine-pound
nine-pounder
nine-power
nine-share
nine-shilling
nine-spined
nine-spined stickleback
nine-spot
nine-spotted
nine-syllabled
nine-tailed
nine-tenths
nine-voiced
nine-word
nine-year
ninepenny morris
ninepin block
nineteenth hole
nineteenth man
ninety-acre
ninety-day
ninety-day wonder
ninety-eight
ninety-eighth
ninety-eighth
ninety-fifth
ninety-first
ninety-five
ninety-four
ninety-fourth
ninety-hour
ninety-mile
ninety-nine
ninety-ninth
ninety-one
ninety-second
ninety-seven
ninety-seventh
ninety-six
ninety-sixth
ninety-third
ninety-three
ninety-ton
ninety-two
ninety-word
ninny-hammer
ninth chord
ninth cranial nerve
ninth-born
ninth-built
ninth-class
ninth-formed
ninth-hand
ninth-known
ninth-mentioned
ninth-rate
ninth-told
niobic acid
nip and tuck
nip at the heels of
nip in the bud
nip in the head
nip off
nip through
nip up
nip-up
nipa alcohol
nipa sugar
nipped at
nipped waist
niper crab
nipperty-tipperty
nipping wind
nipple cactus
nippy wind
nirvana principle
nisi prius
nisi prius court
nisi-prius
nissen hut
nissuee trout
nit grass
nit-grass
nit-picking
niter cake
niter-blue
nitr-
nitramino group
nitramino radical
nitric acid
nitric bacteria
nitric bacterium
nitric ether
nitric oxide
nitride process
nitriding steel
nitrile base
nitrile rubber
nitro compound
nitro group
nitro powder
nitro radical
nitro-
nitro-cellulose
nitro-cotton
nitro-hydro-carbon
nitrogen balance
nitrogen chloride
nitrogen cycle
nitrogen dioxide
nitrogen equilibrium
nitrogen family
nitrogen fixation
nitrogen fixer
nitrogen iodide
nitrogen monoxide
nitrogen mustard
nitrogen narcosis
nitrogen oxide
nitrogen pentoxide
nitrogen peroxide
nitrogen tetroxide
nitrogen trioxide
nitrogen-fixing
nitrogen-free
nitrohydrochloric acid
nitroso-
nitroso group
nitroso radical
nitrosyl chloride
nitrosylsulfuric acid
nitrous acid
nitrous bacteria
nitrous bacterium
nitrous ether
nitrous oxide
nitroxanthic acid
nitta tree
nitty-gritty
nitty-gritty, the
njave butter
njave oil
no alternative
no ball
no beauty
no better than she should be
no better than you should be
no buts about it
no catch
no chance
no charge
no chicken
no choice
no claim
no conjuror
no contest
no credit to
no depth
no dice
no difference
no doubt
no dumbbell
no ear
no end
no end of
no end of a fellow
no end to
no exit
no expectation
no fear
no few
no fine print
no fine print at the bottom
no flies on
no go
no great matter
no great shakes
no holds barred
no hope
no ifs
no ifs, ands, or buts
no joke
no joker
no joker in the deck
no kicker
no laughing matter
no less
no less than
no longer among us
no longer present
no longer with us
no love lost
no ma'am
no man
no man's land
no matter
no matter how
no matter what
no matter when
no matter which
no matter who
no mean
no mo
no modest violet
no more
no more and no less
no more beyond
no nearer
no nerves
no one
no onenobody
no other
no picnic
no place higher
no prize
no room for error
no room to swing a cat
no say
no scholar
no sir
no sirree
no skin off your back
no skin off your elbow
no skin off your nose
no slouch
no small print
no soap
no sooner said than done
no stranger to
no strings
no strings attached
no such a thing
no such thing
no sweat
no time
no time at all
no time to be lost
no title
no two ways about it
no use
no water
no way
no way out
no whit
no-account
no-ball
no-being
no-bottom sounding
no-claim bonus
no-claims bonus
no-count
no-deposit
no-deposit-no-return
no-eye pea
no-fault
no-fault insurance
no-go
no-go area
no-go gauge
no-good
no-hit
no-hitter
no-hoper
no-load fund
no-man's-land
no-no
no-nonsense
no-one
no-par
no-par stock
no-par-value
no-place
no-rent land
no-show
no-side
no-surrender
no-system
no-thoroughfare
no-tillage
no-trump
no-trumper
noan's ark
nobel prize
nobiliary particle
noble ambition
noble art
noble art of self-defense
noble birth
noble experiment
noble fir
noble gas
noble metal
noble metals
noble opal
noble rank
noble rank or birth
noble savage
noble-born
noble-couraged
noble-featured
noble-fronted
noble-looking
noble-minded
noble-mindedly
noble-mindedness
noble-natured
noble-spirited
noble-tempered
noble-visaged
noblesse d'epee
noblesse de robe
noblesse oblige
nobody home
nobody knows
nobody on earth
nobody one knows
nobody present
nobody special
nobody the wiser
nobody under the sun
nobody's fool
nobody's patsy
nobody's sucker
nocking point
noct-
nocti-
nocturnal arc
nocturnal epilepsy
nod assent
nod of assent
nod off
nod to
nod to its fall
nod to your fall
nodal point
nodding acceptance
nodding acquaintance
nodding cap
nodding lilac
nodding to its fall
nodding trillium
noddly tern
node house
node longitude
node of Ranvier
nodi-
nodical month
nodule disease
noise about
noise abroad
noise and shouting
noise factor
noise field intensity
noise figure
noise interference
noise limiter
noise pollution
noise suppressor
noise-canceling microphone
noiseless foot of Time
noisette brown
nol pros
nol-pros
nol-prossed
nol-prossing
nolens volens
noli me tangere
noli-me-tangere
noll-kholl
nolle prosequi
nolo contendere
nom de guerre
nom de plume
nom de theatre
nombril point
nomen nudum
nominal charge
nominal damages
nominal head
nominal partner
nominal price
nominal rate
nominal value
nominal wages
nominating convention
nomination borough
nomination in the race
nominative absolute
nominative of address
nomo-
noms de guerre
non avenu
non compos
non compos mentis
non est
non est inventus
non licet
non liquet
non nobis
non obst
non obstante
non placet
non plus
non plus ultra
non possumus
non pros
non prosequitur
non rep
non repetatur
non seq
non sequitur
non troppo
non ultra
non-
non-African
non-Alexandrian
non-American
non-Anglican
non-Arab
non-Arabic
non-Aryan
non-Asian
non-Asiatic
non-Attic
non-Bantu
non-Baptist
non-Biblical
non-Biblically
non-Bolshevik
non-Bolshevism
non-Bolshevist
non-Bolshevistic
non-Brahmanic
non-Brahmanical
non-Brahminic
non-Brahminical
non-British
non-Buddhist
non-Buddhistic
non-Calvinist
non-Calvinistic
non-Calvinistical
non-Catholic
non-Caucasian
non-Caucasic
non-Caucasoid
non-Celtic
non-Chaucerian
non-Chinese
non-Christian
non-Congregational
non-Congressional
non-Cymric
non-Czech
non-Czechoslovakian
non-Danish
non-Darwinian
non-Druid
non-Egyptian
non-English
non-Episcopalian
non-Euclidean
non-Euclidean geometry
non-European
non-Flemish
non-French
non-Gaelic
non-German
non-Germanic
non-Gothic
non-Gothically
non-Greek
non-Gypsies
non-Gypsy
non-Hamitic
non-Hebraic
non-Hebraically
non-Hebrew
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non-Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelitic
non-Israelith
non-Italian
non-Italic
non-Japanese
non-Jew
non-Jewish
non-Kaffir
non-Latin
non-Lutheran
non-Magyar
non-Malay
non-Malayan
non-Malthusian
non-Mediterranean
non-Mendelian
non-Methodist
non-Methodistic
non-Mohammedan
non-Mongol
non-Mongolian
non-Mormon
non-Moslem
non-Moslems
non-Muhammadan
non-Muhammedan
non-Muslem
non-Muslems
non-Muslim
non-Muslims
non-Negritic
non-Negro
non-Negroes
non-Newtonian
non-Nicene
non-Nordic
non-Norman
non-Norse
non-Oscan
non-Parisian
non-Peruvian
non-Polish
non-Portuguese
non-Presbyterian
non-Protestant
non-Prussian
non-Quaker
non-Quakerish
non-Roman
non-Russian
non-Sabbatic
non-Sabbatical
non-Sabbatically
non-Sanskritic
non-Saxon
non-Scandinavian
non-Semite
non-Semitic
non-Shakespearean
non-Shakespearian
non-Slavic
non-Spanish
non-Spartan
non-Stoic
non-Swedish
non-Swiss
non-Syrian
non-Tartar
non-Teuton
non-Teutonic
non-Trinitarian
non-Turk
non-Turkic
non-Turkish
non-Tuscan
non-U
non-Ukrainian
non-Umbrian
non-Unitarian
non-Uralian
non-Vedic
non-Venetian
non-Virginian
non-Welsh
non-White
non-Zionist
non-ability
non-access
non-appearance
non-arcking
non-assumpsit
non-attendance
non-claim
non-co-operate
non-co-operation
non-co-operationist
non-co-operative
non-co-operator
non-co-ordination
non-coll
non-collegiate
non-com
non-combatant
non-commissioned
non-committal
non-communicant
non-compounder
non-con
non-condensing
non-conductor
non-contagion
non-content
non-contradiction
non-effective
non-efficient
non-ego
non-elect
non-electric
non-ens
non-essential
non-euclidean
non-existence
non-existent
non-feasance
non-gremial
non-importation
non-intercourse
non-interference
non-intervention
non-intrusion
non-iron
non-joinder
non-jurant
non-juring
non-juror
non-jury
non-literate
non-member
non-metal
non-moral
non-natty
non-natural
non-necessity
non-noble
non-obedience
non-payment
non-performance
non-placet
non-proficiency
non-profit-making
nondestructive testing
nondirectional antenna
nondirectional microphone
nondirective therapy
nondischarge of debts
nondrying oil
none else
none of your business
none other
none to spare
none too soon
none-so-pretties
none-so-pretty
nonfat dry milk
nonfat milk
nonfiction prose
nonfiction writer
nonfilterable virus
nonforfeiture benefit
nonforfeiture law
nonforfeiture value
nonfunctional addition
nongraded school
nonharmonic tone
nonionic detergent
nonlinear calibrations
nonlinear system
nonliving matter
nonmalignant tumor
nonmaterial culture
nonmedical therapist
nonmedical therapy
nonmember bank
nonnative citizen
nonnegotiable bond
nonnegotiable demand
nonnuclear weapons
nonny-nonny
nonordained persons
nonorganic matter
nonpartisan ballot
nonpartisan election
nonpartisan primary
nonprescription drug
nonprone to disease
nonproneness to disease
nonprovided school
nonre-eligibility
nonre-eligible
nonrestrictive clause
nonreversible reaction
nonsanctioned behavior
nonscheduled airline
nonself-governing
nonsense talk
nonsense verse
nonsex-linked
nonsinusoidal circuit
nonskid tire
nonspecific immunity
nonspecific therapy
nonspore-forming
nonstandard language
nonstandard speech
nonsusceptibility to disease
nonsusceptible to disease
nontransferable vote
nontuple time
nonunion shop
nonvalue bill
nonverbal communication
nonvintage wine
nonviolent change
nonviolent protest
nonviolent resistance
nonvolatile oil
nonvoting stock
nonyl alcohol
noodle-head
noogoora bur
nook shaft
nook-shotten
noon-light
noonday light
noonday night
noontide light
nor flesh
nor good red herring
nor nee
nor yet
nor'-west
nor'-wester
nor-
nor-noreast
norfolk howard
norfolk jacket
norm of perfection
normal atom
normal axis
normal barrage
normal curve
normal distribution
normal divisor
normal equivalent deviate
normal landing
normal load
normal loop
normal magnification
normal matrix
normal orthogonal
normal pentane
normal pitch
normal saline solution
normal school
normal series
normal spin
normal tax
normal unemployment
normalized text
norman architecture
norman-french
normative system
normed conjugate
normed space
north about
north briton
north by east
north by west
north celestial pole
north country
north germanic
north mark
north pole
north sea
north shore
north side
north star
north wind
north-countriness
north-countryman
north-east
north-easter
north-easterly
north-eastern
nose bag
nose bit
nose cone
nose count
nose dive
nose down
nose drops
nose ender
nose flute
nose glasses
nose guard
nose hitch
nose into
nose iron
nose key
nose leaf
nose out
nose over
nose peg
nose pipe
nose radiator
nose rag
nose ring
nose stiffener
nose to nose
nose to nose with
nose turret
nose up
nose wheel
nose-bag
nose-band
nose-belied
nose-bleed
nose-dive
nose-dived
nose-diving
nose-dove
nose-grown
nose-heavy
nose-high
nose-leafed
nose-led
nose-nippers
nose-piece
nose-piercing
nose-pipe
nose-pulled
nose-ring
nose-shy
nose-smart
nose-thirl
nose-thumbing
nose-tickling
nose-up
nose-wise
nosee-um
nosegay tree
nosewheel undercarriage
nosey Parker
nosh-up
noso-
nostalgia for the past
nosy Parker
nosy parker
not a Chinaman's chance
not a bad idea
not a bit
not a bit alike
not a bit of difference
not a bit of it
not a blessed one
not a blessed soul
not a breath of air
not a chance
not a dream
not a few
not a hint
not a jot
not a jot or tittle
not a leaf stirring
not a lick
not a lick or smell
not a little
not a mite
not a one
not a particle
not a patch on
not a pin to choose
not a prayer
not a scrap
not a shadow of a suspicion
not a single one
not a single person
not a smidgen
not a smitch
not a snowball's chance in hell
not a soul
not a speck
not a stitch
not a stitch to your back
not a stitch to your name
not a suspicion
not a trace
not a whit
not abide
not absolutely
not accept
not accept compromise
not accept defeat
not accomplish
not accord with
not add up
not admit
not affordable
not agree
not all there
not allow
not allow yourself to believe
not allowed
not amiss
not amount to a damn
not amount to a hill of beans
not amount to anything
not an illusion
not an iota
not another peep out of you
not another word
not answer
not anticipate
not anticipated
not any
not appreciate
not approach
not approve
not as young as you used to be
not at all
not at any price
not at issue
not attend
not back down
not bad
not bargain for
not bat an eye
not bat an eyelash
not be a bit surprised
not be able
not be able to abide
not be able to account for
not be able to bear
not be able to dispense with
not be able to do without
not be able to down
not be able to endure
not be able to say much for
not be able to sit down
not be able to stand still
not be able to swallow
not be able to abide
not be affected by
not be all there
not be at home to
not be behindhand
not be born yesterday
not be caught flatfooted
not be content with
not be entitled to
not be found
not be good for
not be in existence
not be in it
not be in pigtails
not be in your right mind
not be likely
not be met with
not be on speakers
not be on speaking terms
not be on time
not be ready
not be right in the head
not be surprised
not be taken in by
not be too visible
not be up to
not be versed
not be with it
not bear
not bear inspection
not bear with
not beat about the bush
not believe
not believe your ears
not believe your eyes
not believe your senses
not believed
not blink an eye
not boggle at anything
not born yesterday
not breathe
not breathe a word
not bright
not brook
not budge
not budge an inch
not butt in
not buy
not by a damn sight
not by a darn sight
not by a long chalk
not by a long shot
not by a long sight
not by any means
not care
not care a damn
not care a straw about
not care for
not care if you do
not care much for
not care to
not catching
not change
not charmed
not choke on
not come
not come amiss
not come near
not come off
not come to grips with
not come to the point
not come up to
not come up to expectation
not come up to par
not come up to scratch
not come up to the mark
not coming
not comparable
not comparable to
not compare
not compare with
not comply
not comprehensively
not concern
not condone
not conform
not connect with
not consent
not consider
not considerate
not considered
not convey anything
not cost anything
not count
not count the cost
not countenance
not counting
not crack a smile
not cricket
not cry over spilled milk
not cut it
not cut out for
not cut the mustard
not dare to show your face
not deep
not deep enough to float a match
not deny
not deserving belief
not destroy
not do
not do by halves
not do justice to
not done
not dry behind the ears
not easy
not eat
not either
not endanger
not endure
not enough
not enough to count
not enough to matter
not enter your head
not enter your mind
not equal to
not ever
not exhaustively
not exist
not expect
not expend
not expose yourself
not face up to
not fail
not fair
not fall for
not far
not far from
not far off
not fast
not feel like
not feel like anything
not figure
not fill the bill
not find it in your heart to
not find your way to first base
not firm
not fit for man or beast
not fit for mixed company
not fit to be seen
not fit to drink
not fit to eat
not flag
not flinch from
not following
not for attribution
not for love or money
not for publication
not for release
not for the life of me
not for the record
not for the world
not foresee
not forget
not found
not gag on
not get all choked up over
not get along
not get involved
not get involved in
not get off base
not get out of line
not get to first base
not give
not give a damn
not give a damn about
not give a dime a dozen for
not give a hoot
not give a hoot for
not give a shit
not give a shit for
not give a thought to
not give away
not give it a second thought
not give it another thought
not give two hoots for
not give up
not give up the ship
not go along with
not go for
not go off the deep end
not go on all fours with
not go out on a limb
not go too far
not good enough
not guesswork
not guilty
not hack it
not half
not half a chance
not half bad
not half of
not hard
not hard to look at
not hardly
not harken
not have
not have a Chinaman's chance
not have a chance
not have a dry thread
not have a leg to stand on
not have a moment to spare
not have a penny
not have a prayer
not have a sou
not have a word to say
not have all your buttons
not have all your marbles
not have any part of
not have anything to do with
not have idea one
not have it
not have it in one
not have the first idea
not have the foggiest
not have the heart
not have the heart to
not have the knack
not have the least idea
not have the remotest idea
not have the stomach for
not have the stomach to
not have time
not having all one's marbles
not having any
not hear a word
not hear of
not heed
not held against one
not held against you
not here
not hesitate
not hesitate to
not hold a candle to
not hold back
not hold it against one
not hold it against you
not hold together
not hold up
not hold up in the wash
not hold water
not hold with
not hold your breath
not if I can help it
not if I know it
not if you can help it
not implicate
not imply
not in donkey's years
not in error
not in it
not in keeping with
not in residence
not in the habit of
not in the least
not in the mood
not in the picture
not in the same street with
not in your right mind
not included
not infrequently
not interfere
not involve
not involve yourself
not keep
not keep faith with
not kid yourself
not know
not know any better
not know any of the answers
not know beans
not know chalk from cheese
not know from A to B
not know from Adam
not know how
not know someone from Adam
not know the first thing about
not know the half of it
not know the score
not know the time of day
not know the way home
not know up from down
not know what it is all about
not know what o'clock it is
not know what to make of
not know what you are about
not know what's what
not know when to stop
not know when you are beaten
not know where you stand
not know which way is up
not know which way to turn
not know your interest
not know your own mind
not known
not kosher
not leave a leg to stand on
not let a word escape one
not let a word escape you
not let go
not let it get you down
not let it go further
not let out a peep
not lift a finger
not lift a hand
not like
not likely
not listen
not live to eat
not live up to expectation
not long ago
not look back
not look backward
not look for
not look like
not lose a moment
not lose sight of
not lying down
not make an issue of
not make any difference
not make head or tail of
not make heads or tails of
not make it
not make out
not make sense
not make static
not make the course
not make the grade
not make waves
not many
not matter
not matter to
not mean a thing
not measure up
not measure up to expectation
not measuring up
not meddle
not meddle with
not meriting belief
not mince words
not mind
not mind if you do
not mind your business
not miss a trick
not move a foot
not moving
not much
not much for looks
not much of a bargain
not much to boast of
not much to look at
not nearly
not new
not notice
not observe
not occur
not of the earth
not of this world
not often
not on speaking terms
not on the job
not on your life
not one
not open your mouth
not opinion
not oppose
not outstanding
not overlook a bet
not pass
not pass muster
not pay
not penetrate
not perfect
not permit
not permitted
not play fair
not possible
not present
not pretend to say
not proceed with
not proved
not proven
not pull fair
not pull your punches
not pursue with
not put a foot wrong
not put it past
not put up with
not qualify
not quite
not quite right
not rare
not reach
not reach to
not real
not realize your expectations
not really
not receive
not refuse
not register
not relate to
not relax
not relax your concern
not remember
not resemble
not resist
not respectable
not rest
not right
not right in the head
not rightly know
not ring any bells
not ring true
not rock the boat
not say 'boo'
not say a word
not see
not see an inch beyond your nose
not see beyond your nose
not see the wood for the trees
not seldom
not show up
not shrink from
not shut your eyes
not signify
not singular
not slacken
not sleep a wink
not so
not so bad
not so dumb
not so many
not so much
not so you could tell it
not spare the horses
not speak well of
not square
not square with
not stand a chance
not stand for
not stand on ceremony
not stand up
not standard
not stick your neck out
not stir
not stir a step
not stomach
not stop to think
not stretch
not strike your colors
not subject to call
not submit
not suffer
not suffice
not surprised
not swallow
not sweat it
not take
not take 'no' for an answer
not take care of
not take it as a joke
not take kindly to
not take lying down
not take upon yourself to say
not tamper
not tell
not tell apart
not tell one from the other
not that sort
not that you know
not that you would know it
not the half of
not the same
not the same thing at all
not the thing
not the type
not there
not think
not think much of
not think of
not to be believed
not to be borne
not to be changed
not to be compared
not to be compared with
not to be deflected
not to be depended on
not to be depended upon
not to be despised
not to be distinguished
not to be endured
not to be expected
not to be had
not to be had at any price
not to be had for love or money
not to be handled without gloves
not to be improved
not to be minuted
not to be mistaken
not to be moved
not to be overlooked
not to be quoted
not to be recommended
not to be relied on
not to be relied upon
not to be shaken
not to be sneezed at
not to be thought of
not to be trifled with
not to be trusted
not to get a thing out of
not to lift a hand
not to mention
not to mince the matter
not to mince words
not to the purpose
not to your taste
not tolerate
not too bad
not touch
not touch with a ten-foot pole
not trouble your head about
not trouble your head with
not trouble yourself with
not true
not true to
not turn a hair
not turn the other cheek
not turning over
not understand
not unlike
not up to
not up to expectation
not up to sample
not up to scratch
not up to snuff
not up to specification
not up to standard
not up to your hopes
not use
not use up
not used
not utter a word
not vital
not wait for an invitation
not wait to be asked
not want any part of
not war
not wash
not waste
not weaken
not well-founded
not what it is cracked up to be
not what you used to be
not willing to hear of
not with it
not within the memory of man
not words but action
not work
not worth a continental
not worth a damn
not worth a rap
not worth a thought
not worth a whoop
not worth having
not worth mentioning
not worth saving
not worth speaking of
not worth the candle
not worth the pains
not worth the powder and shot
not worthwhile
not write off
not yield an inch
not your cup of tea
not your sort
not yourself
not-
not-being
not-delivery
not-ephemeral
not-good
not-living
not-out
not-self
not-soul
not-under-command lights
nota bene
notaries public
notarized statement
notary public
notch block
notch-lobed
notched-leaved
note broker
note discounting
note down
note of alarm
note of explanation
note of hand
note paper
note row
note shaver
note shaving
note value
note well
note-blind
note-blindness
note-book
note-holder
note-paper
note-perfect
notes inegales
notes of a scale
nothing at all
nothing doing
nothing else
nothing else but
nothing if not critical
nothing in excess
nothing in particular
nothing like
nothing loath
nothing more
nothing of the kind
nothing of the sort
nothing off
nothing on earth
nothing special
nothing to boast of
nothing to brag about
nothing to do with
nothing to do with the case
nothing to hide
nothing to it
nothing to say about
nothing to signify
nothing to speak of
nothing to the left
nothing to the right
nothing to think twice about
nothing to write home about
nothing under the sun
nothing whatever
nothing worth speaking of
notice board
notions counter
noto-
nought beside
noughts and crosses
noughts-and-crosses
noun clause
noun determiner
noun equivalent
noun phrase
nourish in your bosom
nouveau riche
nouveau roman
nouveau roturier
nouveau-riche
nouvelle cuisine
nouvelle vague
nouvelles vagues
novel idea
novel maker
novel of character
novel of ideas
novel of incident
novel of manners
novel of sensibility
novel of the soil
novel reader
novel writer
novel-crazed
novel-making
novel-purchasing
novel-reading
novel-sick
novel-writing
novelty shop
novelty siding
novice point
novus homo
novus ordo seclorum
now and again
now and forever
now and then
now as previously
now or never
now that
now you're talking
now-a-day
now-a-days
now-accumulated
now-being
now-big
now-borne
now-dead
now-existing
now-fallen
now-full
now-known
now-lost
now-neglected
now-waning
nowhere near
nowhere to be found
nowhere to turn
nowhere-dense
noxious stench
ns-a-vis
nt wt
nth degree
nth power
nu-value
nub yarn
nubbin disease
nubecula major
nubecula minor
nuci-
nucle-
nuclear artillery
nuclear atom
nuclear bomb
nuclear chemistry
nuclear cross section
nuclear electron
nuclear energy
nuclear engineer
nuclear envelope
nuclear explosive
nuclear family
nuclear fission
nuclear force
nuclear fuel
nuclear furnace
nuclear fusion
nuclear isomer
nuclear isomerism
nuclear magnetic resonance
nuclear magneton
nuclear particle
nuclear physicist
nuclear physics
nuclear power
nuclear power plant
nuclear radiation
nuclear rays
nuclear reaction
nuclear reactor
nuclear resonance
nuclear submarine
nuclear warhead
nuclear weapons
nuclear-powered ship
nuclear-powered submarine
nucleic acid
nuclein base
nucleo-
nucleon number
nucleus counter
nude painting
nudi-
nudum pactum
nugi-
nuisance ground
nuisance tax
nuisance value
null and void
null hypothesis
null method
null sequence
null-manifold
nulla bona
nulla-nulla
nulli secundus
nullius filius
nullius juris
numb-fish
number admit
number among
number field
number five iron
number four iron
number four wood
number line
number lottery
number nine iron
number off
number one
number one iron
number one wood
number opera
nurse frog
nurse mother
nurse resentment
nurse shark
nurse tree
nurse your revenge
nurse’s aide
nurse-child
nurse-father
nurse-mother
nurse-tree
nursery cannon
nursery rhyme
nursery school
nursery school child
nursery slopes
nursery stakes
nursery stock
nursery tale
nurses’ station
nursing bottle
nursing father
nursing foot
nursing home
nursing mother
nursing sister
nurture a belief
nurture a feeling
nurture an idea
nurture the hope
nut bone
nut bread
nut brown
nut buoy
nut coal
nut crab
nut dash
nut grass
nut margarine
nut oil
nut palm
nut pine
nut quad
nut rush
nut sedge
nut to crack
nut weevil
nut-brown
o-
o-o
o-o-a-a
o-os
oak apple
oak bark
oak beauty
oak blight
oak brown
oak button
oak canker
oak chestnut
oak family
oak fern
oak fly
oak fungus
oak gall
oak green
oak leaf
oak leaf cluster
oak leather
oak moss
oak nut
oak of Dodona
oak pruner
oak tag
oak thistle
oak toad
oak tree
oak veneer
oak wart
oak wilt
oak-apple
oak-beamed
oak-boarded
oak-clad
oak-cleaving thunderbolts
oak-covered
oak-crested
oak-crowned
oak-leaf brown
oak-leaf cluster
oak-leaved
oak-paneled
oak-tanned
oak-timbered
oak-tree
oak-tree money
oak-wainscoted
oar feather
oar-footed
oast house
oast-house
oast-houses
oat bread
oat cleaner
oat field
oat flour
oat grass
oat grinder
oat huller
oat kiln
oat mill
oat sheller
oat thistle
oat thresher
oat-bearing
oat-cake
oat-crushing
oat-fed
oat-growing
oat-producing
oat-shaped
oaten reed
oath breaker
oath breaking
oath helper
oath of allegiance
oath of office
oath of secrecy
oath purgatory
oath suppletory
oath-bound
oath-breaking
oath-despising
oath-detesting
oath-making
oatlike bent grass
oatlike grass
oatmeal cookie
oatseed bird
ob-
obeah doctor
obesity diet
obey the rules
obey your impulse
obispo pine
obiter dicta
obiter dictum
object ball
object case
object glass
object in mind
object language
object lens
object lesson
object libido
object matter
object of art
object of compassion
object of note
object of pity
object of your affections
object program
object space
object speculum
object staff
object teaching
object to
object-glass
object-matter
objectionable person
objective behavior
objective case
objective complement
objective correlative
objective existence
objective genitive
objective idealism
objective point
objective predicate
objective prism
objective relativism
objective relativist
objective spirit
objective truth
objectively true
objectivn objectless preposition
objet d'art
objet d-art
objet trouv
objets d'art
oblate spheroid
oblation cloth
oblige yourself
obliged to
oblique angle
oblique case
oblique circular cone
oblique circular cylinder
oblique coordinates
oblique figure
oblique line
oblique motion
oblique narration
oblique sailing
oblique section
oblique speech
oblique-angled
oblique-fire
obliquity of the ecliptic
obliterative inflammation
oblong-acuminate
oblong-cordate
oblong-cylindric
oblong-elliptic
oblong-elliptical
oblong-falcate
oblong-hastate
oblong-lanceolate
oblong-leaved
oblong-linear
oblong-ovate
oblong-ovoid
oblong-spatulate
oblong-triangular
oblong-wedgeshaped
obnoxious person
oboe d'amore
oboe da caccia
obscene language
obscene literature
obscure darkness
obscurum per obscurius
obsequent stream
observable behavior
observation balloon
observation car
observation flight
observation kite
observation mine
observation plane
observation platform
observation point
observation post
observation squadron
observation tower
observation train
observatory on the moon
observatory outlook
observe etiquette
observe protocol
observe the
observe the Golden Rule
observe the formalities
observe the proprieties
observe with a fine-toothed comb
obsess the mind
obsessed by
obsessional neurosis
obsessive compulsion
obsessive-compulsive neurosis
obsessive-compulsive reaction
obsidional coin
obsolete securities
obstacle course
obstacle race
obstacle racer
obstinate person
obstinate pride
obstruction light
obstruction to vision
obtain a divorce
obtain a return
obtain by fair means or foul
obtain under false pretenses
obtaining by deception
obtrude on
obtrude upon
obturator artery
obturator canal
obturator fascia
obturator membrane
obturator nerve
obturator vein
obtuse angle
obtuse bisectrix
obtuse triangle
obtuse-angled
obtuse-angled triangle
obtuse-angular
obtusi-
obvious clue
occasional cause
occasional chair
occasional licence
occasional poet
occasional table
occasional verse
occasioned by
occipital bone
occipital lobe
occipito-
occluded front
occult balance
occult meaning
occult phenomena
occult, the
occulting light
occulting screen
occupation bridge
occupation force
occupation franchise
occupation layer
occupation neurosis
occupation stamp
occupational disease
occupational hazard
occupational neurosis
occupational psychology
occupational school
occupational therapy
occupy a certain position
occupy a post
occupy the attention
occupy the chair
occupy the mind
occupy the mind with
occupy the thoughts
occupy the thoughts with
occupy time
occupy your time
occupy yourself
occupy yourself with
occur often
occur periodically
occur to
occur to your mind
ocean basin
ocean bed
ocean bottom
ocean breeze
ocean bug
ocean depths
ocean floor
ocean front
ocean green
ocean greyhound
ocean lane
ocean liner
ocean main
ocean marine insurance
ocean nymph
ocean of emptiness
ocean perch
ocean pout
ocean racer
ocean sea
ocean spray
ocean sunfish
ocean trade
ocean tramp
ocean travel
ocean trip
ocean zone
ocean-born
ocean-borne
ocean-carrying
ocean-compassed
ocean-flooded
ocean-girdled
ocean-going
ocean-going tug
ocean-guarded
ocean-rocked
ocean-severed
ocean-skirted
ocean-smelling
ocean-spanning
ocean-sundered
ocean-wide
oceanic island
oceanographic research ship
ocellated turkey
ocelli-
ocher brown
ocher orange
ocher red
ocher-brown
ocher-colored
ocher-red
ocher-yellow
ochr-el-guerche
ochro-
octa-
octadecanoic acid
octagon scale
octahedron group
octal base
octal notation
octal system
octane number
octane rating
octanedioic acid
octave coupler
octave flute
octave scale
octave species
octet theory
octo-
octyl alcohol
octyl phenol
ocuba wax
ocul-
ocular inspection
ocular spectroscope
ocular spectrum
ocular spot
oculo-
oculomotor nerve
odd and even
odd fellow
odd fish
odd job
odd lot
odd man
odd man out
odd moments
odd number
odd or even
odd permutation
odd person
odd thing
odd-bell system
odd-come-short
odd-come-shortly
odd-even check
odd-fangled
odd-humored
odd-jobber
odd-jobman
odd-looking
odd-lot
odd-lot dealer
odd-mannered
odd-me-dod
odd-numbered
odd-pinnate
odd-shaped
odd-sounding
odd-thinking
odd-toed
odds and ends
odds and sods
odds or evens
odds-on
odds-on chance
odium theologicum
odont-
odonto-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
oeil-de-boeuf
oeils-de-boeuf
oenanthic ester
oenanthic ether
oeno-
oesophago-
oestrous cycle
of Nassau
of Preston
of a certain age
of a certainty
of a kind
of a low order of importance
of a mind to
of a piece
of a place
of a size
of a sort
of a sudden
of a truth
of age
of all descriptions
of all kinds
of all manner of colors
of all misery
of all shapes
of all sorts
of all the colors of the rainbow
of all things
of all types
of all work
of another sort
of any description
of any kind
of any sort
of bad faith
of behavior
of choice
of cleanly habits
of common ancestry
of common descent
of common occurrence
of common source
of common stock
of concern
of concernment
of consequence
of consummate art
of counsel
of course
of design
of different orders
of doubt
of easy virtue
of evil portent
of fatal omen
of feeling
of few words
of fiction
of full age
of general application
of general utility
of gentle blood
of good breed
of good cheer
of good comfort
of good credit
of good hope
of good omen
of good physique
of gourmet quality
of great cost
of great price
of happy portent
of heart
of help
of ill omen
of importance
of interest
of itself
of kin
of language
of late
of like mind
of little brain
of little consequence
of little importance
of long duration
of long standing
of loose morals
of many words
of mark
of marriageable age
of moment
of necessity
of no account
of no avail
of no concern
of no consequence
of no earthly use
of no effect
of no force
of no great importance
of no importance
of no matter
of no purpose
of no significance
of no use
of note
of old
of one accord
of one mind
of one piece
of opposite polarity
of other times
of powerful physique
of preference
of promise
of quality
of rank
of record
of ripe age
of sentiment
of service
of set purpose
of significance
of small importance
of small number
of sorts
of soul
of sound mind
of that ilk
of that kind
of that sort
of the best
of the best sort
of the blood
of the clock
of the cloth
of the dead
of the deepest
of the deepest dye
of the earth
of the essence
of the faith
of the first magnitude
of the first rank
of the first water
of the folk
of the highest type
of the old school
of the same hue
of the same kidney
of the same mind
of the same stripe
of the true faith
of the war party
of two minds
of unsound mind
of use
of value
of vital importance
of weight
of yesterday
of yore
of your own
of your own accord
of your own choice
of your own free will
of your own volition
of-
of-door
of-fact
of-the-moment
off Broadway
off and on
off base
off chance
off colour
off cut
off day
off duty
off guard
off in the clouds
off in the upper story
off in your reckoning
off key
off limits
off line
off market
off note
off of
off on
off pat
off plumb
off season
off side
off soundings
off stage
off stump
off the air
off the beam
off the beaten track
off the course
off the cuff
off the field
off the ground
off the heading
off the hinges
off the hip
off the hook
off the old block
off the rails
off the record
off the reel
off the shelf
off the subject
off the top of the head
off the top of your head
off the track
off the trolley
off the vertical
off the wall
off the wind
off white
off with
off with you
off work
off year
off you go
off your beat
off your chump
off your feed
off your guard
off your hands
off your head
off your nut
off your rocker
off your trolley
off-
off-Broadway
off-balance
off-base
off-bear
off-bearer
off-bitten
off-board
off-break
off-cast
off-center
off-centered
off-centre
off-chance
off-color
off-colored
off-corn
off-cutting
off-drive
off-fall
off-falling
off-flavor
off-flow
off-glide
off-go
off-guard
off-hand
off-handed
off-hit
off-hitting
off-hour
off-key
off-licence
off-license
off-limits
off-line
off-load
off-loading
off-look
off-lying
off-mike
off-off-Broadway
off-peak
off-pitch
off-put
off-putting
off-reckoning
off-season
off-setting
off-shaving
off-shed
off-sider
off-sloping
off-sorts
off-stage
off-standing
off-street
off-taking
off-the-cuff
off-the-face
off-the-peg
off-the-record
off-the-wall
off-thrown
off-time
off-tone
off-turning
off-wheel
off-wheeler
off-white
off-year
off-year election
offend against the law
offend the ear
offend the eye
offend the nostrils
offense to the nostrils
offensive lineman
offensive load
offensive odor
offensive strategy
offensive to ears polite
offensive to gentle ears
offensive warfare
offer a good prospect
offer a prayer
offer a resolution
offer as a plea
offer at a bargain
offer bait to
offer excuse for
offer for sale
offer in defense
offer in exchange
offer itself
offer of marriage
offer of parley
offer price
offer resistance
offer sacrifice
offer thanks
offer the expectation
offer to buy
offer to the public
offer up
offer up an oblation
offer your compliments
offer your congratulations
offer your felicitations
offer yourself
offered price
offering no delight
offering price
offertory hymn
offertory sentence
offertory veil
offhand position
offhand shot
official residence
office bearer
office block
office boy
office building
office copy
office fixture
office force
office found
office furniture
office girl
office hours
office hunter
office lawyer
office lock
office manager
office practice
office premium
office seeker
office temporary
office worker
office-bearer
office-block ballot
office-boy
office-seeking
officer of arms
officer of the court
officer of the day
officer of the deck
officer of the guard
officer of the watch
officer plant
officer tree
officers' country
official count
official document
official jargon
official journal
official language
official oath
official scorer
official secrecy
official spokesman
officious will
offscourings of society
offscum of society
offset line
offset lithography
offset lithography press
offset sheet
offset staff
offset-litho
dock
offshore dock
offshore rights
offsprings of Heav'n firstborn
offtrack betting
oft-named
oft-repeated
oft-time
oft-times
often enough
often offensive
ogee arch
ogee doorway
ogle at
oh boy
oh yes
ohm-ammeter
ohm-ampere system
ohm-mile
ohmic resistance
oil and vinegar
oil asphalt
oil bath
oil beetle
oil box
oil burner
oil bushing
oil cake
oil camp
oil can
oil cellar
oil circuit breaker
oil color
oil column
oil cup
oil derrick
oil distiller
oil drill
oil drum
oil engine
oil extractor
oil feeder
oil field
oil fuel
oil furnace
oil gas
oil gauge
oil gilding
oil gland
oil green
oil groove
oil gun
oil heat
oil heater
oil heating
oil lamp
oil land
oil meal
oil mill
oil milling
oil mold
oil nut
oil of almonds
oil of ben
oil of caste
oil of catechumens
oil of mirbane
oil of myrbane
oil of palms
oil of the sick
oil of turpentine
oil of vitriol
oil of wintergreen
oil omphacine
oil paint
oil painter
oil painting
oil paints
oil palm
oil pan
oil plant
oil press
oil pulp
oil refiner
oil refinery
oil rig
oil ring
oil rock
oil sand
oil shale
oil shark
oil sheet
oil silk
oil slick
oil spot
oil stove
oil switch
oil tanker
oil tanning
oil tar
oil the tongue
oil tree
oil tube
oil varnish
oil well
oil whetstone
oil yellow
oil bag
oil-base paint
oil-bearing
oil-break switch
oil-bright
oil-burning
oil-carrying
oil-colorist
oil-colour
oil-containing
oil-cooled
oil-dispensing
oil-distributing
oil-driven
oil-electric
oil-fed
oil-filled
oil-finding
oil-finished
oil-fired
oil-forming
oil-fueled
oil-gas tar
oil-gilding
oil-harden
oil-hardened steel
oil-hardening
oil-heat
oil-heated
oil-insulated
oil-laden
oil-lit
oil-mill
oil-nut
oil-plant
oil-producing
oil-pumping
oil-refining
oil-regulating
oil-saving
oil-seal
oil-secretion
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oilcloth knife
oiled silk
oilsport glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oiticica oil
oka cheese
okey-doke
okle-dokle
old Adam
old age
old age pension
old amethyst
old as Adam
old as Methuselah
old as history
old as the hills
old as time
old bach
old bachelor
old bag
old battle-ax
old believer
old bird
old blue
old boy
old boy network
old bulgarian
old campaigner
old catholic
old cedar
old chap
old chat
old christmas
old church slavonic
old clothes
old clothes man
old clothing
old codger
old country
old country, the
old covenant
old crock
old crony
old dame
old days
old dodo
old dog
old duffer
old english
old english sheepdog
old enough to know better
old face
old fart
old fellow
old field
old fogey
old fogy
old folks' home
old french
old fud
old fustic
old geezer
old gent
old gentleman
old girl
old glory
old goat
old gold
old granny
old guard
old hand
old hat
old hen
old high german
old ionic
old ivory
old joke
old lady
old liner
old maid
old man
old man’s beard
old master
old moon
old nick
old nobility
old norse
old order
old paper
old party
old person
old poop
old pro
old prussian
old red
old river
old rose
old salt
old saw
old saxon
old school
old school tie
old sea dog
old sledge
old soldier
old soldiers’ home
old song
old squaw
old stager
old story
old style
old talk
old testament
old times
old trot
old turkey
old welsh
old wheeze
old wife
old witch grass
old wives' tale
old woman
old world
old-age
old-age and survivors insurance
old-age assistance
old-age insurance
old-age pension
old-age pensioner
old-aged
old-bachelorish
old-bachelorship
old-boyish
old-clothesman
old-country
old-established
old-faced
old-fangled
old-farrand
old-farrandlike
old-fashioned
old-fashionedly
old-fashionedness
old-field birch
old-field dove
old-field lark
old-field pine
old-fogeydom
old-fogeyish
old-fogy
old-fogydom
old-fogyish
old-fogyishness
old-fogyism
old-gathered
old-gentlemanly
old-gold
old-growing
old-ivory
old-ladyhood
old-line
old-line company
old-liner
old-looking
old-maid
old-maidish
old-maidishness
old-maidism
old-man cactus
old-man fern
old-man’s-beard
old-new
old-rose
old-school
old-sighted
old-sightedness
old-squaw
old-standing
old-style
old-time
old-time country music
old-time religion
old-timer
old-timey
old-timey music
old-timeliness
old-timy
old-wifely
old-wifish
old-womanish
old-womanishness
old-womanism
old-womanly
old-world
old-worldish
old-worldism
old-worldliness
old-worldly
old-young
olde-worlde
olden times
oldest profession
ole-
oleander fern
oleander scale
oleaster family
olefiant gas
olefin series
oleic acid
oleo gear
oleo leg
oleo oil
oleo strut
oleo-
oleoyl group
oleoyl radical
oleyl alcohol
olfactory area
olfactory bulb
olfactory cell
olfactory nerve
olfactory nerves
olfactory organ
olfactory pit
olfactory sense
olfactory tract
olig-
oligo-
olinda bug
olivaceo-
olive acanthus
olive bark
olive berry
olive branch
olive brown
olive crown
olive drab
olive drabs
olive dun
olive family
olive fly
olive gnat
olive gray
olive green
olive gum
olive knot
olive mangrove
olive nut
olive oil
olive ore
olive plant
olive plum
olive quill
olive scab
olive scale
olive shell
olive tubercle
olive yellow
olive-backed
olive-backed thrush
olive-bordered
olive-branch
olive-brown
olive-cheeked
olive-clad
olive-colored
olive-complexioned
olive-drab
olive-drab shirt
olive-green
olive-greenish
olive-growing
olive-kernel oil
olive-oil castile soap
olive-pale
olive-shaded
olive-shadowed
olive-sided
olive-sided flycatcher
olive-skinned
olive-tree agaric
olive-wood
olivine-andesite
olivine-basalt
olla podrida
olla-podrida
olympian games
olympic games
om mani padme hum
omander wood
ombres chinoises
ombro-
ome next
omega minus
omega particle
omni mane
omni-
omni-ignorant
omnia vincit amor
omnibus bill
omnibus box
omnibus clause
omnibus driver
omnibus train
omnibus volume
omnibus-driving
omnibus-fashion
omnibus-riding
omnidirectional antenna
omnidirectional microphone
omnidirectional range
omnipotent ruler
omnium gatherum
omnium-gatherum
omnium-gatherums
omo-hyoid
omphalo-
on Easy Street
on Queer Street
on a beam
on a beat
on a bed of roses
on a bowline
on a broad reach
on a cloud
on a declining scale
on a first-name basis
on a footing
on a good footing
on a large scale
on a leash
on a lee shore
on a level
on a line
on a minuscule scale
on a par
on a reach
on a rock
on a slant
on a small scale
on a stretch
on a string
on a sudden
on a sudden impulse
on a treadmill
on account
on account of
on account of this
on account of what
on account of which
on all accounts
on all counts
on all fours
on all fours with
on all hands
on all sides
on all tongues
on amicable terms
on an easy bowline
on an even keel
on an infinitesimal scale
on and off
on and on
on approval
on bad terms
on bail
on balance
on base
on bedrock
on behalf of
on bended knee
on board
on board ship
on budget terms
on call
on center
on chosen
on cloud nine
on condition
on condition that
on consignment
on credit
on deck
on demand
on deposit
on dit
on divers occasions
on draft
on dry land
on duty
on eagle's wings
on earth
on easy terms
on edge
on end
on equal terms
on even ground
on even terms
on every hand
on every side
on everyone's lips
on everyone's tongue
on faith
on familiar terms
on file
on fire
on foot
on footback
on friendly terms
on furlough
on good terms
on guard
on hand
on hands and knees
on her beam-ends
on her own bottom
on high
on hire
on holiday
on horseback
on ice
on impulse
on instinct
on intimate terms
on its beam-ends
on its side
on key
on land
on leash
on leave
on line
on live
on loan
on no account
on no condition
on no occasion
on occasion
on offer
on one
on one occasion
on one side
on one's beam-ends
on one's hands and knees
on one's last legs
on one's uppers
on order
on pain of
on paper
on parole
on passage
on penalty of
on pension
on pins and needles
on principle
on probation
on purpose
on reconsideration
on record
on relief
on route to
on sabbatical leave
on schedule
on second thought
on security
on shank's mare
on shank's pony
on shipboard
on ships
on short commons
on short notice
on side
on sight
on slippery ground
on solid ground
on soundings
on speaking terms
on stilts
on stream
on sufferance
on sure ground
on tap
on tenterhooks
on terms
on terms of equality
on terra firma
on that account
on that ground
on that occasion
on the
on the Book
on the agenda
on the air
on the alert
on the anvil
on the anxious bench
on the anxious seat
on the assumption that
on the attack
on the average
on the back of
on the ball
on the bare possibility
on the barricades
on the bash
on the beach
on the beam
on the beam's ends
on the beam-ends
on the beat
on the beaten track
on the bench
on the berth
on the bias
on the blink
on the block
on the boards
on the books
on the borderline
on the bounce
on the brain
on the brink
on the brink of
on the bum
on the button
on the calendar
on the cards
on the carpet
on the chance
on the cheap
on the coattails of
on the confines of
on the contrary
on the course
on the crest
on the crest of the wave
on the critical list
on the cuff
on the decline
on the defensive
on the descendant
on the docket
on the dole
on the dot
on the double
on the double-quick
on the downgrade
on the downward track
on the earth
on the edge
on the edge of
on the edge of tears
on the eve of
on the evidence
on the face of
on the face of it
on the face of the earth
on the face of the globe
on the fence
on the fire
on the flank of
on the floor
on the fly
on the fritz
on the gad
on the go
on the good side of
on the ground
on the heading
on the heel and toe
on the high road
on the high road to
on the high seas
on the high side
on the hip
on the hoof
on the hook
on the hop
on the horizon
on the horns of a dilemma
on the house
on the in with
on the increase
on the instant
on the jar
on the job
on the jump
on the knees of the gods
on the knocker
on the lam
on the lap of the gods
on the left
on the level
on the lift
on the lines of
on the lookout
on the lookout for
on the loose
on the low side
on the make
on the march
on the mark
on the market
on the mend
on the minute
on the model of
on the money
on the move
on the nail
on the nod
on the nose
on the off chance
on the offensive
on the order of
on the other hand
on the outs
on the outs with
on the outside
on the pad
on the parish
on the part of
on the peak
on the pinnacle
on the point
on the point of
on the present occasion
on the qt
on the quiet
on the rack
on the ragged edge
on the razor's edge
on the rebound
on the receiving end
on the return
on the right
on the right scent
on the right side of
on the right track
on the rise
on the road
on the road to
on the rocks
on the run
on the safe side
on the same footing
on the same level
on the same old round
on the same plane
on the scent of
on the score of
on the shady side
on the shady side of
on the shelf
on the shelves
on the shoulders of
on the sick list
on the side
on the skids
on the skirts of
on the sly
on the spot
on the spur of the moment
on the square
on the stage
on the stick
on the stocks
on the straight
on the streets
on the strength of
on the subject of
on the summit
on the supposition that
on the surface
on the table
on the take
on the tapis
on the throne
on the tip of your tongue
on the top
on the town
on the track of
on the trail of
on the tramp
on the turn
on the up-and-up
on the upbeat
on the upgrade
on the upswing
on the verge
on the verge of
on the wagon
on the wane
on the watch
on the watch for
on the water cart
on the water wagon
on the way
on the way to
on the whole
on the wind
on the wing
on the wrong
on the wrong tack
on thin ice
on this account
on this side of the grave
on tick
on time
on tippytoe
on tiptoe
on to
on top
on top of
on top of the heap
on top of the roost
on top of the world
on tour
on trial
on trust
on vacation
on velvet
on view
on visiting terms
on welfare
on what account
on what occasion
on wheels
on which
on which occasion
on your
on your back
on your beam-ends
on your belly
on your bended knees
on your coattails
on your deathbed
on your feet
on your guard
on your hands
on your head
on your high horse
on your hind legs
on your hunkers
on your knees
on your last legs
on your legs
on your mark
on your marrowbones
on your mettle
on your mind
on your nose
on your own
on your own account
on your own ground
on your own hook
on your own initiative
on your own responsibility
on your own say-so
on your own time
on your shitlist
on your toes
on your travels
on your uppers
on your way
on your word
on your word of honor
on-
on-again-off-again
on-board
on-coming
on-ding
on-dit
on-drive
on-glaze
on-glide
on-go
on-going
on-hit
on-limits
on-line
on-off switch
on-stage
on-stream
on-the-job training
once again
once and again
once and for all
once and for always
once and no more
once for all
once in a blue moon
once in a coon's age
once in a thousand years
once in a while
once more
once or twice
once over lightly
once pinnate
once removed
once upon a time
once-accented
once-born
once-over
once-run
onco-
ondes Martenot
one C
one accord
one after the other
one all over
one and all
one and indivisible
one and only
one and the same
one another
one at a time
one bone and one flesh
one by one
one can assume
one cheer more
one day
one dem'd horrid grind
one fifth
one fine day
one fine morning
one flesh
one for all
one for the book
one for the road
one fourth
one half
one hoss shay
one hundred thousand
one in a million
one in a thousand
one in a way
one in ten thousand
one leg
one man
one mind
one o'clock
one of the people
one of these days
one of us
one old cat
one or two
one small difficulty
one thing leads to another
one thing nor the other
one thing to another
one time
one touch of nature
one up
one up on
one voice
one vote
one's adieu
one's all
one's ancestors
one's best
one's best effort
one's best endeavor
one's betters
one's blind side
one's crowd
one's damndest
one's damndest
one's days are numbered
one's disposal
one's doom is sealed
one's due
one's fathers
one's heels
one's hour is come
one's level best
one's mouth
one's move
one's native ground
one's native heath
one's native place
one's number is up
one's own choice
one's own discretion
one's own initiative
one's own man
one's own sweet time
one's own will
one's race is run
one's say
one's set
one's turn
one's two cents' worth
one's utmost
one's worth
one-a-cat
one-act
one-acter
one-and-a-half
one-armed
one-armed bandit
one-base hit
one-berry
one-blade
one-bladed
one-buttoned
one-by-one
one-celled
one-chambered
one-class
one-classer
one-colored
one-crop
one-cusped
one-day
one-decker
one-dimensional
one-dimensional wave
one-dollar
one-eared
one-egg
one-eighty
one-eyed
one-eyedness
one-finned
one-flowered
one-foot
one-footed
one-fourth
one-grained
one-hand
one-handed
one-handedness
one-hearted
one-hoofed
one-horned
one-horse
one-horse town
one-humped
one-hundred-fifty
one-hundred-percenter
one-hundred-percentism
one-ideaed
one-inch
one-jointed
one-layered
one-leaf
one-leaved
one-legged
one-leggedness
one-letter
one-line
one-line octave
one-lung
one-lunged
one-lunger
one-man
one-man rule
one-many
one-minute
one-nerved
one-night
one-night stand
one-nighter
one-oclock
one-off
one-one
one-party rule
one-party system
one-petaled
one-piece
one-piece suit
one-piecer
one-pipe
one-pipe furnace
one-point
one-point perspective
one-pope
one-pound
one-pounder
one-price
one-quarter
one-rail
one-reeler
one-ribbed
one-roomed
one-seater
one-seeded
one-sepaled
one-septate
one-shot
one-sided
one-sidedly
one-sidedness
one-spot
one-star general
one-step
one-step rocket
one-storied
one-story
one-striper
one-term
one-third
one-time
one-to-one
one-toed
one-track
one-track mind
one-two
one-two punch
one-up
one-upmanship
one-valued
one-way
one-way communication
one-way ticket
one-way trip
one-windowed
one-winged
one-word
one-year
oneiro-
ones self
onga-onga
onglette file
onion couch
onion dome
onion flute
onion fly
onion foot
onion louse
onion maggot
onion mildew
onion red
onion roll
onion salt
onion sauce
onion set
onion smudge
onion smut
onion structure
onion twitch
onion-eyed
onionskin pink
onio-
onium compound
onization potential
only a few
only a step
only choice
only have eyes for
only human
only if
only just
only not
only now and then
only occasionally
only once
only think
only too
only when necessary
only when the spirit moves
only yesterday
only-begotten
onomato-
onomatopoeic word
onshore breeze
ont-
onto-
onological argument
ontological proof
ontrary to expectation
onus probandi
onward and upward
onward course
onyx marble
oo-
oo-la-la
ooblastema filament
oop cit
ooze leather
ooze out
op art
op artist
op cit
op-
opal blue
opal glass
opal gray
opal matrix
opal-tinted
opaline green
opaque color
opaque context
opaque projector
open Pandora's box
open a can of worms
open a show
open a show cold
open account
open aerial
open air
open an account with
open an offensive
open and aboveboard
open arms
open as day
open book
open chain
open circuit
open city
open classroom school
open cluster
open communion
open conflict
open country
open couplet
open court
open cut
open day
open discussion
open door
open enemy
open enrollment
open field
open fire
open for discussion
open forum
open game
open hand
open hand knot
open heart
open her up
open hostilities
open house
open housing
open into
open juncture
open letter
open mandate
open market
open market operations
open mind
open one's mouth
open order
open policy
open position
open primary
open quarrel
open question
open road, the
open rupture
open secret
open sentence
open sequence
open sesame
open shop
open sight
open space
open sphere
open stock
open string
open syllable
open system
open the
open the door to
open the draft
open the eyes
open the eyes to
open the floodgates
open the light
open the lock
open the mind
open the possibility of
open the purse
open the sluices
open the throttle
open the way
open the way for
open throttle
open time
open to
open to all
open to criticism
open to doubt
open to error
open to question
open to reproach
open to solution
open to suspicion
open to the public
open to view
open trailer
open union
open up
open up on
open up the possibility of
open verdict
open waggon
open war
open warfare
open wound
open your big fat mouth
open your big mouth
open your eyes
open your eyes to
open your lips
open your mind to
open your mouth
open-air
open-air theater
open-airish
open-airishness
open-airism
open-airness
open-and-shut
open-and-shut case
open-armed
open-armedly
open-back
open-back press
open-backed
open-bill
open-bladed
open-breasted
open-caisson
open-chested
open-circuit
open-coil
open-countenanced
open-crib
open-cribbed
open-door
open-door policy
open-doored
open-eared
open-end
open-end bond
open-end fund
open-end investment company
open-end wrench
open-ended
open-endedness
open-eyed
open-eyedly
open-face
open-face sandwich
open-faced
open-field
open-fire
open-flowered
open-frame girder
open-front
open-fronted
open-frontedness
open-gaited
open-grained
open-handed
open-handedly
open-headed
open-heart surgery
open-hearted
open-heartedly
open-heartenedness
open-hearth
open-hearth furnace
open-hearth process
open-hearthed
open-housed
open-housedness
open-timbered
open-timbre
open-top
open-topped
open-view
open-visaged
open-weave
open-web
open-webbed
open-webbedness
open-well
open-windowed
open-windowedness
open-work
open-worked
opencast mining
opening bit
opening die
opening gun
opening move
opening price
opening time
opening up
openness to sensation
openness to sight
openside planer
opera ballet
opera bouffe
opera box
opera buffa
opera buffas
opera cape
opera cloak
opera comique
opera dancer
opera festival
opera flannel
opera glass
opera glasses
opera hat
opera hood
opera house
opera omnia
opera pink
opera score
opera season
opera seria
opera serias
opera singer
opera-going
opera-mad
operant conditioning
operas buffa
operas seria
operate at a loss
operate on
operatic overture
operatic singing
operating budget
operating company
operating cost
operating costs
operating expense
operating expenses
operating room
operating speed
operating table
operating theatre
operational gain
operational purpose
operational research
operations research
operations room
operative dentist
operative dentistry
operative surgeon
operative surgery
operator gene
operculi-
opere buffe
opere citato
opere serie
ophio-
ophthalm-
ophthalmia neonatorum
ophthalmic-
ophthalmo-reaction
opiate addiction
opinion poll
opinion sampling
opinion survey
opinion-sampler
opistho-
opium den
opium drinker
opium eater
opium poisoning
opium poppy
opium smoker
opium taker
opium-drinking
opium-drowsed
opium-eating
opium-shattered
opium-smoking
opium-taking
opossum mouse
opossum shrimp
opossum tree
opossum wood
opponent colors theory
opportunity cost
oppose change
opposed to
opposed to change
opposed-piston engine
opposing party
opposite as black and white
opposite as day and night
opposite as fire and water
opposite as light and darkness
opposite as the poles
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
oppositi-
opposition party
opposition to change
opposition voice
oppression of spirit
opra bouffe
opra comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
opt out
opt out of society
optic axis
optic chiasm
optic disc
optic disk
optic nerve
optic neuritis
optic thalamus
optical activity
optical air mass
optical altimeter
optical bench
optical character reader
optical crown
optical density
optical double star
optical flint
optical glass
optical illusion
optical instrument
optical isomer
optical isomerism
optical maser
optical microscope
optical path
optical physics
optical pyrometer
optical rotation
optical scanning
optical telescope
optical tooling
optically active
optically inactive
optico-
optimum capacity
optimum programming
optional bond
optional dividend
optional primary
optional referendum
opto-
opus araneum
opus consutum
opus incertum
opus isodomum
opus pectineum
opus pseudoisodomum
opus reticulatum
or Harry
or buts
or circuit
or else
or ever
or not
or steal
or the instrument evidencing
or-
ora pro nobis
oracle of Dodona
oral cavity
oral communication
oral contraceptive
oral evidence
oral examination
oral groove
oral history
oral interpretation
oral method
oral poetry
oral society
oral surgery
oral-genital stimulation
orang-outang
orang-utan
orange III
orange aphid
orange aurora
orange basketworm
orange berry
orange blossom
orange chipper
orange chrome yellow
orange chromide
orange coneflower
orange daisy
orange flower water
orange grower
orange gum
orange hawkweed
orange juice
orange lead
orange leaf rust
orange lily
orange madder
orange maggot
orange marmalade
orange melon
orange milkweed
orange milkwort
orange mineral
orange ocher
orange orchard
orange peel
orange peel reflector
orange peeler
orange pekoe
orange quince
orange quit
orange rust
orange scab
orange scale
orange spoon
orange stick
orange sulfur
orange sulphur
orange sunflower
orange swallowwort
orange tip
orange vermilion
orange water
orange wife
orange wine
orange-blossom
orange-colored
orange-crowned
orange-eared
orange-eye butterfly bush
orange-fleshed
orange-flower
orange-flowered
orange-headed
orange-hued
orange-leaf
orange-leaf beetle
orange-peel bucket
orange-red
orange-rufous
orange-shaped
orange-sized
orange-striped
orange-tailed
orange-tawny
orange-throated
orange-tip
orange-tipped
orange-tree
orange-winged
orange-yellow
orate fratres
oratio obliqua
oratio recta
oratorio society
orb of day
orb of night
orb weaver
orbiculato-
orbit sweeper
orbit the earth
orbit the moon
orbital angular momentum
orbital electron
orbital index
orbital quantum number
orbital velocity
orbiting geophysical observatory
orbiting observatory
orbiting solar observatory
orbito-
orchard bush
orchard fruit
orchard grass
orchard heater
orchard heating
orchard house
orchard oriole
orchard valve
orchella weed
orchestra bells
orchestra circle
orchestra leader
orchestra pit
orchestral bells
orchestral horn
orchestral musician
orchestral score
orchid family
orchid fly
orchid peat
orchid pink
orchid rose
orchid tree
orchido-
orchilla weed
ordeal bark
ordeal bean
ordeal by battle
ordeal by fire
ordeal by lots
ordeal by water
ordeal root
ordeal tree
order about
order arms
order around
order bill of lading
order blank
order in council
order of battle
order of being
order of business
order of magnitude
order of nature
order of succession
order of the day
order of worship
order paper
order port
order up
order-book
ordered around
ordered field
ordered pair
orderly bin
orderly book
orderly officer
orderly room
orderly sergeant
ordinal number
ordinary Joe
ordinary algebra
ordinary differential equation
ordinary jubilee
ordinary life insurance
ordinary man
ordinary people
ordinary point
ordinary ray
ordinary run
ordinary run of things
ordinary seaman
ordinary share
ordinary shares
ordinary stock
ordinary wave
ordinary, the
ordinary-language philosophy
ordinato-punctate
ordnance corps
ordnance datum
ordnance engineer
ordnance engineering
ordnance map
ordnance officer
ordnance rocket
ordnance sergeant
ore bed
ore body
ore bridge
ore car
ore charger
ore chute
ore digger
ore dressing
ore handler
ore hearth
ore mill
ore miner
ore process
ore rotundo
ore shoot
ore smelter
ore weigher
ore-bearing
ore-buying
ore-crushing
ore-extracting
ore-forming
ore-handling
ore-hoisting
ore-milling
ore-mining
ore-roasting
ore-smelting
ore-washing
ore-weed
oregon grape
orey-eyed
organ beater
organ blower
organ builder
organ building
organ cactus
organ coral
organ desk
organ erector
organ fish
organ gallery
organ grinder
organ gun
organ harmonium
organ loft
organ maker
organ manual
organ of Corti
organ of taste
organ of thought
organ of vision
organ pipe
organ player
organ point
organ screen
organ stop
organ swell
organ transplant
organ transplantation
organ whistle
organ-blowing
organ-grinder
organ-piano
organ-pipe
organ-pipe cactus
organ-pipe coral
organic being
organic chemical
organic chemist
organic chemistry
organic chlorine
organic disease
organic electricity
organic fertilizer
organic matter
organic mechanism
organic mechanist
ornamental glass
ornamental grass
ornamental motif
ornamental style
ornamental theme
ornaments rubric
ornith-
ornitho-
oro-
orographic cloud
orographic precipitation
orphan chamber
orphans' court
orphreyed miter
orpiment orange
orpiment red
orpiment yellow
orpine family
orra man
orris oil
orth-
ortho-
ortho-cousin
ortho-orsellinic
ortho-toluidine
ortho-xylene
orthoboric acid
orthochromatic film
orthoclase-basalt
orthoclase-gabbro
orthodox Christian
orthodox judaism
orthoformic acid
orthogonal matrix
orthogonal projection
orthogonal trajectory
orthographic projection
orthomorphic projection
orthopedic surgery
orthophosphoric acid
orthophosphorous acid
orthoptic exercises
ortolan bunting
orycto-
os magnum
osage orange
oscheo-
oscillating current
osteopathic hospital
ostraco-
ostrei-
osterich fern
ostrich-egg
ostrich-feather
ostrich-feather grass
ostrich-plume
oswego tea
ot-
otaheite apple
other continuums
other face
other fish to fry
other from
other half
other self
other side
other side of the coin
other side of the picture
other some
other than
other things being equal
other world
other-directed
other-directedness
other-direction
other-group
other-self
otic vesicle
otitis externa
otitis interna
otitis media
otium cum dignitate
oto-
ottava alta
ottava bassa
ottava rima
otter board
otter brown
otter canoe
otter gear
otter hound
otter raft
otter sheep
otter shell
otter shrew
otter trawl
ouabe oil
oufs a la coque
oufs brouilles
oufs poches
oufs sur le plat
ought to
ouija board
ounce apothecaries'
ounce avoirdupois
ounce metal
ounce troy
our account of ourselves
our father
our times
ourang-outang
ourano-
ouster le main
ouster-le-main
out ahead
out and away
out at elbows
out at heels
out at the elbows
out at the heels
out board
out cold
out for
out for bear
out from under
out front
out guide
out in front
out in left field
out in the cold
out in the open
out in your reckoning
out loud
out of
out of a clear blue sky
out of a clear sky
out of a job
out of accord
out of action
out of all bounds
out of all proportion
out of all reason
out of bounds
out of breath
out of character
out of commission
out of conceit with
out of condition
out of contact
out of control
out of countenance
out of court
out of danger
out of date
out of debt
out of doors
out of earreach
out of earshot
out of employ
out of fashion
out of favor
out of focus
out of form
out of funds
out of gear
out of hand
out of harm's reach
out of harm's way
out of harness
out of hearing
out of humor
out of it
out of its element
out of joint
out of keeping
out of kelter
out of kilter
out of line
out of line with
out of luck
out of measure
out of order
out of phase
out of pitch
out of place
out of play
out of plumb
out of pocket
out of practice
out of print
out of proportion
out of question
out of range
out of reach
out of repair
out of season
out of shape
out of sight
out of sight out of mind
out of sorts
out of soundings
out of spirits
out of square
out of step
out of stock
out of style
out of sympathy
out of temper
out of the battle
out of the blue
out of the common
out of the habit of
out of the meshes
out of the mind
out of the ordinary
out of the pale
out of the perpendicular
out of the picture
out of the question
out of the running
out of the sphere of
out of the toils
out of the way
out of the woods
out of the world
out of this
out of this world
out of time
out of tone
out of touch
out of training
out of trim
out of true
out of tune
out of tune and harsh
out of turn
out of use
out of whack
out of whole cloth
out of wind
out of work
out of working order
out of your bearings
out of your control
out of your depth
out of your element
out of your hands
out of your head
out of your league
out of your mind
out of your mind with fear
out of your misery
out of your power
out of your reckoning
out of your senses
out of your skull
out of your teens
out of your wits
out on a limb
out on a rail
out on strike
out sister
out the window
out to
out tray
out with
out with it
out-
out-Herod
out-and-out
out-and-out lie
out-and-outer
out-argue
out-ask
out-babble
out-boarder
out-bound
out-bowed
out-brag
out-building
out-burn
out-by
out-cargo
out-clearer
out-clearing
out-college
out-country
out-craft
out-door
out-field
out-fielder
out-group
out-guard
out-herod
out-herod Herod
out-kneed
out-migrant
out-migrate
out-migration
out-of
out-of-bounds
out-of-center
out-of-course
out-of-date
out-of-dateness
out-of-door
out-of-doors
out-of-fashion
out-of-focus
out-of-hand
out-of-humor
out-of-joint
out-of-line
out-of-office
out-of-order
out-of-place
out-of-plumb
out-of-pocket
out-of-print
out-of-reach
out-of-school
out-of-season
out-of-stater
out-of-stock
out-of-the-common
out-of-the-way
out-of-the-world
out-of-town
out-of-towner
out-of-townish
out-of-tune
out-of-tunish
out-of-turn
out-of-vogue
out-office
out-parish
out-patient
out-pension
out-pointed
out-quarter
out-relief
out-room
out-sentry
out-settlement
out-soul
out-station
out-street
out-take
out-throw
out-thrust
out-top
out-travel
out-voter
out-wall
out-worker
outa sight
outboard cruiser
outboard motor
outboard motorboat
outboard profile
outburst of anger
outburst of laughter
outcast of society
outcrop mine
outdoor theater
outer atmosphere
outer automorphism
outer bar
outer barrister
outer ear
outer face
outer garments
outer jib
outer layer
outer planet
outer product
outer side
outer skin
outer space
outer station
outer-directed
outermost reaches of space
outfit car
outing flannel
outlaw strike
outlet box
outlet plate
outline stitch
outlook over
outlying picket
outpatient clinic
outpost of advancing day
outpost province
output conductance
output current
output data
output indicator
output lag
output measurement
output oscillation
output pulse
output quantity
output resistance
output signal
output transformer
output tube
output voltage
outrigger canoe
outrigger torpedo
outs with
outside broadcast
outside broker
outside caliper
outside chance
outside clinch
outside finish
outside form
outside home
outside hope
outside in
outside jaunting car
outside lap
outside lead
outside left
outside loop
outside market
outside of
outside pickup
outside right
outside roll
outside securities
outside the gates
outside the pale
outside work
outsmart yourself
outstanding accounts
outstanding debt
outstanding feature
outstanding securities
outstretched hand
outstrip the wind
outward appearance
outward show
outward-bound
outward-bounder
outward-facing
outward-flow turbine
ov-
oval chuck
oval compass
oval file
oval kumquat
oval window
oval-arched
oval-berried
oval-bodied
oval-bored
oval-faced
oval-figured
oval-headed
oval-lanceolate
oval-leaved
oval-shaped
oval-truncate
oval-visaged
ovals of Cassini
ovario-
ovate-acuminate
ovate-cordate
ovate-cuneate
ovate-cylindraceous
ovate-cylindrical
ovate-deltoid
ovate-ellipsoidal
ovate-elliptic
ovate-lanceolate
ovate-leaved
ovate-oblong
ovate-orbicular
ovate-rotundate
ovate-serrate
ovate-serrated
ovate-serrate
ovate-subulate
ovate-triangular
ovato-
oven builder
oven furnace
oven thermometer
oven tit
oven wood
oven-bake
oven-baked
oven-bird
oven-dried
oven-dry
oven-ready
oven-shaped
over a barrel
over again
over against
over and above
over and over
over and over again
over head and ears
over head and ears in
over head and ears in love
over my dead body
over the board
over the counter
over the hill
over the hills and far away
over the hump
over the side
over the top
over the water
over there
over your head
over-
over-abound
over-age
over-all
over-and-over stitch
over-anxious
over-arm
over-bold
over-capitalize
over-caution
over-cautious
over-confident
over-correct
over-counter
over-credulous
over-curious
over-dear
over-deck
over-delicate
over-develop
over-discharge
over-eager
over-earnest
over-estimate
over-excite
over-exert
over-expose
over-feed
over-gear
over-greedy
over-hard
over-hasty
over-indulge
over-inform
over-issue
over-king
over-labour
over-liberal
over-lip
over-long
over-measure
over-modest
over-nice
over-people
over-persuade
over-please
over-populate
over-print
over-produce
over-proof
over-proportion
over-read
over-reckon
over-refine
over-rent
over-riding
over-round
over-rule
over-scrupulous
over-sell
over-shoe
over-size
over-soul
over-subscribe
over-supply
over-the-counter
over-the-counter drug
over-the-counter market
over-the-counter securities
over-train
over-trouble
over-trust
over-under
over-value
over-weight
over-wet
over-wise
over-zeal
overall length
overbearing pride
overcast stitch
overcome your resistance
overcome yourself
overcorrection of error
overcurrent relay
overdo it
overdose of
overdraft kiln
overdraw your account
overdrawn account
overextend yourself
overflow bug
overflow pipe
overflow with
overflow with energy
overflow with gratitude
overflowing eyes
overhand knot
overhead camshaft
overhead door
overhead lighting
overhead price
overhead railway
overhead-valve engine
overheated economy
overland stage
overlap fault
overlap radar
overlay glass
overload breaker
overload circuit
overload circuit breaker
overload relay
overload starter
overload switch
overlook distinctions
overlook no possibility
overlook nothing
overlooking no possibility
overly permissive
overmonopo-lizing
overnight bag
overnight sensation
overnight telegram
overopenness to conviction
overopenness to persuasion
overplay your hand
overreach yourself
overreact to
overseas bar
overseas cap
overseas operations
overseas telegram
overshoot the field
overshoot the mark
overshot wheel
overstay the market
overstep the bounds
overstep your bounds
overstep your prerogatives
overstep your rights
overstuffed chair
overt act
overthrow your mind
overthrow your reason
overthrust fault
overtime pay
overture and beginners
overweening pride
overwhelming defeat
ovi-
ovo-
ovo-testis
ovo-viviparous
own-rooted
owning up
ox antelope
ox ball
ox balm
ox bile
ox bot
ox daisy
ox dance
ox feather
ox fence
ox heart
ox louse
ox rail
ox ray
ox sole
ox team
ox warble
ox-
ox-bird
ox-bow
ox-eye
ox-eyed
ox-eyed arch
ox-foot
ox-harrow
ox-head
ox-headed
ox-horn
ox-stall
ox-tail
ox-tongue
ox-tongue partisan
oxa-
oxal-
oxalic acid
oxalo-
oxbow chest
oxbow front
oxbow lake
oxeye bean
oxeye camomile
oxeye daisy
oxeye molding
oxford cloth
oxford down
oxford movement
oxi-
oxidation number
oxidation potential
oxidation state
oxidation-reduction
oxide blue
oxide brown
oxide purple
oxide red
oxide yellow
oxidizing agent
oxidizing flame
oxime group
oxo process
oxo reaction
oxo-
oxonium compound
oxtail soup
oxter plate
oxy acid
oxy-
oxo-acetylene
oxy-calcium
oxy-salt
oxyacetylene blowpipe
oxyacetylene cutting
oxyacetylene torch
oxyacetylene welder
oxyacetylene welding
oxycalcium light
oxychlor-
oxoydiacetic acid
oxygen acid
oxygen effect
oxygen lance
oxygen mask
oxygen ratio
oxygen recorder
oxygen tank
oxygen tent
oxygen therapy
oxygen-acetylene
oxygen-acetylene cutting
oxygen-acetylene welding
oxygen-hydrogen welding
oxyhydrogen blowpipe
oxyhydrogen light
oxyhydrogen microscope
oxyquinoline sulphate
oyer and terminer
oyster agaric
oyster bank
oyster bar
oyster bay
oyster bed
oyster canoe
oyster catcher
oyster crab
oyster cracker
oyster culture
oyster dredge
oyster drill
oyster farmer
oyster fork
oyster fungus
oyster grass
oyster gray
oyster knife
oyster mine
oyster mushroom
oyster park
oyster pink
oyster plant
oyster plover
oyster rake
oyster rock
oyster scale
oyster schooner
oyster scow
oyster shell
oyster sloop
oyster stew
oyster tongs
oyster tree
oyster white
oyster-catcher
oyster-culturist
oyster-shaped
oyster-shell bark louse
oyster-shell scale
oysters in the half shell
oysters on the half shell
oystershell scale
oz ap
oz av
oz 1
ozaena-
pack the deal
pack train
pack twine
pack up
pack wall
pack-bearing
pack-horse
pack-laden
pack-needle
pack-saddle
package advertising
package bargaining
package conveyer
package deal
package price
package store
package tour
packaged goods
packaged house
packaged tour
packed caucus
packed cell volume
packed deal
packed jury
packed like herrings
packed like sardines
packed out
packed-up
packet boat
packet day
packet folio
packet ship
packet-boat
packing box
packing case
packing fraction
packing house
packing nut
packing plant
packing ring
pad crimp
pad eye
pad foot
pad groom
pad hook
pad horse
pad saddle
pad saw
pagoda stone
pagoda tree
pagoda-tree
pai-hua
pai-loo
pai-loos
paid holiday
paid in full
paid vacation
paid-
paid-in
paille finne
pain in the ass
pain in the neck
pain killer
pain pill
pain spot
pain-afflicted
pain-assuaging
pain-bearing
pain-bought
pain-chastened
pain-distilling
pain-distorted
pain-drawn
pain-fearing
pain-free
pain-giving
pain-inflicting
pain-killer
pain-killing
pain-producing
pain-racked
pain-stricken
pain-worn
pain-wrought
pain-wrung
pains and punishments
painstakingly match
paint a picture
paint binder
paint bridge
paint brusher
paint cleaner
paint drier
paint finish
paint frame
paint grinder
paint horse
paint hose
paint in bright colors
paint in glowing colors
paint in its true colors
paint keg
paint locker
paint mixer
paint pony
paint pot
paint pretty pictures of
paint primer
paint process
paint remover
paint roller
paint room
paint strake
paint the lily
paint the town red
paint thinner
paint work
paint yourself into a corner
paint-beplastered
paint-filler
paint-filling
paint-mixing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
painted beauty
painted bunting
painted cup
painted grass
painted greenling
painted lady
painted pony
painted snipe
painted tongue
painted trillium
painted turtle
painted woman
painter etcher
painter etching
painter graver
painter graving
painter stainer
painter's colic
painter's cream
painter-stainer
painting with the gift of speech
pair annihilation
pair case
pair of bellows
pair of binoculars
pair of compasses
pair of glasses
pair of pincers
pair of scales
pair of scissors
pair of spectacles
pair of suspenders
pair of tongs
pair of trousers
pair of tweezers
pair of twins
pair of virginals
pair of winks
pair off
pair production
pair royal
pair-horse
pair-oar
pair-oared
pair-royal
paired with
paisley print
pajama party
pak-choi
pak-choi cabbage
pak-chois
pakpak-lauin
pal around with
pal up
pal up with
pal with
palace car
palace court
palace guard
palace revolution
palaeo-
palais de danse
palais glide
palas kino
palate bone
palatial residence
palatine tonsil
palato-
pale as a corpse
pale as a forpined ghost
pale as a ghost
pale as death
pale as his shirt
pale bark
pale blue chip
pale brandy
pale broomrape
pale catechu
pale color
pale corydalis
pale elder
pale horse
pale laurel
pale rider
pale-
pale-blooded
pale-blue
pale-bright
pale-cheeked
pale-colored
pale-complexioned
pale-dried
pale-eared
pale-eyed
pale-face
pale-faced
pale-gray
pale-green
pale-hued
pale-leaved
pale-liveried
pale-looking
pale-red
pale-reddish
pale-refined
pale-souled
pale-spirited
pale-spotted
pale-striped
pale-tinted
pale-visaged
pale-yellow
paleo-
paleolithic man
paleontological geology
pales weevil
palette knife
paling board
paling cell
paling crown
palisade parenchyma
palisade worm
pakkee gharry
pall-like
pall-mall
palladium red
palladium sponge
pallet board
pallet box
pallet eye
pallet knife
pallet leather
pallet stone
pallet tail
pallial sinus
palliative operation
palliative treatment
pallid-faced
pallid-fuliginous
pallid-gray
pallid-looking
pallid-ochraceous
pallid-tomentose
pallio-
pallisado crown
pally walsy
palm beetle
palm branch
palm butter
palm cabbage
palm capital
palm cat
palm chat
palm civet
palm cockatoo
palm crab
palm dove
palm family
palm fern
palm-thatched
palm-tree
palm-veined
palma christi
palma samandoca
palmarosa oil
palmati-
palmella stage
palmer fly
palmer tree
palmer trout
palmer worm
palmer-worm
palmetto barrens
palmetto flag
palmetto green
palmetto scrub
palmi-
palmitic acid
palmy days
palmyra wood
palo blanco
palolo worm
palpebral fissure
palpitation of the heart
palsy-quaking
palsy-shaken
palsy-shaking
palsy-sick
palsy-stricken
palsy-struck
palsy-walsy
paltry affair
paludal fever
paludi-
paly-bendy
pam head
pampas cat
pampas deer
pampas formation
pampas fox
pampas grass
pampas-grass
pamper yourself
pampered darling
pan amalgamation
pan american day
pan boiler
pan bolt
pan broiler
pan conveyer
pan fish
pan for gold
pan grave
pan gravy
pan head
pan ice
pan out
pan shot
pan supari
pan-
pan-Latin
pan-Saxon
pan-american
pan-americanism
pan-anglican
pan-broil
pan-broiled
pan-broiling
pan-fired
pan-fried
pan-fry
pan-frying
pan-headed
pan-leaf
pan-loaf
pan-pipe
pan-sexualism
pan-shaped
pancake bell
pancake engine
pancake ice
pancake landing
pancake plant
panchen lama
panchromatic film
pancreas ptyalin
pancreat-
pancreatic digestion
pancreatic duct
pancreatic fibrosis
pancreatic juice
pancuronium bromide
panda car
pandemic disease
pander to
pandora shell
panel beater
panel bed
panel board
panel body
panel den
panel discussion
panel heating
panel house
panel length
panel lighting
panel patch
panel photograph
panel pin
panel plane
panel point
panel saw
panel show
panel strip
panel switching
panel system
panel thief
panel truck
panel van
panel wall
panel wheel
pangs of conscience
panic bar
panic bent
panic bolt
panic fear
panic grass
panic party
panic terror
panic-driven
panic-pale
panic-prone
panic-proof
panic-stricken
panic-strike
panic-struck
panic-stunned
panne velvet
pannier pack
pannikin boss
panoramic radar
panoramic shot
panoramic sight
panoramic telescope
pansy orchid
pansy purple
pansy violet
pansy-colored
pansy-growing
pansy-purple
pansy-violet
pansy-yellow
pant after
pant for
pant suit
pant-
panta-
pantechnicon van
panther cat
panther cowrie
panther lily
panther piss
pantie girdle
pantile lath
pantile roof
panting stringer
panto-
pantograph snaffle
pantograph trolley
pantomime dame
pantothenic acid
pants suit
panty girdle
panty hose
panty-hose
panzer division
panzer warfare
papa rock
papal brief
papal cross
papal infallibility
papanicolaou test
papaw family
paper baler
paper birch
paper blockade
paper book
paper boy
paper bush
paper carrier
paper chase
paper tiger
card title
card towel
card toweling
card tree
card varnisher
card war
card wasp
card work
card works
card-backed
card-baling
card-bound
card-capped
card-chasing
card-clothed
card-coated
card-coating
card-collared
card-covered
card-cutter
card-cutting
card-drilling
card-embossing
card-faced
card-filled
card-folding
card-footed
card-hangings
card-lined
card-mended
card-palisaded
card-paneled
card-patched
card-saving
card-selling
card-shell
card-shelled
card-shuttered
card-slit
card-sparing
card-stainer
card-stamping
card-testing
card-thick
card-thin
card-using
card-varnishing
paper-waxing
paper-white
paper-whiteness
paper-windowed
paperbark maple
papery-skinned
papier coll
papier colle
papier mache
papier-mache
papier-mch
papoose board
papoose-root
paprika sauce
papular rash
papulo-
papyro-
papyrus capital
papyrus column
par avance
par avion
par bond
par collection
par cour
par excellence
par exemple
par parenthese
par value
par-
par-three
para red
para rubber
para-
para-agglutinin
para-aminobenzoic acid
para-aminophenol
para-analgiesia
para-anesthesia
para-appendicitis
para-cymene
para-nitrophenol
para-phenetidine
para-rescue
para-ski
para-toluidine
parabolic aerial
parabolic reflector
parabolic-reflector microphone
parachute approach
parachute badge
parachute brake
parachute drogue
parachute flare
parachute jump
parachute jumper
parachute light
parachute light ball
parachute rigger
parachute spinnaker
parachute troops
paracoto bark
parade armor
parade bed
parade ground
parade rest
parade your wares
paradental pyorrhea
paradigm case
paradise apple
paradise bird
paradise duck
paradise finch
paradise fish
paradise flower
paradise flycatcher
paradise gallery
paradise grackle
paradise green
paradise grosbeak
paradise nut
paradise plant
paradise seed
paradise stock
paradise tree
paradox gun
paradoxical sleep
paraffin distillate
paraffin hydrocarbon
paraffin oil
paraffin paper
paraffin scale
paraffin series
paraffin wax
paraffin xylol
paraffin-base
paraffin-base oil
paraglyph printing
paragonite schist
parainfluenza virus
paralinguistic communication
parallel axiom
parallel bar
parallel bars
parallel column
parallel cousin
parallel cousin marriage
parallel dash
parallel fifths
parallel file
parallel forces
parallel intervals
parallel line
parallel middle body
parallel motion
parallel octaves
parallel of altitude
parallel of latitude
parallel operation
parallel postulate
parallel projection
parallel rule
parallel ruler
parallel rulers
parallel rules
parallel sailing
parallel series
parallel top
parallel trench
parallel turn
parallel vector
parallel-flow turbine
parallel-line scanning
parallel-veined
parallelogram law
parallelogram of forces
parallelogram rule
paralysis agitams
paralysis agitans
paralysis of authority
paralytic dementia
paralytic rabies
paralytic stroke
parametric amplifier
paramine brown
paramount estate
paranitraniline red
paranoiac psychosis
paranoid delusion
paranoid personality
paranoid psychosis
paranoid schizophrenia
paraphase amplifier
parasite drag
parasite resistance
parasitic drag
parasitic plant
parasitic suppressor
parasitic vowel
parasol ant
parasol fern
parasol mushroom
parasol pine
parasol skirt
parasol wing
parasol-shaped
parasympathetic nervous system
parathyroid extract
parathyroid gland
parathyroid hormone
parathyroid tetany
paratoid gland
paratroop tactics
paratrooper boots
paratyphoid bacillus
paratyphoid fever
parce que
parcel carrier
parcel checker
parcel delivery
parcel gilding
parcel of land
parcel out
parcel paper
parcel post
parcel-blind
parcel-carrying
parcel-deaf
parcel-divine
parcel-drunk
parcel-gilder
parcel-gilding
pari-mutuel machine
pariah dog
pariah kite
parian ware
parietal bone
parietal cell
parietal eye
parietal lobe
parieto-
parieto-occipital
parimutuel machine
paring chisel
paring down
paring gouge
paring knife
paris green
parish church
parish clerk
parish council
parish house
parish meeting
parish priest
parish records
parish register
parish rolls
parish school
parish top
parish-pump
parish-rigged
parity bit
parity check
park flower
park forest
park green
park in space
park of artillery
park savanna
parkin baker
parking brake
parking disc
parking light
parking lot
parking meter
parking orbit
parking ramp
parking ticket
parkinson's disease
parl proc
parlatoria scale
parliament cake
parliament heel
parliament hinge
parliament house
parliament man
parliamentary agent
parliamentary government
parliamentary law
parliamentary private secretary
parliamentary secretary
parliamentary train
parlor Bolshevik
parlor boarder
parlor car
parlor grand
parlor house
parlor pink
parlour car
parlour game
parlous straits
parochial church council
parochial council
parochial school
parol arrest
parol contract
parole femme
parole law
paroquet auklet
paroquet bur
parotid duct
parotid gland
paroxysmal tachycardia
parquet circle
parquet floor
parrel truck
parrot bullfinch
parrot cry
parrot disease
parrot fever
parrot fish
parrot green
parrot mouth
parrot's-bill
parrot's-feather
parrot-beak
parrot-beaked
parrot-billed
parrot-coal
parrot-fashion
parrot-fish
parrot-gray
parrot-learned
parrot-mouthed
parrot-nosed
parrot-red
parrot-toed
pars intermedia
parsley bed
parsley crown
parsley fern
parsley pie
parsley piert
parsley wreath
parsley-flavored
parsley-leaved
parsnip wine
parson bird
parson's nose
parson-bird
part and parcel
part by part
part company
part exchange
part from
part gate
part music
part of speech
part of writing
part owner
part singing
part song
part time
part with
part work
part-created
part-done
part-earned
part-finished
part-heard
part-off
part-opened
part-owner
part-score
part-song
part-time
part-time worker
part-timer
part-writing
partake in
partake of
partake of the Lord's Supper
parted and fretty
parted from
parted per tierce
parterre box
parterre boxes
parti pris
parti-color
parti-colored
parti-coloured
parti-decorated
parti-mortgage
parti-named
parti-striped
partial amnesia
partial blindness
partial darkness
partial denture
partial derivative
partial differential
partial differential equation
partial eclipse
partial fraction
partial fractions
partial hold deck
partial ordering
partial pressure
partial product
partial score
partial sum
partial to
partial tone
partial vacuum
partially ordered
partially ordered set
particeps criminis
participant observation
participant observer
participate in
participating bond
participating insurance
participating mortgage
participating preferred
participating preferred stock
participatory democracy
particle accelerator
particle counter
particle of difference
particle physics
particle separation
particle velocity
particular affirmative
particular average
particular choice
particular estate
particular lien
particular negative
particular quantifier
particular solution
particulate inheritance
parties litigant
partin of wood
parting bead
parting chisel
parting cup
parting gate
parting of the ways
parting shard
parting shot
parting strip
parting tool
parting words
partisan election
partisan politics
partisan spirit
partition bulkhead
partition law
partition line
partner in crime
partner plate
partnered with
partners with
partners' desk
partridge cane
partridge dove
partridge pea
partridge pigeon
partridge-berry
partridge-wood
parts list
parts of
parts of ships
party boss
party chairman
party chieftain
party circle
party doctrine
party dress
party emblem
party faithful
party girl
party hack
party in power
party leader
party line
party liner
party machine
party man
party member
party per fess
party per tierce
party philosophy
party platform
party politics
party pooper
party principle
party spirit
party to a suit
party wall
party wheelhorse
party whip
party wire
party-colored
party-column ballot
party-giving
party-making
party-man
party-political
party-spirited
party-wall
party-walled
party-zealous
parula blue
parula warbler
parvi-
pas d'action
pas de basque
pas de chat
pas de cheval
pas de deux
pas de trois
pas du tout
pas seul
pasch egg
pasch-egg
paschal candle
paschal controversy
paschal flower
paschal lamb
paschal letter
paso doble
pasque-flower
pass all bounds
pass along
pass an opinion
pass and repass
pass around
pass as
pass away
pass band
pass belief
pass boat
pass box
pass by
pass by in silence
pass check
pass comprehension
pass counterfeit money
pass course
pass current
pass degree
pass door
pass for
pass from mouth to mouth
pass holder
pass in review
pass in the dark
pass in the mind
pass in the thoughts
pass in your checks
pass in your chips
pass into
pass into your hands
pass judgment
pass key
pass law
pass master
pass muster
pass off
pass off on
pass on
pass out
pass out cold
pass out of sight
pass out of the picture
pass over
pass over Jordan
pass over lightly
pass point
pass sentence
pass sentence on
pass the Rubicon
pass the buck
pass the eyes over
pass the fingers over
pass the hat
pass the queer
pass the time
pass the time of day
pass through
pass through your head
pass through your mind
pass time
pass to the order of the day
pass under review
pass under the name of
pass understanding
pass up
pass upon
pass water
pass with flying colors
pass you by
pass your lips
pass your time in
pass your word
pass-
pass-book
pass-by
pass-bye
pass-guard
pass-key
pass-man
pass-out
passage at arms
passage bed
passage bird
passage board
passage boat
passage d'arms
passage grave
passage hawk
passage money
passage of arms
passage of time
passage penny
passage work
passage-boat
passage-free
passage-making
passage-work
passaree boom
passe-partout
passe-partouts
passe-temps
passed away
passed ball
passed by
passed master
passed on
passed out
passed over
passed up
passed-master
passenger agent
passenger capacity
passenger car
passenger density
passenger falcon
passenger list
passenger locomotive
passenger manager
passenger mile
passenger mileage
passenger pigeon
passenger plane
passenger steamer
passenger train
passenger-mile
passenger-pigeon
passer-by
passerine bird
passers-by
passing around
passing away
passing belief
passing bell
passing by
passing fancy
passing note
passing over
passing shot
passing spring
passing strake
passing strange
passing the buck
passing through
passing up
passing word
passing-note
passion cross
passion flower
passion fruit
passion nail
passion play
passion sunday
passion week
passion-blazing
passion-breathing
passion-colored
passion-distracted
passion-driven
passion-feeding
passion-filled
passion-flower
passion-fraught
passion-frenzied
passion-guided
passion-kindled
passion-kindling
passion-led
passion-proud
passion-ridden
passion-shaken
passion-smitten
passion-stirred
passion-stung
passion-swayed
passion-swayed
passion-thrilled
passion-thrilling
passion-torn
passion-tossed
passion-wasted
passion-winged
passion-worn
passive algolagnia
passive immunity
passive noun
passive obedience
passive reason
passive resistance
passive resister
passive self-annihilation
passive voice
passive-aggressive reaction
passive-dependence reaction
passive-minded
passy-measures
past and gone
past bearing
past comprehension
past danger
past dispute
past due
past expectation
past experience
past history
past hope
past master
past mistress
past one's head
past participle
past perfect
past perfect tense
past praying for
past progressive tense
past recall
past recollection
past tense
past time
past times
past use
past your prime
past-due
past-master
paste grain
paste mold
paste on
paste wash
paste water
paste-egg
paste-up
pastel blue
pastel color
pastel gray
pastel orange
pastel painting
pastel-tinted
pasteur treatment
pasteurized milk
pastor-elect
pastoral care
pastoral counseling
pastoral drama
pastoral elegy
pastoral epistle
pastoral letter
pastoral poet
pastoral poetry
pastoral prayer
pastoral staff
pastoral theology
pastrami sandwich
pastry bag
pastry chef
pastry cook
pastry cream
pastry custard
pastry flour
pastry shell
pastry tube
pasture bird
pasture grass
pasture land
pasture on
pasture rose
pasture thistle
pasty-faced
pasty-footed
pat hand
pat on the back
pat on the cheek
pat on the head
pat pend
pat yourself on the back
pat-a-cake
pat-pat
patch board
patch bolt
patch box
patch pocket
patch test
patch things up
patch together
patch up
patch up a friendship
patch up a quarrel
patch-box
patching plaster
patchouli oil
patchwork quilt
pate d'amande
pate de foie gras
patellar reflex
patent anchor
patent block
patent flour
patent hammer
patent leather
patent light
patent log
patent medicine
patent note
patent office
patent right
patent slip
patent space
patent still
patent-cut jib
pater patratus
paternal ancestor
paternal domicile
paternal love
paternal roof
paternity suit
paternoster line
path of least resistance
path-
pathetic fallacy
patho-
pathologic anatomy
pathological chemistry
pathological condition
pathological drinker
pathological drunkenness
pathological indecisiveness
pathological intoxication
pathological liar
pathological lying
pathological type
patience dock
patience of Job
patience-dock
patient as Job
patient man
patient of
patina green
patio process
pat-
patres conscripti
patri-
patria potestas
patriarchal basilica
patriarchal cross
patriarchate of Alexandria
patriarchate of Antioch
patriarchate of Constantinople
patriarchate of Jerusalem
patriots' day
patristic philosophy
patristic theology
patrol boat
patrol bomber
patrol car
patrol plane
patrol torpedo boat
patrol wagon
patron of drama
patron saint
patronal festival
patronizing attitude
patten maker
patter song
pattern after
pattern bargaining
pattern bombing
pattern box
pattern card
pattern designer
pattern maker
pattern of perfection
pattern reader
pattern wheel
pattern-bomb
pattes de mouche
patty shell
patty-cake
patty-shell
pauci-
paucis verbis
paul bunyan
paulo-post-future
paunch mat
pauper costs
pauper-born
pauper-bred
pauper-breeding
pauper-fed
pauper-feeding
pauper-making
pause for station identification
pauvre diable
pave the way
pave the way to
paved road
pavement ant
pavement artist
pavement epithelium
pavement light
paver of the way
pavilion hospital
pavilion roof
paving brick
paving material
paving roller
paving stone
paving tile
pavor nocturnus
paw print
paw-paw
paw-pawness
pawed-over
pawl bitt
pawl head
pawl post
pawl rim
pawn ticket
pax in bello
pax tecum
pax vobiscum
pay COD
pay a compliment
pay a visit
pay addresses to
pay after deductions
pay after taxes
pay and allowances
pay as you go
pay at sight
pay attention
pay attention to
pay attentions to
pay back
pay back in full measure
pay bed
pay by installments
pay cash
pay cash down
pay cash on delivery
pay cash on the barrelhead
pay clerk
pay close attention
pay conscience money
pay court to
pay damages
pay dearly
pay dirt
pay divine honors to
pay down
pay envelope
pay exorbitantly
pay for
pay heed
pay heed to
pay homage to
pay honor to
pay in
pay in advance
pay in full
pay in kind
pay load
pay mind to
pay more than it's worth
pay no attention
pay no attention to
pay no mind
pay no regard to
pay off
pay off old scores
pay off the head
pay old debts
pay on
pay one in his own coin
pay out
pay over
pay phone
pay raise
pay regard to
pay reparation
pay reparations
pay respect to
pay roll
pay scot and lot
pay someone back in his own coin
pay spot cash
pay station
pay strict attention
pay suit to
pay the bill
pay the bills
pay the costs
pay the debt of nature
pay the debt to nature
pay the forfeit
pay the penalty
pay the piper
pay the shot
pay through the nose
pay to the tune of
pay too much
pay tribute
pay tribute to
pay up
pay you in your own coin
pay you in your own currency
pay your
pay your addresses to
pay your court to
pay your dues
pay your respects to
pay your share
pay your way
pay-
pay-TV
pay-all
pay-as-you-go
pay-day
pay-off
pay-rent
pay-roller
paying back
paying guest
paying off
paying out
paying the bills
paying up
paymaster general
paymaster-generalship
payment bill
payment in kind
pay no regard to
payroll deduction insurance
payroll padding
pe-tsai cabbage
pea bean
pea beetle
pea blight
pea coal
pea comb
pea crab
pea flower
pea green
pea grit
pea huller
pea in the shoe
pea jacket
pea measles
pea mildew
pea moth
pea ore
pea rifle
pea sheller
pea shrub
pea soup
pea souper
pea tree
pea vetchling
pea vine
pea weevil
pea-brained
pea-chick
pea-coat
pea-combed
pea-flower
pea-flowered
pea-jacket
pea-picking
pea-shoot
pea-sized
pea-soup
pea-soup fog
pea-souper
pea-soupy
pea-tree
peabody bird
peace and quiet
peace be to this house
peace be to you
peace be with you
peace be within thy walls
peace conference
peace dove
peace establishment
peace feelers
peace giver
peace guild
peace lover
peace of God
peace of heart
peace of mind
peace of soul
peace of spirit
peace offensive
peace offer
peace offering
peace officer
peace pipe
peace warrant
peace-abiding
peace-blessed
peace-breathing
peace-bringing
peace-enamored
peace-giving
peace-inspiring
peace-keeping force
peace-loving
peace-lulled
peace-offering
peace-preaching
peace-procuring
peace-restoring
peace-trained
peaceful change
peaceful coexistence
peaceful death
peaceful end
peaceful protest
peaceful sleep
peach aphid
peach bacteriosis
peach bark beetle
peach bell
peach blight
peach blister
peach bloom
peach blossom
peach borer
peach canker
peach color
peach fuzz
peach melba
peach moth
peach red
peach rosette
peach twig borer
peach wine
peach-blossom
peach-blow
peach-colored
peach-kernel oil
peach-leaved
peachblossom pink
peachblow glass
peachtree borer
peachy-keen
peacock blue
peacock butterfly
peacock fan
peacock green
peacock heron
peacock iris
peacock moth
peacock ore
peacock pheasant
peacock poppy
peacock worm
peacock's feather
peacock's tail
peacock-blue
peacock-feathered
peacock-fish
peacock-flower
peacock-herl
peacock-hued
peacock-spotted
peacock-voiced
peak crest
peak factor
peak load
peak out
peaked cap
peaking circuit
peaky-faced
peal of applause
peal of laughter
peal of thunder
peal ringing
peanut bar
peanut brittle
peanut butter
peanut butter and jelly sandwich
peanut flour
peanut gallery
peanut oil
peanut politician
peanut politics
peanut tube
peanut worm
pear blight
pear blight beetle
pear borer
pear brandy
pear gauge
pear haw
pear midge
pear scale
pear shell
pear slug
pear squash
pear thorn
pear thrips
pear-leaved
pear-shaped
pearl ash
pearl barley
pearl blue
pearl bluish
pearl blush
pearl-like
pearl-lined
pearl-lipped
pearl-oyster
pearl-pale
pearl-pure
pearl-round
pearl-set
pearl-shell
pearl-studded
pearl-teethed
pearl-toothed
pearl-white
pearl-wreathed
pearl-yielding
pearly everlasting
pearly king
pearly nautilus
pearly-white
pearten up
peas in a pod
peasant blue
peasant cunning
peasant holder
peasant proprietor
peasant proprietorship
peasant revolt
peasant sleeve
peasant-born
pease brose
pease cod
pease pudding
peasecod breastplate
peat bank
peat bog
peat coal
peat digger
peat fiber
peat gas
peat hag
peat machine
peat moor
peat moss
peat reek
peat soil
peat spade
peat-roofed
peat-smoked
peau de soie
pebble cast
pebble dash
pebble gravel
pebble grinder
pebble heater
pebble leather
pebble mill
pebble powder
pebble vetch
pebble-covered
pebble-dashed
pebble-paved
pebble-paven
pebble-shaped
pebble-stone
pebble-strewn
pecan brown
pecant humor
peche melba
peck at
peck horn
peck of troubles
peck order
peckerwood mill
pecking order
pecky cypress
pectic acid
pectin sugar
pectini-
pectoral arch
pectoral cross
pectoral fin
pectoral girdle
pectoral muscle
pectoral sandpiper
peculiar expression
peculiar institution
peculiar people
peculiar thing
peculiar trait
pecuniary advantage
pecuniary aid
pecuniary resources
ped-
pedal board
pedal brake
pedal cords
pedal coupler
pedal curve
pedal extremity
pedal ganglion
pedal key
pedal keyboard
pedal note
pedal organ
pedal piano
pedal point
pedal polygon
pedal pushers
pedal surface
pedal wheel
pedal-pushers
pedately cleft
pedately veined
pedati-
peddler's cart
pede cloth
pede window
pedestal box
pedestal mount
pedestal pile
pedestal rock
pedestal table
pedestrian crossing
pedi-
pedigree clause
pedo-
pedunculate oak
pee your pants laughing
pee-pee
peek in
peek-bo
peel end
peel off
peel tower
peeled eye
peelie-wally
peeling disease
peen hammer
peen-to
peening rammer
peep frog
peep hawk
peep into the future
peep nap
peep of day
peep out
peep plate
peep show
peep sight
peep-bo
peep-hole
peep-show
peeping tom
peer at
peer group
peer into
peer of the realm
peer out
peers of the realm
peevish person
peg along
peg at
peg away
peg down
peg drum
peg float
peg leg
peg on
peg out
peg pants
peg the market
peg to hang on
peg tooth
peg top
peg-a-lantern
peg-tooth harrow
peg-top
pegged market
pegging awl
peking man
pelagic zone
pelargonic acid
pelargonium oil
pelican crossing
pelican fish
pelican flower
pelican hook
pell mell
pell-mell
pellagra-preventive factor
pellet bow
pellet molding
pellitory bark
pelo-
pelorus card
pelt rot
pelt wool
pelti-
pelting rain
pelvi-
pelvic arch
pelvic fin
pelvic girdle
pembrooked table
pen and ink
pen cancellation
pen driver
pen driving
pen feather
pen friend
pen in
pen keeping
pen machine
pen maker
pen mating
pen name
pen nib
pen pal
pen palsy
pen picture
pen point
pen portrait
pen portraiture
pen pot
pen pusher
pen pushing
pen sketch
pen up
pen yan
pen-
pen-and-ink
pen-bearing
pen-cancel
pen-clerk
pen-driver
pen-feather
pen-feathered
pen-fish
pen-pusher
pen-shaped
pencil-mark
pencil-shaped
pendant bow
pendant cloud
pendant post
pendant switch
pendant tackle
pendant-shaped
pendant-winding
pendent post
pendente lite
pendulum bob
pendulum clock
pendulum level
pendulum motion
pendulum press
pendulum pump
pendulum watch
pendulum wheel
pene-
penetrate into the mind
penetrated with
penetrating eye
penetrating look
penguin duck
penguin grass
peninsula pine
penis envy
penitent form
penitential Psalm
penitential act
penitential exercise
penitentiary book
pennant fish
pennant hoist
pennant-winged
pennati-
penner-up
penni-
penniless man
pennsylvania dutch
penny ante
penny arcade
penny bank
penny black
penny bridal
penny cake
penny dreadful
penny gaff
penny grass
penny hat
penny horrible
penny loaf
penny pies
penny pincher
penny post
penny rent
penny stock
penny stocks
penny tree
penny wedding
penny wheep
penny whistle
penny wisdom
penny-a-line
penny-a-liner
penny-cress
penny-dreadful
penny-farthing
penny-gaff
penny-grass
penny-pinch
penny-pincher
penny-pinching
penny-plain
penny-stone
penny-whistle
penny-wise
penny-wise and pound-foolish
pension off
pensionable age
pensioned off
pensioning off
pent road
pent roof
pent-roof
pent-up
pent-up in the memory
penta-
penta-acetate
pentaerythritol tetranitrate
pentagon dodecahedron
pentagonal dodecahedron
pentane lamp
pentanoic acid
pentatonic scale
penteconta-
penthouse roof
pentobarbitone sodium
pentose nucleic acid
pentose sugar
pentyl acetate
pentyl alcohol
pentyl group
peony dahlia
peony-flowered
people at large
people in general
people of fashion
people's democracy
people's front
people's republic
people's war
people-blinding
people-born
people-devouring
people-king
people-loving
people-pestered
people-pleasing
pep pill
pep rally
pep talk
pep up
pepped up
pepper bush
pepper caster
pepper game
pepper mill
pepper oil
pepper plant
pepper pod
pepper pot
pepper red
pepper sauce
pepper spot
pepper tree
pepper turnip
pepper vine
pepper wheat
pepper-and-salt
pepper-and-salt rope
pepper-box
pepper-castor
pepper-pot
pepper-tree
peppercorn rent
peppered moth
peppermint camphor
peppermint geranium
peppermint gum
peppermint oil
peppermint stringbark
peppermint tree
peptic digestion
peptic ulcer
peptide bond
per an
per annum
per ascensum
per bend
per capita
per caput
per cent
per centum
per chevron
per compound
per contra
per descensum
per diem
per head
per mensem
per mil
per mill
per pais
per pale
per pro
per procuration
per procurationem
per saltire
per saltum
per se
per second per second
per simpliciter
per stirpes
per-
perboric acid
perceived noise decibel
percentage composition
percentage error
percentage tare
perception deafness
perceptual defence
perch pole
perching bird
perchlor-
perchloric acid
perchomic acid
percolate in
percolate into
percussion bullet
percussion cap
percussion drilling
percussion figure
percussion fire
percussion fuse
percussion hammer
percussion instrument
percussion lock
percussion section
percussion stop
percussion table
percussion-proof
percussive welding
peregrine falcon
pereira bark
peremptory challenge
peremptory plea
peremptory refusal
perennial pea
perennial phlox
perennial ryegrass
perennial treatment
perennial-rooted
perfect binding
perfect body
perfect cadence
perfect competition
perfect contrition
perfect flower
perfect fool
perfect game
perfect gas
perfect gentleman
perfect lady
perfect likeness
perfect number
perfect participle
perfect pitch
perfect radiator
perfect ream
perfect rhyme
perfect square
perfect tense
perfect type
perfect usufruct
perfect year
perfecting press
perfecting touch
perfective aspect
perfectly sure
perfector press
perfide Albion
perforated tape
perforated tracery
perforation gauge
perform a
perform a part
perform a part in
perform a rite
perform a role
perform action
perform aerobatics
perform as
perform divine service
perform music
perform on
perform rites
perform service
perform the act of love
perform the duties of
perform the functions of
perform the marriage act
perform the office of
perform your duty
performance test
performing area
performing arts
pergelisol table
peri-
peri-insular
periarteritis nodosa
pericline twinning
peridental membrane
peridot of Ceylon
perigean tide
perigean tides
peril point
peril-laden
perilla oil
perineo-
period of duty
period of existence
period of revolution
period of rotation
period piece
period style
periodic acid
periodic function
periodic law
periodic motion
periodic sentence
periodic system
periodic table
periodic wave
periodical cicada
periodical index
periodicity factor
periodontal membrane
periodontal tissue
periost-
periosteo-edema
peripatetic exercise
peripatetic journey
peripheral device
peripheral field
peripheral nervous system
peripheral neuritis
peripheral speed
peripheral vision
periscopic lens
perish the thought
perish with cold
perishing with hunger
periton-
periwig chair
periwinkle blue
perjure yourself
perjury-proof
perk up
perle cotton
permafrost table
permanent magnet
permanent magnet speaker
permanent magnetism
permanent press
permanent tooth
permanent wave
permanent way
permanent white
permanent yellow
permanent-press fabric
permanganic acid
permeate by nature
permission to enter
permissions editor
permit all
permit anything
permit bond
permonosulfuric acid
permutation lock
pernicious anaemia
pernicious anemia
pernicious weed
pernyi silkworm
peroxide blond
peroxide-blond
peroxy group
peroxy radical
peroxy-
peroxymonosulfuric acid
peroxysulfuric acid
peroxysulphuric acid
perpend stone
perpend wall
perpendicular distance
perpendicular hand
perpetual adoration
perpetual bond
perpetual calendar
perpetual motion
perplexed question
persecution complex
persian cat
persian lamb
persist in
persistence of vision
persistent cruelty
persistent lactation
person in charge
person of consequence
person of fashion
person of importance
person of note
person of renown
person to be reckoned with
person-to-person
person-to-person call
persona grata
persona non grata
personae gratae
personae non gratae
personal adviser
personal aims
personal ambition
personal appearance
personal choice
personal column
personal conflict
personal correspondence
personal desires
personal effects
personal eq his essays
personal equation
personal file
personal idealism
personal identity
personal initiative
personal judgment
personal letter
personal liberty
personal matter
personal name
personal pronoun
personal property
personal property tax
personal remark
personal responsibility
personal shopper
personal sonar
personal staff
personal style
personal usage
personality bob
personality conflict
personality disintegration
personality disorder
personality disorganization
personality inventory
personality tendency
personality test
personality type
personnel director
personnel manager
persons of the drama
perspiration odor
persuade yourself
persuasion-proof
persulfuric acid
persulphuric acid
pertain to
pertaining to
pertinent to
peruvian bark
pervading attitude
pervading attitudes
perverse fool
perverse personality
perverse-notioned
perverted image
pest pear
pest-house
pest-ridden
pestilence-proof
pestle and mortar
pestle-shaped
pet cock
pet expression
pet food
pet lamb
pet name
pet peeve
pet subject
pet-cock
petal pink
pete blower
pete man
peter boat
peter gunner
peter out
peter pan
peter's pence
peter-boat
peter-penny
petit bleu
petit bourgeois
petit dejener
petit feu
petit four
petit juror
petit jury
petit larceny
petit mal
petit point
petit serjeanty
petit souper
petit treason
petit-bourgeois
petit-juror
petit-juryman
petit-maitre
petit-maitre
petit-mattre
petit-negre
petit-noir
petite bourgeoisie
petite marmite
petite noblesse
petite perception
petites perceptions
petitio principii
petition nomination
petition-proof
petits bourgeois
petits fours
petr-
petrarchan sonnet
petri dish
petrified forest
petrified wood
petro-
petro-occipital
petrol engine
petrol station
petroleum asphalt
petroleum benzine
petroleum coke
petroleum engine
petroleum engineer
petroleum engineering
petroleum ether
petroleum grease
petroleum jelly
petroleum naphtha
petroleum spirit
petticoat breeches
petticoat government
petticoat insulator
petticoat narcissus
petticoat pipe
petty bourgeois
petty bourgeoisie
petty canon
petty captain
petty cash
petty cashbook
petty criticism
petty gambler
petty grafter
petty juror
petty jury
petty king
petty larceny
petty mind
petty officer
petty officer first class
petty officer second class
petty officer third class
petty politician
petty politics
petty sessions
petty theft
petty thief
petty treason
petty tyrant
petty-bag
petty-minded
petty-mindedly
petty-mindedness
petulant person
petunia violet
peu de chose
pew chair
pew hinge
pew opener
pew rent
pew rental
pew renter
pewter mill
phaeton butterfly
phago-
phagocytic immunity
phako-
phallic stage
phallic symbol
phallic worship
phallic worshiper
phanero-
phantom acceleration
phantom circuit
phantom larva
phantom limb
phantom minnow
phantom of the mind
phantom orchid
phantom picture
phantom red
phantom tumor
phantom wire
phantom-fair
phantom-white
pharaoh ant
pharmaceutical chemist
pharmaco-
pharmaco-oryctology
pharyng-
pharyngeal cavity
pharyngeal tonsil
pharyngo-
pharyngo-oesophageal
pharyngo-oral
phase adjustment
phase advancer
phase angle
phase contrast microscope
phase control
phase converter
phase difference
phase discriminator
phase in
phase inverter
phase microscope
phase modulation
phase out
phase rule
phase space
phase splitter
phase splitting
phase transformer
phase velocity
phase-contrast
phase-discriminating amplifier
phase-rotation relay
phase-shift microphone
phase-wound
phase-wound rotor motor
phases of the moon
phatic communion
pheasant cuckoo
pheasant duck
pheasant under glass
pheasant's eye
pheasant's-eye
pheasant's-eyes
pheasant-eyed
pheasant-plumed
pheasant-shell
pheasant-tailed
phello-
phen-
phenacyl chloride
phenarsazine chloride
phenethyl alcohol
pheno-
phenobarbital sodium
phenol alcohol
phenol aldehyde
phenol coefficient
phenol red
phenol-pthalein
phenolic resin
phenolic urea
phenomenological psychology
phenomenological theology
phenyl acetate
phenyl alcohol
phenyl cyanide
phenyl ether
phenyl ethyl ether
phenyl group
phenyl iodide
phenyl isocyanate
phenyl mercaptan
phenyl methyl ketone
phenyl salicylate
phenyl valerate
phenylaminopropionic acid
phenylene blue
phenylene group
phenylethyl alcohol
phenylethylbarbituric acid
phenylformic acid
phenylic acid
phenylmethylcarbinyl acetate
phenylpropyl acetate
phenylpyruvic oligophrenia
phi-meson
phi-phenomena
phi-phenomenon
phil-
philene butterfly
philharmonic pitch
phil-
philosopher king
philosopher's stone
philosopher's wool
philosophers' stone
philosophic composure
philosophic doctrine
philosophic system
philosophic theory
philosophical anthropology
philosophical existentialism
philosophical existentialism
philosophical existentialist
philosophical idealism
philosophical induction
philosophical inquiry
philosophical investigation
philosophical optimism
philosophical optimist
philosophical pitch
philosophical proposition
philosophical speculation
philosophical theology
philosophical unitarianism
philosophico-
philosophy learned from examples
philosophy of being
philosophy of organism
philosophy of signs
philosophy of the Academy
philosophy of the Garden
philosophy of the Lyceum
philosophy of the Porch
philosophy of the Stoa
phleb-
phlebo-
phloem fiber
phloem necrosis
phloem parenchyma
phloem ray
phloro-
phobic reaction
phoebe bird
phoenix fowl
phon-
phone book
phone call
phone number
phone-in
phonemic alphabet
phonetic alphabet
phonetic character
phonetic law
phonetic spelling
phonetic symbol
phono-
phonograph record
phony disease
phony dividend
phony money
phony peach
phony war
phoo-phoo
phos-
phosph-
phosphate rock
phosphine oxide
phospho-
phosphonium iodide
phosphor bronze
phosphor copper
phosphoric acid
phosphoric anhydride
phosphoro-
phosphorous acid
phosphorous anhy-dride
phosphorus chloride
phosphorus disease
phosphorus necrosis
phosphorus oxide
phosphorus oxychloride
phosphorus pentachloride
phosphorus pentoxide
phosphorus sesquisulfide
phosphorus sulphide
phosphorus trichloride
phosphoryl chloride
phosphoryl group
phosphoryl radical
phossy jaw
phot-
photo finish
photo base
photo finish
photo layout
photo relief
photo spread
photo-
photo-electric
photo-engraving
photo-finish
photo-galvanography
photo-mount
photo-offset
photo-reconnaissance
photo-reconnaissance plane
photo-retouch
photo-set
photo-setting
photochemical process
photoconductor cell
photoelectric cathode
photoelectric cell
photoelectric cell meter
photoelectric cells
photoelectric colorimeter
photoelectric counter
photoelectric current
photoelectric detector
photoelectric device
photoelectric effect
photoelectric emission
photoelectric image converter
photoelectric inspection machine
photoelectric intrusion detector
photoelectric meter
photoelectric multiplier tube
photoelectric photometer
photoelectric pickup
photoelectric pinhole detector
photoelectric recorder
photoelectric sorter
photoelectric threshold
photoelectric timer
photoelectric tube
photoelectric tubes and cells
photoflash bulb
photoflash lamp
photoflash photography
photoflash synchronizer
photoflood lamp
photogelatin process
photograph album
photographer's model
photographic equipment
photographic magnitude
photographic memory
photographic paper
photographic realism
photographic reproduction
photographic telescope
photomicrographic camera
photomultiplier tube
photosensitive device
photosensitive devices
photosensitive glass
photostatic copy
phototypesetting machine
photovoltaic cell
photovoltaic effect
phrasal idiom
phrasal verb
phrase book
phrase mark
phrase marker
phrase structure
phrase-structure grammar
phrase-structure rule
phren-
phreno-
phthalic acid
phthalic anhydride
phthalocyanine blue
phthalocyanine green
phyco-
phyl-
phyll-
phyllo-
phylo-
physi-
physic nut
physic-nut
physical anthropology
physical body
physical charm
physical checkup
physical chemistry
physical condition
physical culture
physical culturist
physical dependence
physical diagnosis
physical double star
physical education
physical examination
physical fitness
physical force
physical geography
physical geology
physical jerks
physical love
physical map
physical medicine
physical metallurgy
physical meteorology
physical optics
physical pendulum
physical pleasure
physical presence
physical science
physical sensibility
physical suffering
physical therapist
physical therapy
physical unfeeling
physical world
physician in ordinary
physico-
physico-theology
physio-
physiographic geology
physiologic epilepsy
physiological atmosphere
physiological botany
physiological chemistry
physiological individual
physiological phonetics
physiological psychology
physiological saline
physiological salt soluti
physiological salt solution
physiologically addictive
physo-
phyt-
phytic acid
phyto-
phytogenic infection
pi a form
pi meson
pi-jaw
pi-meson
pia mater
pia-arachnitis
pia-arachnoid
pia-matral
piacicular offering
piano accordion
piano action
piano deal
piano duet
piano keys
piano lamp
piano nobile
piano organ
piano player
piano player roll
piano quartet
piano quintet
piano roll
piano score
piano stool
piano subito
piano trio
piano wire
piano-organ
piano-player roll
piano-violin
pica em
picaresque novel
picayune critic
piccolopasso red
pick a bone with
pick a hole
pick a quarrel
pick and choose
pick apart
pick at
pick clean
pick clock
pick dressing
pick eye
pick glass
pick hammer
pick holes
pick nits
pick off
pick on
pick out
pick over
pick rake
pick the bones of
pick the brains of
pick the lock
pick to pieces
pick tongs
pick up
pick up an acquaintance with
pick up information
pick up speed
pick up the check
pick up the mooring
pick up the tab
pick your brains
pick your pockets
pick your steps
pick your way
pick-
pick-a-back
pick-bearing
pick-me-up
pick-nosed
pick-off
pick-up
pick-up arm
pick-up sticks
pick-up-sticks
pickaback plane
pickax team
picke-devant
picked dogfish
picked on
picked up
picked-hatch
picker-up
pickerel frog
pickerel-weed
picket fence
picket fort
picket guard
picket line
picket patrol plane
picket pin
picket ship
picket tail
picking and choosing
picking out
picking up
picking up the check
picking up the tab
pickle grass
pickle green
pickle moth
pickle-cured
pickle-herring
pickup arm
pickup camera
pickup current
pickup service
pickup tube
pickup unit man
picnic basket
picnic ham
picnic races
picnic shoulder
pico-
picot edge
picot stitch
pier-
pieric acid
picric acid
picro-
pictographic character
pictographic symbol
picture book
picture bride
picture card
picture cards
picture carrier
picture channel
picture control
picture detector
picture frame
picture gallery
picture hat
picture hook
picture house
picture in your mind
picture layout
picture marriage
picture mirror
picture mold
picture molding
picture monitor
picture noise
picture of health
picture ore
picture palace
picture plane
picture play
picture playwright
picture post card
picture postcard
picture rail
picture sash
picture shifts
picture show
picture spread
picture to yourself
picture tube
picture tubes
picture window
picture wire
picture writing
picture, the
picture-borrowing
picture-broidered
picture-buying
picture-dealing
picture-hanging
picture-hung
picture-painting
picture-pasted
picture-seeking
picture-taking
picture-writing
pictures, the
piddling few
piddling number
pidgin English
pie baker
pie board
pie chart
pie dish
pie eater
pie filler
pie filling
pie in the sky
pie knife
pie maker
pie making
pie meat
pie piece
pie plate
pie rack
pie tin
pie vendor
pie wagon
pie wool
pie-baking
pie-eater
pie-eyed
pie-faced
pie-gow
pie-stuffed
piebald skin
piece accent
piece bien faite
piece brace
piece broker
piece by piece
piece de resistance
piece goods
piece justificative
piece mold
piece of advice
piece of ass
piece of cake
piece of eight
piece of evidence
piece of exchange
piece of gold
piece of good luck
piece of gossip
piece of guesswork
piece of land
piece of meat
piece of money
piece of news
piece of sharp practice
piece of silver
piece of virtu
piece of work
piece of writing
piece of your mind
piece out
piece price
piece price system
piece rate
piece together
piece wage
piece-dye
piece-dyed
piecing together
piecrust table
pied blackbird
pied goose
pied noir
pied wagtail
pied-
pied-a-terre
pied-billed
pied-billed grebe
pied-coated
pied-colored
pied-de-biche
pied-faced
pied-piping
pied-winged
piedmont glacier
pieds de cochon
pien check
pier arch
pier buttress
pier dam
pier glass
pier table
pier-head
pierce the ears
pierce the heart
pierce to the depths
pierced dollar
piercing eye
piercing look
piercing pain
piercing wind
pierian spring
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 14076
pig-jaw
pig-jawed
pig-jump
pig-jumper
pig-keeping
pig-metal
pig-nut
pig-proof
pig-tailed
pig-tight
pigeon English
pigeon blood
pigeon breast
pigeon clock
pigeon flyer
pigeon grape
pigeon grass
pigeon hawk
pigeon hole
pigeon house
pigeon loft
pigeon pea
pigeon post
pigeon pox
pigeon timer
pigeon's milk
pigeon's-neck
pigeon-berry
pigeon-breast
pigeon-breasted
pigeon-breastedness
pigeon-hawk
pigeon-hearted
pigeon-hole
pigeon-house
pigeon-livered
pigeon-pea
pigeon-plum
pigeon-tailed
pigeon-toe
pigeon-toed
pigeon-wood
piggy bank
piggy-wiggy
piggyback car
piggyback control
piggyback rocket
pigment cell
pignus judiciale
pignus legale
pigs in blankets
pigs' feet
pigs' knuckles
pigsty bulwark
pigtail hook
pikaba hemp
pike hammer
pike perch
pike pole
pike sauce
pike squirrel
pike whale
pike-eyed
pike-gray
pike-snouted
piked dogfish
pip-
pilaster mass
pilaster strip
pile Pelion on Ossa
pile bent
pile bridge
pile builder
pile building
pile cap
pile drawer
pile drive
pile driver
pile dweller
pile dwelling
pile fender
pile hammer
pile house
pile in
pile it on
pile on
pile out
pile shoe
pile up
pile weave
pile weaving
pile wire
pile-built
pile-driven
pile-driver
pile-driving
pile-woven
pileated woodpecker
pilferage hazard
pilgrim bottle
pilgrim brown
pilgrim ring
pilgrim scallop
pilgrim's bottle
pilgrim's staff
pilgrimage psalm
pili nut
piling strip
pill bug
pill pipe
pill slab
pill tile
pill wood louse
pill, the
pill-boasting
pill-box
pill-dispensing
pill-gilding
pill-rolling
pill-shaped
pill-taking
pillar block
pillar bolt
pillar box
pillar crane
pillar cult
pillar dollar
pillar file
pillar lip
pillar mount
pillar of society
pillar of the church
pillar plate
pillar post
pillar saint
pillar stone
pillar-and-breast
pillar-box
pillar-shaped
pillow block
pillow fight
pillow lace
pillow lava
pillow sham
pillow slip
pillow sword
pillow word
pillow-case
pillow-shaped
pilo-
pilose bent grass
pilot balloon
pilot bird
pilot biscuit
pilot boat
pilot bread
pilot burner
pilot cell
pilot chart
pilot chute
pilot cloth
pilot driver
pilot engine
pilot film
pilot fish
pilot flag
pilot flame
pilot house
pilot jack
pilot jacket
pilot ladder
pilot lamp
pilot light
pilot method
pilot model
pilot motor
pilot nut
pilot officer
pilot pin
pilot plan
pilot plane
pilot plant
pilot plow
pilot program
pilot raise
pilot signal
pilot skiff
pilot station
pilot trainee
pilot training
pilot tunnel
pilot valve
pin setter
pin something on someone
pin stripe
pin the tail on the donkey
pin tooth
pin tuck
pin tumbler
pin up
pin valve
pin vise
pin wheel
pin wire
pin wrench
pin your ears back
pin your faith to
pin your hope upon
pin yourself upon
pin-brained
pin-buttocked
pin-curl
pin-eyed
pin-feather
pin-fire
pin-head
pin-hole
pin-lever escapement
pin-money
pin-pallet escapement
pin-prick
pin-spotted
pin-striped
pin-tailed
pin-tailed sand grouse
pin-toed
pin-up
pin-wheel
pin-wing
pina cloth
pinacate bug
pinacone-pinacolin
pinafore dress
pinball machine
pinbone steak
pinc-pinc
pince-nez
pincer movement
pincer-shaped
pincers movement
pincers-shaped
pinch bar
pinch effect
pinch hit
pinch hitter
pinch of snuff
pinch out
pinch pennies
pinch phenomenon
pinch point
pinch runner
pinch running
pinch-
pinch-faced
pinch-hit
pinch-hit for
pinch-hitting
pinch-run
pinch-spotted
pinched with hunger
pinched-in
pinchgut money
pincushion distortion
pincushion-flower
pindo palm
pindova palm
pine away
pine bark
pine bark aphid
pine barren
pine barrens
pine borer
pine bullfinch
pine cone
pine end
pine finch
pine for
pine grass
pine grosbeak
pine marten
pine mouse
pine needle
pine nut
pine oil
pine resins
pine sawfly
pine sawyer
pine siskin
pine snake
pine tag
pine tar
pine tree
pine warbler
pine wool
pine worm
pine-apple
pine-barren
pine-bearing
pine-bordered
pine-built
pine-capped
pine-clad
pine-cone fish
pine-covered
pine-crested
pine-crowned
pine-dotted
pine-encircled
pine-fringed
pine-leaf scale
pine-needle oil
pine-sequestered
pine-shaded
pine-shipping
pine-tar oil
pine-tip moth
pine-tree
pine-tree flag
pine-wood
pineal apparatus
pineal body
pineal eye
pineal gland
pineapple cactus
pineapple disease
pineapple fiber
pineapple fungus
pineapple juice
pineapple oil
pineapple weed
piney dammar
piney tallow
piney woods
pinfall Wrestling
ping pong
ping-pong
pinhole camera
pinhole decay
pinhole pupil
pinion focusing microscope
pink bollworm
pink calla lily
pink champagne
pink coat
pink colors and pigments
pink corydalis
pink disease
pink elephant
pink elephants
pink eye
pink gin
pink grass
pink in
pink lady
pink locust
pink of perfection
pink poplar
pink rhododendron
pink salmon
pink salt
pink slip
pink spiders
pink spray
pink squirrel
pink stern
pink tea
pink vine
pink wine
pink-blossomed
pink-bound
pink-breasted
pink-checked
pink-cheeked
pink-coated
pink-colored
pink-eared
pink-eye
pink-eyed
pink-faced
pink-fleshed
pink-flowered
pink-foot
pink-footed
pink-hi
pink-leaved
pink-lipped
pink-ribbed
pink-shaded
pink-shelled
pink-skinned
pink-sterned
pink-striped
pink-tinted
pink-veined
pink-violet
pink-white
pinking iron
pinking shears
pinkster flower
pinnate-leaved
pinnate-ribbed
pinnate-veined
pinnati-
pinnatifid-lobed
pinned down
pinni-
pinning down
pinochle rummy
pinon grass
pinon pine
pinpoint bombing
pinpoint precision
pins and needles
pint pot
pint-pot
pint-size
pint-sized
pintado petrel
pintle boss
pintle chain
pintle hook
pinto bean
pintsch gas
pinup girl
pinwheel roll
pinxter flower
pinxter flower
pioneer day
pioneer tunnel
pious fiction
pious fraud
pip card
pip emma
pip, the
pip-pip
pip-squeak
pipe amygdules
pipe batten
pipe beetle
pipe berth
pipe binder
pipe bomb
pipe box
pipe clay
pipe cleaner
pipe coupling
pipe cutter
pipe die
pipe down
pipe dream
pipe dreamer
pipe dreaming
pipe fitter
pipe fitting
pipe founder
pipe isinglass
pipe line
pipe major
pipe maker
pipe metal
pipe of peace
pipe off
pipe organ
pipe rack
pipe roll
pipe stop
pipe thimble
pipe thread
pipe threader
pipe tongs
pipe tool
pipe up
pipe up a song
pipe vine
pipe welder
pipe wrench
pipe your eye
pipe-bending
pipe-boring
pipe-caulking
pipe-clay
pipe-clayey
pipe-clayish
pipe-cleaning
pipe-cutting
pipe-drawn
pipe-dream
pipe-dreaming
pipe-drilling
pipe-fish
pipe-joint cement
pipe-layer
pipe-line
pipe-necked
pipe-playing
pipe-puffed
pipe-roll
pipe-shaped
pipe-smoker
pipe-stone
pipe-tapping
pipe-thawing
pipe-threading
piperonyl alcohol
piperonyl aldehyde
piperonyl butoxide
pipes of Pan
piping cord
piping hot
piping time of peace
piping times
pippin file
pippin-faced
pippin-hearted
piptostegia root
pique your interest
pique yourself
pirate bird
pirate perch
pirate stream
pis aller
pisang wax
pisci-
pish-pash
pismo clam
piss about
piss and vinegar
piss artist
piss away
piss off
piss pot
piss you off
pissed off
pissed-off
pissy-eyed
pistachia galls
pistachio green
pistachio nut
pistacia gall
pistol carbine
pistol fire
pistol grip
pistol plant
pistol shot
pistol-handle knife
pistol-shaped
pistol-whip
pistol-whipping
piston displacement
piston drill
piston engine
piston motion
piston pin
piston plane
piston power
piston pump
piston ring
piston rod
piston spring
piston valve
piston-valve engine
pit against
pit against one another
pit bank
pit boss
pit brink
pit coal
pit craneman
pit dwelling
pit grave
pit hand
pit head
pit house
pit man
pit of Acheron
pit of your stomach
pit prop
pit sample
pit saw
pit sawing
pit sawyer
pit tomb
pit viper
pit-a-pat
pit-black
pit-blackness
pit-coal
pit-eyed
pit-head frame
pit-headed
pit-hole
pit-marked
pit-pat
pit-patter
pit-rotted
pit-specked
pit-working
pita fiber
pita fibre
pita flax
pita floja
pitch accent
pitch and plunge
pitch and toss
pitch apple
pitch black
pitch board
pitch box
pitch camp
pitch chain
pitch chisel
pitch circle
pitch coal
pitch cone
pitch cylinder
pitch discharger
pitch factor
pitch in
pitch indicator
pitch into
pitch kettle
pitch line
pitch on
pitch opal
pitch pine
pitch pipe
pitch point
pitch pot
pitch ratio
pitch shot
pitch speed
pitch surface
pitch upon
pitch your tent
pitch-and-putt
pitch-and-run
pitch-and-run shot
pitch-and-toss
pitch-black
pitch-blackened
pitch-blackness
pitch-blende
pitch-brand
pitch-brown
pitch-colored
pitch-dark
pitch-darkness
pitch-diameter
pitch-faced
pitch-farthing
pitch-lined
pitch-marked
pitch-ore
pitch-pine
pitch-pipe
pitch-stained
pitched battle
pitched roof
pitcher house
pitcher mold
pitcher molding
pitcher plant
pitcher-plant
pitcher-shaped
pitchfork grass
pitching indicator
pitching niblick
pitching piece
pitching tool
pitchy darkness
pith ball
pith hat
place in the sun
place in your way
place isomerism
place itself
place kick
place kicker
place mat
place name
place of arms
place of articulation
place of assignation
place of confinement
place of habitation or resort
place of torment
place of trade
place of vice
place of worship
place open
place out at interest
place parallel to
place reliance in
place reliance on
place seeker
place setting
place side by side
place the blame for
place the blame on
place the responsibility for
place to live
place to your account
place to your credit
place trust in
place under arrest
place under oath
place upon
place upon record
place where you hang your hat
place your feet carefully
place yourself
place-begging
place-brick
place-grabbing
place-holder
place-holding
place-hunter
place-hunting
place-kick
place-kicker
plain as a pikestaff
plain as day
plain as the nose on your face
plain bearing
plain chant
plain chocolate
plain clothes
plain dealer
plain dealing
plain folks
plain knit
plain lap
plain living
plain people
plain rail
plain sail
plain sailing
plain sense
plain sewing
plain song
plain speaking
plain speech
plain style
plain stylist
plain suit
plain text
plain to be seen
plain tripe
plain wanderer
plain weave
plain words
plain-bodied
plain-bred
plain-clothed
plain-clothes man
plain-darn
plain-dressing
plain-edged
plain-faced
plain-featured
plain-garbed
plain-headed
plain-hearted
plain-laid
plain-looking
plain-mannered
plain-pranked
plain-soled
plain-speaking
plain-spoken
plain-spokenly
plain-spokenness
plain-work
plainclothes man
plan ahead
plan expenditures
plan of action
plan on
plan out
plan position indicator
plan-
planar process
planching nail
plane angle
plane chart
plane curve
plane figure
plane geometry
plane handlers
plane iron
plane of incidence
plane polarization
plane sailing
plane surveying
plane table
plane tree
plane trigonometry
plane-faced
plane-parallel
plane-polarized
plane-shear
plane-sheer
plane-table
plane-tabler
plane-tree
planer center
planer head
planer knife
planer saw
planer tree
planet differential
planet gear
planet wheel
planet-stricken
planet-struck
planetary colony
planetary electrons
planetary house
planetary mansion
planetary nebula
planetary precession
planetary shell
planetaryesimal hypothesis
plani-
planing hull
planing machine
planing mill
plank buttress
plank down
plank plating
plank road
plank scraper
plank-sheer
plank-sheer
planked steak
plankton net
planktonic algae
planned economy
planned parenthood
planning blight
planning board
planning function
planning hull
plano-
plano-concave
plano-convex
planographic printing
planomilling machine
plant a mine
plant anatomy
plant and animal life
plant beard
plant breeder
plant bug
plant cane
plant cell
plant cutter
plant disease
plant factor
plant families
plant feeder
plant fibrin
plant food
plant formation
plant gapeseed
plant geographer
plant geography
plant hair
plant hemp
plant hormone
plant house
plant insulin
plant kingdom
plant life
plant louse
plant part
plant pathology
plant physiology
plant root
plant seed
plant stem
plant thermal efficiency
plant worship
plant worshiper
plant yourself
plant-animal
plant-cutter
plant-eater
plant-eating
plantain lily
plantain squirrel
plantain tree
plantain-eater
plantain-leaved
plantar ligament
plantar nerves
plantar reflex
plantar veins
plantation acre
plantation rubber
planter's punch
planting stick
plantlike flagellate
plash wheel
plasm-
plasma body
plasma cell
plasma cell leukemia
plasma engine
plasma jet
plasma membrane
plasma substitute
plate culture
plate current
plate cutter
plate cylinder
plate driller
plate engraving
plate fulcrum scale
plate gear
plate girder
plate glass
plate glazing
plate heater
plate horse
plate jig
plate keel
plate machine
plate maker
plate mark
plate modulation
plate money
plate oven
plate pail
plate paper
plate piece
plate press
plate printer
plate proof
plate race
plate rail
plate resistance
plate shop
plate tectonics
plate tower
plate tracery
plate-bending
plate-carrier
plate-collecting
plate-cutting
plate-dog
plate-drilling
plate-glass
plate-glazed
plate-incased
plate-layer
plate-mark
plate-mounting
plate-punching
plate-roll
plate-rolling
plate-scarfing
plate-shaped
plate-shearing
plate-tossing
plated stem
platen press
plates of meat
platform balance
platform car
platform deck
platform elevator
platform frame
platform harvester
platform orator
platform oratory
platform rocker
platform scale
platform speaker
platform speaking
platform spring
platform ticket
platform wagon
platin-
platina yellow
platinic chloride
platino-
platinocyanic acid
platinoso-
platinum ammine
platinum black
platinum blond
platinum blonde
platinum lamp
platinum metal
platinum paper
platinum process
platinum sponge
platinum thermometer
platinum-blond
platitudinous ponderosity
platonic love
platoon fire
platoon school
platoon sergeant
platoon system
plats du jour
platted stem
platter-faced
play-
play God
play Russian roulette
play a bunco game
play a deep game
play a desperate game
play a double game
play a double role
play a joke on
play a lone hand
play a part
play a part in
play a practical joke
play a practical joke upon
play a role
play a role in
play a scene
play a trick on
play a waiting game
play acting
play actor
play actorism
play actress
play against
play agent
play along
play around
play around with
play at
play at cross-purposes
play at dice
play at fast and loose with
play at hide and seek
play back
play backer
play ball
play bopeep
play by ear
play by the rules
play cat and mouse with
play construction
play debt
play dirty pool
play doctor
play down
play drum
play ducks and drakes with
play dumb
play d
play fair
play fast and loose
play fast and loose with
play favorites
play first fiddle
play fixer
play footsie with
play for
play for a sucker
play for time
play games
play group
play havoc with
play hell
play hell with
play hide and seek
play hob
play hob with
play hooky
play into the hands of
play it by ear
play it just right
play it like a master
play jazz
play merry hell with
play mischief with
play music
play of color
play of colors
play of fancy
play of light
play of wit
play off
play on
play on the feelings
play on words
play one false
play opposite
play out
play peekaboo
play pipe
play politics
play possum
play pranks
play right
play safe
play script
play second fiddle
play someone false
play the badger game
play the buffoon
play the deuce
play the deuce with
play the devil
play the devil with
play the drums
play the field
play the fool
play the game
play the hell with
play the hypocrite
play the lead
play the market
play the merry hell with
play the mischief with
play the part of
play the ponies
play the pontiff
play the same broken record
play the same old record
play the same old song
play the same old tune
play the spy
play the violin
play therapy
play to the galleries
play to the gallery
play tricks
play truant
play up
play up to
play upon
play violin
play with
play with fire
play with marked cards
play with yourself
play you off against another
play your cards
play your cards well
play your part
play your proper role
play-act
play-bill
play-book
play-by-play
play-day
play-down
play-judging
play-loving
play-off
play-prettty
play-producing
play-reading
playback machine
played out
player piano
playful as a kitten
playground ball
playing God
playing area
playing around
playing by ear
playing card
playing cards
playing engagement
playing field
playing lightly over
playing possum
playing suit
playing trick
playing with fire
playing with yourself
plaza de toros
plea bargaining
plead for
plead guilty
plead ignorance
plead with
plead your case
plead your cause
pleasant company
pleasant journey
pleasant reception
pleasant stimulation
pleasant time
pleasant-eyed
pleasant-faced
pleasant-featured
pleasant-looking
pleasant-mannered
pleasant-minded
pleasant-natured
pleasant-sounding
pleasant-spirited
pleasant-spoken
pleasant-tasted
pleasant-tasting
pleasant-tongued
pleasant-voiced
pleasant-witted
please reply
please the crowd
please the nostrils
please yourself
pleased as Punch
pleased with
pleased with a rattle
pleased with yourself
pleasing style
pleasing to the eye
pleasure dome
pleasure dome of Kubla Khan
pleasure garden
pleasure giver
pleasure ground
pleasure lover
pleasure principle
pleasure seeker
pleasure taker
pleasure trip
pleasure-bent
pleasure-bound
pleasure-giving
pleasure-greedy
pleasure-loving
pleasure-pain
pleasure-seeker
pleasure-seeking
pleasure-shunning
pleasure-tempted
pleasure-tired
pleasure-wasted
pleasure-weary
pleasures of the mind
pledge keeper
pledge of secrecy
pledge taker
pledge the health of
pledge your honor
pledge your word
pledge-bound
pledge-free
plein air
plein jeu
plein-air
plein-air school
plein-airist
pleio-
plenary council
plenary indulgence
plenary inspiration
plenipotentiary power
pleno jure
plenty as blackberries
plenty good enough
plenty of notice
plenty to do
plenum system
pleo-
pleroma violet
plesio-
pleur-
pleurisy root
pleuro-
pleuro-peritoneum
pleuro-pneumonia
pleuropneumonia-like organism
pliant-bodied
pliant-necked
plica polonica
plicato-
plight your faith
plight your honor
plight your troth
plighted bride
plighted faith
plighted love
plighted troth
plimsoll mark
plinth block
plinth course
pio-
plisse crepe
plod along
plop down
plot a course
plot line
plot lines
plot of ground
plot of land
plot out
plot survey
plottage increment
plottage value
plotting board
plotting paper
plough back
plough-boy
plough-head
plough-land
plough-monday
plough-staff
plough-tail
ploughman's spikenard
plover egg
plover page
plover quail
plover-billed
plover-page
plow alms
plow anchor
plow back
plow back into
plow drill
plow hand
plow horse
plow iron
plow out
plow paddle
plow press
plow sole
plow steel
plow team
plow the deep
plow tree
plow truck
plow under
plow up
plow-bred
plow-cloven
plow-shaped
plow-torn
plowshare bone
pluck a crow with
pluck by the beard
pluck out
pluck the beard
pluck up
pluck up by the roots
pluck up heart
pluck up your spirits
pluck with someone
pluck-buffet
plug along
plug and feathers
plug at
plug away
plug bib
plug cap
plug casing
plug cock
plug drill
plug frame
plug hat
plug in
plug rod
plug switch
plug the same theme
plug tobacco
plug up
plug-hatted
plug-ugly
plugged up
plum bladder
plum blotch
plum brandy
plum broth
plum curculio
plum duff
plum fir
plum gouger
plum granite
plum grape
plum pocket
plum pudding
plum purple
plum scab
plum thrips
plum tree
plum violet
plum weevil
plum wine
plum yew
plum-blue
plum-brown
plum-cake
plum-colored
plum-duff
plum-green
plum-pie
plum-porridge
plum-purple
plum-shaped
plum-sized
plum-tinted
plum-tree
plumb bob
plumb bond
plumb joint
plumb level
plumb line
plumb rule
plumb the depths
plumb-
plumb-bob
plumb-line
plumb-rule
plumbago blue
plumbago gray
plumbago slate
plumber block
plumber's snake
plumber-block
plumbo-
plumbous oxide
plume feather
plume grass
plume moss
plume moth
plume nutmeg
plume of smoke
plume polypody
plume poppy
plume stick
plume yourself on
plume-crowned
plume-decked
plume-dressed
plume-embroidered
plume-fronted
plume-gay
plume-like
plume-plucked
plume-plucking
plume-soft
plume-stripped
plumed tussock grass
plummer block
plummer-block
plummeter line
plump as a dumpling
plump as a partridge
plump down
plump fact
plump for
plump in the middle
plump upon
plumy coconut
plunge bath
plunge battery
plunge headlong
plunge in
plunge in water
plunge into
plunge into debt
plunge into difficulties
plunge into dissipation
plunge rod
plunge the world into war
plunge you into despair
plunge you into sorrow
plunged in debt
plunged in grief
plunger bucket
plunger elevator
plunger magnet
plunger piston
plunger pump
plunging fire
plunging neckline
plunk down
plunk down the money
plunk for
plural number
plural system
plural vote
plural voting
pluralistic idealism
pluri-
plus c'est la même chose
plus ça change
plus fours
plus head
plus lens
plus ou moins
plus sight
plus sign
plus thread
plus-foured
plus-fours
plush copper
plush stitch
plutonic rock
plutonium bomb
plutonium reactor
ply metal
ply rolling
ply the oar
ply upon
ply yarn
ply your trade
plymouth brethren
plymouth cloak
plymouth rock
plywood saw
pn-
pneo-
pneum-
pneumat-
pneumatic clock
pneumatic hammer
pneumatic servo
pneumatic tire
pneumatic trough
pneumatic tyre
pneumatic-tired
pneumatico-
pneumatico-hydraulic
pneumato-
pneumato-hydato-genetic
pneumo-
pneumococcal pneumonia
pneumogastric nerve
pneumonic fever
pneumonic plague
pneumono-
po-faced
poached eggs
poacher tub
poalike fescue grass
pock lymph
pock nook
pock scab
pock-arred
pock-frecken
pock-fretten
pock-marked
pock-pit
pocket battleship
pocket billiards
pocket bird
pocket bladder
pocket book
pocket boom
pocket borough
pocket burner
pocket chisel
pocket chronometer
pocket edition
pocket fiddle
pocket flap
pocket flask
pocket gopher
pocket lighter
pocket money
pocket mouse
pocket notebook
pocket picking
pocket piece
pocket plum
pocket print
pocket radio
pocket rat
pocket sheriff
pocket the affront
pocket trumpet
pocket veto
pocket watch
pocket-book
pocket-eyed
pocket-handkerchief
pocket-knife
pocket-money
pocket-size
pocket-sized
poco a poco
poco-curante
pod auger
pod borer
pod corn
pod fern
pod gimlet
pod rot
pod shrimp
pod-shaped
poddly-dodger
podo-
podophyllin resin
poe-bird
poecilo-
poet laureate
poet's narcissus
poet-artist
poet-dramatist
poet-farmer
poet-historian
poet-humorist
poet-in-residence
poet-king
poet-laureateship
poet-musician
poet-novelist
poet-painter
poet-patriot
poet-pilgrim
poet-playwright
poet-plowman
poet-preacher
poet-priest
poet-princess
poet-saint
poet-satirist
poet-seer
poet-thinker
poet-warrior
poetic division
poetic genius
poetic image
poetic imagery
poetic imagination
poetic inspiration
poetic justice
poetic kineticist
poetic kinetics
poetic language
poetic licence
poetic license
poetic prose
poetic realism
poetic realist
poetic source
poetic tachism
poetic tachist
poetic works
poetico-
poetico-antiquarian
poetico-architectural
poetico-grotesque
poetico-mystical
poetico-mythological
poetico-philosophic
poetry Muses
poetry image
poetry-proof
poets laureate
pogo stick
pogo-stick
poikilo-
point a moral
point alphabet
point at
point at issue
point bar
point blanket
point boat
point champain
point charge
point chisel
point co-ordinate
point count
point d'Angleterre
point d'appui
point d'esprit
point de Hongrie
point de gaze
point defect
point draftsman
point duchesse
point duty
point fuse
point group
point handle
point hole
point in question
point indirectly to
point lace
point of a pin
point of articulation
point of convergence
point of departure
point of difference
point of etiquette
point of flight
point of honor
point of honour
point of inflection
point of interest
point of land
point of no return
point of order
point of repose
point of sailing
point of the chin
point of time
point of vantage
point of view
point off
point out
point out to
point paper
point rail
point salient
point set
point source
point space
point switch
point system
point tense
point the finger at
point the finger of scorn
point the way
point to
point to be solved
point transformation
point up
point-bearing pile
point-blank
point-blank refusal
point-by-point comparison
point-contact transistor
point-device
point-duty
point-event
point-junction transistor
point-lace
point-laced
point-on
point-particle
point-ring sight
point-set
point-set topology
point-to-point
point-to-point navigation
point-to-point race
pointed arch
pointed fox
pointed projection
pointing bone
pointing chisel
pointing doors
pointing mark
pointing out
pointing to
pointing tool
pointing trowel
points d'appui
points of the compass
poised against one another
poison bean
poison bush
poison dogwood
poison elder
poison gas
poison haw
poison hemlock
poison injector
poison ivy
poison mask
poison oak
poison parsley
poison pen
poison rye grass
poison sumac
poison sumach
poison tobacco
poison-laden
poison-pen
poison-pen letter
poison-pen writer
poison-sprinkled
poison-tainted
poison-tipped
poison-toothed
poisonous plant
poisonous plants
poitrine d'agneau
poitrine de veau
poke along
poke around
poke at
poke bonnet
poke brim
poke check
poke full of holes
poke fun at
poke in
poke into
poke out
poke the fire
poke your nose in
poke your nose into something
poke-bonnet
poke-bonneted
poke-brimmed
poke-cheeked
poke-easy
poke-pudding
poker dice
poker face
poker machine
poker work
poker-faced
poker-work
poky bonnet
polacca rig
polacca-rigged
poland china
polar axis
polar bear
polar body
polar circle
polar coordinate
polar coordinates
polar data
polar distance
polar easterlies
polar equation
polar fox
polar front
polar lights
polar opposites
polar opposition
polar ray
polar seal
polar sequence
polar star
polar valence
polari-
polarity cap
polarity of opinion
polarized-relay armature
polarizing angle
polarizing filter
polarizing microscope
pole bean
pole chain
pole changer
pole compass
pole effect
pole flounder
pole hammer
pole horse
pole jump
pole jumper
pole lathe
pole mast
pole of cold
pole piece
pole pitch
pole plate
pole screen
pole star
pole strap
pole topgallant mast
pole trawl
pole vault
pole vaulter
pole vaulting
pole-armed
pole-axe
pole-dried
pole-jump
pole-masted
pole-shaped
pole-stack
pole-trap
pole-vault
pole-vaulter
poles apart
poles asunder
polewood stage
poli-sci
police action
police alarm
police badge
police band
police baton
police blotter
police boat
police captain
police car
police chief
police club
police commissioner
police constable
police court
police detective
police dog
police force
police headquarters
police inquiry
police inspector
police interrogation
police investigation
police judge
police jury
police justice
police lantern
police lieutenant
police magistrate
police matron
police office
police officer
police power
police reporter
police sergeant
police state
police station
police up
police van
police wagon
police whistle
police-up
policeman bird
policeman’s helmet
policemanic station
policy loan
policy maker
policy racket
policy science
policy shop
policy year
policy-holder
polio vaccine
polish off
polish the apple
polish the platter
polish up
polished rice
polissoir wheel
polite act
polite behavior
polite commendation
polite deportment
polite literature
polite society
political activism
political activist
political affairs
political animal
political arithmetic
political ballot
political behavior
political belief
political campaign
political canard
political candidate
political caucus
political commissar
political conservatism
political convention
political corruption
political dabbler
political doubletalk
political economist
political economy
political election
political faith
political front
political geography
political government
political hack
political henchman
political hopeful
political influence
political intrigue
political intriguer
political jargon
political leader
political leadership
political liberty
political machine
political map
political movement
political nomination
political organization
political party
political patronage
political philosophy
political platform
political police
political policy
political principle
political principles
political prisoner
political program
political question
political realist
political referendum
political science
political scientist
political theory
political worker
political-minded
politician-proof
politico-
politico-arithmetical
politico-commercial
politico-diplomatic
politico-ecclesiastical
politico-economical
politico-ethical
politico-geographical
politico-judicial
politico-military
politico-moral
politico-orthodox
politico-peripatetic
politico-religious
politico-sacerdotal
politico-scientific
politico-social
politico-theological
politics with bloodshed
polka dot
polka mazurka
polka-dot
polka-dotted
poll booth
poll degree
poll end
poll evil
poll parrot
poll pick
poll tax
poll watcher
poll-deed
poll-parrot
poll-parroty
pollen analysis
pollen basket
pollen brush
pollen catarrh
pollen chamber
pollen count
pollen mass
pollen plate
pollen sac
pollen tube
pollen-covered
pollen-dusted
pollen-sprinkled
pollice verso
pollin-
polling booth
polling place
polling station
polly mountain
polly-fox
polly-parrot
polo ball
polo cart
polo coat
polo ground
polo neck
polo pony
polo shirt
polt-foot
poly-
poly-mountain
polyarthrits rheumatism
polychrest salt
polyconic projection
polyethylene glycol
polyglot dictionary
polygonal number
polyhedral angle
polyhedron formula
polymeric amide
polymorpho-
polymorphonuclear leucocyte
polymorphous perversity
polymorphuous-perverse
polyneuritic psychosis
polynomial ring
polyphase induction motor
polyphonic music
polyphonic prose
polyphosphoric acid
polypod brake
polypody family
polysulfide rubber
polysyllabic profundity
polytechnic school
polyunsaturated fat
polyurethane rubber
polyvalent vaccine
polyvinyl acetal
polyvinyl acetate
polyvinyl alcohol
polyvinyl butyral
polyvinyl chloride
polyvinyl resin
polyvinyl-formaldehyde
polyvinylidene chloride
polyvinylidene resin
pom girl
pom-pom
pom-pom girl
pom-pom-pullaway
pomace fly
pome-citron
pome-like
pomegranate purple
pomfret-cake
pomme blanche
pomme de terre
pomme-lion
pommel bag
pommes blanches
pomp and circumstance
pompadour green
pompano shell
pompous person
pompous prolixity
pompous word
pongeau red
pond apple
pond crow
pond cypress
pond duck
pond lily
pond pine
pond scum
pond smelt
pond-apple
pond-scum parasite
pond-skater
ponder over
ponderosa pine
pondosa pine
pondus medicinale
pone bread
pons Varolii
pons asinorum
pont l’éveque
pont-levis
pontes Varolii
pontiff purple
pontoon bridge
pontoon dock
pontoon hull
pontoon lifeboat
pony engine
pony express
pony grass
pony shaft
pony trekking
pony truck
pony truss
pony up
poodle dog
pooh bah
pooh pooh
pooh-bah
pooh-pooh
pooh-pooh theory
pooh-pooher
pool bottle
pool hall
pool hole
pool seller
pool table
pool your interests
pool your interests with
pooling of resources
poon up
poonga-oil
poop cabin
poop deck
poop out
poop royal
poop staff
pooped out
poor White
poor as Job
poor as Job's turkey
poor as a church mouse
poor behavior
poor bet
poor box
poor boy
poor boy sweater
poor clare
poor creature
poor cuckoldy knave
poor custody
poor debtor
poor devil
poor diction
poor excuse
poor farm
poor fist
poor gas
poor guardianship
poor health
poor husbandry
poor imitation
poor in spirit
poor john
poor judgment
poor law
poor lookout
poor man
poor man's gout
poor oat
poor opinion
poor outlook
poor person
poor possibility
poor prognosis
poor prospect
poor relation
poor relief
poor reputation
poor stewardship
poor taste
poor timing
poor tool
poor unfortunate
poor white
poor white trash
poor, the
poor-blooded
poor-box
poor-charactered
poor-clad
poor-debtor law
poor-do
poor-feeding
poor-folksy
poor-law
poor-minded
poor-rate
poor-sighted
poor-spirited
poor-spiritedly
poor-spiritedness
poor-will
poorly argued
poorly off
pop art
pop artist
pop ash
pop at
pop concert
pop culture
pop fly
pop foul
pop hero
pop in
pop into your head
pop literature
pop music
pop off
pop out
pop safety valve
pop the question
pop up
pop upon
pop valve
pop wine
pop your cherry
pop-
pop-corn
pop-gun
pop-off
pop-shop
pop-up
popcorn balls
popcorn flower
pope joan
pope's eye
pope's head
pope's nose
pope-holy
popeye catalufa
popinjay green
poplar birch
poplar borer
poplar box
poplar hawk
poplar worm
poplar-covered
poplar-crowned
poplar-flanked
poplar-leaved
poplar-lined
poplar-planted
popliteal space
popper cake
puppet head
puppet leg
puppet valve
puppet-head
popping crease
popping-crease
poppy anemone
poppy ash
poppy bee
poppy mallow
poppy oil
poppy seed
poppy-bordered
poppy-colored
poppy-crimson
poppy-crowned
poppy-flowered
poppy-haunted
poppy-head
poppy-pink
poppy-red
poppy-seed
poppy-sprinkled
poppyseed oil
pops concert
poptical art
poptical artist
popular air
popular belief
popular concert
popular etymology
popular front
popular hero
popular idol
popular literature
popular music
popular prices
popular psychology
popular regard
popular singer
popular song
popular sovereignty
popular taste
popular tune
popular vote
popular-priced
population explosion
population parameter
population pressure
population pyramid
porbeagle shark
porcelain clay
porcelain enamel
porcelain glass
porcelain green
porcelain maker
porcelain making
porcelain shell
porcelain tower
porch chair
porch climber
porch hammock
porch lamp
porch railing
porch rocker
porch screen
porch seat
porch settee
porch swing
porcupine anteater
porcupine balls
porcupine beater
porcupine boiler
porcupine crab
porcupine disease
porcupine fish
porcupine grass
porcupine man
porcupine rat
pore fungus
pore over
pork and beans
pork barrel
pork butcher
pork chop
pork eater
pork packer
pork pie
pork pig
pork store
pork tapeworm
pork-barrel legislation
pork-barrel politician
pork-barrel politics
pork-barreling
porkpie hat
porno film
pornographic art
pornographic film
pornographic literature
portcullis money
porte cochere
porte-cochere
porte-monnaie
porte-monnaies
porteuse roll
porter aux nues
porter chair
porter's lodge
porter-house
porterhouse steak
porthole die
portia tree
portion off
portion or point of time
portion out
portioned out
portland cement
portmanteau word
portrait bust
portrait camera
portrait flask
portrait lens
portrait painter
portrait painting
portrait sculpture
portrait statue
portraying in the mind
portuguese man-of-war
portulan chart
pose a question
pose against
pose as
pose for effect
pose over against
posigrade rocket
posing against
posing over against
position artillery
position buoy
position co-ordinate
position code converter
position coder
position data transmitter
position effect
position finder
position indicator
position isomer
position isomerism
position light
position line
position paper
position target
position tracker
position warfare
positional error
positional notation
positioning mechanism
positive column
positive declaration
positive definiteness
positive direction of pitch
positive direction of roll
positive direction of yaw
positive electricity
positive electron
positive fact
positive feedback
positive geotropism
positive ion
positive law
positive lens
positive lift axis
positive misprision
positive organ
positive philosophy
positive polarity
positive pole
positive ray
positive reinforcement
positive statement
positive transference
positive valence
positive-ion accelerator
positively right
poss stick
poss tub
posse comitatus
possess authority
possess incriminating evidence
possess nine lives
possess one of the facts
possess sexually
possess your soul in patience
possess yourself
possess yourself of
possessed of
possessed with a demon
possessed with a devil
possessive adjective
possessive case
possessive pronoun
posset pot
possibility upon a possibility
possible choice
possum haw
possum oak
post auger
post bill
post bills
post binder
post boat
post brake
post captain
post car
post card
post cedar
post chaise
post chariot
post coach
post croaker
post day
post exchange
post hoc
post hoc ergo propter hoc
post horn
post horse
post hospital
post house
post insulator
post locust
post meridiem
post mortem
post note
post oak
post obitum
post octavo
post office
post office box
post partum
post quarto
post race
post road
post-audit
post-bag
post-bellum
post-boat
post-boy
post-captain
post-chaise
post-classical
post-communion
post-cyclic
post-date
post-diluvial
post-diluvian
post-factum
post-fine
post-free
post-glacial
post-graduate
post-haste
post-horn
post-horse
post-house
post-impressionism
post-impressionistic
post-juvenal
post-kantian
post-mortem
post-mortem clot
post-mortem examination
post-oak grape
post-obit
post-obit bond
post-obituary
post-office address
post-office box
post-office car
post-office order
post-officer
post-ordinar
post-partum
post-pliocene
post-remogeniture
post-road
post-signer
post-tension
post-tertiary
post-town
postage currency
postage due stamp
postage envelope
postage label
postage meter
postage stamp
postage-due stamp
postal card
postal clerk
postal currency
postal delivery zone
postal meter
postal note
postal order
postal service
postal system
postal union
postal zone
postcard bander
poste restante
poster bed
poster color
poster paint
poster painting
posterio-occlusion
postern door
postern gate
postero-
postgraduate education
postgraduate school
posthole auger
posthole spade
posthumous fame
posthypnotic suggestion
posting house
postlapsarian nature
postlapsarian state
postmaster general
postmaster-generalship
postmasters general
postmistress-ship
postmortem diagnosis
postmortem examination
postnasal drip
postoperative shock
postpainterly abstraction
postpainterly abstractionist
posture maker
posture making
posture-maker
pot ale
pot arch
pot barley
pot bottom
pot cheese
pot companion
pot culture
pot derby
pot earth
pot fisher
pot fisherman
pot furnace
pot garden
pot hat
pot kiln
pot lace
pot layering
pot lead
pot liquor
pot maker
pot marigold
pot marjoram
pot metal
pot plant
pot roast
pot shot
pot spinning
pot still
pot valve
pot wheel
pot-au-feu
pot-bellied
pot-belly
pot-boiler
pot-bound
pot-boy
pot-clay
pot-color
pot-earth
pot-gun
pot-gutted
pot-herb
pot-hole
pot-hook
pot-house
pot-hunter
pot-lead
pot-lid
pot-liquor
pot-luck
pot-metal
pot-pie
pot-pourri
pot-rustler
pot-shaped
pot-shot
pot-sick
pot-valiance
pot-valiancy
pot-valiant
pot-valiantly
pot-valiantry
pot-valiance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobbler
potage a la julienne
potage a la tete de veau
potage a la tortue
potage au tomate
potage aux herbes
potage volaille a la reine
potash alum
potash feldspar
potash granite
potash hunger
potash niter
potash soap
potassio-
potassium acetate
potassium acid carbonate
potassium acid oxala
potassium acid oxalate
potassium acid sulphate
potassium acid tartrate
potassium alum
potassium amide
potassium antimonate
potassium antimonyl
potassium antimonyl tartrate
potassium argon dating
potassium biaurate
potassium bicarbonate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chlorate
potassium chloride
potassium chromate
potassium chrome alum
potassium chromic sulfate
potassium cobaltinitrite
potassium cyanide
potassium dichromate
potassium ethyl xanthogenate
potassium ferricyanide
potassium ferrocyanide
potassium fluoride
potassium hydrate
potassium hydrogen tartrate
potassium hydroxide
potassium hypoantimonate
potassium hypochlorite
potassium iodide
potassium manganate
potassium myronate
potassium nitrate
potassium oxalate
potassium permanganate
potassium persulfate
potassium rhodanide
potassium sodium tartrate
potassium sulfate
potassium sulphate
potassium tetroxalate
potassium thiocyanate
potassium xanthate
potassium-argon dating
potato aphid
potato apple
potato ball
potato bean
potato beetle
potato blight
potato bug
potato cake
potato canker
potato cellar
potato chip
potato chips
potato crisp
potato fern
potato flour
potato fork
potato fungus
potato hook
potato masher
potato mosaic
potato moth
potato mottle
potato murain
potato onion
potato peeler
potato race
potato salad
potato scab
potato set
potato soup
potato tree
potato vine
potato wart
potato weevil
potato whisky
potato worm
potato-sick
potbellied stove
potcher engine
potcher man
potent cross
potent-counterpotent
potential cautery
potential difference
potential divider
potential energy
potential gradient
potentiometric titration
pothooks and hangers
pott octavo
pott quarto
pott's disease
potter away
potter bee
potter wasp
potter's clay
potter's earth
potter's field
potter's wheel
pottener ore
pottery tissue
pottery tree
potting shed
pottle pot
pottle-bellied
pottle-bodied
pottle-crowned
pottle-deep
potty-chair
pou de ciel
pou sto
pouch bone
pouch-shaped
pouched mole
pouched rat
poulard wheat
poulette sauce
poul-de-soie
pouler's measure
poultry breeder
poultry breeding
poultry buyer
poultry buyer
poultry car
poultry car
poultry culture
poultry dealer
poultry dresser
poultry dressing
poultry fancier
poultry fancying
poultry farm
poultry farmer
poultry farming
poultry feed
poultry grower
poultry house
poultry husbandry
poultry judging
poultry keeper
poultry keeping
poultry raiser
poultry raising
poultry rearing
poultry shop
poultry show
poultry stall
poultry tick
poultry wire
poultry yard
pounce bag
pounce box
pounce on
pounce paper
pounce tree
pounce upon
pouncet box
pouncet-box
pouncing paper
pound Scots
pound apothecaries'
pound avoirdupois
pound away
pound boat
pound brush
pound cake
pound degree
pound in
pound lock
pound mile
pound net
pound of flesh
pound out
pound sovereign
pound sterling
pound the ear
pound troy
pound-cake
pound-folly
pound-foolish
pound-foolishness
pound-foot
pound-force
pound-trap
pound-weight
pounds in after trim
pounds of thrust
pour a broadside into
pour balm into
pour balm on
pour balm upon
pour down
pour down the drain
pour down the rathole
pour forth
pour in
pour it on
pour money into
pour oil on
pour oil on the blaze
pour oil on the fire
pour oil on troubled waters
pour oil upon
pour on
pour on the coal
pour out
pour out blood like water
pour out the vials of your wrath
pour out vials of wrath
pour over
pour plate
pour point
pour test
pour water into a sieve
pour water on
pour with rain
pourer-off
pourer-out
pouring basin
pouring basket
pouring box
pouring rain
pousse-caf
pousse-cafe
poverty birch
poverty grass
poverty plant
poverty subculture
poverty-proof
poverty-stricken
pow wow
powder and shot
powder barrel
powder beef
powder blue
powder box
powder boy
powder burn
powder charge
powder chest
powder compact
power chain
power cruiser
power cut
power dive
power drill
power duster
power elite
power engineer
power engineering
power factor
power for good
power gas
power grab
power jack
power line
power load
power loading
power loom
power meter
power microscope
power mower
power of appointment
power of attorney
power of expression
power of mind
power of mind over matter
power of money
power of reason
power of sight
power of suggestion
power of the keys
power of thought
power off
power pack
power plant
power play
power plug
power point
power politics
power press
power pump
power punch
power rail
power reactor
power relay
power sander
power saw
power sawyer
power series
power servo
power set
power shaft
power shears
power shovel
power source
power spin
power sprayer
power station
power steering
power stroke
power structure
power struggle
power supply
power take-off
power to act
power tool
power train
power transformer
power tube
power vacuum
power vessel
power weaver
power wheel
power-assisted steering
power-breeder reactor
power-directional relay
power-dive
power-dived
power-diving
power-dove
power-driven
power-elated
power-hunger
power-hungry
power-loom
power-operate
power-operated
power-packed
power-plant engineer
power-plant engineering
power-political
power-riveting
power-saw
power-sawed
power-sawing
power-sawn
power-seeking
power-supply engineer
powered flight
powerful like
powers of darkness
powers that be
powers that be, the
pox-marked
practical ability
practical art
practical consequence
practical joke
practical joker
practical knowledge
practical mechanics
practical mind
practical nurse
practical person
practical piece
practical politics
practical prop
practical reason
practical scientist
practical skill
practical test
practical theology
practical utility
practical wisdom
practical-minded
practical-mindedness
practice a profession
practice at the bar
practice curve
practice domesticity
practice fraud upon
practice landing
practice law
practice medicine
practice nonviolence
practice of medicine
practice on your credulity
practice philosophy
practice self-control
practice self-denial
practice sorcery
practice spiritualism
practice teacher
practice teaching
practice the golden rule
practice upon
practice-teach
practiced hand
praecedens dominans
praecedens serviens
praemunientes clause
praemunientes writ
praetorian guard
pragmatic logic
pragmatic sanction
pragmatic theory
pragmatic theory of truth
prairie acacia
prairie artichoke
prairie aster
prairie breaker
prairie button snakerooot
prairie chicken
prairie clover
prairie coneflower
prairie crab apple
prairie dock
prairie dog
prairie falcon
prairie fire
prairie fowl
prairie fox
prairie goose
prairie grouse
prairie hen
prairie itch
prairie june grass
prairie larkspur
prairie lily
prairie mallow
prairie marmot
prairie owl
prairie oyster
prairie phlox
prairie pine
prairie pointer
prairie poppy
prairie rattlesnake
prairie rocket
prairie rose
prairie sage
prairie schooner
prairie smoke
prairie soil
prairie squirrel
prairie turnip
prairie violet
prairie wakerobin
prairie warbler
prairie wolf
praise Father
praise God
praise and glorify God
praise meeting
praise the Lord
praise to excess
praise to the skies
praise ye Him all His hosts
praise ye the Lord
praise-begging
praise-deserving
praise-fed
praise-giving
praise-spoiled
praise-winning
pram bow
prank up
praso-
pray God that
pray do
pray for quarter
pray over
prayer bead
prayer beads
prayer book
prayer carpet
prayer flag
prayer machine
prayer mat
prayer meeting
prayer mill
prayer of thanks
prayer paper
prayer rug
prayer scarf
prayer service
prayer shawl
prayer tower
prayer wheel
prayer-answering
prayer-book
prayer-clenched
prayer-granting
prayer-hearing
prayer-lisping
prayer-loving
prayer-repeating
prayerful hope
praying cylinder
praying mantis
pre-
pre-Achaean
pre-Alfredian
pre-American
pre-Ammonite
pre-Ammonitish
pre-Armistice
pre-Arthurian
pre-Aryan
pre-Assyrian
pre-Augustan
pre-Augustine
pre-Babylonian
pre-Baconian
pre-British
pre-Buddhist
pre-Byzantine
pre-Cambrian
pre-Cambridge
pre-Canaanite
pre-Canaanitic
pre-Carboniferous
pre-Carolingian
pre-Catholic
pre-Celtic
pre-Centennial
pre-Chaucerian
pre-Chellean
pre-Chinese
pre-Christian
pre-Christianic
pre-Christmas
pre-Columbian
pre-Columbian art
pre-Congregationalist
pre-Congress
pre-Conquest
pre-Copernican
pre-Copernicanism
pre-Crusade
pre-Dantean
pre-Darwinian
pre-Darwinianism
pre-Dickensian
pre-Dorian
pre-Doric
pre-Dravidian
pre-Dravidic
pre-Dutch
pre-Easter
pre-Elizabethan
pre-Empire
pre-English
pre-French
pre-Georgian
pre-German
pre-Germanic
pre-Gothic
pre-Greek
pre-Han
pre-Hebrew
pre-Hellenic
pre-Hieronymian
pre-Hinduized
pre-Hispanic
pre-Homeric
pre-Inca
pre-Incan
pre-Incarial
pre-Indian
pre-Irish
pre-Islam
pre-Islamic
pre-Islamite
pre-Islamitic
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Kantian
pre-Koranic
pre-Latin
pre-Laurentian
pre-Saxon
pre-Semitic
pre-Shakepeare
pre-Shakespeare
pre-Shakespearean
pre-Shakespearian
pre-Silurian
pre-Socratic
pre-Solomonic
pre-Solonian
pre-Spanish
pre-Sumerian
pre-Syriac
pre-Syrian
pre-Tertiary
pre-Thanksgiving
pre-Tridentine
pre-Tudor
pre-Victorian
pre-Virgilian
pre-Volstead
pre-adamite
pre-amp
pre-audit
pre-axial
pre-chellean
pre-christian
pre-conquestal
pre-contract
pre-distortion
pre-earthly
pre-earthquake
pre-eclampsia
pre-eclamptic
pre-economic
pre-economical
pre-edit
pre-edition
pre-editor
pre-editorial
pre-editorially
pre-educate
pre-education
pre-educational
pre-educationally
pre-effect
pre-effective
pre-effectively
pre-enclose
pre-enclosure
pre-encounter
pre-encourage
pre-encouragement
pre-endeavor
pre-endorse
pre-endorsement
pre-endorser
pre-energetic
pre-energy
pre-enforce
pre-enforcement
pre-engage
pre-engagement
pre-engineering
pre-enjoy
pre-enjoyable
pre-enjoyment
pre-enlarge
pre-enlargement
pre-enlighten
pre-enlightener
pre-enlightening
pre-enlightenment
pre-enlist
pre-enlistment
pre-enroll
pre-enrollment
pre-entail
pre-entailment
pre-enter
pre-entertain
pre-entertainer
pre-entertainment
pre-enthusiasm
pre-enthusiastic
pre-entitle
pre-entrance
pre-entry
pre-enumerate
pre-enumeration
pre-envelop
pre-envelopment
pre-environmental
pre-epic
pre-epidemic
pre-epochal
pre-equalization
pre-equip
pre-equipment
pre-equity
pre-erect
pre-erection
pre-erupt
pre-eruption
pre-eruptive
pre-escape
pre-escort
pre-esophageal
pre-essay
pre-essential
pre-establish
pre-established
pre-establisher
pre-establishment
pre-esteem
pre-estimate
pre-estimation
pre-estival
pre-eter
pre-eternal
pre-evade
pre-evaporate
pre-evaporation
pre-evaporator
pre-evasion
pre-evidence
pre-evident
pre-evidently
pre-evite
pre-evolutional
pre-evolutionary
pre-evolutionist
pre-exact
pre-exaction
pre-examination
pre-examine
pre-examiner
pre-excel
pre-excellence
pre-excellency
pre-excellent
pre-except
pre-exception
pre-exceptional
pre-expose  
pre-exposition  
pre-exposure  
pre-expound  
pre-expounder  
pre-express  
pre-expression  
pre-expressive  
pre-extend  
pre-extensive  
pre-extensively  
pre-extent  
pre-extinction  
pre-extinguish  
pre-extinguishment  
pre-extract  
pre-extraction  
pre-fabulous  
pre-free-trade  
pre-glacial  
pre-ignition  
pre-judicial  
pre-judiciary  
pre-man  
pre-operculum  
pre-option  
pre-orbital  
pre-ordain  
pre-ordinate  
pre-preference  
pre-raphael  
pre-raphaelite  
pre-raphaelitism  
pre-shrunk  
pre-socratic  
pre-sternum  
pre-teens  
preach to the winds  
preacher bird  
preaching brother  
preaching friar  
preaching-house  
preamble alternate molt  
preamble basic molt  
preamble bendal stall  
preamble cedent condition  
preamble cession of the equinoxes  
preamble cinct captain
precinct house
precinct leader
precious coral
precious heart
precious little
precious metal
precious metals
precious moonstone
precious opal
precious rascal
precious stone
precipitable water
precipitate yourself
precipitation hardening
precision balance
precision barometer
precision block
precision bomber
precision bombing
precision caliper
precision camera
precision casting
precision clock
precision focusing
precision gauge
precision gauge block
precision grinding
precision instrument
precision lathe
precision lens
precision meter
precision punch
precision scale
precision screw
precision tool
precision weight
precision-production control
preclinical medicine
precombustion engine
precordial anxiety
precordial pain
precordial region
predaceous diving beetle
predation pressure
predicate adjective
predicate calculus
predicate nominative
predicate noun
predicate objective
predicated on
predictable error
predictable response
predictable within limits
predisposed to
predominance of Aquarius
pree the mouth of
preen gland
preen yourself
prefabricated house
prefect apostolic
prefects apostolic
prefecture apostolic
prefectures apostolic
prefer a claim
prefer a petition
prefer charges
prefer to
prefer your own company
preference for the best
preference primary
preference share
preference shares
preference stock
preferential shop
preferential system
preferential treatment
preferential voting
preference bond
preference freight
preferred lie
preferred position
preferred stock
prefree-trade
prefrontal leucotomy
prefrontal lobotomy
pregenital fixation
pregnant imagination
pregnant moment
pregnant of good
pregnant with meaning
prehensile tail
prehistoric animal
prehistoric animals
prehistoric anthropology
prehistoric archaeology
prehistoric man
prehistoric races
prejudice against
prejudice the issue
prejudice-proof
prelapsarian state
prelate nullius
preliminary act
preliminary approach
preliminary convention
preliminary examination
preliminary measure
preliminary sign
preliminary signal
preliminary step
preliminary study
premarital relations
premarital sex
premature acceptation
premature baby
premature beat
premature contraction
premature judgment
premier danseur
premier performance
premiere danseuse
premiers danseurs
premium bond
premium bonds
premium gas
premium note
premium system
premonitory chill
premonitory plague
premonitory shiver
premonitory sign
premonitory symptom
prenatal Informal
prendre la balle au bond
prep school
prep schooler
preparatory act
preparatory instruction
preparatory measure
preparatory school
preparatory step
preparatory study
prepare against
prepare food
prepare for
prepare for burial
prepare for the evil day
prepare the ground
prepare the way
prepare to
prepare yourself
prepared and ready
prepared for
prepared for either course
prepared piano
prepared speech
prepared text
prepay station
prepositional phrase
prerogative court
prerogative instance
prerogative office
prerogative writ
presby-
preschool child
prescribe for
prescribed form
prescription drug
prescriptive grammar
preseasonal treatment
presence chamber
presence of God
presence of mind
presence room
presence-chamber
presenile dementia
present a bold front
present a petition
present a position paper
present a true bill
present arms
present difficulties
present itself
present itself to the mind
present itself to the thoughts
present no difficulties
present participle
present perfect
present tense
present the appearance of
present to
present to the eye
present to the eyes
present to the mind
present value
present your case
present yourself
present yourself to view
present-age
present-day
present-minded
present-time
presentation copy
presentation of the case
presentation time
presentative realism
presenting arms
preservative medium
preserve a balance
preserve a middle course
preserve an even course
preserve from oblivion
preserve your dignity
preserve your honor
preset board
preset control board
preside at the board
preside over
president general
president pro tempore
president-elect
presidential election
presidential government
presidential palace
presidential papers
presidential preference primary
presidential primary
presidential timber
presiding judge
presiding officer
press agency
press agent
press association
press bed
press boava
press box
press boy
press brake
press bundler
press bureau
press cake
press camera
press card
press charges
press clipper
press clipping
press cloth
press conference
press copy
press corrector
press correspondent
press cupboard
press down
press drill
press fastener
press feeder
press fit
press fitter
press forward
press gallery
press gang
press hard upon
press heavy on
press her
press in
press into service
press iron
press money
press notice
press objections
press of business
press of canvas
press of sail
press on
press onward
press operator
press out
press proof
press release
press roll
press section
press stud
press tender
press the attack
press time
press to the bosom
press to the ground
press upon
press your hand
press your suit
press, the
press-agent
press-agentry
press-bed
press-forge
press-gang
press-made
press-mark
press-money
press-noticed
press-point
press-ridden
press-room
press-up
press-warrant
press-work
press-yard
pressed beef
pressed brick
pressed down
pressed for time
pressed glass
pressed hardboard
presser bar
presser foot
presser shoe
presser wheel
pressing boards
pressing iron
pressing out
pressure altimeter
pressure altitude
pressure atrophy
pressure blower
pressure boiler
pressure bottle
pressure box
pressure cabin
pressure center
pressure coil
pressure control
pressure cooker
pressure drag
pressure element
pressure evaporator
pressure fan
pressure filter
pressure gauge
pressure governor
pressure gradient
pressure group
pressure head
pressure hull
pressure ice
pressure indicator
pressure microphone
pressure mine
pressure neuropathy
pressure nozzle
pressure point
pressure producer
pressure pump
pressure recorder
pressure register
pressure regulator
pressure ridge
pressure saucepan
pressure sense
pressure siphon
pressure spot
pressure spring
pressure stage
pressure suit
pressure syllable
pressure tank
pressure transducer
pressure transmitter
pressure tube
pressure valve
pressure warrant
pressure welding
pressure wire
pressure-cook
pressure-fixing
pressure-group politics
pressure-reciprocating
pressure-reducing
pressure-regulating
pressure-relief ring
pressure-relieving
pressure-testing
pressure-vacuum valve
pressureless space
pressurized suit
press you hard
prest money
prest-money
prestation money
prester john
prestige dialect
presto change
presto chango
prestressed concrete
presume on
presume upon
presumption of fact
presumption of innocence
presumptive evidence
presumptive heir
presumptive right
pretend not to see
pretend to
pretend to be
preter-
preterit-present
preterite-present
preterito-present
preterito-presential
pretium puellae
pretty as a picture
pretty damned quick
pretty good
pretty kettle of fish
pretty lies
pretty much
pretty much the same
pretty near
pretty pass
pretty penny
pretty pickle
pretty piece of business
pretty predicament
pretty up
pretty well
pretty wit
pretty-behaved
pretty-by-night
pretty-face
pretty-faced
pretty-footed
pretty-humored
pretty-looking
pretty-mannered
pretty-pretty
pretty-spoken
pretty-toned
pretty-witted
prevail on
prevail over
prevail upon
prevail with
prevailing belief
prevailing sentiment
prevailing taste
prevailing westerlies
prevailing wind
prevenient grace
preventer backstay
preventer plate
preventer stay
preventer-proof
preventive custody
preventive dentist
preventive dentistry
preventive detention
preventive law
preventive measure
preventive medicine
preventive treatment
preventive war
previous question
previous time
previous to
prey on
prey on the mind
prey to blind fear
prey to malaise
prey upon
pribble-prabble
price ceiling
price control
price controls
price current
price cut
price determination
price discrimination
price fall
price fixing
price freeze
price index
price level
price list
price of money
price out of the market
price range
price reduction
price ring
price support
price supports
price tag
price war
price-cut
price-cutter
price-cutting
price-deciding
price-enhancing
price-fixing
price-lowering
price-raising
price-reducing
price-ruling
price-stabilizing
prices current
prick ear
prick mark
prick post
prick punch
prick shaft
prick shooting
prick song
prick the bubble
prick up
prick up the ears
prick up your ears
prick wheel
prick your balloon
prick-ear
prick-eared
prick-madam
prick-post
prick-seam
prick-song
prick-timber
pricking of conscience
pricking of heart
pricking wheel
pricking-up
prickle cell
prickle grass
prickle-back
prickle-cone pine
prickley heat
prickly ash
prickly glasswort
prickly grass
prickly heat
prickly lettuce
prickly pear
prickly phlox
prickly poppy
prickly shield fern
prickly thrift
prickly-finned
prickly-fruited
prickly-lobed
prickly-margined
prickly-seeded
prickly-toothed
pride and joy
pride of China
pride of India
pride of bearing
pride of place
pride of the morning
pride yourself
pride-blind
pride-blinded
pride-bloated
pride-fed
pride-inflamed
pride-inspiring
pride-of-India
pride-ridden
pride-sick
pride-swollen
prie-dieu
priest hole
priest vicar
priest-astronomer
priest-baiting
priest-catching
priest-doctor
priest-dynast
priest-educated
priest-guarded
priest-harboring
priest-hating
priest-hermit
priest-hole
priest-king
priest-knight
priest-led
priest-monk
priest-noble
priest-philosopher
priest-poet
priest-prince
priest-prompted
priest-ridden
priest-riddenness
priest-ruler
priest-statesman
priest-surgeon
priest-wrought
prim up
prim-behaving
prim-lipped
prim-looking
prim-mannered
prim-mouthed
prim-notioned
prim-seeming
prima ballerina
prima donna
prima facie
prima facie case
prima facie evidence
prima inter pares
prima materia
prima vista
prima-facie evidence
primal chaos
primal ignorance
primal stupidity
primal therapy
primary accent
primary anemia
primary atypical pneumonia
primary battery
primary burial
primary cell
primary coil
primary color
primary colour
primary contact
primary derivative
primary digestion
primary education
primary election
primary electron
primary evidence
primary form
primary group
primary highway
primary infection
primary intention
primary oocyte
primary optical area
primary phloem
primary pigment
primary processes
primary quality
primary road
primary scholar
primary school
primary scholarer
primary sex character
primary sex characteristic
primary spermatocyte
primary stress
primary syphilis
primary trainer
primary type
primary wave
prime coat
prime cost
prime field
prime focus
prime hours
prime ideal
prime interest rate
prime interval
prime investment
prime issue
prime meridian
prime minister
prime ministry
prime mover
prime number
prime number theorem
prime of life
prime of the morning
prime of the year
prime rate
prime song
prime the pump
prime time
prime tone
prime vertical
prime-ministerial
prime-ministrieship
prime-ministry
primed for
primeval forest
priming boiler
priming charge
primitive Indo-European
primitive arch
primitive art
primitive church
primitive faith
primitive polynomial
primitive self
primitive settler
primo tenore
primp up
primrose green
primrose path
primrose peerless
primrose tree
primrose willow
primrose yellow
primrose-colored
primrose-decked
primrose-dotted
primrose-haunted
primrose-leaved
primrose-scented
primrose-spangled
primrose-starred
primrose-sweet
primrose-tinted
primrose-yellow
primuline color
primuline yellow
primum mobile
primus inter pares
primus stove
prince albert
prince charming
prince consort
prince elector
prince of wales
prince regent
prince royal
prince’s feather
prince’s pipe
prince’s-feather
prince’s-pine
prince-abbot
prince-angel
prince-bishop
prince-duke
prince-elector
prince-general
prince-killing
prince-poet
prince-president
prince-priest
prince-primate
prince-protected
prince-proud
prince-ridden
prince-teacher
prince-trodden
prince-wood
princes of India
princess pine
princess post
princess regent
princess royal
princess tree
princess-ship
principal argument
principal axis
principal boy
principal character
principal clause
principal diagonal
principal focus
principal idea
principal ideal
principal keeper
principal parts
principal plane
principal point
principal quantum number
principal rafter
principal series
principal sum
principal value
principle of complementarity
principle of corres
principle of correspondence
principle of desire
principle of equivalence
principle of faith
principle of government
principle of indeterminacy
principle of least action
principle of relativity
principle of superposition
principle of virtual work
prink out
prink up
print cloth
print cutter
print media
print medium
print out
print shop
print trimmer
print-out
print-out paper
printed antenna
printed circuit
printed matter
printed paper
printer's copy
printer's devil
printer's error
printer's imprint
printer's ink
printer's mark
printer's reader
printer's ream
printing calculator
printing equipment
printing frame
printing ink
printing machine
printing office
printing paper
printing plate
printing press
printing surface
printing telegraph
printing-house
printing-in
printing-out
printing-out paper
printing-press
prior consultation
prior right of purchase
prior to
prism binocular
prism binoculars
prism dioptr
prism glass
prism level
prism spectrometer
prism spectroscopy
prism telescope
prismatic coefficient
prismatic compass
prismatic layer
prismatic telescope
prison base
prison bird
prison breach
prison camp
prison fever
prison guard
prison house
prison pallor
prison psychosis
prison term
prison ward
prison-bound
prison-bred
prison-bursting
prison-caused
prison-escaping
prison-free
prison-house
prison-made
prison-making
prison-taught
prisoner of war
prisoner's base
prisoner-of-war camp
prisoner-of-war stockade
prisoners' bars
prisse papyrus
pristine ignorance
prittle-prattle
private aims
private attorney
private aviation
private bill
private branch exchange
private business exchange
private checker
private company
private conference
private desires
private detective
private enterprise
private eye
private first class
private flying
private hospital
private hotel
private income
private information
private instructor
private international law
private investigator
private judgment
private knowledge
private law
private line
private matter
private means
private member
private ownership
private parts
private patient
private pilot
private plane
private practice
private press
private road
private room
private school
private secretary
private sector
private teaching
private treaty
private-duty nurse
private-enterprise
private-enterprise economy
private-line car
privation-proof
privet adelia
privet andromeda
privet hawk
privet honeysuckle
privilege from
privileged communication
privileged question
privy chamber
privy council
privy councilor
privy counsellor
privy parts
privy purse
privy seal
privy to
privy-councilship
prix fixe
prix fixes
prize court
prize crew
prize fight
prize fighter
prize fighting
prize flag
prize money
prize open
prize out
prize ring
prize sap
prize winner
prize-fight
prize-fighter
prize-giving
prize-playing
prize-ring
prize-taking
prize-winning
pro and con
pro bono publico
pro forma
pro forma balance sheet
pro memoria
pro patria
pro patria mori
pro rata
pro tanto
pro tem
pro tempore
pro-
pro-Abyssinian
pro-Alabaman
pro-Alaskan
pro-Algerian
pro-Alsatian
pro-American
pro-Americanism
pro-Anglican
pro-Arab
pro-Arabian
pro-Arabic
pro-Argentine
pro-Arian
pro-Aristotelian
pro-Armenian
pro-Asian
pro-Asiatic
pro-Athenian
pro-Australian
pro-Austrian
pro-Baconian
pro-Baptist
pro-Belgian
pro-Bessarabian
pro-Biblical
pro-Bohemian
pro-Bolivian
pro-Bolshevik
pro-Bolshevism
pro-Bolshevist
pro-Brazilian
pro-British
pro-Buddhist
pro-Bulgarian
pro-Burman
pro-Cambodia
pro-Cameroun
pro-Canadian
pro-Catholic
pro-Catholicism
pro-Ceylon
pro-Chilean
pro-Chinese
pro-Colombian
pro-Confederate
pro-Congolese
pro-Congressional
pro-Cuban
pro-Cyprus
pro-Czech
pro-Czechoslovakian
pro-Danish
pro-Darwin
pro-Darwinian
pro-Darwinism
pro-Denmark
pro-Dominican
pro-East
pro-Eastern
pro-Ecuador
pro-Egyptian
pro-Elizabethan
pro-Emersonian
pro-English
pro-Eskimo
pro-Ethiopian
pro-European
pro-Finnish
pro-Florentine
pro-France
pro-French
pro-Freud
pro-Freudian
pro-Gaelic
pro-Gentile
pro-German
pro-Ghana
pro-Gothic
pro-Grecian
pro-Greek
pro-Guatemalan
pro-Haitian
pro-Hawaiian
pro-Hellenic
pro-Hindu
pro-Hitler
pro-Honduran
pro-Hungarian
pro-Icelandic
pro-Indian
pro-Indonesian
pro-Iranian
pro-Iraq
pro-Iraqi
pro-Irish
pro-Israel
pro-Israeli
pro-Italian
pro-Jacobean
pro-Japanese
pro-Jewish
pro-Jordan
pro-Korean
pro-Koweit
pro-Kuwait
pro-Laotian
pro-Latin
pro-Lebanese
pro-Liberian
pro-Lybian
pro-Madagascaran
pro-Malayan
pro-Malaysian
pro-Methodist
pro-Mexican
pro-Monaco
pro-Moroccan
pro-Moslem
pro-Muslem
pro-Muslim
pro- Negro
pro-Nigerian
pro-Nordic
pro-North
pro-Northern
pro-Norwegian
pro-Oriental
pro-Panama
pro-Panamanian
pro-Paraguay
pro-Paraguayan
pro-Peruvian
pro-Philippine
pro-Polish
pro-Portuguese
pro-Presbyterian
pro-Protestant
pro-Prussian
pro-Quaker
pro-Renaissance
pro-ode
pro-oestrous
pro-oestrum
pro-oestrus
pro-oestrys
pro-opera
pro-operation
pro-opic
pro-opium
pro-orthodox
pro-orthodoxical
pro-orthodoxy
pro-ostracal
pro-ostracum
pro-otic
pro-pre-existentiary
pro-proctor
pro-rata
pro-rate
pro-rector
pro-rex
pro-skin
pro-state
pro-strike
pro-vice-chancellor
proAfrican
proactive inhibition
probability curve
probability density function
probability distribution
probability function
probability theory
probable cause
probable error
probate bond
probate court
probate duty
probate judge
probation officer
probatum est
probe scissors
probe-pointed
probirth-control
problem drinker
problem drinking
problem novel
problem play
problems in living
problon is a probability
proboscis monkey
procaine amide
procaryotic cell
proceed from
proceed out in the open
proceed to
proceed with
proces verbal
proces-verbal
proces-verbaux
process butter
process cheese
process control
process costing
process lag
process loop
process milling
process of time
process photos
process plate
process printer
process printing
process server
process shot
process variable
process-control system
process-server
processed cheese
processing solution
processing tax
procession flower
processional march
processionary moth
prochain ami
prochein ami
prochein amy
proclaim at Charing Cross
proclaim at the crossroads
proclaim at the market cross
proclaim from
procrustean bed
procto-
procuration fee
procurator fiscal
procurator-fiscal
procurator-general
procure materials
procurement editor
prodigal returned
prodigal son
produce an instance
produce conviction
produce race
producer gas
producer goods
producing again
producing once more
producing over
product engineer
production control
production curve
production editor
production goods
production line
production manager
production number
productive capacity
productive imagination
profane language
profane oath
profane swearing
profane, the
profanity-proof
profanum vulgus
profession of belief
profession of faith
professional athlete
professional consultant
professional education
professional ethics
professional killer
professional mourner
professional musician
professional name
professional politician
professional soldiers
professional standing
professional status
professor emeritus
professor ordinarius
proffer aid
proffer yourself
proficiency badge
proficient in
profile board
profile cutter
profile drag
profile line
profile machine
profile map
profile microscope
profile paper
profile plan
profiling machine
profit and loss
profit and loss account
profit by
profit sharing
profit system
profit taking
profit-and-loss
profit-building
profit-making
profit-producing
profit-seeking
profit-sharing
profit-taking
profit-yielding
profound idiocy
profound knowledge
profound secret
profound sense
profound sleep
profound thought
prognostic chart
program clock
program director
program discriminator
program feed
program music
program of action
program of music
program of operation
program picture
programme music
programmed instruction
programmed learning
programming language
progress chart
progress clerk
progress of time
progressive conservative
progressive jazz
progressive proof
progressive school
progressive sorites
progressive tax
progressive taxation
progressive tense
progressive trials
prohibition-proof
prohibitory injunction
project over
projected window
projectile anchor
projectile lathe
projectile rocket
projecting microscope
projection booth
projection fiber
projection machine
projection print
projection printing
projection room
projection tube
projective geometry
projective property
projective test
projector lamp
projector tube
prolate spheroid
proletarian novel
proliferative arthritis
prolong the agony
prolonge knot
prolonged narcosis
promenade concert
promenade deck
promenade tile
promethea moth
prominent belly
promise in marriage
promise of harm
promise-bound
promise-breach
promise-breaking
promise-crammed
promise-fed
promise-fulfilling
promise-keeping
promise-led
promise-making
promise-performing
promised land
promissory note
promoter of the faith
promotional material
prompt dower
prompt note
prompt side
prompt the mind
prompter's box
prone before
prone float
prone pressure method
prone to
prong box
prong budding
prong chuck
prong die
prong hoe
prong key
prong-horned
pronghorn antelope
pronounce judgment
pronounce on
pronounce sentence
prony brake
proof against
proof armor
proof before letter
proof charge
proof coin
proof correction
proof leaf
proof paper
proof plane
proof planer
proof press
proof sheet
proof spirit
proof stress
proof-correct
proof-proof
proof-spirit
prop joint
prop man
prop root
prop up
prop word
drop-
drop-wash
propaganda novel
propaganda-proof
propanoic acid
propeller horsepower
propeller plane
propeller post
propeller race
propeller shaft
propeller thrust
propeller torque
propeller wash
propeller-drive gas turbine
propeller-jet engine
propelling charge
propelling nozzle
propelling pencil
propenyl alcohol
propenyl group
propenyl radical
proper adjective
proper claim
proper fraction
proper function
proper motion
proper name
proper noun
proper occasion
proper piloting
proper subalgebra
proper subset
proper task
proper thing
proper time
proper to
proper value
propertied person
property damage insurance
property insurance
property line
property man
property master
property owner
property right
property rights
property roll
property tax
property transfer
property-increment tax
property-owning
prophet flower
prophet of doom
prophet-bard
prophet-flower
prophet-king
prophet-painter
prophet-poet
prophet-preacher
prophet-statesman
prophetic revelation
prophetico-historical
prophylactic psychiatry
prophylactic psychology
propio-
propionic acid
propitiatory gift
propjet engine
proportional band
proportional control
proportional counter
proportional ionization chamber
proportional limit
proportional parts
proportional representation
proportional tax
proportioning lever
proposal bond
propose a question
propose to
proposed explanation
propositional calculus
propositional function
propound a question
proprietary colony
proprietary drug
proprietary hospital
proprietary medicine
proprietary name
proprietary rights
proprio motu
props from under one
props from under you
propter hoc
propulsion charge
propulsive duct
propulsive efficiency
propyl alcohol
propyl aldehyde
propylene glycol
propylphenyl acetate
pros and cons
pros-
proscenium arch
proscenium box
proscenium boxes
proscenium stage
prose fiction
prose poem
prose poet
prose poetry
prose rhythm
prose run mad
prose style
prose writer
prosecute a suit against
prosecute at law
prosecute to a conclusion
prosecuting attorney
prosecution-proof
prosodic form
prosodic pattern
prospect glass
prospective glass
prospective-glass
prosperity-proof
prosperous issue
prostate gland
prostatic fluid
prosthetic dentistry
prosthetic group
prostrate before
prostrate yourself
prostrate yourself before
prot-
prote-
protean actor
protected anchorage
protected cruiser
protection forest
protection racket
protective clothing
protective coloration
protective covering
protective custody
protective deck
protective mimicry
protective slope
protective stock
protective system
protective tariff
protective umbrella
protector paravane
protein crystal
protein deficiency
protein factor
protein fever
protein fibers
protein milk
protein plastic
protein shock
protein therapy
protein-free
proteolytic enzyme
proteronian
protest against
protest demonstration
protest flag
protest too much
protested bill
proteus animalcule
prothetic vowel
prothonotary apostolic
prothonotary warbler
protoplasm
protocol sentence
protocol statement
proton gun
proton number
proton reaction
proton-synchrotron
protoxide of nitrogen
protozoan disease
protracted meeting
protruding belly
proud as Lucifer
proud as a peacock
proud bearing
proud flesh
proud-blind
proud-blooded
proving out
provision account
provision of capital
provision tree
provisional government
provisionally accept
provisionally admit
provolone cheese
provost court
provost guard
provost marshal
provost-marshall
prow on
prowl after
prowl car
proximal convoluted tubule
proximate analysis
proximate cause
proxime accessit
proximity fuse
proximity fuze
proximity meter
proxy marriage
proxy statement
proxy voting
prudent administration
prudential administration
prune purple
prune tree
prunes and prisms
pruning hook
pruning saw
pruning shears
prurient interest
prussian blue
prussic acid
pry around
pry into
pry into the future
pry loose from
pry open
pry out
pry pole
psalm book
psalm singer
psalm tone
psalm tune
psammo-
pseud-
pseudo abolitionist
pseudo abstainer
pseudo academy
pseudo acceptance
pseudo accident
pseudo acid
pseudo acquaintance
pseudo actor
pseudo actress
pseudo aesthete
pseudo aestheticism
pseudo affection
pseudo agent
pseudo alliance
pseudo ally
pseudo alumna
pseudo alumnus
pseudo amateur
pseudo analogy
pseudo ancestor
pseudo angel
pseudo animal
pseudo animalism
pseudo announcement
pseudo apology
pseudo applicant
pseudo application
pseudo appointment
pseudo appreciation
pseudo aristocrat
pseudo arrest
pseudo art
pseudo artist
pseudo asceticism
pseudo assertion
pseudo association
pseudo astonishment
pseudo aunt
pseudo author
pseudo authoress
pseudo authorization
pseudo bacillus
pseudo banker
pseudo bankruptcy
pseudo baptism
pseudo bard
pseudo base
pseudo conversion
pseudo cook
pseudo cordiality
pseudo corporation
pseudo count
pseudo courtesy
pseudo courtier
pseudo cousin
pseudo creditor
pseudo crisis
pseudo critic
pseudo criticism
pseudo crystal
pseudo cult
pseudo cultivation
pseudo culture
pseudo date
pseudo death
pseudo declaration
pseudo deficit
pseudo delegate
pseudo delegation
pseudo democracy
pseudo deputation
pseudo deputy
pseudo devotee
pseudo devotion
pseudo dike
pseudo diplomacy
pseudo diplomat
pseudo distance
pseudo distribution
pseudo distributor
pseudo divination
pseudo divine
pseudo divinity
pseudo doctor
pseudo donation
pseudo donor
pseudo drama
pseudo dramatist
pseudo duke
pseudo earl
pseudo economics
pseudo economy
pseudo editor
pseudo editorial
pseudo education
pseudo educator
pseudo election
pseudo electorate
pseudo emotion
pseudo endeavor
pseudo enthusiasm
pseudo enthusiast
pseudo episcopacy
pseudo equality
pseudo ethics
pseudo etymologist
pseudo etymology
pseudo evangelist
pseudo example
pseudo exemplar
pseudo experiment
pseudo expert
pseudo exposure
pseudo fabric
pseudo failure
pseudo faith
pseudo fame
pseudo farmer
pseudo farming
pseudo father
pseudo femininity
pseudo feminism
pseudo feminist
pseudo fertilization
pseudo finality
pseudo flatterer
pseudo flattery
pseudo form
pseudo fruit
pseudo generosity
pseudo geniality
pseudo genius
pseudo gentility
pseudo gentleman
pseudo geyser
pseudo ghost
pseudo healer
pseudo heart
pseudo heathen
pseudo hero
pseudo humanism
pseudo humanitarian
pseudo husband
pseudo identity
pseudo impartiality
pseudo independence
pseudo information
pseudo insanity
pseudo inspiration
pseudo internationalism
pseudo internationalist
pseudo invalid
pseudo invalidism
pseudo island
pseudo isle
pseudo jaundice
pseudo judge
pseudo judgment
pseudo justice
pseudo knight
pseudo label
pseudo learning
pseudo legality
pseudo legend
pseudo legislation
pseudo legislator
pseudo liberalism
pseudo liberality
pseudo liquidation
pseudo literature
pseudo loan
pseudo lord
pseudo mahogany
pseudo marble
pseudo marquis
pseudo marriage
pseudo martyr
pseudo martyrdom
pseudo masculinism
pseudo masculinity
pseudo masterpiece
pseudo medievalism
pseudo meditation
pseudo member
pseudo membership
pseudo memory
pseudo messenger
pseudo militarism
pseudo minister
pseudo ministry
pseudo miracle
pseudo modesty
pseudo monastery
pseudo monk
pseudo moralist
pseudo morality
pseudo myth
pseudo narcotism
pseudo nationalism
pseudo nobility
pseudo noble
pseudo nymph
pseudo occidentalism
pseudo occupation
pseudo official
pseudo officialism
pseudo orientalism
pseudo owner
pseudo pagan
pseudo parallel
pseudo parasite
pseudo parent
pseudo parson
pseudo participation
pseudo partner
pseudo partnership
pseudo pastor
pseudo pastorate
pseudo patriot
pseudo patriotism
pseudo patron
pseudo patronage
pseudo payment
pseudo peasant
pseudo peasantry
pseudo philanthropist
pseudo philanthropy
pseudo philologist
pseudo philology
pseudo philosopher
pseudo philosophy
pseudo physician
pseudo piety
pseudo pigmentation
pseudo poet
pseudo poetess
pseudo poetry
pseudo politician
pseudo politics
pseudo popularity
pseudo possession
pseudo possessor
pseudo poverty
pseudo precedent
pseudo prescription
pseudo presentiment
pseudo priest
pseudo priesthood
pseudo prince
pseudo principality
pseudo profession
pseudo professor
pseudo prohibition
pseudo prohibitionist
pseudo prophecy
pseudo prophet
pseudo prophetess
pseudo prosperity
pseudo psychologist
pseudo psychology
pseudo purity
pseudo ray
pseudo realism
pseudo recognition
pseudo recollection
pseudo reconciliation
pseudo reform
pseudo reformation
pseudo reformatory
pseudo reformer
pseudo registration
pseudo relation
pseudo relationship
pseudo relative
pseudo religion
pseudo republic
pseudo residence
pseudo resident
pseudo resignation
pseudo reversal
pseudo rheumatism
pseudo romanticism
pseudo royal
pseudo royalty
pseudo sacrilege
pseudo saint
pseudo saintliness
pseudo sanctity
pseudo sanctuary
pseudo satire
pseudo satirist
pseudo scholar
pseudo scholarship
pseudo science
pseudo scientist
pseudo sensation
pseudo sense
pseudo sensibility
pseudo servility
pseudo servitor
pseudo servitude
pseudo signature
pseudo siphon
pseudo slavery
pseudo socialism
pseudo socialist
pseudo specialist
pseudo speciality
pseudo specter
pseudo spirit
pseudo spirituality
pseudo statement
pseudo stem
pseudo student
pseudo subtlety
pseudo suicide
pseudo symptom
pseudo temperance
pseudo theft
pseudo tribe
pseudo tribulation
pseudo tribute
pseudo university
pseudo virgin
pseudo witness
pseudo worship
pseudo zeal
pseudo-
pseudo-African
pseudo-American
pseudo-Argentinean
pseudo-Argentinian
pseudo-Aristotelian
pseudo-Aryan
pseudo-Miltonic
pseudo-Mohammedan
pseudo-Mohammedanism
pseudo-Mongolian
pseudo-Moslem
pseudo-Muslem
pseudo-Muslim
pseudo-Norwegian
pseudo-Panamanian
pseudo-Persian
pseudo-Polish
pseudo-Presbyterian
pseudo-Republican
pseudo-Roman
pseudo-Russian
pseudo-Semitic
pseudo-Serbian
pseudo-Shakespearean
pseudo-Shakespearian
pseudo-Socratic
pseudo-Spanish
pseudo-Swedish
pseudo-Turkish
pseudo-Vergilian
pseudo-Victorian
pseudo-Virgilian
pseudo-carp
pseudo-catholic
pseudo-christ
pseudo-code
pseudo-hieroglyphic
pseudo-intransitive
pseudo-ionone
pseudo-isometric
pseudo-occidental
pseudo-orthorhombic
pseudo-osteomalacia
pseudo-papal
pseudo-uniseptate
pseudo-urate
pseudo-urea
pseudo-uric
pseudoaortic insufficiency
pseudologia phantastica
pseudometric space
pseudonymous literature
psi particle
psilo-
psych out
psych-
psychasthenic reaction
psyche knot
psyched up
psychedelic drug
psychedelic show
psychiatric evaluation
psychiatric ward
psychic apparatus
psyche knot
psyched up
psychedelic drug
psychedelic show
psychiatric evaluation
psychiatric ward
psychic apparatus
psychic bid
psychic blindness
psychic determinism
psychic energizer
psychic energy
psychic epilepsy
psychic income
psychic monism
psychic phenomena
psychic research
psychical phenomena
psychical research
psychically blind
psycho-
psycho-asthenics
psycho-physic
psycho-physical
psycho-therapeutic
psychoactive drug
psychoactive drugs
psychoanalytic method
psychoanalytic theory
psychoanalytic therapy
psychogenic disease
psychological block
psychological complex
psychological conditioning
psychological counseling
psychological defenses
psychological dependence
psychological dictionary
psychological evaluation
psychological fixation
psychological hedonism
psychological logic
psychological medicine
psychological moment
psychological novel
psychological primary
psychological profile
psychological screening
psychological stress
psychological support
psychological surrogate
psychological symbol
psychological test
psychological time
psychological warfare
psychologically addictive
psychology of depths
psychomotor disturbance
psychomotor epilepsy
psychoneurotic disorder
psychopathia martialis
psychopathia sexualis
psychopathic case
psychopathic condition
psychopathic hospital
psychopathic personality
psychopathic ward
psychophysical parallelism
psychosexual disorder
psychosocial medicine
psychosomatic disease
psychosomatic medicine
psychosomatic symptom
psychotic personality
psychro-
psychrometric chart
psyllium seed
pterid-
pterido-
ptero-
pteroic acid
pteroylglutamic acid
pteroylmonoglutamic acid
pterygo-
pterygoid bone
pterygoid process
ptilo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
public hair
public acclaim
public accountant
public act
public address
public administration
public assistance
public bar
public baths
public belief
public bill
public charge
public company
public consciousness
public convenience
public corporation
public crib
public debt
public defender
public dishonor
public domain
public enemy
public enterprise
public entertainer
public eye
public figure
public gallery
public health
public health doctor
public health medicine
public health nurse
public health physician
public hospital
public house
public image
public international law
public knowledge
public law
public lending right
public librarian
public library
public man
public motive
public notice
public nuisance
public official
public opinion
public orator
public ownership
public park
public policy
public press
public print
public prosecutor
public records
public relations
public relations man
public relations officer
public report
public sale
public school
public servant
public service
public speaker
public speaking
public speech
public spirit
public square
public statute
public telephone
public television
public till
public tit
public tranquillity
public treasury
public trough
public utilities
public utility
public walk
public welfare
public works
public worship
public-address system
public-liability insurance
public-minded
public-mindedness
public-official bond
public-opinion poll
public-school
public-service corporation
public-spirited
public-spiritedly
public-spiritedness
public-utility
public-voiced
publicity agent
publicity law
publicity man
publicity manager
publicity story
publicity-proof
publish a manifesto
publish the banns
publisher's catalog
publisher's list
publishing house
publishing industry
pubo-
puce oxide
puck-carrier
pucker up
pudding bag
pudding boom
pudding club
pudding face
pudding grass
pudding sleeve
pudding spar
pudding stone
pudding time
pudding-faced
pudding-pie
pudding-pipe tree
pudding-shaped
puddle ball
puddle bar
puddle duck
puddle rolls
puddle wall
puddling furnace
pudendal ulcer
puerperal fever
puerperal psychosis
puff adder
puff and blow
puff box
puff like a grampus
puff of air
puff of smoke
puff of wind
puff paste
puff pastry
puff pipe
puff shark
puff sleeve
puff up
puff-adder
puff-ball
puff-bird
puff-fish
puff-leg
puff-paste
puff-puff
puffed rice
puffed up
puffed wheat
puffer pipe
puffing up
pug dog
pug head
pug knife
pug mill
pug moth
pug nose
pug piling
pug-faced
pug-nosed
pug-pile
puisne judge
puisne justice
puke-stocking
pukka sahib
puling infant
pull a bloop
pull a bluff
pull a boner
pull a boo-boo
pull a face
pull a fast one
pull a fast one on
pull a gun on
pull a lone oar
pull a long face
pull a proof
pull about
pull about your ears
pull an oar
pull apart
pull around
pull at the heartstrings
pull at the leash
pull away
pull back
pull box
pull broach
pull by the sleeve
pull clear
pull date
pull different ways
pull down
pull fo
pull for
pull in
pull in pieces
pull in your horns
pull lamp holder
pull off
pull on
pull out
pull out all the stops
pull out of it
pull over
pull pin
pull punches
pull rank
pull ropes
pull round
pull station
pull strap
pull strings
pull switch
pull the forelock
pull the strings
pull the wires
pull the wool over your eyes
pull through
pull to pieces
pull together
pull towards
pull up
pull up by the roots
pull up short
pull up stakes
pull wires
pull you up short
pull your leg
pull your own weight
pull your rank
pull your teeth
pull your weight
pull your wits together
pull yourself together
pull-
pull-back
pull-down
pull-drive
pull-in
pull-in torque
pull-off
pull-on
pull-on sweater
pull-out
pull-out torque
pull-over
pull-through
pull-through torque
pull-up
pull-up chair
pullboat logging
puller-in
puller-out
pullet disease
pulley block
pulley chain
pulley frame
pulley lathe
pulley oiler
pulley stile
pulley tackle
pulley tap
pulley-shaped
pulling boat
pulling down
pulling out
pulling power
pulling together
pulling-out
pullorum disease
pullulate with
pully-haul
pully-hauly
pulmo-
pulmonary artery
pulmonary emphysema
pulmonary insufficiency
pulmonary phthisis
pulmonary stenosis
pulmonary tuberculosis
pulmonary valve
pulmonary vein
pulmonary
pulmonary
pulp canal
pulp canal therapy
pulp canal treatment
pulp cavity
pulp chamber
pulp engine
pulp lead
pulp machine
pulp magazine
pulp nodule
pulp plaster
pulpilyl galaxy
pulpit cloth
pulpit cross
pulpit rock
pulsating direct current
pulsating star
pulsating universe
pulsating universe theory
pulsation pump
pulsation theory
pulse analyzer
pulse deficit
pulse family
pulse generator
pulse glass
pulse height analyser
pulse ionization chamber
pulse jet
pulse jet helicopter
pulse modulation
pulse pressure
pulse radar
pulse rate
pulse transformer
pulse wave
pulse-jet
pulse-jet engine
pulse-jet propulsion
pulse-modulated radar
pulse-time modulation
pulsejet engine
pulsion diverticulum
pulsus alternans
pulvering day
pulverizer harrow
pumice soap
pumice stone
pumice-stone
pump bilge
pump bob
pump box
pump brake
pump cylinder
pump doctor
pump drill
pump for information
pump full of lead
pump gun
pump handle
pump house
pump out
pump priming
pump rod
pump room
pump sole
pump spear
pump staff
pump up
pump well
pump-action
pump-back method
pump-handle
pump-handler
pump-priming
pump-room
pump-well
pumping engine
pumping plan
pumping-back method
pumpkin ash
pumpkin head
pumpkin pine
pumpkin seed
pumpkin tree
pumpkin-colored
pumpkin-headed
pumpkin-seed
pumpkin-seed oil
puna grass
punch barrel
punch bowl
punch card
punch cards
punch cattle
punch cutter
punch full of holes
punch holder
punch house
punch in
punch ladle
punch lifter
punch line
punch mark
punch mat
punch out
punch pliers
punch press
punch spoon
punch the clock
punch-and-judy show
punch-ball
punch-bowl
punch-card data
punch-drunken
punch-hole
punch-marked
punch-up
punched card
punched cards
punched tape
punching bag
punching machine
punching press
punctuation mark
punctuation marks
puncture vine
puncture voltage
puncture your balloon
pungent meadow grass
pungle up
punish yourself
punishment of Tantalus
punishment that fits the crime
punishment-proof
punitive damages
punitive sanction
punk kid
punk oak
punk rock
punk tree
punkah wallah
punner bar
punt formation
punt gun
punt shooter
punt shooting
punto reverso
pup tent
pupa shell
pupa-shaped
pupil hour
pupil load
pupil teacher
pupil teachery
pupil-teacherdom
pupil-teachership
puppet government
puppet play
puppet player
puppet regime
puppet show
puppet valve
puppet-play
puppet-show
puppet-valve
puppy drum
puppy fat
puppy love
puppy-dog
pur sang
pur-
purchase book
purchase journal
purchase ledger
purchase money
purchase money bond
purchase record
purchase shears
purchase tax
purchase-money
purchasing agent
purchasing power
purchasing public
pure and simple
pure chemistry
pure color
pure culture
pure cussedness
pure democracy
pure form
pure imaginary
pure imaginary number
pure in heart
pure line
pure mathematics
pure mechanics
pure science
pure white
pure-blooded
pure-bosomed
pure-dye
pure-eyed
pure-food law
pure-heartedness
pure-minded
purebred horse
pureness of heart
purgatory hammer
purge away
purge yourself
purging nut
purification flower
purified cotton
purine base
purity rubric
purl stitch
purlieu-man
purlin plate
puro-
purple and fine linen
purple beard grass
purple bent
purple boneset
purple cestrum
purple chokeberry
purple color
purple daisy
purple finch
purple fish
purple fishery
purple foxglove
purple gallinule
purple heart
purple heron
purple lake
purple loosestrife
purple martin
purple medic
purple melick grass
purple mombin
purple mullein
purple oat
purple of Cassius
purple pall
purple passage
purple passages
purple patch
purple patches
purple rock cress
purple sage
purple sandpiper
purple shore crab
purple trillium
purple willow herb
purple wood grass
purple wood sorrel
purple wreath
purple-awned
purple-awned oat grass
purple-backed
purple-beaming
purple-berried
purple-black
purple-blue
purple-brown
purple-clad
purple-coated
purple-colored
purple-crimson
purple-dawning
purple-dyeing
purple-eyed
purple-faced
purple-flowered
purple-fringed
purple-fringed orchid
purple-glowing
purple-green
purple-headed
purple-hued
purple-leaved
purple-nosed
purple-red
purple-robed
purple-rose
purple-skirted
purple-spiked
purple-spotted
purple-staining
purple-stemmed
purple-streaked
purple-streaming
purple-tailed
purple-tipped
purple-top
purple-topped
purple-veined
purple-vested
purple-yellow
purpose clause
purpose of
purpose to yourself
purpose-built
purpura hemorrhagica
purpureo-
purre maw
purse atomizer
purse bearer
purse boat
purse crab
purse cutter
purse cutting
purse isinglass
purse line
purse maker
purse net
purse pride
purse race
purse ring
purse rope
purse seine
purse seiner
purse silk
purse snatcher
purse snatching
purse spider
purse string
purse strings
purse weight
purse-bearer
purse-eyed
push onward
push out
push out of place
push shot
push the panic button
push the pen
push the pencil
push through
push to one side
push to the wall
push up daisies
push upon
push your luck
push your way
push-
push-bike
push-button
push-button control
push-button plant
push-button telephone
push-button warfare
push-down
push-off
push-out chuck
push-pin
push-pull
push-pull microphone
push-start
push-up
pusher airplane
pusher grade
pusher plane
pusher propeller
pushing down
pushing under
pushing up daisies
puss clover
puss in the corner
puss moth
puss-cat
puss-moth
pussle-gutted
pussy clover
pussy wants a corner
pussy willow
pussy's toe
pussy's toes
pussy-foot
pustula maligna
put a bold face on
put a bold face upon
put a bridle on your tongue
put a bug in your ear
put a construction on
put a crimp in
put a curse on
put a duty on
put a false appearance upon
put a false construction on
put a false construction upon
put a figure on
put a flea in your ear
put a gloss upon
put a good face upon
put a half nelson on
put a hex on
put a juju on
put a mark on
put a penalty on
put a period to
put a question to
put a spoke in your wheel
put a spoke in your wheels
put a stop to
put a tuck in your tail
put about
put across
put all your eggs in one basket
put all your strength into
put an embargo on
put an end to
put an end to yourself
put and call
put apart
put aside
put asunder
put at a disadvantage
put at ease
put at your disposal
put away
put away for
put away thought
put back
put beef into it
put before
put behind one
put between
put beyond the pale
put by
put down
put down to
put faith in
put for
put forth
put forth buds
put forth leaves
put forth your strength
put forward
put heads together
put hep
put hip
put in
put in a call
put in a false light
put in a good word for
put in a hole
put in a new light
put in a nutshell
put in a spot
put in a trance
put in a word
put in a word for
put in an appearance
put in an order
put in an order for
put in black and white
put in bodily fear
put in commission
put in condition
put in danger
put in fear
put in for
put in force
put in good humor
put in hock
put in irons
put in jeopardy
put in mind
put in mothballs
put in motion
put in operation
put in opposition
put in order
put in pawn
put in phase
put in place
put in plain English
put in plain words
put in practice
put in proper fore-and-aft trim
put in remembrance
put in repair
put in requisition
put in shape
put in suit
put in the bag
put in the foreground
put in the minutes
put in the place of
put in the right
put in time
put in trim
put in tune
put in words
put in words of one syllable
put in working order
put in writing
put in your bad books
put in your black books
put in your head
put in your oar
put in your two cents
put in your two cents worth
put into
put into a flutter
put into a gas
put into effect
put into execution
put into port
put into practice
put into requisition
put into shape
put into the hands of
put into the picture
put into your head
put it
put it all behind one
put it all behind you
put it away
put it in few words
put it out of your thoughts
put it to
put it up to
put life into
put money in
put new life into
put next to
put obeah on
put off
put off mortality
put off the track
put on
put on a bold face
put on a burst of speed
put on a business basis
put on a business footing
put on a drive for
put on a false front
put on a false scent
put on a front
put on a harbor furl
put on a high
put on a pedestal
put on a show
put on airs
put on an act
put on an allowance
put on an even keel
put on blinders
put on edge
put on ice
put on immortality
put on long pants
put on long trousers
put on more sail
put on more speed
put on mourning
put on paper
put on parole
put on report
put on sail
put on side
put on steam
put on tape
put on the Index
put on the acid
put on the agenda
put on the air
put on the alert
put on the back burner
put on the block
put on the brakes
put on the dog
put on the drag
put on the feed bag
put on the gloves with
put on the grill
put on the map
put on the market
put on the new man
put on the rack
put on the record
put on the retired list
put on the right track
put on the ritz
put on the scales
put on the shelf
put on the soft pedal
put on the spot
put on the stage
put on the stand
put on the style
put on the track
put on to
put on to something hot
put on trial
put on weight
put on your considering cap
put on your feet
put on your guard
put on your thinking cap
put one on
put one on guard
put one's heart in one's mouth
put option
put out
put out a feeler
put out at interest
put out bag and baggage
put out buds
put out leaves
put out of action
put out of breath
put out of business
put out of commission
put out of countenance
put out of court
put out of existence
put out of face
put out of gear
put out of joint
put out of mind
put out of order
put out of place
put out of reach
put out of sight
put out of the way
put out of your head
put out of your mind
put out of your misery
put out of your thoughts
put out the welcome mat
put out to grass
put out to pasture
put out to sea
put over
put over against
put paid to
put pep into it
put pressure on
put price
put queries
put right
put six feet under
put somebody in his or her place
put someone on
put something across
put something aside
put something in the pot
put something over
put stock in
put straight
put teeth in
put the bee on
put the best color on
put the best face upon
put the bite on
put the blame on
put the cart before the horse
put the damper on
put the evil eye on
put the fear of God into
put the finger on
put the finisher on
put the finishing strokes on
put the finishing touches on
put the helm hard over
put the helm to leeward
put the helm up
put the jinx on
put the kibosh on
put the lid on
put the lid on it
put the pressure on
put the right foot forward
put the rudder amidships
put the rudder hard left
put the rudder hard over
put the rudder hard right
put the screw on
put the screw to
put the screws on
put the screws to
put the settler on
put the shot
put the skids to
put the skids under
put the touch on
put the worst face upon
put through
put through a deal
put through channels
put through the grind
put through the mill
put through the third degree
put to
put to advantage
put to bed
put to choice
put to death
put to flight
put to inconvenience
put to it
put to music
put to one side
put to press
put to rights
put to rout
put to school
put to sea
put to shame
put to silence
put to sleep
put to the blush
put to the proof
put to the question
put to the rack
put to the sword
put to the test
put to torture
put to trial
put to trouble
put to use
put to vote
put to your last shifts
put to your oath
put to your shifts
put to your wit's end
put together
put trust in
put two and two together
put under
put under a spell
put under an injunction
put under an interdict
put under an interdiction
put under an obligation
put under arrest
put under lock and key
put under oath
put under restraint
put under surveillance
put under the ban
put under the yoke
put up
put up a bluff
put up a bold front
put up a false front
put up a fight
put up a front
put up a howl
put up a job
put up a squawk
put up a struggle
put up an argument
put up as collateral
put up at
put up for auction
put up for sale
put up no barriers
put up the money
put up the shutters
put up the spout
put up to
put up with
put up with it
put up your hair
put upon
put upon oath
put upon record
put upon your mettle
put violently
put way upon
put with
put words in your mouth
put you in mind of
put you in the picture
put you in your place
put you on cloud nine
put you on top of the world
put you out
put you out of your misery
put you through your paces
put your Irish up
put your John Hancock on
put your arms around
put your back into
put your back into it
put your back to
put your back to the wall
put your back up
put your best foot forward
put your bristles up
put your cards on the table
put your cross on
put your dander up
put your eyes out
put your finger on
put your foot down
put your foot down on
put your foot in it
put your foot in your mouth
put your fur up
put your good name in jeopardy
put your hair up
put your hand to
put your hand to the plow
put your hands in your pockets
put your hands on
put your head in a lion's mouth
put your heart into
put your life on the line
put your mark on
put your mind at rest on
put your mind to
put your money on the line
put your monkey up
put your nose out of joint
put your pride in your pocket
put your shoulder to the wheel
put your teeth on edge
put your trust in
put your trust in God
put your two cents in
put your veto upon
put your weight in the scale
put your whole soul in
put yourself between disputants
put yourself down
put yourself down for
put yourself forward
put yourself in a spot
put yourself in another's shoes
put yourself in the hands of
put yourself out
put yourself out of court
put yourself out of the way
put yourself outside of
put yourself upon the
put zip into it
put-and-take
put-down
put-off
put-on
put-out
put-put
put-putter
put-up
put-up job
put-up market
put-upon
putative marriage
putrid matter
putt-putt
putter-forth
putter-in
putter-off
putter-on
putter-out
putter-through
putter-up
putting away
putting cleek
putting down
putting green
putting in
putting in order
putting on
putting on airs
putting out
putting out the eyes
putting stone
putting the best color on
putting together
putting two and two together
putting yourself between
putting-off
putting-stone
putty coat
putty eye
putty gloss
putty in your hands
putty knife
putty powder
putty-colored
putty-faced
putty-jointed
putty-looking
putty-powdered
putty-stopped
puzzle box
puzzle canon
puzzle lock
puzzle out
puzzle over
puzzle-brain
puzzle-cap
puzzle-headed
puzzle-monkey
puzzle-wit
puzzling problem
py-
pycno-
pye-dog
pygmy glider
pygmy weasel
pygmy-minded
pygo-
pyloro-
pyo-
pyogenic infection
pyorrhea alveolaris
pyorrhoea alveolaris
pyr-
pyramid flower
pyramid plant
pyramid selling
pyramid shell
pyramid-shaped
pyramidal number
pyramidal peak
pyramidal roof
pyramidal tent
pyrethrin I
pyrethrin II
pyrethrum yellow
pyreto-
pyrimidine base
pyrite type
pyrite yellow
pyrito-
pyritohedral group
pyro-
pyro-acid
pyrogallic acid
pyrogallol monoacetate
pyroligneous acid
pyroligneous alcohol
pyroligneous spirit
pyrometer cone
pyrometric bead
pyrometric cone
pyromucic aldehyde
pyrophosphoric acid
pyroracemic acid
pyrosulfuric acid
pyrosulphuric acid
pyrotechnic sponge
pyroxene group
pyroxylon plastic
pyrrhic victory
pyrrole red
pyruvic acid
pyruvic acid
pyruvic aldehyde
pyx chest
pyx cloth
pyx veil
pyx-jury
q fever
q v
q-boat
qua-bird
quack doctor
quack grass
quack remedy
quack-quack
quad crown
quad demy
quad large
quad line
quad royal
quad small
quadrant compass
quadrant electrometer
quadrant plate
quadraphonic sound system
quadrate cross
quadratic equation
quadratic form
quadratic formula
quadratic residue
quadrate-qa-quadrate component
quadrature of the circle
quadrennial circus
quadri-
quadri-invariant
quadric surface
quadrlateral spinnaker
quadrille ruling
quadrium merum
quadru-
quadrupe counterpoint
quadrupe fugue
quadrupe time
quadrupe-expansion
quadruplex telegraphy
quaff the bitter cup
quai d’orsay
quail brush
quail call
quail dove
quail hawk
quail pipe
quail snipe
quail-brush
quaint-costumed
quaint-eyed
quaint-felt
quaint-looking
quaint-notioned
quaint-shaped
quaint-spoken
quaint-stomached
quaint-witty
quaint-worded
quake grass
quake in your boots
quake in your shoes
quake like an aspen leaf
quake ooze
quaker gun
quaker meeting
quaker moth
quaker-colored
quaker-ladies
quaking aspen
quaking grass
quaking-grass
qualified negative
qualified veto
qualifying examination
qualitative analysis
quality binding
quality control
quality curve
quality factor
quality loop
quality stock
quality-control inspector
qualm of conscience
qualm-sick
quam libet
quandong nut
quantitative analysis
quantitative inheritance
quantitative meter
quantity control
quantity mark
quantity production
quantity surveying
quantity surveyor
quantity theorist
quantity theory
quantity theory of money
quantum chromodynamics
quantum electronics
quantum field theory
quantum liquid
quantum mechanics
quantum number
quantum optics
quantum statistics
quantum sufficit
quantum theory
quantum-mechanical
quarantine anchorage
quarantine flag
quarantine period
quare impedit
quarrel over
quarry bed
quarry face
quarry light
quarry miner
quarry out
quarry tile
quarry-faced
quarry-rid
quarrystone bond
quart major
quart minor
quart pot
quart-pot
quartal harmony
quarter ail
quarter at
quarter badge
quarter bar
quarter belt
quarter bend
quarter berth
quarter bill
quarter binding
quarter blanket
quarter block
quarter board
quarter boards
quarter boot
quarter box
quarter butt
quarter cask
quarter crack
quarter day
quarter deck
quarter dollar
quarter eagle
quarter evil
quarter face
quarter fast
quarter gallery
quarter galley
quarter grain
quarter hollow
quarter horse
quarter hour
quarter ill
quarter iron
quarter ladder
quarter lift
quarter light
quarter line
quarter miler
quarter nelson
quarter note
quarter of a century
quarter of a hundred
quarter pillar
quarter pitch
quarter plate
quarter point
quarter points
quarter rail
quarter rest
quarter round
quarter rudder
quarter screw
quarter section
quarter semitone
quarter sessions
quarter step
quarter stock
quarter tie
quarter tone
quarter watch
quartet table
quarto-centenary
quartz battery
quartz crystal
quartz flint
quartz glass
quartz lamp
quartz mill
quartz mining
quartz plate
quartz porphyry
quartz rock
quartz sand
quartz schist
quartz vein
quartz wedge
quartz-basalt
quartz-crystal clock
quartz-diorite
quartz-free
quartz-iodine lamp
quartz-light therapy
quartz-monzonite
quartz-syenite
quash the charge
quash the indictment
quashing of the charge
quashing of the indictment
quasi accident
quasi acquaintance
quasi actor
quasi adjective
quasi adjustment
quasi admiration
quasi adoption
quasi advantage
quasi adverb
quasi advice
quasi advocate
quasi affection
quasi agreement
quasi alarm
quasi alliance
quasi alumnus
quasi amateur
quasi amendment
quasi amusement
quasi angel
quasi animal
quasi answer
quasi apology
quasi appeal
quasi application
quasi appointment
quasi appreciation
quasi approval
quasi architect
quasi argument
quasi aristocracy
quasi aristocrat
quasi army
quasi arrangement
quasi art
quasi artist
quasi aspiration
quasi asset
quasi assignment
quasi assistance
quasi assurance
quasi asylum
quasi athlete
quasi attachment
quasi attack
quasi attainment
quasi attempt
quasi attendant
quasi attention
quasi attorney
quasi auditor
quasi author
quasi authority
quasi baby
quasi ballot
quasi bank
quasi banker
quasi bankruptcy
quasi banquet
quasi baptism
quasi bargain
quasi basis
quasi battle
quasi beginner
quasi belief
quasi beneficiary
quasi benevolence
quasi biography
quasi bird
quasi blessing
quasi blockade
quasi blunder
quasi body
quasi broker
quasi brother
quasi calamity
quasi caller
quasi cancellation
quasi candidate
quasi candor
quasi captain
quasi cause
quasi celebration
quasi certificate
quasi champion
quasi charity
quasi cheer
quasi chemistry
quasi circulation
quasi citizen
quasi civilization
quasi clairvoyance
quasi client
quasi climax
quasi club
quasi co-operation
quasi collapse
quasi collateral
quasi collection
quasi collector
quasi college
quasi colloquial
quasi combat
quasi comedy
quasi comfort
quasi command
quasi compact
quasi competition
quasi competitor
quasi compliance
quasi compliment
quasi comprehension
quasi compromise
quasi concern
quasi concession
quasi conclusion
quasi conference
quasi confession
quasi confinement
quasi confirmation
quasi conflict
quasi conformance
quasi congratulation
quasi congress
quasi conjunction
quasi connection
quasi conquest
quasi conscience
quasi consent
quasi consequence
quasi consideration
quasi consignment
quasi consolation
quasi consolidation
quasi constitution
quasi construction
quasi consultation
quasi consumption
quasi contempt
quasi contest
quasi continent
quasi continuation
quasi contract
quasi contrast
quasi contribution
quasi control
quasi convenience
quasi convention
quasi conversation
quasi conveyance
quasi conviction
quasi cook
quasi copula
quasi corporateness
quasi corporation
quasi correction
quasi council
quasi coupon
quasi court
quasi courtesy
quasi cousin
quasi craft
quasi creation
quasi credit
quasi creditor
quasi crime
quasi crisis
quasi criticism
quasi cultivation
quasi culture
quasi currency
quasi customer
quasi damage
quasi debt
quasi decision
quasi declaration
quasi decoration
quasi dedication
quasi default
quasi defeat
quasi defiance
quasi deficit
quasi definition
quasi dejection
quasi delegate
quasi delict
quasi demand
quasi democrat
quasi deposit
quasi depreciation
quasi depression
quasi deputy
quasi despair
quasi destination
quasi destruction
quasi detention
quasi development
quasi devil
quasi devotion
quasi diamond
quasi difference
quasi dinner
quasi diplomacy
quasi disadvantage
quasi disappearance
quasi disaster
quasi discipline
quasi discovery
quasi discrimination
quasi disgrace
quasi disgust
quasi dismissal
quasi distress
quasi distribution
quasi diversion
quasi division
quasi dominion
quasi donation
quasi doubt
quasi drama
quasi earnings
quasi easement
quasi economy
quasi education
quasi election
quasi emperor
quasi emphasis
quasi employment
quasi endorsement
quasi enemy
quasi enforcement
quasi engagement
quasi enrollment
quasi entertainment
quasi enthusiasm
quasi envy
quasi error
quasi escape
quasi estimation
quasi evidence
quasi exchange
quasi exclusion
quasi excuse
quasi executive
quasi exertion
quasi exile
quasi expectation
quasi expenditure
quasi expense
quasi experience
quasi expert
quasi explanation
quasi export
quasi exposure
quasi expression
quasi fact
quasi factor
quasi factory
quasi faculty
quasi failure
quasi faith
quasi farewell
quasi farmer
quasi fascination
quasi favor
quasi fee
quasi fiction
quasi flight
quasi force
quasi friend
quasi fulfillment
quasi gem
quasi genius
quasi gentleman
quasi gift
quasi glory
quasi graduate
quasi grief
quasi growth
quasi guarantee
quasi guest
quasi guilt
quasi handicap
quasi hardship
quasi harm
quasi health
quasi heir
quasi help
quasi hero
quasi hesitation
quasi historian
quasi history
quasi holiday
quasi honor
quasi horror
quasi identification
quasi ignorance
quasi illness
quasi import
quasi improvement
quasi incentive
quasi inclination
quasi increase
quasi indifference
quasi inducement
quasi indulgence
quasi inference
quasi information
quasi inheritance
quasi initiation
quasi injury
quasi injustice
quasi innocence
quasi inquiry
quasi insight
quasi inspection
quasi inspiration
quasi installation
quasi institution
quasi instruction
quasi insult
quasi integrity
quasi intention
quasi interest
quasi interference
quasi interview
quasi introduction
quasi invasion
quasi investigation
quasi invitation
quasi invoice
quasi judge
quasi judgment
quasi justice
quasi justification
quasi kindred
quasi king
quasi knowledge
quasi labor
quasi lady
quasi lament
quasi league
quasi legacy
quasi legality
quasi legislation
quasi liability
quasi liberty
quasi limit
quasi literature
quasi loan
quasi lord
quasi loss
quasi luxury
quasi magic
quasi maintenance
quasi majority
quasi management
quasi manager
quasi market
quasi masterpiece
quasi maximum
quasi melancholy
quasi member
quasi memory
quasi mercy
quasi merit
quasi message
quasi method
quasi millionaire
quasi minimum
quasi minister
quasi miracle
quasi misery
quasi mishap
quasi missionary
quasi monopoly
quasi mystery
quasi navy
quasi need
quasi neglect
quasi negligence
quasi neighbor
quasi neutrality
quasi news
quasi nobleman
quasi nomination
quasi notice
quasi novel
quasi obedience
quasi objection
quasi objective
quasi obligation
quasi observance
quasi observation
quasi obstacle
quasi occupation
quasi offense
quasi offer
quasi official
quasi omission
quasi opponent
quasi opposition
quasi optimist
quasi orator
quasi outrage
quasi owner
quasi ownership
quasi painter
quasi panic
quasi paradise
quasi pardon
quasi participation
quasi partisan
quasi partner
quasi patron
quasi payment
quasi penalty
quasi perfection
quasi person
quasi perusal
quasi philosopher
quasi pity
quasi plea
quasi pleasure
quasi pledge
quasi plenty
quasi poem
quasi policy
quasi politician
quasi possession
quasi poverty
quasi power
quasi praise
quasi preference
quasi prejudice
quasi preparation
quasi prepositional
quasi pressure
quasi prestige
quasi prevention
quasi principal
quasi principle
quasi prisoner
quasi privilege
quasi problem
quasi product
quasi profit
quasi progress
quasi prohibition
quasi promise
quasi prophecy
quasi proposal
quasi prosecution
quasi prosperity
quasi protection
quasi provocation
quasi punishment
quasi pupil
quasi purchase
quasi purity
quasi pursuit
quasi qualification
quasi quarantine
quasi quarrel
quasi quotation
quasi reality
quasi realization
quasi reason
quasi rebellion
quasi receipt
quasi recognition
quasi recollection
quasi reconciliation
quasi record
quasi recreation
quasi reduction
quasi reference
quasi refinement
quasi reform
quasi refusal
quasi registration
quasi rejection
quasi relief
quasi religion
quasi remedy
quasi reminder
quasi remittance
quasi remorse
quasi renewal
quasi rent
quasi repair
quasi replacement
quasi reply
quasi report
quasi representative
quasi request
quasi requirement
quasi rescue
quasi residence
quasi resident
quasi resistance
quasi response
quasi restoration
quasi result
quasi retirement
quasi revolution
quasi reward
quasi rival
quasi romance
quasi safety
quasi sagacity
quasi saint
quasi sale
quasi salvation
quasi sanction
quasi sarcasm
quasi satisfaction
quasi savings
quasi scarcity
quasi scholar
quasi science
quasi search
quasi sentence
quasi sentiment
quasi seriousness
quasi service
quasi settlement
quasi severalty
quasi shortage
quasi signature
quasi sincerity
quasi skill
quasi slander
quasi socialist
quasi soldier
quasi solution
quasi sonnet
quasi sovereign
quasi space
quasi specialist
quasi sphere
quasi spirit
quasi sport
quasi standard
quasi starvation
quasi statesman
quasi strike
quasi student
quasi subject
quasi submission
quasi success
quasi suggestion
quasi supervision
quasi support
quasi suppression
quasi sympathy
quasi system
quasi teacher
quasi temperance
quasi testimony
quasi thanks
quasi threat
quasi toleration
quasi tradition
quasi tragedy
quasi translation
quasi trial
quasi triumph
quasi trustee
quasi truth
quasi tyranny
quasi union
quasi unity
quasi university
quasi usufruct
quasi utility
quasi vacation
quasi valuation
quasi value
quasi verdict
quasi victim
quasi victory
quasi vigilance
quasi violation
quasi violence
quasi virtue
quasi vocation
quasi volunteer
quasi wager
quasi war
quasi warrant
quasi weakling
quasi wealth
quasi whisper
quasi wisdom
quasi witness
quasi wonder
quasi worship
quasi zeal
quasi-
quasi-American
quasi-Americanized
quasi-English
quasi-French
quasi-German
quasi-Grecian
quasi-Greek
quasi-Jacobean
quasi-Japanese
quasi-Latin
quasi-Spanish
quasi-absolute
quasi-absolutely
quasi-academic
quasi-academically
quasi-acceptance
quasi-accepted
quasi-accidental
quasi-accidentally
quasi-acquainted
quasi-active
quasi-actively
quasi-adequate
quasi-adequately
quasi-adjusted
quasi-admire
quasi-admired
quasi-admiring
quasi-adopt
quasi-adopted
quasi-adult
quasi-advantageous
quasi-advantageously
quasi-affectionate
quasi-affectionately
quasi-affirmative
quasi-affirmatively
quasi-alternating
quasi-alternatingly
quasi-alternative
quasi-alternatively
quasi-amateurish
quasi-amateurishly
quasi-amiable
quasi-amiably
quasi-amusing
quasi-amusingly
quasi-ancient
quasi-anciently
quasi-angelic
quasi-angelically
quasi-antique
quasi-anxious
quasi-anxiously
quasi-apologetic
quasi-apologetically
quasi-appealing
quasi-appealingly
quasi-appointed
quasi-appropriate
quasi-appropriately
quasi-artistic
quasi-artistically
quasi-aside
quasi-asleep
quasi-athletic
quasi-athletically
quasi-attempt
quasi-audible
quasi-audibly
quasi-authentic
quasi-authentically
quasi-authorized
quasi-automatic
quasi-automatically
quasi-awful
quasi-awfully
quasi-bad
quasi-bankrupt
quasi-basic
quasi-basically
quasi-beneficial
quasi-beneficially
quasi-benevolent
quasi-benevolently
quasi-biographical
quasi-biographically
quasi-blind
quasi-blindly
quasi-brave
quasi-bravely
quasi-brilliant
quasi-brilliantly
quasi-bronze
quasi-brotherly
quasi-calm
quasi-calmly
quasi-candid
quasi-candidly
quasi-capable
quasi-capably
quasi-careful
quasi-carefully
quasi-characteristic
quasi-characteristically
quasi-charitable
quasi-charitably
quasi-cheerful
quasi-cheerfully
quasi-civil
quasi-civilly
quasi-classic
quasi-classically
quasi-clerical
quasi-clerically
quasi-collegiate
quasi-colloquial
quasi-colloquially
quasi-comfortable
quasi-comfortably
quasi-comic
quasi-comical
quasi-comically
quasi-commanding
quasi-commandingly
quasi-commercial
quasi-commercialized
quasi-commercially
quasi-common
quasi-commonly
quasi-compact
quasi-compactly
quasi-competitive
quasi-competitively
quasi-complete
quasi-completely
quasi-complex
quasi-complexly
quasi-compliant
quasi-compliantly
quasi-complimentary
quasi-compound
quasi-comprehensive
quasi-comprehensively
quasi-compromising
quasi-compromisingly
quasi-compulsive
quasi-compulsively
quasi-compulsorily
quasi-compulsory
quasi-confident
quasi-confidential
quasi-confidentally
quasi-confidentially
quasi-confining
quasi-conforming
quasi-congenial
quasi-congenially
quasi-congratulatory
quasi-connective
quasi-connectively
quasi-conscientious
quasi-conscientiously
quasi-conscious
quasi-consciously
quasi-consequential
quasi-consequentially
quasi-conservative
quasi-conservatively
quasi-considerate
quasi-considerately
quasi-consistent
quasi-consistently
quasi-consolidated
quasi-constant
quasi-constantly
quasi-constitutional
quasi-constitutionally
quasi-constructed
quasi-constructive
quasi-constructively
quasi-consuming
quasi-content
quasi-contented
quasi-contentedly
quasi-continual
quasi-continually
quasi-continuous
quasi-deliberate
quasi-deliberately
quasi-delicate
quasi-delicately
quasi-delighted
quasi-delightedly
quasi-demanding
quasi-demandingly
quasi-democratic
quasi-democratically
quasi-dependence
quasi-dependent
quasi-dependently
quasi-depressed
quasi-desolate
quasi-desolately
quasi-desperate
quasi-desperately
quasi-despondent
quasi-despondently
quasi-determine
quasi-devoted
quasi-devotedly
quasi-difficult
quasi-difficultly
quasi-dignified
quasi-dignifying
quasi-diplomatic
quasi-diplomatically
quasi-disadvantageous
quasi-disadvantageously
quasi-disastrous
quasi-disastrously
quasi-discreet
quasi-discreetly
quasi-discriminating
quasi-discriminatingly
quasi-disgraced
quasi-disgusted
quasi-disgustedly
quasi-distant
quasi-distantly
quasi-distressed
quasi-diverse
quasi-diversely
quasi-diversified
quasi-divided
quasi-dividedly
quasi-double
quasi-doubly
quasi-doubtful
quasi-doubtfully
quasi-dramatic
quasi-dramatically
quasi-dreadful
quasi-dreadfully
quasi-dumb
quasi-dumbly
quasi-duplicate
quasi-dutiful
quasi-dutifully
quasi-dying
quasi-eager
quasi-eagerly
quasi-economic
quasi-economical
quasi-economically
quasi-educated
quasi-educational
quasi-educationally
quasi-effective
quasi-effectively
quasi-efficient
quasi-efficiently
quasi-elaborate
quasi-elaborately
quasi-elementary
quasi-eligible
quasi-eligible
quasi-eloquent
quasi-eloquently
quasi- eminent
quasi-eminently
quasi-emotional
quasi-emotionally
quasi-empty
quasi-endless
quasi-endlessly
quasi-energetic
quasi-energetically
quasi-enforced
quasi-engaging
quasi-engagingly
quasi-entertaining
quasi-enthused
quasi-enthusiastic
quasi-extraterritorial
quasi-extraterritorially
quasi-extreme
quasi-fabricated
quasi-fair
quasi-fairly
quasi-faithful
quasi-faithfully
quasi-false
quasi-falsely
quasi-familial
quasi-familiarly
quasi-famous
quasi-famously
quasi-fascinated
quasi-fascinating
quasi-fascinatingly
quasi-fashionable
quasi-fashionably
quasi-fatal
quasi-fatalistic
quasi-fatalistically
quasi-fatally
quasi-favorable
quasi-favorably
quasi-favourable
quasi-favourably
quasi-federal
quasi-federally
quasi-feudal
quasi-feudally
quasi-fictitious
quasi-fictitiously
quasi-final
quasi-financial
quasi-financially
quasi-fireproof
quasi-fiscal
quasi-fiscally
quasi-fit
quasi-foolish
quasi-foolishly
quasi-forced
quasi-foreign
quasi-forgetful
quasi-forgetfully
quasi-forgotten
quasi-formal
quasi-formally
quasi-formidable
quasi-formidably
quasi-fortunate
quasi-fortunately
quasi-frank
quasi-frankly
quasi-fraternal
quasi-fraternally
quasi-free
quasi-freely
quasi-fulfilling
quasi-full
quasi-fully
quasi-gallant
quasi-gallantly
quasi-gaseous
quasi-gay
quasi-generously
quasi-genteel
quasi-genteelly
quasi-gentlemanly
quasi-genuine
quasi-genuinely
quasi-glad
quasi-gladly
quasi-glorious
quasi-gloriously
quasi-good
quasi-gracious
quasi-graciously
quasi-grateful
quasi-gratefully
quasi-grave
quasi-gravely
quasi-great
quasi-greatly
quasi-guaranteed
quasi-guiltily
quasi-guilty
quasi-habitual
quasi-habitually
quasi-happy
quasi-harmful
quasi-harmfully
quasi-healthful
quasi-healthfully
quasi-heartily
quasi-hearty
quasi-helpful
quasi-helpfully
quasi-hereditary
quasi-heroic
quasi-heroically
quasi-historic
quasi-historical
quasi-historically
quasi-honest
quasi-honestly
quasi-honorable
quasi-honorably
quasi-human
quasi-humanistic
quasi-humanly
quasi-humble
quasi-humbly
quasi-humorous
quasi-humorously
quasi-ideal
quasi-idealistic
quasi-idealistically
quasi-ideally
quasi-identical
quasi-identically
quasi-ignorant
quasi-ignorantly
quasi-immediate
quasi-immediately
quasi-immortal
quasi-immortally
quasi-impartial
quasi-impartially
quasi-important
quasi-importantly
quasi-improved
quasi-inclined
quasi-inclusive
quasi-inclusively
quasi-increased
quasi-independent
quasi-independently
quasi-indifferent
quasi-indifferently
quasi-induced
quasi-indulged
quasi-industrial
quasi-industrially
quasi-inevitable
quasi-inevitably
quasi-inferior
quasi-inferred
quasi-infinite
quasi-infinitely
quasi-influential
quasi-influentially
quasi-informal
quasi-informally
quasi-informed
quasi-inherited
quasi-initiated
quasi-injured
quasi-injurious
quasi-injuriously
quasi-innocent
quasi-innocently
quasi-innumerable
quasi-innumerably
quasi-insistent
quasi-insistently
quasi-inspected
quasi-inspirational
quasi-installed
quasi-instructed
quasi-insulted
quasi-intellectual
quasi-intellectually
quasi-intelligent
quasi-intelligently
quasi-intended
quasi-interested
quasi-interestedly
quasi-internal
quasi-internalized
quasi-internally
quasi-international
quasi-internationalistic
quasi-internationally
quasi-interviewed
quasi-intimate
quasi-intimated
quasi-intimately
quasi-intolerable
quasi-intolerably
quasi-intolerant
quasi-intolerantly
quasi-introduced
quasi-intuitive
quasi-intuitively
quasi-invaded
quasi-investigated
quasi-invisible
quasi-invisibly
quasi-invited
quasi-irregular
quasi-irregularly
quasi-jocose
quasi-jocosely
quasi-jocund
quasi-jocundly
quasi-jointly
quasi-judicial
quasi-kind
quasi-kindly
quasi-knowledgeable
quasi-knowledgeably
quasi-laborious
quasi-laboriously
quasi-lamented
quasi-lawful
quasi-lawfully
quasi-legal
quasi-legally
quasi-legendary
quasi-legislated
quasi-legislative
quasi-legislatively
quasi-legitimate
quasi-legitimately
quasi-liberal
quasi-liberally
quasi-literary
quasi-living
quasi-logical
quasi-logically
quasi-loyal
quasi-loyally
quasi-luxurious
quasi-luxuriously
quasi-mad
quasi-madly
quasi-magic
quasi-mysteriously
quasi-mythical
quasi-mythically
quasi-nameless
quasi-national
quasi-nationalistic
quasi-nationally
quasi-native
quasi-natural
quasi-naturally
quasi-nebulous
quasi-nebulously
quasi-necessary
quasi-negative
quasi-negatively
quasi-neglected
quasi-negligent
quasi-negligible
quasi-negligibly
quasi-neutral
quasi-neutrally
quasi-new
quasi-newly
quasi-normal
quasi-normally
quasi-notarial
quasi-nuptial
quasi-obedient
quasi-obediently
quasi-objective
quasi-objectively
quasi-obligated
quasi-observed
quasi-offensive
quasi-offensively
quasi-official
quasi-officially
quasi-opposed
quasi-ordinary
quasi-organic
quasi-organically
quasi-oriental
quasi-orientally
quasi-original
quasi-originally
quasi-partisan
quasi-passive
quasi-passively
quasi-pathetic
quasi-pathetically
quasi-patient
quasi-patiently
quasi-patriarchal
quasi-patriotic
quasi-patriotically
quasi-patronizing
quasi-patronizingly
quasi-peaceful
quasi-peacefully
quasi-perfect
quasi-perfectly
quasi-periodic
quasi-periodically
quasi-permanent
quasi-permanently
quasi-perpetual
quasi-perpetually
quasi-personable
quasi-personably
quasi-personal
quasi-personally
quasi-perusable
quasi-philosophical
quasi-philosophically
quasi-physical
quasi-physically
quasi-pious
quasi-piously
quasi-plausible
quasi-pleasurable
quasi-pleasurably
quasi-pledge
quasi-pledged
quasi-pledging
quasi-plentiful
quasi-plentifully
quasi-poetic
quasi-poetical
quasi-poetically
quasi-politic
quasi-political
quasi-politically
quasi-poor
quasi-poorly
quasi-popular
quasi-popularly
quasi-positive
quasi-positively
quasi-powerful
quasi-powerfully
quasi-practical
quasi-practically
quasi-precedent
quasi-preferential
quasi-preferentially
quasi-prejudiced
quasi-prepositional
quasi-prepositionally
quasi-prevented
quasi-private
quasi-privately
quasi-privileged
quasi-probable
quasi-probably
quasi-problematic
quasi-productive
quasi-productively
quasi-progressive
quasi-progressively
quasi-promised
quasi-prompt
quasi-promptly
quasi-proof
quasi-prophetic
quasi-prophetical
quasi-prophetically
quasi-prosecuted
quasi-prosperous
quasi-prosperously
quasi-protected
quasi-proud
quasi-proudly
quasi-provincial
quasi-provincially
quasi-provocative
quasi-provocatively
quasi-public
quasi-publicly
quasi-punished
quasi-pupillary
quasi-purchased
quasi-qualified
quasi-radical
quasi-radically
quasi-rational
quasi-rationally
quasi-realistic
quasi-realistically
quasi-reasonable
quasi-reasonably
quasi-rebellious
quasi-rebelliously
quasi-recent
quasi-recently
quasi-recognized
quasi-reconciled
quasi-reduced
quasi-refined
quasi-reformed
quasi-refused
quasi-registered
quasi-regular
quasi-regularly
quasi-regulated
quasi-rejected
quasi-reliable
quasi-reliably
quasi-relieved
quasi-religious
quasi-religiously
quasi-remarkable
quasi-remarkably
quasi-renewed
quasi-repaired
quasi-replaced
quasi-reported
quasi-represented
quasi-republican
quasi-required
quasi-rescued
quasi-residential
quasi-residentially
quasi-resisted
quasi-respectable
quasi-respectably
quasi-respected
quasi-respectful
quasi-respectfully
quasi-responsible
quasi-responsibly
quasi-responsive
quasi-responsively
quasi-restored
quasi-retired
quasi-revolutionized
quasi-rewarding
quasi-ridiculous
quasi-righteous
quasi-righteously
quasi-romantic
quasi-romantically
quasi-royal
quasi-royally
quasi-rural
quasi-rurally
quasi-sad
quasi-sadly
quasi-safe
quasi-safely
quasi-sagacious
quasi-sagaciously
quasi-saintly
quasi-sanctioned
quasi-sanguine
quasi-sanguinely
quasi-sarcastic
quasi-sarcastically
quasi-satirical
quasi-satirically
quasi-satisfied
quasi-savage
quasi-savagely
quasi-scholarly
quasi-scholastic
quasi-scholastically
quasi-scientific
quasi-scientifically
quasi-secret
quasi-secretive
quasi-secretively
quasi-secretly
quasi-secure
quasi-securely
quasi-sentimental
quasi-sentimentally
quasi-serious
quasi-seriously
quasi-settled
quasi-similar
quasi-similarly
quasi-sincere
quasi-sincerely
quasi-single
quasi-singly
quasi-skillful
quasi-skillfully
quasi-slanderous
quasi-slanderously
quasi-sober
quasi-soberly
quasi-socialistic
quasi-socialistically
quasi-sovereign
quasi-spatial
quasi-spatially
quasi-spherical
quasi-spherically
quasi-spirited
quasi-spiritedly
quasi-spiritual
quasi-spiritually
quasi-standardized
quasi-stationary
quasi-stellar object
quasi-stellar radio source
quasi-strenuous
quasi-strenuously
quasi-studious
quasi-studiously
quasi-stylish
quasi-stylishly
quasi-subjective
quasi-subjectively
quasi-submissive
quasi-submissively
quasi-successful
quasi-successfully
quasi-sufficient
quasi-sufficiently
quasi-superficial
quasi-superficially
quasi-superior
quasi-supervised
quasi-supported
quasi-suppressed
quasi-sympathetic
quasi-sympathetically
quasi-systematic
quasi-systematically
quasi-systematized
quasi-tangent
quasi-tangible
quasi-tangibly
quasi-technical
quasi-technically
quasi-temporal
quasi-temporally
quasi-territorial
quasi-territorially
quasi-testamentary
quasi-theatrical
quasi-theatrically
quasi-thorough
quasi-thoroughly
quasi-tolerant
quasi-tolerantly
quasi-total
quasi-totally
quasi-traditional
quasi-traditionally
quasi-tragic
quasi-tragically
quasi-tribal
quasi-tribally
quasi-truthful
quasi-truthfully
quasi-typical
quasi-typically
quasi-tyrannical
quasi-tyrannically
quasi-ultimate
quasi-unanimous
quasi-unanimously
quasi-unconscious
quasi-unconsciously
quasi-unified
quasi-universal
quasi-universally
quasi-uplift
quasi-utilized
quasi-valid
quasi-validly
quasi-valued
quasi-venerable
quasi-venerably
quasi-victorious
quasi-victoriously
quasi-violated
quasi-violent
quasi-violently
quasi-virtuous
quasi-virtuously
quasi-vital
quasi-vitally
quasi-vocational
quasi-vocationally
quasi-warfare
quasi-warranted
quasi-wealthy
quasi-whispered
quasi-wicked
quasi-wickedly
quasi-willing
quasi-willingly
quasi-wrong
quasi-young
quasi-zealous
quasi-zealously
quater-centenary
quaternary ammonium compound
quaternary ammonium salt
quaternian algebra
quaternion algebra
quaternion unit
quatre point
quatre premiers
quay punt
que sera sera
quean-cat
queen anne
queen anne's lace
queen bee
queen blue
queen bolt
queen butterfly
queen cactus
queen cage
queen cat
queen cattleya
queen cell
queen closer
queen conch
queen consort
queen dowager
queen excluder
queen fern
queen fritter
queen gold
queen mother
queen note
queen of heaven
queen of night
queen of puddings
queen of the meadow
queen of the prairie
queen olive
queen palm
queen post
queen regent
queen regnant
queen rod
queen shell
queen snake
queen staysail
queen stitch
queen substance
queen truss
queen's English
queen's birthday
queen's counsel
queen's evidence
queen's highway
queen's scout
queen's shilling
queen's ware
queen's wreath
queen-mother
queen-of-the-meadow
queen-of-the-prairie
queen-post
queen-post truss
queen-size bed
queens-ware
queer cuffin
queer duck
queer fish
queer in the head
queer potato
queer specimen
queer street
queer the works
queer-bashing
queer-eyed
queer-faced
queer-headed
queer-legged
queer-looking
queer-made
queer-notioned
queer-shaped
queer-spirited
queer-tempered
queerqueer cuffin
queez-madam
quelque chose
quench hook
quenching bath
quenouille training
quercitron lake
quercitron oak
querulous person
query mark
quest after
question at issue
question before the house
question in your mind
question mark
question master
question of fact
question of law
question stop
question time
question-and-answer session
question-begging
question-mark
quetzal bird
queue up
queuing theory
qui s'excuse s'accuse
qui tam
qui transtulit sustinet
qui vive
qui-hi
qui-hy
quia-quia
quick as a wink
quick as lightning
quick as thought
quick assets
quick bread
quick ear
quick exit
quick fire
quick freezing
quick grass
quick hunch
quick inspection
quick kick
quick look
quick march
quick on the draw
quick on the trigger
quick on the uptake
quick one
quick parts
quick pull
quick sight
quick sighted
quick step
quick stick
quick temper
quick thinking
quick time
quick to take offense
quick trick
quick water
quick wit
quick-acting
quick-break switch
quick-burning
quick-change
quick-change artist
quick-coming
quick-compounded
quick-conceiving
quick-decaying
quick-designing
quick-devouring
quick-drawn
quick-eared
quick-fading
quick-falling
quick-fire
quick-frirer
quick-firing
quick-flowing
quick-freeze
quicken your pace
quickening grass
quickie strike
quickness to take offense
quickset hedge
quicksilver weed
quickstep march
quicumque vult
quid pro quo
quid pro quos
quids pro quo
quiet as a mouse
quiet as a street at night
quiet day
quiet death
quiet down
quiet ecstasy
quiet end
quiet good manners
quiet hour
quiet life
quiet mind
quiet please
quiet pleasure
quiet spell
quiet taste
quiet-colored
quiet-dispositioned
quiet-eyed
quiet-going
quiet-living
quiet-looking
quiet-mannered
quiet-minded
quiet-moving
quiet-patterned
quiet-seeming
quiet-spoken
quiet-tempered
quietistic painting
quill bark
quill bit
quill drive
quill driver
quill driving
quill fern
quill fly
quill gear
quill nib
quill pen
quill pig
quill worts
quill-less
quill-like
quill-tailed
quillai bark
quillback carpsucker
quilting bee
quilting cotton
quin-
quince curculio
quince wine
quince yellow
quince-seed gum
quince-seed mucilage
quinhydrone electrode
quinic acid
quinine bush
quinine cherry
quinine flower
quinine herb
quinine plant
quinine tree
quinine water
quinat salmon
quino-
quino-line dye
quinoline yellow
quinone diazide
quinone diimine
quinone oxime
quinova bitter
quinque-
quince-angle
quinque-angled
quinque-angular
quinque-annulate
quinque-articulate
quinsy woodruff
quint major
quint minor
quint-
quinti-
quintuple counterpoint
quintuple point
quintuple time
quintuple-nerved
quintuple-ribbed
quip at
quips and cranks
quirk bead
quirk molding
quit cold
quit of
quit the field
quit this world
quit yourself
quit-rent
quitch grass
quitclaim deed
quite a
quite a few
quite a little
quite a thing
quite another thing
quite rather
quite so
quite some
quite the contrary
quite the lady
quitter bone
quiver along the spine
quiver leg
quiver like a rabbit
quiver of terror
quiver tree
quixotic ideal
quiz kid
quiz show
quizzing glass
quizzing-glass
quo warranto
quo ad hoc
quobosque-weed
quod erat demonstrandum
quod erat faciendum
quod vide
quoddy boat
quoin post
quota immigrant
quota system
quotation board
quotation book
quotation mark
quotation marks
quotation noun
quote a price
quote chapter and verse
quote mark
quote out of context
quote yourself
quoted price
quotient group
quotient ring
quotient space
quotient verdict
r color
r-RNA
r-colour
r-less
rKET
rabbet draft
rabbet joint
rabbet plane
rabbet plank
rabbet-shaped
rabbinic hebrew
rabbit bandicoot
rabbit berry
rabbit breeder
rabbit brush
rabbit cat
rabbit ears
rabbit fev
rabbit fever
rabbit fish
rabbit flower
rabbit foot
rabbit louse
rabbit moth
rabbit punch
rabbit squirrel
rabbit stick
rabbit tick
rabbit tobacco
rabbit warren
rabbit's foot
rabbit's-foot
rabbit's-foot clover
rabbit-backed
rabbit-chasing
rabbit-ear
rabbitear faucet
rabbi terror
rabbi terror face
rabbi terror foot
rabbi terror clover
rabbi terror grass
rabbi terror meat
rabbi terror mouthed
rabbi terror proof fence
rabbi terror shoulderer
rabbi terror tail grass
rabbitskin glue
rabble rout
rabble charming
rabble chosen
rabble courting
rabble curbing
rabble rouse
rabble roused
rabble rouser
rabble rousing
raccoon dog
raccoon dog
raccoon fox
raccoon grape
raccoon oyster
raccoon perch
race against time
race board
race boat
race car
race card
race cloth
race cup
race extermination
race glass
race ground
race hatred
race horse
race horses
race knife
race meeting
race memory
race of man
race off
race plate
race prejudice
race problem
race psychology
race relations
race riot
race rotation
race runner
race snobbery
race stand
race suicide
race through the mind
race tool
race track
race week
race with
race with time
race your motor
race-begotten
race-course
race-horse
race-maintaining
race-murder
race-riding
race-running
race-track
race-wide
race-winning
racehorse grass
racemic acid
racemo-
racemose gland
rachi-
racial discrimination
racial immunity
racial memory
racial segregation
racial unconscious
racing car
racing crab
racing flag
racing form
racing gig
racing glass
racing iron
racing plate
racing saddle
racing shell
racing skate
racing skiff
racing stream
<table>
<thead>
<tr>
<th>Terms</th>
<th>Terms</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>racing yacht</td>
<td>rack back</td>
<td>rack bar</td>
</tr>
<tr>
<td>rack block</td>
<td>rack car</td>
<td>rack clock</td>
</tr>
<tr>
<td>rack comb</td>
<td>rack locomotive</td>
<td>rack pillar</td>
</tr>
<tr>
<td>rack pin</td>
<td>rack punch</td>
<td>rack rail</td>
</tr>
<tr>
<td>rack railway</td>
<td>rack rent</td>
<td>rack saw</td>
</tr>
<tr>
<td>rack the rents</td>
<td>rack up</td>
<td>rack up the rents</td>
</tr>
<tr>
<td>rack wheel</td>
<td>rack your brains</td>
<td>rack-and-pinion</td>
</tr>
<tr>
<td>rack-and-pinion railroad</td>
<td>rack-and-pinion railway</td>
<td>rack-rent</td>
</tr>
<tr>
<td>rack-renter</td>
<td>rack-stick</td>
<td>racket court</td>
</tr>
<tr>
<td>racket press</td>
<td>racket wheel</td>
<td>racket-tail</td>
</tr>
<tr>
<td>racketets, the</td>
<td>racomo-oxalic</td>
<td>radar antenna</td>
</tr>
<tr>
<td>radar application</td>
<td>radar astronomer</td>
<td>radar astronomy</td>
</tr>
<tr>
<td>radar beacon</td>
<td>radar beacon buoy</td>
<td>radar bombsight</td>
</tr>
<tr>
<td>radar controls</td>
<td>radar countermeasure</td>
<td>radar defenses</td>
</tr>
<tr>
<td>radar dome</td>
<td>radar engineer</td>
<td>radar fence</td>
</tr>
<tr>
<td>radar highway patrol</td>
<td>radar interference</td>
<td>radar marked beacon</td>
</tr>
</tbody>
</table>

---

**Open Source Used in Kenna Virtual Tunnel and Agent 2021.08 14286**
radiation pattern
radiation physicist
radiation physics
radiation potential
radiation pressure
radiation pyrometer
radiation sickness
radiation therapy
radiato-
radiato-undulate
radiator cap
radiator casing
radiator compound
radiator core
radiator foot
radiator gauge
radiator grille
radiator maker
radiator making
radiator tank
radiator valve
radical axis
radical change
radical chic
radical empiricism
radical empiricist
radical expression
radical operation
radical reform
radical right
radical rightism
radical sign
radical therapy
radici-
radio aerial
radio altimeter
radio amateur
radio antenna
radio astronomer
radio astronomy
radio audience
radio beacon
radio beam
radio bearing
radio broadcast
radio broadcasting
radio car
radio channel
radio circuit
radio communication
radio compass
radio compass station
radio control
radio detection and ranging
radio direction finder
radio drama
radio electrician
radio electronics
radio engineer
radio engineering
radio fare
radio field intensity
radio frequency
radio horizon
radio interference
radio interferometer
radio knife
radio link
radio links
radio listener
radio marker
radio mast
radio mirror
radio navigation
radio observatory
radio operator
radio play
radio program
radio proximity fuze
radio range
radio range beacon
radio range station
radio receiver
radio reception
radio relay station
radio room
radio set
radio shack
radio show
radio signal
radio source
radio spectator
radio spectrum
radio star
radio station
radio technician
radio telescope
radio transmission
radio transmitter
radio tube
radio tubes
radio units
radio valve
radio wave
radio window
radio-active
radio-controlled lifeboat
radio-frequency
radio-frequency amplification
radio-frequency amplifier
radio-frequency circuit
radio-frequency echoes
radio-frequency heater
radio-frequency pulse
radio-frequency signal
radio-frequency stage
radio-frequency tube
radio-iodine
radio-navigational trainer
radio-phonograph
radio-phonograph combination
radio-record player
radio-ulna
radio-ulnar
radioactive decay
radioactive dust
radioactive element
radioactive elements
radioactive emanation
radioactive fallout
radioactive isotope
radioactive particle
radioactive radiation
radioactive series
radioactive substance
radioactive unit
radioactive units
radioactive waste
radiocarbon dating
radiological physics
radiosonde balloon
radiotelephone transmitter
radiotherapeutic substance
radiotherapeutic treatment
radish tree
radium B
radium bath
radium dial
radium emanation
radium lead
radium miner
radium paint
radium therapy
radium vermilion
radium-proof
radius bar
radius gauge
radius of action
radius of convergence
radius of curvature
radius of gyration
radius rod
radius trowel
radius vector
radius vectors
radix graminis
radix point
radon seed
raffia palm
raffle off
raffle wheel
raft body
raft dog
raft duck
raft ice
raft of money
raft port
rafted ice
rafter dam
rafter table
rag baby
rag bag
rag beater
rag bleacher
rag board
rag bolt
rag bush
rag carpet
rag chopper
rag dealer
rag doll
rag engine
rag fair
rag felt
rag gourd
rag lining
rag money
rag mop
rag offering
rag out
rag paper
rag peddler
rag pulp
rag rug
rag shop
rag stock
rag trade
rag tree
rag up
rag well
rag wheel
rag wool
rag work
rag-and-bone man
rag-and-chain pump
rag-bag
rag-bailing
rag-beating
rag-boiling
rag-bolt
rag-burn
rag-chew
rag-cutting
rag-fair
rag-made
rag-tag
rag-threshing
rag-time
rag-wheel
rage-crazed
rage-filled
rage-infuriate
rage-subduing
rage-swelling
rage-transported
ragged edge
ragged robin
ragged school
ragged staff
raggle block
raggle-taggle
raging fire
raging passion
raglan sleeve
ragman roll
ragman rolls
ragsorter's disease
ragtag and bobtail
ragtime band
ragtime music
ragweed family
rah-rah
raid the market
rail at
rail bead
rail car
rail chair
rail clip
rail dumper
rail ender
rail fence
rail filler
rail fork
rail guard
rail in
rail line
rail lock
rail maker
rail making
rail plate
rail setter
rail straightener
rail tongs
rail track
rail train
rail-bearing
rail-bending
rail-bonding
rail-borne
rail-cutting
rail-laying
rail-ocean
rail-ridden
rail-sawing
rail-splitter
rail-splitting
railroad center
rain god
rain gods
rain insurance
rain leader
rain lily
rain maker
rain making
rain or shine
rain out
rain pie
rain pipe
rain pitchforks
rain print
rain rot
rain shadow
rain shower
rain spot
rain suit
rain tadpoles
rain tree
rain water
rain wind rose
rain-awakened
rain-bearing
rain-beat
rain-beaten
rain-bird
rain-bitten
rain-bleared
rain-blue
rain-bright
rain-damped
rain-drenched
rain-driven
rain-dropping
rain-fowl
rain-fraught
rain-god
rain-gutted
rain-scented
rain-soaked
rain-sodden
rain-soft
rain-streaked
rain-swept
rain-threatening
rain-washed
rain-water
rain-water fish
rainbow bird
rainbow cactus
rainbow chaser
rainbow chasing
rainbow cordial
rainbow darter
rainbow fish
rainbow herring
rainbow moss
rainbow parrotfish
rainbow perch
rainbow runner
rainbow seaperch
rainbow snake
rainbow trout
rainbow-arched
rainbow-clad
rainbow-colored
rainbow-edged
rainbow-girded
rainbow-hued
rainbow-large
rainbow-painted
rainbow-sided
rainbow-skirted
rainbow-tinted
rainbow-winged
rainette green
rainwater pipe
rainy day
rainy season
rainy weather
raise Cain
raise Ned
raise a clamor
raise a cry
raise a din
raise a hand against
raise a howl
raise a hue and cry
raise a hue and cry against
raise a hullabaloo
raise a laugh
raise a question
raise a ruckus
raise a rumpus
raise a siege
raise a smile
raise a storm
raise aloft
raise an alarm
raise animals
raise apprehensions
raise expectation
raise expectations
raise from the dead
raise ghosts
raise hell
raise hob
raise hob with
raise hope
raise merry hell
raise money
raise objections
raise sand
raise the curtain
raise the deuce
raise the devil
raise the dickens
raise the drawbridge
raise the elbow
raise the hue and cry
raise the hunt
raise the roof
raise the spirits
raise the temperature
raise to a fever heat
raise to a fever pitch
raise to more than one
raise up
raise up the voice
raise your choler
raise your dander
raise your eyebrows
raise your gorge
raise your hackles
raise your hand against
raise your hopes
raise your pay
raise your voice
raise your voice against
raised beach
raised doughnut
raised girt
raised in a barn
raised quarter-deck
raisin black
raisin bread
raisin grape
raisin purple
raisin tree
raisin wine
raisin-colored
raising bee
raising hammer
raising of temperature
raising plate
raising-piece
raison d'etat
raison d'etre
raison d'tre
raj-kumari
rake in
rake out
rake over the coals
rake up
rake up the past
rake vein
rake-hell
rake-off
rake-teeth
raked bow
raker tooth
raking bond
raking cornice
raking course
raking fire
raking over the coals
raking shore
raking-down
raking-over
ralli-car
rally around
rally round
rallying cry
rallying device
rallying point
rallying theme
ram bow
ram cat
ram down
ram down your throat
ram effect
ram in
ram leather
ram pressure
ram rocket
ram schooner
ram's horn
ram's-head lady's-slipper
ram's-horn
ram-air turbine
ram-cat
ram-headed
ram-jam
ram-jet engine
ram-jet propulsion
ram-line
ram-rod
ramage hawk
ramble on
ramble-scramble
ramjet engine
rammed earth
ramp along
ramp valley
rampant arch
rampant will
ramper eel
ramrod-stiff
ran-tan
ranch company
ranch country
ranch economics
ranch hand
ranch house
ranch life
ranch owner
ranch rider
ranch wagon
rand machine
randall grass
random access
random access memory
random bond
random data
random line
random motion
random point
random sample
random sampling
random shot
random-jointed
range angle
range finder
range finding
range grass
range horse
range itself
range light
range line
range mark
range marker
range masonry
range of accommodation
range of meaning
range of view
range of vision
range out
range over
range paralysis
range pole
range rake
range rider
range stove
range table
range the coast
range the world
range through
range with
range wool
range yourself on the side of
range yourself with
range-bred
range-marker generator
range-sweep amplifier
range-sweep generator
ranging pole
rank and file
rank beneath
rank first
rank high
rank low
rank out
rank under
rank-and-filer
rank-brained
rank-feeding
rank-growing
rank-grown
rank-minded
rank-out
rank-scented
rank-scenting
rank-smelling
rank-springing
rank-swelling
rank-tasting
rank-winged
ranking bar
ranking jumper
rankle in the breast
ransack your brains
ransom bill
ransom bond
rant and rave
rantum-scantum
ranz-des-vaches
rap full
rap on the knuckles
rap out an oath
rap session
rap sheet
rap shot
rap-full
rape butterfly
rape oil
rape wine
rapeseed oil
rapid eye movement
rapid fire
rapid glance
rapid recurrence
rapid slope
rapid succession
rapid transit
rapid-changing
rapid-fire
rapid-fire mount
rapid-firer
rapid-firing
rapid-flowing
rapid-flying
rapid-footed
rapid-mannered
rapid-passing
rapid-running
rapid-speaking
rapid-transit
rapier-like
rapier-proof
rapper-dandies
rapt attention
rapt away
rapt full
rapt in wonder
rapture-bound
rapture-breathing
rapture-bursting
rapture-giving
rapture-moving
rapture-ravished
rapture-rising
rapture-smitten
rapture-speaking
rapture-touched
rapture-trembling
rapture-wrought
rara avis
rare bird
rare book
rare earth
rare gas
rare good humor
rare metals
rare-bred
rare-earth element
rare-earth elements
rare-earth metal
rare-earth metals
rare-featured
rare-felt
rare-gifted
rare-painted
rare-qualified
rare-ripe
rare-seen
rare-shaped
raree show
raree-show
rarin’ to go
raring to
rascally knave
rash conviction
rash impulse
rash-brain
rash-brained
rash-conceived
rash-embraced
rash-headed
rash-hearted
rash-levied
rash-minded
rash-pledged
rash-running
rash-spoken
rash-thoughted
rasher of bacon
rasing iron
rasing knife
rasp grass
rasp house
rasp palm
rasp pod
raspberry apple
raspberry beetle
raspberry bug
raspberry curl
raspberry mosaic
raspberry red
raspberry root borer
raspberry root rot
raspberry sawfly
raspberry wine
raspberry yellows
raspberry-jam
rasphead rockfish
rat cheese
rat claw foot
rat flea
rat goose
rat hare
rat kangaroo
rat mite
rat mole
rat pineapple
rat poison
rat race
rat rhyme
rat snake
rat stop
rat tail
rat terrier
rat unit
rat's nest
rat's-tail
rat-a-tat
rat-bite fever
rat-catcher
rat-colored
rat-deserted
rat-eyed
rat-faced
rat-gnawn
rat-infested
rat-inhabited
rat-kangaroo
rat-kangaroos
rat-killing
rat-lin
rat-ridden
rat-riddled
rat-skin
rat-stripper
rat-tail
rat-tail cactus
rat-tail file
rat-tail spoon
rat-tailed
rat-tailed maggot
rat-tat
rat-tat-tat
rat-tattle
rat-tight
rat-trap
ratable value
ratafia biscuit
ratatat-tat
ratbite disease
ratbite fever
ratchet brace
ratchet chain
ratchet clock
ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
rate action
rate base
rate cap
rate determination
rate highly
rate low
rate maker
rate making
rate of exchange
rate of interest
rate-aided
rate-cutting
rate-fixing
rate-of-climb indicator
rate-raising
rate-setting
rated load
rathe-ripe
rather than
rating badge
rating flume
rating nut
ratio arm
ratio cognoscendi
ratio test
ration out
rational animal
rational calorie
rational faculty
rational form
rational function
rational ground
rational horizon
rational mechanics
rational number
rational psychology
rational theology
rational treatment
rational-emotive therapy
ratline down
ratline stuff
rato unit
rattail cactus
rattail comb
rattail fescue
rattail file
rattan vine
rattle around
rattle barrel
rattle grass
rattle on
rattle the windows
rattle-bush
rattle-head
rattle-pate
rattle-top
rattlesnake bean
rattlesnake fern
rattlesnake flag
rattlesnake grass
rattlesnake leaf
rattlesnake master
rattlesnake plantain
rattlesnake root
rattlesnake weed
rattlesnake-bite
rattlety-bang
rattling pace
rattrap pedal
raucous happiness
raus mit dir
ravage with fire and sword
ravaged with age
ravages of time
rave about
rave against
rave hook
rave-up
ravel bread
ravel out
raven black
raven cockatoo
raven gray
raven standard
raven-black
raven-colored
raven-feathered
raven-haired
raven-plumed
raven-toned
raven-torn
raven-tressed
ravigote sauce
ravine deer
raving beauty
raving lunatic
raving mad
ravished away
ravison oil
raw comedy
raw data
raw deal
raw fibers
raw glaze
raw material
raw milk
raw nerve
raw nerves
raw recruit
raw score
raw sienna
raw silk
raw umber
raw vegetables
raw weather
raw wind
raw, the
raw-bone
raw-boned
raw-colored
raw-devouring
raw-edged
raw-faced
raw-handed
raw-head
raw-headed
raw-looking
raw-mouthed
raw-nosed
raw-pack method
raw-ribbed
raw-striped
raw-wool
ray filter
ray floret
ray flower
ray fungus
ray grass
ray gun
ray of hope
ray of light
ray of sunshine
ray pod
ray therapy
ray-fringed
ray-gilt
ray-girt
ray-grass
ray-illumined
ray-lit
ray-strewn
rayless goldenrod
rayon casheen
rayon stockings
raze to the dust
raze to the ground
razee plane
razon bomb
razor blade
razor clam
razor fish
razor grass
razor saw
razor shell
razor stone
razor strap
razor temper
razor-back
razor-backed
razor-bill
razor-billed
razor-billed auk
razor-bladed
razor-bowed
razor-cut
razor-edge
razor-edged
razor-fish
razor-grinder
razor-keen
razor-leaved
razor-shaped
razor-sharp
razor-sharpening
razor-shell
razor-tongued
razor-weaponed
razor-witted
razzle-dazzle
re-
re-act
re-elevate
re-elevation
re-eligibility
re-eligible
re-eliminate
re-elimination
re-emanate
re-embark
re-embarkation
re-embarrass
re-embarrassment
re-embattle
re-embed
re-embellish
re-embodiment
re-embody
re-embosom
re-embrace
re-embracement
re-embroil
re-emerge
re-emergence
re-emergent
re-emersion
re-emigrant
re-emigrate
re-emigration
re-emission
re-emit
re-emphasis
re-emphasize
re-employ
re-employment
re-empower
re-empty
re-emulsify
re-enable
re-enact
re-enaction
re-enactment
re-enamel
re-enamor
re-enamour
re-enchain
re-enclose
re-enclosure
re-encounter
re-encourage
re-encouragement
re-endear
re-endearment
re-ender
re-endorse
re-endorsement
re-endow
re-endowment
re-energize
re-enfeoff
re-enfeoffment
re-enforce
re-enforcement
re-enforcer
re-enfranchise
re-enfranchisement
re-engage
re-engagement
re-engender
re-engenderer
re-engine
re-engraft
re-engrave
re-engraving
re-engross
re-enhearten
re-enjoin
re-enjoy
re-enjoyment
re-enkindle
re-enlarge
re-enlargement
re-enlighten
re-enlightenment
re-enlist
re-enlister
re-enlistment
re-enliven
re-ennoble
re-enroll
re-enrollment
re-enshrine
re-enslave
re-enslavement
re-ensphere
re-enter
re-entering
re-entering angle
re-entertain
re-entertainment
re-enthral
re-enthral
re-enthronement
re-enthronize
re-entice
re-entitle
re-entoil
re-entomb
re-entRAIN
re-entrance
re-entrancy
re-entrant
re-entrant angle
re-entrenchment
re-entry
re-entry card
re-enumerate
re-enumeration
re-enunciate
re-enunciation
re-epitomize
re-equilibrate
re-equilibration
re-equip
re-equipment
re-erect
re-erection
re-escape
re-escort
re-espousal
re-espouse
re-essay
re-establish
re-establisher
re-establishment
re-esteem
re-estimate
re-estimation
re-etch
re-etcher
re-evacuate
re-evacuation
re-evade
re-evaluate
re-evaluation
re-evaporate
re-evaporation
re-evasion
re-evoke
re-evolution
re-exalt
re-examinable
re-examination
re-examine
re-examiner
re-excavate
re-excavation
re-excel
re-exchange
re-excitation
re-excite
re-exclude
re-exclusion
re-execute
re-execution
re-exempt
re-exemption
re-exercise
re-exert
re-exertion
re-exhale
re-exhaust
re-exhibit
re-exhibition
re-exhilarate
re-exhilaration
re-exist
re-existence
re-existent
re-expand
re-expansion
re-expect
re-expectation
re-expedite
re-expedition
re-expel
re-experience
re-experiment
re-explain
re-explanation
re-export
re-exportation
re-exporter
re-expose
re-treatment
re-trench
re-try
re-turn
re-up
re-use
reach a better land
reach a better life
reach a better place
reach a better world
reach a compromise
reach a new low
reach a parting of the ways
reach boat
reach boiling point
reach its season
reach land
reach manhood
reach maturity
reach of mind
reach orgasm
reach out
reach perfection
reach rod
reach safety
reach the age of consent
reach the breaking point
reach the depths
reach the ear
reach the ear of
reach the snapping point
reach to
reach twenty-one
reach voting age
reach womanhood
reach your destination
reach your ears
reach your goal
reach your majority
reach your nostrils
reach-me-down
reach-me-downs
reacher-in
reaching foresail
reaching high
reaching jib
reaching post
react chemically
reactance coil
reactance drop
reaction border
reaction engine
reaction formation
reaction locus
reaction machine
reaction motor
reaction propulsion
reaction rim
reaction ring
reaction time
reaction turbine
reaction wheel
reaction-proof
reactive current
reactive inflammation
reactive neurosis
reactive psychosis
reactor engine
reactor pile
read a lecture
read a lecture to
read a lesson
read a lesson to
read a sermon
read between the lines
read copy
read easily
read for
read in
read in view of
read into
read law
read out
read out of
read palms
read tea leaves
read the future
read the meter
read the riot act
read up
read up on
read with
read your hand
read your lines
read yourself in
read-write head
reader-off
readiness of feeling
readiness of speech
reading book
reading chair
reading desk
reading distance
reading glass
reading glasses
reading hook
reading in
reading lamp
reading man
reading matter
reading notice
reading pew
reading room
reading, writing, and arithmetic
reading-in machine
ready about
ready and willing
ready at hand
ready box
ready for
ready for anything
ready for bed
ready money
ready pen
ready reckoner
ready reply
ready retort
ready roofing
ready room
ready to
ready to believe
ready to burst
ready to burst forth
ready to cry
ready to drop
ready up
ready wit
ready yourself
ready yourself to
ready-armed
ready-beaten
ready-bent
ready-braced
ready-built
ready-coined
ready-cooked
ready-cut
ready-dressed
ready-for-wear
ready-formed
ready-furnished
ready-grown
ready-handed
ready-made
ready-mades
ready-mix
ready-mixed
ready-mounted
ready-penned
ready-prepared
ready-reference
ready-sanded
ready-sensitized
ready-shapen
ready-starched
ready-to-wear
ready-tongued
ready-typed
ready-winged
ready-witted
ready-wittedly
ready-wittedness
ready-worded
ready-written
reagent bottle
real McCoy, the
real axis
real estate
real estate agent
real estate broker
real income
real issue
real lady
real man
real meaning
real number
real part
real presence
real property
real scholar
real school
real tennis
real thing, the
real variable
real wages
real woman
real-estate trust
real-hearted
real-minded
real-sighted
real-time
realgar orange
realgar yellow
realistic comedy
realistic description
realistic representation
reality therapy
realize on
realize profit
really into
really something
really-truly
realm of light
realm-bounding
realm-conquering
realm-destroying
realm-governing
realm-peopling
realm-subduing
realm-sucking
realm-unpeopling
ream ass
ream out
reaming-out
reap and carry
reap gapeseed
reap profit
reap the benefit of
reap the fruits of
reap the whirlwind
reap where you have sown
reaper binder
reaper binder Obsolete
reaper file
reaper thresher
reaping hook
reaping machine
rear admiral
rear aloft
rear arch
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-
rear-admiral
rear-arch
rear-cut
rear-directed
rear-driven
rear-driving
rear-end
rear-guard
rear-horse
rear-steering
rear-vassal
rear-vault
rear-view mirror
rear-vision mirror
rearguard action
rearing bit
rearview mirror
reason about
reason behind
reason for
reason for being
reason ill
reason in a circle
reason out
reason speciously
reason that
reason the point
reason to believe
reason why
reason with
reasonable charge
reasonable ground
reasonable hope
reasonable presumption
reasonable price
reasoning faculty
reasoning power
rebate plane
rebek clover
rebek yell
rebound clip
rebound leaf
rebus sic stantibus
rec room
recalcescence point
recall dose
recall knowledge of
recall of ambassadors
recall to life
recall to mind
recapitulation theory
recapture clause
receipt book
receipt in full
receipt in full of all demands
receive Christ
receive a false impression
receive absolution
receive an impression
receive credit
receive instruction
receive pleasure from
receive the Sacrament
receive with open arms
received meaning
receiver of stolen goods
receiver part
receiver parts
receiver-general
receiving antenna
receiving blanket
receiving line
receiving note
receiving order
receiving pallet
receiving set
receiving ship
receiving station
receiving tube
recent past
receptaculum seminis
reception hall
reception room
receptive mood
recess appointment
recess bed
recess committee
recess of the memory
recesses of the heart
recession from one another
recessional hymn
recessional march
recessive character
recharge your batteries
rechargeable-battery radio
reciprocal exchange
reciprocal insurance
reciprocal leveling
reciprocal ohm
reciprocal or mutual relation
reciprocal pronoun
reciprocal trade
reciprocal transfusion
reciprocating engine
reciprocity failure
reciprocity law
recitation room
recitativi accompagnati
recitativi secchi
recitativo accompagnato
recitativo secco
recitativo stromentato
recite the rosary
reciting note
reciting the rosary
reckless expenditure
reckless person
reckless spending
reckon among
reckon in
reckon on
reckon up
reckon up to
reckon with
reckon without your host
reclaimed rubber
reclamation district
recline on
reclining chair
reclining lounge chair
recognition mark
recoil atom
recoil cylinder
recoil electron
recoil escapement
recoil wave
recoilless rifle
recommend itself
recommended price
reconcile yourself to
reconnaissance car
reconnaissance mission
reconnaissance plane
reconnaissance rocket
reconnaissance ship
reconstructive operation
reconstructive surgery
record book
record changer
record clerk
record holder
record hop
record keeping
record player
record ribbon
record time
record vote
record-bearing
record-beating
record-breaking
record-changer
record-making
record-player
record-seeking
record-setting
recorded delivery
recording altimeter
recording analyzer
recording anemometer
recording angel
recording barometer
recording hygrometer
recording instrument
recording instruments
recording meter
recording potentiometer
recording pyrometer
recording secretary
records-pulse generator
recover health
recover knowledge of
recover one's equilibrium
recover your balance
recover your equilibrium
recover your sanity
recovery coke
recovery oven
recovery peg
recovery room
recreation ground
recreation room
recreational therapy
recruit your strength
recruiting ground
rect-
rectangular coordinate
rectangular coordinates
rectangular data
rectangular hyperbola
rectangular number
recti-
rectifier circuit
rectifier instrument
rectifier tube
rectilinear number
recto-
recto-urethral
recto-uterine
rectovesical fascia
rectus abdominus
rectus femoris
recumbent anticline
re recuperative furnace
recur to
recur to the mind
recurrence formula
recurrent fever
recurring action
recurring decimal
recursion formula
recurvo-
red admiral
red alder
red alert
red alga
red algae
red ant
red as a beet
red as a hot coal
red as a live coal
red as a lobster
red as a turkey-cock
red as blood
red as fire
red bag
red bark
red bay
red biddy
red birch
red blindness
red blood
red blood cell
red blood corpuscle
red book
red brass
red breast
red brush
red bryony
red bug
red cabbage
red calla lily
red cap
red carpet
red cedar
red cent
red chalk
red chokeberry
red clay
red clover
red cluster pepper
red coat
red colors and pigments
red coral
red corpuscle
red count
red cross
red currant
red dead nettle
red deer
red devil
red dogwood
red drum
red duster
red dwarf
red earth
red elm
red ensign
red false mallow
red feed
red fescue
red fir
red fire
red fish
red flag
red flash
red flour beetle
red fox
red giant
red giant star
red grouse
red gum
red hand
red hands
red hat
red heat
red herring
red hind
red horse
red horse chestnut
red in the face
red indian
red jasmine
red jungle fowl
red kauri
red kowhai
red label
red larkspur
red lattice
red lead
red leaf
red letter
red light
red line
red liquor
red maids
red man
red maple
red mass
red meat
red mercuric oxide
red mercuric sulfide
red mombin
red mulberry
red mullet
red oak
red ocher
red ochre
red orpiment
red osier
red packet
red pepper
red periwinkle
red pine
red pink
red poll
red prussiate of potash
red puccoon
red race
red rag
red rag to a bull
red rat snake
red ribbon
red robin
red roncador
red rose
red rot
red rover
red rust
red sable
red sage
red salmon
red sand
red setter
red shank
red shanks
red shift
red sindhi
red siskin
red snapper
red snow
red spider
red squill
red squirrel
red stuff
red tai
red tape
red tide
red tipped moss
red trillium
red turtlehead
red valerian
red water
red whortleberry
red wine
red worm
red zinc ore
red, white, and blue
red-alder
red-armed
red-backed
red-backed sandpiper
red-backed shrike
red-bait
red-baiting
red-banded
red-bar
red-barked
red-beaded
red-beaked
red-beamed
red-bearded
red-bellied
red-bellied turtle
red-belted
red-berried
red-billed
red-black
red-blind
red-blooded
red-bloodedness
red-bodied
red-boled
red-bonnet
red-bound
red-branched
red-branching
red-breasted
red-brick
red-brick university
red-brown
red-burning
red-buttoned
red-carpet
red-cheeked
red-chested
red-ciled
red-ciling
red-cilled
red-clad
red-clay
red-cloaked
red-clocked
red-coat
red-coated
red-cockaded
red-collared
red-colored
red-combed
red-complexioned
red-crested
red-crowned
red-curtained
red-dabbled
red-dog
red-dogged
red-dogger
red-dogging
red-dyed
red-eared
red-edged
red-eye
red-eyed
red-eyed vireo
red-faced
red-facedly
red-faceted
red-feathered
red-figure
red-figured
red-finned
red-flag
red-flag law
red-flagger
red-flaggery
red-flanked
red-fllecked
red-fleshed
red-flowered
red-flowering
red-footed
red-fronted
red-fruitied
red-gemmed
red-gilled
red-girdled
red-gleaming
red-gold
red-lipped
red-listed
red-lit
red-litten
red-looking
red-making
red-minded
red-mouthed
red-naped
red-neck
red-necked
red-nosed
red-orange
red-out
red-painted
red-pencil
red-plowed
red-plumed
red-polled
red-purple
red-ribbed
red-rimmed
red-ripening
red-roan
red-roofed
red-rooted
red-rose
red-rumped
red-rusted
red-scaled
red-scarlet
red-shafted
red-shank
red-shirted
red-short
red-shortness
red-shouldered
red-shouldered hawk
red-sided
red-silk
red-skinned
red-snooded
red-specked
red-speckled
red-spotted
red-spotted purple
red-stalked
red-streak
red-streaked
red-streaming
red-swelling
red-tailed
red-tailed hawk
red-tape
red-taped
red-tapedom
red-tapeism
red-taper
red-tapery
red-tapey
red-tapish
red-tapism
red-tapist
red-tempered
red-thighed
red-throat
red-throated
red-tiled
red-tinted
red-tipped
red-tongued
red-top
red-topped
red-topped buffalo grass
red-trouserered
red-tufted
red-twigged
red-up
red-upholstered
red-veined
red-vented
red-vested
red-violet
red-walled
red-wat
red-water
red-wattled
red-waved
red-white
red-winged
red-winged blackbird
red-wooded
red-written
red-yellow
redback spider
redbelly dace
redbrick university
redd-up
reddish brown
reddish brown colors
reddish-amber
reddish-bay
reddish-bellied
reddish-black
reddish-blue
reddish-brown
reddish-colored
reddish-gray
reddish-green
reddish-haired
reddish-headed
reddish-looking
reddish-orange
reddish-purple
reddish-white
reddish-yellow
redear sunfish
redeem your pledge
redeem your pledges
redeemable bond
redeemed soul
redemption center
redemption fund
redevelopment area
redevelopment company
redhead-grass
redheart hickory
redhorse sucker
redirect examination
rediscountrate
redmouth buffalo fish
redouble your efforts
redound to
redound to the honor of
redound to your honor
redox potential
redpoll linnet
redpoll warbler
redrawing press
redrawing punch
redress a wrong
redress an injustice
reduce sail
reduce the temperature
reduce to
reduce to ashes
reduce to dust
reduce to elements
reduce to essentials
reduce to order
reduce to powder
reduce to rubble
reduce to silence
reduce to unity
reduce to writing
reduce weight
reduced circumstances
reduced hemoglobin
reduced in health
reduced level
reduced mass
reduced paid-up insurance
reduced price
reduced rates
reduced sail
reduced sight
reduced to a skeleton
reduced to dire straits
reduced to jelly
reduced to powder
reduced vowel
reducer sleeve
reducible algebra
reducing agent
reducing diet
reducing furnace
reducing glass
reducing press
reducing valve
reducing wheels
reductase test
reduction division
reduction formula
reduction of armaments
reduction of expenses
reduction of government spending
reduction of spending
reduction of temperature
reduction potential
reduction to ashes
reduction to dust
reduction to elements
reduction to parts
reduction to powder
reduction works
reduction-improbation
redundant check
redundant verb
redwing blackbird
reed basket
reed bent
reed bunting
reed canary grass
reed fescue
reed grass
reed green
reed instrument
reed mace
reed mark
reed meadow grass
reed organ
reed pipe
reed plane
reed stop
reed thrush
reed warbler
reed wren
reed yellow
reed-back
reed-blade
reed-bordered
reed-clad
reed-compacted
reed-crowned
reed-grown
reed-mace
reed-rond
reed-roofed
reed-rustling
reed-shaped
reed-thatched
reed-warbler
reef band
reef cringle
reef down
reef earing
reef goose
reef hook
reef jig
referendum dollar
referred pain
referred to
referring to
refine a distinction
refine upon
refined discrimination
refined palate
refined sense of hearing
refined taste
refining engine
refining equipment
refining heat
refining place
reflect discredit upon
reflect honor on
reflect over
reflect upon
reflected light
reflected light meter
reflected plan
reflected signal
reflecting telescope
reflection density
reflection factor
reflection plane
reflector mirror
reflex act
reflex action
reflex angle
reflex arc
reflex camera
reflex epilepsy
reflex klystron
reflex zenith tube
reflexive pronoun
reflux condenser
reflux value
reform Jew
reform judaism
reform politician
reform politics
reform school
reform yourself
reformation-proof
reformed spelling
refracting telescope
refraction circle
refractive index
refractory brick
refractory clay
refractory ware
refrain from
refresh the inner man
refresh the memory
refresh the memory of
refresher course
refrigerating engine
refrigerating engineer
refrigerating engineering
refrigerating machine
refrigerating plant
refrigeration anesthesia
refrigeration ship
refrigerator car
refrigerator truck
refund annuity
refunding bond
refusal to be amazed
refusal to be awed
refusal to be impressed
refusal to believe
refuse comment
refuse consent
refuse credence to
refuse credit to
refuse destructor
refuse heap
refuse lac
refuse point-blank
refuse stays
refuse summarily
refuse to accept
refuse to acknowledge
refuse to admit
refuse to associate with
refuse to be impressed
refuse to believe
refuse to consider
refuse to cooperate
refuse to credit
refuse to pay
refuse to receive
refuse to recognize
refuse to shed blood
refuse work
refusing work
regal purple
regard before
regard studiously
regard with indulgence
regardless of
regardless of consequences
regardless of cost
regenerated cellulose
regenerative cooling
regenerative furnace
regenerative receiver
regenerative wave-meter
regent bird
regent house
regie-book
regimental tie
regional accent
regional dialect
regional enteritis
regional governor
regional novel
regional school
regions of
register a complaint
register breadth
register length
register of deaths
register of wills
register office
register point
register regulator
register thermometer
register ton
register tonnage
register with
registered Democrat
registered Republican
registered bond
registered breadth
registered certificate
registered depth
registered length
registered lobbyist
registered mail
registered nurse
registered post
registered representative
rehearse in extenso
reheat the ashes
reheating furnace
rei persecutoria
rei-ntrant
reign of Saturn
reign of St
reign of terror
reigning beauty
reim-kennar
rein in
rein orchis
reindeer flower
reindeer lichen
reindeer moss
reindeer pest
reinforced bow
reinforced concrete
reins of government
reinsurance fund
reisner work
reject authority
reject back
rejection slip
rejoice in
rejoice in a seller's market
rejoice in the name of
rejoice the heart
rejoice with
relapsing fever
relate at large
relate in extenso
relate to
relate to emotionally
related by blood
related word
relating to
relation word
relative aperture
relative atomic mass
relative bearing
relative by marriage
relative clause
relative complement
relative density
relative dispersion
relative electron affinity
relative frequency
relative heading
relative humidit
relative humidity
relative incidence
relative magnitude
relative major
relative majority
relative maximum
relative minimum
relative minor
relative molecular mass
relative permeability
relative permittivity
relative pitch
relative pronoun
relative to
relative topology
relative wind
relative-in-law
relatively prime numbers
relatives-in-law
relativistic quantum mechanics
relativity doublet
relativity shift
relax conditions
relax the condition
relax your grip
relax your hold
relaxation of tension
relay broadcast
relay fast
relay governor
relay hunger strike
relay links
relay race
relay receiver
relay register
relay station
relay stations
relay transmitters
relayer rail
release copy
release date
release therapy
released time
relegate to a place
relevant fact
relevant instance
reliability coefficient
reliance in
reliance on
relic area
relic of the past
relic-covered
relic-vending
relief etching
relief frame
relief map
relief method
relief motion
relief pallet
relief payments
relief pitcher
relief printing
relief ship
relief tube
relief valve
relief well
relief-carving
relieve the mind of
relieve you of
relieve your mind
relieve yourself
relieving arch
relieving tackle
religio-
religio-educational
religio-magical
religio-military
religio-philosophical
religio-political
religio-scientific
religions and sects
religious belief
religious believer
religious ceremony
religious discourse
religious education
religious faith
religious founder
religious house
religious humbug
religious hypocrite
religious leader
religious order
religious prophets
religious rites
religious school
religious truth
religious war
religious-minded
religious-mindedness
religiously exact
relinquish your life
relocation camp
reluctance amplifier
rely on
rely on fortune
rely upon
remain anonymous
remain at a distance
remain at peace
remain firm
remain in the shade
remain in your memory
remain incommunicado
remain motionless
remain neutral
remain on your hands
remain seated
remain stable
remain unmoved
remain valid
remainder theorem
remand home
remand school
remanent magnetism
remark upon
remarkably like
remarque proof
remedial measure
remedial of
remedy an injustice
remedy-proof
remembrance day
remind one of
remind you of
remission of sin
remit the penalty of
remittance man
remitent fever
remontoir escapement
remorse of conscience
remote age
remote cause
remote control
remote distance
remote future
remote handling
remote past
remote pickup
remote possibility
remote region
remote resemblance
remote time
remote-control
remote-controlled
remote-pickup unit
remotely like
remotely related
remotest corner of the world
remoulade sauce
remount cavalry
removal cutting
removal to Abraham's bosom
removal to heaven
remove all doubt
remove all restrictions
remove friction
remove from life
remove from office
removed from the record
removing the veil
remuneratory sanction
renal calculus
renal hematuria
renal pelvis
renal splanchnic nerve
rend asunder
rend from
rend the air
rend the eardrums
rend the ears
rend the firmament
rend the heart
rend the skies
render a service
render assistance
render blind
render credit
render honor to
render insensible
render lip service
render powerless
render recognition
render service to
render thanks
render up
rendering coat
rendering works
renew your strength
reni-
rennet bag
rennet casein
rennet ferment
renounce the throne
rent charge
rent charger
rent control
rent gouger
rent insurance
rent money
rent out
rent party
rent resolute
rent seck
rent service
rent-charge
rent-collecting
rent-free
rent-paying
rent-producing
rent-raising
rent-reducing
rent-roll
rent-seck
rent-service
rental car
rental color income
rental library
rents seck
renunciation of the world
rep show
repair run
repair ship
repair shop
repair to
reparative surgery
repay in kind
repeat again
repeat by heart
repeat by rote
repeat like a broken record
repeat like a parrot
repeat order
repeat performance
repeat verbatim
repeat word for word
repeat yourself
repeated figure
repeated sounds
repeating decimal
repeating firearm
repeating theodolite
repeating watch
repent in sackcloth and ashes
repertory company
repertory drama
repertory show
repertory theater
repetition for effect
repetition for emphasis
replacement cost
replacement therapy
replacement transfusion
replacement vein
replica grating
reply by return mail
reply card
reply coupon
reply to
report card
report for duty
report out
report stage
reported speech
reporting pay
repose confidence in
repose in
repose on
repose on your laurels
repose upon
represent yourself to be
representative art
representative democracy
representative fraction
representative government
representative of the press
representative realism
representative town meeting
representative-elect
representing in the mind
repress a smile
repress your desires
repro proof
reproach yourself
reproduce after your kind
reproduce in kind
reproducing element
reproduction cost
reproduction proof
reproductive cell
reproductive imagination
reproductive organs
reproving look
reptilian age
republic of letters
request note
request stop
request the presence of
requiem mass
requiem shark
requiescant in pace
requiescat in pace
require an answer
required visit
requisition form
rere-
rere-brace
rere-dorter
rere-supper
res adjudicata
res gestae
res ipsa loquitur
res judicata
res publica
resale price maintenance
rescue device
rescue grass
rescue helicopter
rescue mission
rescue plane
research and development
research center
research engineer
research engineering
resign yourself to
resignation bond
resigned-looking
resin alcohol
resin bee
resin canal
resin cerate
resin distiller
resin gnat
resin jack
resin oil
resin opal
resin plant
resin plastic
resin soap
resin spirit
resino-
resist believing
resist entreaty
resist persuasion
resist printing
resistance box
resistance butt welding
resistance capacitance
resistance coil
resistance coupling
resistance derivative
resistance drop
resistance fighter
resistance fighting
resistance frame
resistance furnace
resistance pyrometer
resistance thermometer
resistance to belief
resistance to change
resistance welding
resisting medium
resisting moment
resistive conductor
resistive coupling
resistiveness to belief
resojet engine
resojet propulsion
resolutory condition
resolve into
resolve itself into
resolve to
resolved upon
resolving power
resonance box
resonance potential
resonance cavity
resonance curve
resonance duct jet engine
resonance energy
resonance form
resonance frequency
resonance frequency control
resonance hybrid
resonance indicator
resonance jet engine
resonance neutron
resonance pipe
resonance radiation
resonance spectrum
resonance wave coil
resonance-coil antenna
resonant cavity
resonant chamber
resonant frequency
resonant-jet engine
resorcin acetate
resorcin brown
resorcin dark brown
resorcinol monoacetate
resorption border
resort to
resort to arms
resound in the ears
resound the praises of
resounding triumph
respect your duty
respectable citizen
respeian composer
respiration calorimeter
respirato-
respiratory center
respiratory disease
respiratory leaf
respiratory nerve
respiratory pigment
respiratory plate
respiratory quotient
respiratory system
respiratory tree
respiratory trumpet
resplendent trogon
resplendently beautiful
respond to
respond to stimuli
responding note
responsary report
response generalization
response time
response to stimuli
responsible for
responsible person
responsory report
rest and be thankful
rest assured
rest cure
rest day
rest easy
rest energy
rest from your labors
rest hard upon
rest home
rest house
rest in
rest in confidence
rest in peace
rest in the arms of Morpheus
rest mass
rest on
rest on the shoulders of
rest on your laurels
rest on your oars
rest room
rest satisfied
rest stop
rest treatment
rest up
rest upon
rest upon your oars
rest with
rest your case
rest-balk
rest-cure
rest-cured
rest-giving
rest-harrow
rest-home
rest-ordained
rest-refreshed
rest-seeking
rest-taking
restaurant car
restful sleep
resting easy
resting in peace
resting of the case
resting place
resting point
restless cavy
restore harmony
restore self-respect
restore to health
restoring spring
restrain yourself
restraining hand
restraining order
restraint of trade
restrict to
restrict yourself
restricted class
restricted information
restricted practice
restricted propellant
restricted theory of relativity
restriction of intake
restrictive clause
restrictive covenants
restrictive practice
result clause
result from
result on
resultant force
resultant tone
resulting from
resurrection-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
retail seller
retail store
retain in the thoughts
retain the memory of
retained earnings
retained income
retained object
retained objective complement
retaining fee
retaining wall
retardation method
retentive memory
retentive mind
retia mirabilia
reticular system
reticulate python
reticulated tracery
reticulated vessel
reticulato-
reticulo-
reticuloendothelial system
reticulum cell
reticulum cell sarcoma
retin-
retinal rod
retinitis pigmentosa
retino-
retire from office
retire from sight
retire from the world
retire into the shade
retire into your shell
retired list
retired professor
retirement benefits
retirement from office
retirement income insurance
retiring disposition
retold story
retonation wave
retort an accusation
retort drawer
retort stand
retrace your steps
retractable landing gear
retreaded tire
retreat into your mind
retreat into your shell
retreat into your thoughts
retreat to immaturity
retreating market
retributive justice
retro rocket
retro-
retro-float light
retro-ocular
retro-omental
retro-operative
retro-oral
retro-rocket
retro-umbilical
retro-uterine
retroactive inhibition
retroanterograde amnesia
retrograde amnesia
rets currach
return a true bill
return a verdict
return a verdict of not guilty
return address
return answer
return ball
return bead
return beam
return bend
return blow for blow
return card
return crease
return day
return evil for evil
return for answer
return game
return like for like
return match
return of evil for evil
return piece
return receipt
return shock
return signal
return thanks
return the compliment
return the like
return ticket
return to
return to dust
return to life
return to mind
return to reality
return to the earth
return to the fold
return to the soil
return to the starting point
return trap
return wall
return-cocked
return-day
return-flue boiler
return-tubular boiler
returning board
returning officer
rev counter
reveal a secret
reveal yourself
revealed religion
revealed truth
revel in
revel master
revel-rout
revenge in kind
revenge tragedy
revenue account
revenue bond
revenue cutter
revenue expenditure
revenue stamp
revenue tariff
reverbatory furnace
reverberation chamber
reverberation time
reverberatory furnace
reverberatory kiln
reverend sir
reverential regard
reversal film
reversal plate
reversal process
reverse bar
reverse bevel
reverse bid
reverse discard
reverse discrimination
reverse of fortune
reverse plate
reverse shot
reverse split
reverse transcriptase
reverse transfer resistance
reverse turn
reverse your field
reverse yourself
reverse-angle shot
reverse-charge
reverse-phase relay
reversed collar
reversed feedback
reversible reaction
reversible-disk plow
reversing light
reversing prism
reversing switch
reversing thermometer
reversion duty
reversion pendulum
reversion spectroscopy
reversionary annuity
revert to
review copy
review in retrospect
review of things past
revise your thoughts
revised edition
revised standard version
revised version
revival meeting
revolt at
revolting with
revolting with endured
revolution control
revolutionary calendar
revolutionary junta
revolutionary war
revolutions per minute
revolve in the mind
revolve on
revolve upon
revolving bookcase
revolving bookstand
revolving credit
revolving door
revolving fund
revolving lever
revolving on
revolving stage
revolving-jaw box chuck
revolving-jaw chuck
rewa-rewa
reward claim
reworked wool
rewrite man
rewrite rule
rex begonia
rez-de-chaussee
rh factor
rh-negative
rh-positive
rhabdo-
rhaeto-romanic
rheims version
rhein-berry
rheo-
rhesus baby
rhesus factor
rhesus monkey
rhetorical accent
rhetorical question
rhetorical stress
rheumatic disease
rheumatic fever
rheumatic heart disease
rheumatism of the heart
rheumatism root
rheumatism weed
rheumatism-root
rheumatoid arthritis
rhin-
rhine wine
rhino-
rhinoceros auklet
rhinoceros beetle
rhinoceros bird
rhinoceros bush
rhinoceros hide
rhinoceros hornbill
rhinoceros viper
rhinoceros-shaped
rhinolalia aperta
rhinolalia clausa
rhiz-
rhizo-
rhizoctonia disease
rhizosphere effect
rho particle
rhod-
rhode island bent
rhode island red
rhode island white
rhodes grass
rhodes scholar
rhodesian man
rhodium oil
rhodium wood
rhodo-
rhodonite pink
rhomb spar
rhomb-
rhomb-leaved
rhombic aerial
rhombic antenna
rhombo-
rhomboid-ovate
rhubarb wine
rhub line
rhumline sailing
rhus dermatitis
rhus glabra
rhyme or reason
rhyme royal
rhyme scheme
rhyme word
rhyme-beginning
rhyme-composing
rhyme-fettered
rhyme-forming
rhyme-free
rhyme-inspiring
rhyme-tagged
rhyming dictionary
rhyming slang
rhyolite-porphyr
rhythm band
rhythm method
rhythm section
rhythm stick
rhythm-and-blues
rhythmic pattern
rhythmic phrase
rhythmic play
rhythmical accent
rhythmical accentuation
rhythmical stress
rib cage
rib cut
rib grass
rib lath
rib meristem
rib rifling
rib roast
rib steak
rib stitch
rib tickler
rib-bearing
rib-breaking
rib-faced
rib-grass
rib-grated
rib- mauled
rib-nosed
rib-pointed
rib-poking
rib- roast
rib-sticking
rib-striped
rib-supported
rib-welted
rib-and-shaped
riband-wreathed
ribband carvel
ribband lines
ribbed and smoked sheet
ribbed toad
ribble-rabble
ribbon brake
ribbon building
ribbon bush
ribbon candy
ribbon conveyer
ribbon copy
ribbon development
ribbon fern
ribbon grass
ribbon gum
ribbon isinglass
ribbon jasper
ribbon lightning
ribbon maker
ribbon microphone
ribbon movement
ribbon of light
ribbon park
ribbon rock
ribbon saw
ribbon snake
ribbon strip
ribbon tree
ribbon winder
ribbon wire
ribbon worm
ribbon-bedizened
ribbon-bordering
ribbon-bound
ribbon-fish
ribbon-grass
ribbon-marked
ribbon-shaped
ribonucleic acid
ribosomai DNA
rice body
rice boiler
rice bowl
rice bran
rice bug
rice christian
rice cleaner
rice coal
rice cousin
rice cut-grass
rice drier
rice dust
rice eater
rice field
rice flour
rice flower
rice glue
rice grader
rice grass
rice grinder
rice grower
rice hen
rice huller
rice milk
rice mill
rice miller
rice mouse
rice paddy
rice paper
rice planter
rice polish
rice polisher
rice polishings
rice powder
rice rat
rice shell
rice tenrec
rice water
rice weevil
rice wine
rice-bird
rice-cleaning
rice-clipping
rice-eating
rice-field eel
rice-grading
rice-grain decoration
rice-grinding
rice-growing
rice-hulling
rice-paper
rice-paper tree
rice-planting
rice-polishing
rice-pounding
rice-root grass
rice-seed body
rice-water
rich as Croesus
rich harvest
rich hat
rich imagination
rich lode
rich man
rich man's panic
rich ore
rich rhyme
rich soil
rich source
rich uncle
rich vein
rich, the
rich-appareled
rich-attired
rich-bedight
rich-bound
rich-built
rich-burning
rich-clad
rich-colored
rich-conceited
rich-distilled
rich-embroidered
rich-figured
rich-flavored
rich-fleeced
rich-fleshed
rich-glittering
rich-haired
rich-jeweled
rich-laden
rich-looking
rich-minded
rich-ored
rich-robed
rich-set
rich-soiled
rich-tasting
rich-toned
rich-voiced
rich-weed
rich-wrought
richard roe
richel bird
richly deserve
richly deserved
richness of meaning
ricinoleic acid
ricinus oil
rick carrier
rick-barton
rick-burton
rick-yard
rickettsial disease
ricochet fire
rictal bristle
rid of
rid yourself of
riddle ballad
riddle cake
riddle canon
riddle of the Sphinx
ride a broomstick
ride a hobby
ride a hobbyhorse
ride a storm
ride and tie
ride at anchor
ride bareback
ride down
ride easy
ride for a fall
ride full tilt against
ride gain
ride hard
ride hawse full
ride herd on
ride high
ride it out
ride on a rail
ride out
ride out a storm
ride out the storm
ride over
ride roughshod over
ride shank's mare
ride shank's pony
ride shotgun for
ride the beam
ride the high horse
ride the hobnail express
ride the sea
ride the shoe-leather
ride the skies
ride to a fall
ride to death
ride to hounds
ride to leeward
ride up
rider embolus
rider keelson
ridge beam
ridge buster
ridge fillet
ridge harrow
ridge oak
ridge plow
ridge rib
ridge rope
ridge runner
ridge stone
ridge strut
ridge tile
ridge-bone
ridge-seeded
ridge-tile
ridging grass
ridging plow
ridicule-proof
ridiculously like
riding academy
riding at anchor
riding boot
riding boots
riding breeches
riding crop
riding habit
riding hood
riding horse
riding lamp
riding light
riding master
riding on cloud nine
riding pants
riding rhyme
riding saddle
riding sail
riding school
riding-coat
riding-habit
riding-hood
rie grass
riemannian geometry
rien du tout
rien ne va plus
riff through
riff-raff
riffle bar
riffle block
riffle file
riffle through
rifle assembler
rifle ball
rifle bar
rifle bird
rifle bomb
rifle corps
rifle fire
rifle frock
rifle green
rifle grenade
rifle gun
rifle pit
rifle range
rifle salute
rifle shot
rifle tie
rifle-bird
rifle-range
rifle-shot
rifled slug
rift board
rift saw
rift valley
rift-sawed
rift-sawing
rift-sawn
ifty-tufty
rig down
rig for diving
rig out
rig shenanigan
rig the market
rig tree
rig up
rig-out
rig-up
rig-veda
rigged jury
rigged market
rigged oar
rigged out
rigger's knife
rigging angle of incidence
rigging loft
rigging plan
rigging screw
right about
right about face
right along
right along there with
right amount
right and left
right and proper
right angle
right as rain
right ascension
right away
right belief
right bower
right boys
right center
right circular cone
right circular cylinder
right conduct
right cylinder
right doctrine
right face
right field
right fielder
right five degrees rudder
right full rudder
right half rudder
right hand
right handsomely
right in the head
right itself
right line
right mind
right mood
right now
right of angry
right of asylum
right of center
right of common
right of eminent domain
right of emption
right of entry
right of preemption
right of put and call
right of search
right of sole emption
right of use
right of way
right off
right off the bat
right off the reel
right on
right on end
right people
right reverend
right rudder
right section
right side
right-hand tool
right-handed
right-handedly
right-handedness
right-hander
right-handwise
right-ho
right-laid
right-lay
right-left handed
right-lined
right-made
right-meaning
right-minded
right-mindedly
right-mindedness
right-of-way
right-of-way signal
right-oh
right-onward
right-principled
right-running
right-shaped
right-shapen
right-side
right-sided
right-sidedly
right-sidedness
right-thinking
right-to-work law
right-turn
right-up
right-walking
right-wheel
right-wing
right-winger
right-wingish
right-wingism
rightabout-face
righteous indignation
righteous, the
righteye flounder
rightful authority
rightful succession
righting lever
righting moment
rights issue
rights of man
rights of women
rights-of-way
rigid airship
rigid control
rigid discipline
rigid frame
rigid motion
rigid supports
rigid-body
rigid-frame
rigid-nerved
rigid-seeming
rigor mortis
riled up
rilievi schiacciati
rilievo schiacciato
rilievo stiacciato
rill stope
rill-like
rim ash
rim blight
rim clutch
rim lighting
rim lock
rim man
rim of the horizon
rim pulley
rim ram ruf
rim saw
rim shaft
rim wheel
rim-bearing
rim-bending
rim-bound
rim-cut
rim-deep
rim-fire
rimble-ramble
rime frost
rime ice
rime riche
rime suffisante
rime-covered
rime-damp
rime-frost
rime-frosted
rime-laden
rimes riches
rimes suffisantes
rime stool
rine pichon
rind disease
rind fungus
rind gall
rind grafting
ring a bell
ring armature
ring armor
ring around the moon
ring around the sun
ring back
ring bander
ring binder
ring bore
ring bottle
ring canal
ring cell
ring changes
ring chuck
ring circuit
ring clew
ring compound
ring crib
ring dial
ring dollar
ring doorbells
ring down the curtain
ring down the curtain on
ring dropper
ring dropping
ring false
ring fence
ring finger
ring formation
ring formula
ring frame
ring gate
ring gauge
ring gear
ring in
ring in the ear
ring in the ears
ring machine
ring main
ring man
ring micrometer
ring nebula
ring necrosis
ring of the nibelung
ring off
ring oiler
ring on the air
ring out
ring ouzel
ring peals
ring pin
ring road
ring rope
ring rot
ring screw
ring seizing
ring shake
ring shout
ring snake
ring spinner
ring spinning
ring spot
ring stone
ring taw
ring the bell
ring the changes
ring the tocsin
ring traveler
ring true
ring up
ring up the curtain
ring winding
ring with the praises of
ring your praises
ring-a-lievio
ring-a-rosy
ring-adorned
ring-around
ring-banded
ring-bark
ring-billed
ring-billed duck
ring-billed gull
ring-bone
ring-bored
ring-bound
ring-chain isomerism
ring-chain tautomerism
ring-dove
ring-dyke
ring-eyed
ring-fence
ring-finger
ring-formed
ring-handled
ring-in
ring-legged
ring-man
ring-neck
ring-necked
ring-necked duck
ring-necked pheasant
ring-off
ring-oil
ring-porous
ring-ridden
ring-shaped
ring-shout
ring-small
ring-spinning frame
ring-straked
ring-streaked
ring-tailed
ring-tailed cat
ring-up
ringed about
ringed plain
ringed plover
ringed snake
ringing spindrift
ringing tone
ringside seat
ringtail topsail
ringworm bush
rink polo
rinka fadda
rinse out
riot act
riot away
riot gun
riot in
riot of color
riot of colors
riot police
riot squad
riotous living
rip apart
rip cord
rip current
rip from
rip hook
rip into
rip off
rip open
rip out
rip out an oath
rip panel
rip tide
rip to pieces
rip up
rip van winkle
rip-off
rip-rap
rip-roaring
rip-roaring drunk
rip-roarious
rip-saw
riparian right
ripe age
ripe for instruction
ripe idea
ripe old age
ripe rot
ripe stump
ripe wisdom
ripe-aged
ripe-bending
ripe-cheeked
ripe-colored
ripe-eared
ripe-faced
ripe-grown
ripe-looking
ripe-picked
ripe-red
ripe-tongued
ripe-witted
ripen into
riper years
ripper act
ripping bar
ripping chisel
ripping iron
ripping out
ripping panel
ripping punch
ripping size
ripple cloth
ripple current
ripple effect
ripple grass
ripple mark
ripple of applause
ripple of laughter
ripple plantain
ripple voltage
ripple weld
ripple-grass
rippling kame
ris de veau
rise above
rise again
rise against
rise and fall
rise and shine
rise from
rise from the grave
rise in the mind
rise in the world
rise of bottom
rise of floor
rise of the tide
rise on in the world
rise on the hind legs
rise to
rise to a point of order
rise to mind
rise to the fly
rise to the occasion
rise up
rise up in arms
risen from the ranks
rising action
rising diphthong
rising floor
rising generation
rising ground
rising hinge
rising line
rising market
rising of the curtain
rising prices
rising rhythm
rising terminal
rising trot
rising vote
risk assuming
risk capital
risk premium
risk stating
risk your life
risus sardonicus
rite de passage
rite of confession
rite of intensification
rite of passage
ritual contamination
ritual impurity
ritual killing
ritual murder
ritual observance
ritual suicide
ritual uncleanness
ritualistic article
ritualistic book
ritualistic manual
ritually clean
ritually contaminated
ritually immerse
ritually impure
ritually pure
ritually unclean
ritz it
rivage green
river ash
river bank
river basin
river bass
river bed
river birch
river boulder
river bulrush
river carpsucker
river craft
river deer
river dolphin
river driver
river front
river grass
river gunboat
river horse
river jack
river lamprey
river locust
river maple
river mussel
river novel
river oak
river of Hades
river of death
river of oblivion
river pilot
river rat
river road
river shrew
river sunflower
river wattle
river-blanced
river-borne
river-bottom
river-caught
river-drift
river-fish
river-formed
river-given
river-god
river-goddess
river-horse
river-sundered
river-water
river-watered
river-worn
riverbank grape
rivet buster
rivet carrier
rivet catcher
rivet forge
rivet heater
rivet hole
rivet in the memory
rivet knob
rivet pitch
rivet set
rivet snap
rivet steel
rivet the eyes upon
rivet the mind on
rivet the thoughts on
rivet weld
rivet wheat
rivet your attention
riveting hammer
riveting knob
riveting stake
riving knife
riving machine
rix-dollar
rk-up
roach back
roach paste
roach powder
roach-back
roach-backed
roach-bellied
roach-bent
road agent
road binder
road book
road builder
road building
road cart
road compound
road contractor
road donkey
road drag
road fettler
road gang
road grader
road guard
road harrow
road hog
road horse
road layer
road maker
road making
road map
road mender
road metal
road monkey
road oil
road pen
road plow
road race
road racer
road racing
road rash
road repairer
road roller
road runner
road scraper
road show
road sign
road tar
road test
road train
road wagon
road wheel
road works
road-bike
road-faring
road-fund licence
road-grading
road-hoggish
road-hoggism
road-maker
road-oiling
road-ready
road-test
road-testing
road-train
road-weary
road-wise
roan-tree
roar like a bull
roar of laughter
roar up
roar with laughter
roaring drunk
roaring fire
roaring forties
roaring mad
roaring success
roaring trade
roast beef
roast meat
roast sintering
roast-beef plant
roasting ear
roasting hot
roasting jack
rob Peter to pay Paul
rob roy
rob the cradle
rob you of ease
rob you of rest
rob you of sleep
rob you of your illusions
robbed of
robbed of illusion
robber bee
robber crab
robber fly
robber frog
robbers' roost
robbery insurance
robe de chambre
robe of royalty
robe of state
robe-de-chambre
robes-de-chambre
robin accentor
robin chat
robin dipper
robin goodfellow
robin hood
robin redbreast
robin runaway
robin sandpiper
robin snipe
robin's-egg blue
robing room
robinson crusoe
robot bomb
robot control
robot factory
robot pilot
robot plane
robot satellite
robot specialist
robot submarine
robot system
robot-control
robust health
roche alum
roche lime
roche moutonn
roche moutonnee
rochelle powders
rochelle salt
roching cask
rock 'n' roll
rock alyssum
rock and roll
rock and rye
rock barnacle
rock basin
rock bass
rock beauty
rock blenny
rock bottom
rock brake
rock breaker
rock burst
rock cake
rock candy
rock climber
rock cod
rock cornish
rock crab
rock cress
rock crusher
rock crystal
rock cycle
rock dove
rock drill
rock driller
rock eel
rock elm
rock face
rock fern
rock festival
rock flint
rock flour
rock flower
rock garden
rock gardener
rock gardening
rock glacier
rock goat
rock goldenrod
rock grouse
rock gunnel
rock gypsum
rock hind
rock hole
rock hopper
rock hopping
rock hound
rock hyrax
rock jasmine
rock lever
rock lily
rock lobster
rock maple
rock melon
rock milk
rock moss
rock music
rock oak
rock oil
rock oyster
rock painting
rock phospate
rock pigeon
rock pile
rock plant
rock pressure
rock rabbit
rock salmon
rock salt
rock samphire
rock saw
rock saxifrage
rock seal
rock shelter
rock singer
rock snake
rock sparrow
rock spleenwort
rock spray
rock squirrel
rock the boat
rock the sky
rock thrush
rock to sleep
rock tripe
rock trout
rock violet
rock vole
rock wallaby
rock whiting
rock wool
rock wren
rock'n roll
rock-'n'-roll
rock-and-roll
rock-and-roll group
rock-and-roll singer
rock-based
rock-basin
rock-battering
rock-bed
rock-begirdled
rock-bestudded
rock-bethreatened
rock-boring
rock-bottom
rock-bottom prices
rock-bound
rock-breaking
rock-built
rock-cistus
rock-clad
rock-cleft
rock-climb
rock-climber
rock-climbing
rock-concealed
rock-covered
rock-crested
rock-crushing
rock-cut
rock-drilling
rock-dusted
rock-dwelling
rock-eel
rock-embosomed
rock-encircled
rock-encumbered
rock-enthroned
rock-faced
rock-fallen
rock-fast
rock-fill
rock-fill dam
rock-firm
rock-firmed
rock-fish
rock-forming
rock-free
rock-frequenting
rock-girded
rock-girt
rock-hard
rock-hewn
rock-inhabiting
rock-loving
rock-melting
rock-piercing
rock-pigeon
rock-piled
rock-plant
rock-pulverizing
rock-razing
rock-reared
rock-ribbed
rock-roofed
rock-rooted
rock-rose
rock-rushing
rock-salt
rock-scarped
rock-shaft
rock-sheltered
rock-steady
rock-strewn
rock-studded
rock-throned
rock-thwarted
rock-torn
rock-weed
rock-wombed
rock-work
rock-worked
rockbound coast
rocker arm
rocker bent
rocker cam
rocker panel
rocket airplane
rocket and missile names
rocket apparatus
rocket assist
rocket boat
rocket bomb
rocket car
rocket engine
rocket engineer
rocket engineering
rocket exhaust
rocket fire
rocket firing
rocket fuel
rocket glider
rocket gun
rocket harpoon
rocket laboratory
rocket larkspur
rocket launcher
rocket launching
rocket man
rocket motor
rocket pilot
rocket plane
rocket power
rocket program
rocket project
rocket propulsion
rocket research
rocket salad
rocket science
rocket scientist
rocket ship
rocket sled
rocket society
rocket technician
rocket technology
rocket testing
rocket to the moon
rocket torpedo
rocket-borne
rocket-firing plane
rocket-propelled
rocketing up
rocking bed
rocking chair
rocking horse
rocking rhythm
rocking stone
rocking valve
rocks ahead
rockweed bird
rocky mountain sheep
rocky mountain spotted fever
rod adaptation
rod and reel
rod bayonet
rod bolt
rod breaker
rod epithelium
rod fiber
rod granule
rod mill
rod of empire
rod of office
rod peeler
rod rigging
rod vision
rod-bending
rod-boring
rod-caught
rod-cone theory
rod-drawing
rod-healing
rod-pointing
rod-polishing
rod-shaped
rodded joint
rode goose
rodent operative
rodent ulcer
roe deer
roe-deer
roebuck berry
roentgen equivalent man
roentgen ray
roentgen ray therapy
roentgen-ray cancer
roentgeno-
rogation day
roger de coverley
rogue elephant
rogue's badge
rogue's march
rogue's yarn
rogues' gallery
rohr flute
roister-doister
roister-doisterly
role-player
role-playing
roll about
roll and fillet molding
roll around
roll back
roll call
roll cloud
roll film
roll flat
roll in
roll in the dust
roll in the lap of luxury
roll in wealth
roll into one
roll lathe
roll logs
roll of coins
roll of honour
roll of the dead
roll of the wheel
roll on
roll on the ground
roll on the tongue
roll out
roll over
roll over and play dead
roll scale
roll the stone of Sisyphus
roll top
roll train
roll under the tongue
roll up
roll up into a ball
roll up your sleeves
roll welding
roll with the punches
roll-about
roll-away bed
roll-call
roll-collar
roll-cumulus
roll-leaf
roll-on/roll-off
roll-out
roll-over
roll-top
roll-top desk
roll-turning lathe
rolled flat
rolled glass
rolled gold
rolled into one
rolled oats
rolled roast
rolled-steel joist
roller bandage
roller bar
roller bearing
roller blind
roller bowl
roller chain
roller chock
roller coaster
roller dam
roller derby
roller fairlead
roller gate
roller gear
roller gin
roller grinder
roller jewel
roller mill
roller nest
roller press
roller shade
roller skate
roller skater
roller skates
roller skating
roller stock
roller towel
roller-backer
roller-blind shutter
roller-carrying
roller-grinding
roller-made
roller-milled
roller-milling
roller-reefing gear
roller-skate
roller-skated
roller-skating
roller-top
rolling barrage
rolling bunt
rolling chock
rolling country
rolling crest dam
rolling fire
rolling friction
rolling hitch
rolling hitches
rolling in money
rolling in wealth
rolling kitchen
rolling machine
rolling mill
rolling on
rolling pin
rolling press
rolling rope
rolling stock
rolling stone
rolling-contact bearing
rolling-element bearing
rolling-key clutch
rolling-mill
rolling-pin
rolling-press
rolltop desk
roly-poliness
roly-poly
roly-poly grass
romaine lettuce
roman a clef
roman architecture
roman calendar
roman candle
roman catholic
roman collar
roman numeral
roman-fleuve
romance stanza
romance-empurpled
romance-hallowed
romance-inspiring
romance-making
romance-writing
romano-
romantic bond
romantic comedy
romantic melancholy
romantic tie
romantic tragedy
romantico-heroic
romantico-robustious
rome-penny
rome-scot
romp home
romp through
rond de jambe
rondeau redouble
rondo form
ronds de jambe
rood altar
rood arch
rood beam
rood cloth
rood goose
rood ladder
rood loft
rood screen
rood spire
rood stair
rood stairs
rood steeple
rood tower
rood-day
roof beam
roof board
roof bracket
roof cover
roof covering
roof dome
roof door
roof fixer
roof garden
roof gardener
roof guard
roof high
roof in
roof iris
roof line
roof nucleus
roof over
roof over your head
roof plate
roof prism
roof rack
roof rat
roof ridge
roof thatch
roof tile
roof truss
roof-blockaded
roof-building
roof-climbing
roof-deck
roof-draining
roof-dwelling
roof-gardening
roof-haunting
roof-reaching
roof-shaped
roof-tree
roofed-in
roofed-over
roofing nail
roofing paper
roofing tile
rook-coated
rookety-coo
room and board
room clerk
room decoration
room decorator
room divider
room service
room temperature
room to spare
room to swing a cat
room trader
room-and-pillar
room-mate
room-ridden
room-temperature
rooming house
roost cock
roosting place
root and branch
root beer
root beer float
root borer
root canal
root canal therapy
root canal treatment
root cap
root cell
root cellar
root chord
root climber
root crop
root cutting
root determinative
root disease
root division
root field
root for
root gall
root graft
root grafting
root hair
root in
root knot
root mean square
root nodule
root of all evil
root on
root out
root parasite
root position
root pressure
root rot
root sheath
root test
root tip
root up
root vole
root weevil
root-bound
root-bruising
root-built
root-devouring
root-digging
root-eating
root-feeding
root-hardy
root-inwoven
root-mean-square
root-neck
root-parasitic
root-parasitism
root-prune
root-pruned
root-stock
root-torn
rooted belief
rooting out
rope belting
rope brake
rope bridge
rope brown
rope dancer
rope enough to hang yourself
rope greaser
rope house
rope in
rope ladder
rope machine
rose aphid
rose apple
rose beetle
rose beige
rose bengale
rose blush
rose box
rose campion
rose carnation
rose chafer
rose champagne
rose chestnut
rose cold
rose comb
rose cross
rose cut
rose cutter
rose d’Anvers
rose daphne
rose diamond
rose drill
rose engine
rose fever
rose fever n
rose geranium
rose gray
rose lily
rose madder
rose mallow
rose metal
rose mildew
rose milkweed
rose moss
rose noble
rose of China
rose of Heaven
rose of Jericho
rose of Sharon
rose of jericho
rose of sharon
rose oil
rose opal
rose pink
rose point
rose purple
rose quartz
rose rial
rose slug
rose stitch
daisy stitch
daisy stitch
rose tickseed
rose water
rose weevil
rose willow
rose window
rose wine
rose worm
rose-a-ruby
rose-apple
rose-back
rose-bay
rose-bellied
rose-blue
rose-breasted
rose-breasted grosbeak
rose-bright
rose-bush
rose-campion
rose-carved
rose-chafer
rose-cheeked
rose-clad
rose-color
rose-colored
rose-colored glasses
rose-colored spectacles
rose-colorist
rose-colour
rose-coloured
rose-combed
rose-covered
rose-crowned
rose-cut
rose-diamond
rose-diffusing
rose-drop
rose-eared
rose-engine
rose-ensanguined
rose-faced
rose-fingered
rose-flowered
rose-fresh
rose-gathering
rose-geranium oil
rose-growing
rose-head
rose-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-ringed
rose-root
rose-scented
rose-shell reamer
rose-slug
rose-sweet
rose-tinged
rose-tinted
rose-tree
rose-warm
rose-water
rose-window
rose-wreathed
rosemary oil
roseo-
rosetta stone
rosetta wood
rosetta-wood
rosette plate
rosewood oil
rosh hashanah
rosin grease
rosin jack
rosin oil
rosin plant
rosin rose
rosin soap
rosin spirit
rosso antico
rostral column
rosy era
rosy expectation
rosy finch
rosy outlook
rosy pastor
rosy-armed
rosy-blushing
rosy-bosomed
rosy-cheeked
rosy-colored
rosy-crimson
rosy-dancing
rosy-eared
rosy-faced
rosy-finger'd morn
rosy-fingered
rosy-hued
rosy-lipped
rosy-purple
rosy-red
rosy-tinted
rosy-tipped
rosy-toed
rosy-warm
rot grass
rot-gut
rot-steep
rotary cultivator
rotary current
rotary drill
rotary engine
rotary gap
rotary hoe
rotary photogravure
rotary plough
rotary plow
rotary press
rotary pump
rotary shutter
rotary storm
rotary tiller
rotary wing
rotary-beam antenna
rotary-cut
rotary-piston engine
rotary-wing aircraft
rotating prism
rotating spit
rotation axis
rotation band
rotation of axes
rotation pool
rotation-inversion axis
rotational motion
rote learning
rote memory
rote song
rother nail
roto section
rotogravure press
rotor cloud
rotor motor
rotor plane
rotor ship
rott goose
rotten at
rotten at the core
rotten borough
rotten break
rotten egg
rotten humor
rotten ice
rotten luck
rotten row
rotten smell
rotten stop
rotten to the core
rotten-dry
rotten-egg
rotten-hearted
rotten-heartedly
rotten-heartedness
rotten-minded
rotten-planked
rotten-red
rotten-rich
rotten-ripe
rotten-stone
rotten-throated
rotten-timbered
rotundi-
rotundo-
rotundo-ovate
rouge et noir
rouge plant
rough air
rough bent
rough bluegrass
rough breathing
rough cast
rough copy
rough corners
rough-dried
rough-dry
rough-drying
rough-edge
rough-edged
rough-enter
rough-face
rough-faced
rough-feathered
rough-finned
rough-foliaged
rough-footed
rough-form
rough-fruitied
rough-furrowed
rough-grained
rough-grind
rough-grinder
rough-grown
rough-hackle
rough-hackled
rough-haired
rough-handed
rough-handedness
rough-headed
rough-hew
rough-hew them how we will
rough-hewed
rough-hewing
rough-hewn
rough-hob
rough-hobbed
rough-hull
rough-jacketed
rough-keeled
rough-leaved
rough-gegged
rough-legged buzzard
rough-legged hawk
rough-level
rough-lipped
rough-living
rough-looking
rough-mannered
rough-necked
rough-paved
rough-plain
rough-plane
rough-plastered
rough-plow
rough-plumed
rough-podded
rough-point
rough-ream
rough-reddened
rough-rider
rough-ridged
rough-roll
rough-sawn
rough-scaled
rough-seeded
rough-shape
rough-sketch
rough-skinned
rough-spirited
rough-spoken
rough-square
rough-stalked
rough-stemmed
rough-stone
rough-stringed
rough-surfaced
rough-swelling
rough-tailed
rough-tanned
rough-tasted
rough-textured
rough-thicketed
rough-toned
rough-tongued
rough-toothed
rough-tree
rough-tree rail
rough-turn
rough-turned
rough-voiced
rough-walled
rough-weather
rough-winged
rough-winged swallow
rough-write
rougher-down
rougher-out
rougher-up
roughing mill
roughing roll
roughing stone
roughing-in
roughly speaking
roulette table
roulette wheel
round a bend
round a corner
round a point
round about
round and round
round angle
round arch
round as a ball
round clam
round dance
round dancing
round down
round hand
round heart
round herring
round in
round kumquat
round lot
round number
round of applause
round of beef
round of drinks
round of pleasure
round of pleasures
round of visits
round off
round on
round out
round pace
round robin
round scale
round seizing
round shot
round steak
round sum
round table
round the bend
round the clock
round to
round top
round tower
round trade
round transaction
round trip
round turn
round turn and half hitch
round turn in the hawse
round up
round whitefish
round window
round-about-face
round-arch
round-arched
round-arm
round-arm blow
round-armed
round-backed
round-barreled
round-bellied
round-beset
round-billed
round-blazing
round-bodied
round-boned
round-bottomed
round-bowed
round-bowled
round-built
round-cell sarcoma
round-celled
round-cornered
round-crested
round-dancer
round-eared
round-edge
round-edged
round-end
round-eyed
round-faced
round-fenced
round-footed
round-fruitied
round-furrowed
round-hand
round-handed
round-headed
round-heart
round-hoofed
round-horned
round-house
round-leafed
round-leaved
round-leaved dogwood
round-limbed
round-lipped
round-lobed
round-made
round-mouthed
round-nosed
round-podded
round-pointed
round-ribbed
round-rolling
round-rooted
round-seeded
round-shapen
round-shouldered
round-shouldred
round-sided
round-skirted
round-spun
round-stalked
round-table
round-table conference
round-tailed
round-the-clock
round-toed
round-topped
round-trip
round-trip ticket
round-tripper
round-trussed
round-turning
round-up
round-visaged
round-winged
round-wombed
round-worm
roundabout chair
roundabout system
roundabout way
rounded out
roundheaded apple tree borer
roundhouse curve
rounding adz
rounding off
rounding out
rounding-out
roundish-deltoid
roundish-faced
roundish-featured
roundish-leaved
roundish-obovate
roundish-oval
roundish-ovate
roundish-shaped
roundnose chisel
rouse out
rout cake
rout chair
rout out
rout seat
route army
route march
route marker
route nationale
route order
route step
route survey
router patch
router plane
routing plane
rove beetle
rove iron
rove punch
rove-beetle
rove-over
rover ball
roving commission
roving iron
row away
row crop
row culture
row dry
row galley
row house
row of buttons
row of pins
row over
row vector
row-barge
row-boat
row-de-dow
row-dow-dow
row-off
row-port
rowan tree
rowan-tree
rowdy-dowdy
rowed of all
rowing boat
rowing crew
rowing machine
rowing port
rowlock arch
royal Canadian
royal antler
royal assent
royal authority
royal blue
royal coachman
royal colony
royal crown
royal duke
royal fern
royal fizz
royal flush
royal grant
royal icing
royal insignia
royal jelly
royal lily
royal marriage
royal mast
royal oak
royal palm
royal pendulum
royal personage
royal pink
royal poinciana
royal prerogative
royal purple
royal quarto
royal red
royal road
royal seat
royal stag
royal standard
royal tennis
royal warrant
royal water lily
royal-born
royal-chartered
royal-hearted
royal-rich
royal-souled
royal-spirited
royal-towered
royston crow
ruat caelum
rub against
rub against the grain
rub along
rub away
rub down
rub elbows with
rub in
rub iron
rub it in
rub noses
rub off
rub off corners
rub on
rub out
rub salt in the wound
rub the lamp
rub the picture off a nickel
rub the print off a dollar bill
rub the right way
rub the ring
rub the wrong way
rub up
rub your eyes
rub your hands
rub-a-dub
rub-dub
rubaiyat stanza
rubarth's disease
rubber ball
rubber band
rubber bandage
rubber cement
rubber check
rubber cheque
rubber cloth
rubber dinghy
rubber gloves
rubber goods
rubber hydrocarbon
rubber knife
rubber latex
rubber mallet
rubber oil
rubber plant
rubber plate
rubber shoes
rubber snake
rubber spreader
rubber stamp
rubber tissue
rubber tree
rubber varnisher
rubber vine
rubber-base paint
rubber-block print
rubber-coated
rubber-collecting
rubber-cored
rubber-covered
rubber-cutting
rubber-down
rubber-faced
rubber-growing
rubber-headed
rubber-lined
rubber-mixing
rubber-off
rubber-producing
rubber-proofed
rubber-reclaiming
rubber-set
rubber-slitting
rubber-soled
rubber-spreading
rubber-stamp
rubber-testing
rubber-tired
rubber-varnishing
rubber-yielding
rubberneck tour
rubbing alcohol
rubbing away
rubbing block
rubbing off
rubbing out
rubbing stone
rubbing varnish
rubbing-stone
rubbish bin
rubbish heap
rubbish unloader
rubble car
rubble masonry
rubble-work
rube faction
rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
ruby blende
ruby copper
ruby fly
ruby glass
ruby grass
ruby pin
ruby port
ruby red
ruby roller
ruby silver
ruby spaniel
ruby spinel
ruby sulphur
ruby wood
ruby zinc
ruby-berried
ruby-budded
ruby-circled
ruby-colored
ruby-crested
ruby-crowned
ruby-crowned kinglet
ruby-eyed
ruby-faced
ruby-headed
ruby-hued
ruby-lipped
ruby-lustred
ruby-necked
ruby-red
ruby-set
ruby-studded
ruby-throated
ruby-throated hummingbird
ruby-tinctured
ruby-tinted
ruby-toned
ruby-visaged
ruck up
rudder amidships
rudder angle
rudder band
rudder bar
rudder brake
rudder chain
rudder coat
rudder crosshead
rudder fish
rudder horn
rudder pedals
rudder pendant
rudder snug
rudder tackle
rudder torque
rudder-fish
ruddy duck
ruddy-bright
ruddy-brown
ruddy-cheeked
ruddy-colored
ruddy-complexioned
ruddy-faced
ruddy-gold
ruddy-haired
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
rude awakening
rude health
rude justice
rude reproach
rude-carved
rude-ensculptured
rude-fanged
rude-fashioned
rude-featured
rude-growing
rude-hewn
rude-looking
rude-made
rude-mannered
rude-spoken
rude-spoken
rude-spun
rude-thoughted
rude-tongued
rude-washed
rudge wash
rue anemone
rue bargain
rue fern
rue oil
rue spleenwort
rue the day
ruff-coat
ruff-necked
ruff-tree
ruffed grouse
ruffian-like
ruffle your feathers
ruffle-
ruffle-headed
ruffled feelings
ruddy-tuffy
rufi-
rufo-
rufous-backed
rufous-banded
rufous-bellied
rufous-billed
rufous-breasted
rufous-browed
rufous-buff
rufous-chinned
rufous-colored
rufous-crowned
rufous-edged
rufous-haired
rufous-headed
rufous-hooded
rufous-naped
rufous-necked
rufous-rumped
rufous-spotted
rufous-tailed
rufous-tinged
rufous-toed
rufous-vented
rufous-winged
rufous-yellow
rufter hood
rufter-hood
rufty-tufty
rug designer
rug gown
rug maker
rug-cutter
rug-cutting
rug-gowned
rugby league
rugby union
rugged health
rugged individualism
rugged individualist
rugosa rose
rugose-leaved
rugose-punctate
ruhmkorff coil
ruin agate
ruin marble
ruin-breathing
ruin-crowned
ruin-heaped
ruin-hurled
ruin-loving
rule against
rule by terror
rule joint
rule nisi
rule of action
rule of conduct
rule of deduction
rule of eleven
rule of might
rule of nature
rule of the road
rule of the sword
rule of three
rule of thumb
rule off
rule out
rule over
rule the roost
rule with a rod of iron
rule with an iron fist
rule with an iron hand
rule-joint
rulebook slowdown
ruled out
ruled surface
ruled-out
ruler of th' inverted year
rump steak
rump-fed
rumpled feathers
rumpus room
run a chance
run a comparison
run a deficit
run a good chance
run a race
run a sample
run a specimen
run a temperature
run a tight ship
run a tilt
run a tilt at
run about
run abreast
run across
run aflame
run afoul of
run after
run against
run aground
run along
run amok
run amuck
run an experiment
run around
run around with
run at
run at flank speed
run away
run away from
run away with
run back
run before
run before the wind
run before you can walk
run broadside on
run by
run circles around
run counter to
run down
run down the latitude
run down the wind
run dry
run end on
run for
run for it
run for office
run for your life
run for your money
run foul of
run from
run head and head
run head on
run in
run in couples
run in opposition to
run in pursuit of
run in the blood
run in the family
run in the head
run in with
run interference for
run into
run into a brick wall
run into a corner
run into danger
run into debt
run into money
run into port
run into the ground
run its course
run like a scared rabbit
run like mad
run low
run mad
run mad after
run neck and neck
run of luck
run of the cards
run of the mill
run of things
run off
run off at the mouth
run off with
run on
run on in a groove
run on like a mill race
run on the rocks
run out
run out a rope
run out a warp
run out of
run out of patience
run out of steam
run out of time
run out of town
run out on
run over
run parallel
run parallel to
run prow on
run ragged
run rings around
run riot
run scared
run short
run short of
run smack into
run smoothly
run the chance
run the eye over
run the eye through
run the fingers over
run the gauntlet
run the hazard
run the risk
run the show
run through
run to
run to earth
run to seed
run to waste
run together
run true to form
run true to type
run under bare poles
run up
run up a bill
run up a score
run up against
run up an account
run upon
run upon a bank
run wide open
run wild
run with
run with the pack
run with the wind
run with the wind quartering
run you hard
run your eye over
run your head against
run-about  
run-around  
run-down  
run-down neighborhood  
run-in  
run-of-mill  
run-of-mine  
run-of-paper  
run-of-the-mill  
run-of-the-mine  
run-on  
run-on sentence  
run-out  
run-over  
run-through  
run-up  
runaround, the  
runaway ship  
runaway shop  
runaway victory  
runcible spoon  
rune-bearing  
rune-inscribed  
rune-staff  
rune-stave  
rune-stone  
rung of the ladder  
runic alphabet  
runic character  
runic symbol  
runic verse  
runner and tackle  
runner bean  
runner foot  
runner peanut  
runner stick  
runner tackle  
rusher-up  
rushers-up  
rushing English  
rushing account  
rushing away  
rushing board  
rushing bond  
rushing bowsprit  
rushing broad jump  
rushing commentary
running dive
running dog
running down
running engagement
running fight
running fire
running fit
running for office
running free
running gaff
running gate
running gear
running hand
running head
running high jump
running in
running in the blood
running in the race
running in the strain
running jump
running knot
running light
running livestock
running mad
running martingale
running mate
running myrtle
running noose
running out of time
running over
running pine
running rhythm
running rigging
running sore
running start
running stitch
running story
running text
running title
running track
running water
running wild
running-birch
running-down clause
running-out fire
running-out of the sands
runo-
runoff election
runoff primary
runway light
runway lights
rupert's drop
rupture yourself
ruptured duck
rural dean
rural deanery
rural delivery
rural district
rural economics
rural economy
rural free delivery
rural idiocy
rural market
rural route
rural science
rus in urbe
rush about
rush ahead
rush along
rush around
rush at
rush basket
rush bearing
rush broom
rush candle
rush daffodil
rush garlic
rush grass
rush hour
rush in
rush into
rush light
rush lily
rush marsh grass
rush of emotion
rush off
rush order
rush ring
rush through
rush to the assistance of
rush up on one
rush up on you
rush wheat
rush-bearer
rush-bearing
rush-bordered
rush-bottomed
rush-candle
rush-floored
rush-fringed
rush-girt
rush-grown
rush-hour
rush-leaved
rush-like
rush-margined
rush-ring
rush-seated
rush-stemmed
rush-strewn
rush-wove
rush-woven
russel cord
russell's viper
russet coat
russet-backed
russet-bearded
russet-brown
russet-coated
russet-colored
russet-golden
russet-green
russet-pated
russet-robed
russet-roofed
russia leather
russian blue
russian olive
russian thistle
russian wolfhound
russo-
rust brown
rust bucket
rust cement
rust coat
rust fungus
rust joint
rust mite
rust of antiquity
rust together
rust-cankered
rust-colored
rust-complexioned
rust-eaten
rust-preventing
rust-proofed
rust-red
rust-removing
rust-resisting
rust-stained
rust-worn
rust-yellow
rustic region
rustic style
rustic work
rustle up
rusts smuts
rusty black
rusty blackbird
rusty dab
rusty gum
rusty-branched
rusty-brown
rusty-coated
rusty-collared
rusty-colored
rusty-crowned
rusty-dusty
rusty-fusty
rusty-leaved
rusty-looking
rusty-red
rusty-rested
rusty-spotted
rusty-throated
ruthenium oxide
ruthenium red
rutherford atom
rye bread
rye grass
rye rust
rye smut
rye whiskey
rye whisky
rye-bread
rye-brome
rye-grass
s ap
s os
s t
s'il vous pla'
s'il vous plait
sa sa
sab-cat
sabai grass
sabbath school
sabbath-day
sabbatical leave
sabbatical year
saber bean
saber fish
saber knot
saber rattling
saber shin
saber-legged
saber-rattling
saber-shaped
saber-toothed
saber-toothed cat
saber-toothed tiger
sabicu wood
sable antelope
sable iron
sable night
sable-bordered
sable-cinctured
sable-cloaked
sable-colored
sable-hooded
sable-lettered
sable-robed
sable-spotted
sable-stoled
sable-suited
sable-vested
sable-vested Night
sable-visaged
sabre-toothed tiger
sac de nuit
sac fungus
sac-a-lait
sac-wrist
sacchar-
saccharic acid
saccharifying enzyme
saccharin insoluble
saccharin sodium
saccharine sorghum
saccharo-
saccharolactic acid
sacer vates
sachet powder
sack baler
sack baling
sack beater
sack borer
sack carrier
sack checker
sack cleaner
sack cloud
sack coal
sack coat
sack collector
sack cutter
sack doubler
sack dress
sack duty
sack elevator
sack emptier
sack examiner
sack hand
sack hoist
sack holder
sack lifter
sack machinist
sack maker
sack mender
sack moth
sack out
sack packer
sack printer
sack race
sack racer
sack racing
sack repairer
sack running
sack searcher
sack sewer
sack shaker
sack shoot
sack sorter
sack store
sack suit
sack superintendent
sack tackle
sack the
sack time
sack tree
sack up
sack weight
sack-bearer
sack-coated
sack-formed
sack-sailed
sack-shaped
sack-winged
sackcloth and ashes
sacking needle
sac-
sacra peregrina
sacrament chapel
sacrament cloth
sacrament house
sacrament of matrimony
sacramental anointment
sacramental offering
sacramental wine
sacred Nine
sacred anchor
sacred article
sacred baboon
sacred bamboo
sacred calling
sacred canon
sacred cow
sacred ibis
sacred lotus
sacred mushroom
sacred music
sacred orders
sacred quality
sacred relics
sacred thread
sacred unction
sacred writings
sacred, the
sacred-bean family
sacrifice bunt
sacrifice fly
sacrifice hit
sacrifice yourself for
sacrificial anode
sacring bell
sacring-bell
sacro-
sacro-uterine
sad cake
sad case
sad disappointment
sad of heart
sad person
sad sack
sad sack of shit
sad times
sad tree
sad work
sad-a-vised
sad-colored
sad-eyed
sad-faced
sad-iron
sad-looking
sad-natured
sad-paced
sad-seeming
sad-tuned
sad-voiced
saddle band
saddle bar
saddle blanket
saddle block
saddle boiler
saddle bracket
saddle carpenter
saddle case
saddle chimes
saddle clip
saddle crutch
saddle currier
saddle cutter
saddle feathers
saddle fitter
saddle flange
saddle flap
saddle fungus
saddle gall
saddle girth
saddle glacier
saddle grafting
saddle gun
saddle hackle
saddle hand
saddle hip
saddle horn
saddle horse
saddle house
saddle hub
saddle iron
saddle joint
saddle key
saddle lap
saddle lashing
saddle leather
saddle maker
saddle making
saddle mat
saddle nail
saddle of mutton
saddle on
saddle ox
saddle oxford
saddle oyster
saddle pad
saddle pile
saddle piling
saddle pin
saddle pistol
saddle plant
saddle plate
saddle pocket
saddle point
saddle pommel
saddle press
saddle rack
saddle reef
saddle rock
saddle roof
saddle room
saddle rug
saddle seam
saddle seamer
saddle seat
saddle shell
saddle shoe
saddle skirt
saddle soap
saddle sore
saddle spot
saddle spring
saddle staple
saddle stirrup
saddle stitch
saddle stitcher
saddle stitching
saddle stone
saddle strap
saddle tank
saddle trunk
saddle upon
saddle wire stitch
saddle wiring
saddle with
saddle withers
saddle worker
saddle-backed
saddle-bag
saddle-billed
saddle-bow
saddle-check chair
saddle-cloth
saddle-fast
saddle-galled
saddle-girt
saddle-graft
saddle-nosed
saddle-shaped
saddle-sore
saddle-spotted
saddle-stitch
saddle-tree
saddle-wired
saddleback roof
saddleback stitch
sadist torturer
sadistic cruelty
saeva indignatio
safari ant
safari jacket
safari park
safari suit
safe and sound
safe builder
safe district
safe edge
safe finisher
safe fitter
safe hands
safe haven
safe lifter
safe lock
safe maker
safe painter
safe period
safe stuffer
safe-bestowed
safe-blower
safe-borne
safe-breaker
safe-conduct
safe-cracker
safe-deposit
safe-deposit box
safe-deposit vault
safe-edge file
safe-hidden
safe-hold
safe-keeping
safe-marching
safe-moored
safe-sequestered
safe-time
safeguarding duty
safety arch
safety belt
safety bicycle
safety bolt
safety buoy
safety cage
safety car
safety catch
safety chain
safety clause
safety control
safety curtain
safety disk
safety dog
safety edge
safety equipment
safety explosive
safety factor
safety film
safety first
safety funnel tube
safety fuse
safety fuze
safety glass
safety hanger
safety hoist
safety hook
safety island
safety isle
safety lamp
safety lift
safety link
safety lintel
safety lock
safety loop
safety man
safety match
safety nut
safety paper
safety pin
safety pinion
safety plug
safety rail
safety razor
safety roller
safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
safety switchboard
safety tire
safety tube
safety valve
safety wire
safety zone
safety-deposit
safety-deposit box
safety-deposit vault
safety-fund system
safety-pin
safety-valve
safflower carmine
safflower oil
safflower red
saffron cake
saffron cordial
saffron crocus
saffron gatherer
saffron kiln
saffron oil
saffron plum
sail against the wind
sail arm
sail away
sail away from
sail before the wind
sail burton
sail by the wind
sail canvas
sail carrier
sail close to the wind
sail close-hauled
sail closer to the wind
sail coast-wise
sail down the wind
sail drill
sail duck
sail fine
sail fluke
sail for
sail free
sail full and by
sail furler
sail gang
sail grommet
sail ho
sail hook
sail hoop
sail in the teeth of the wind
sail in the wind's eye
sail into
sail into the wind's eye
sail keeper
sail lizard
sail loft
sail model
sail near the wind
sail needle
sail netting
sail off the wind
sail on the wind
sail packet
sail part
sail plan
sail pulley
sail room
sail rope
sail round
sail sewer
sail sewing
sail the ocean blue
sail the sea
sail thimble
sail thread
sail to the windward of
sail to windward
sail too close to the wind
sail too near the wind
sail trimmer
sail twine
sail under false colors
sail with the wind
sail with the wind aft
sail with the wind quartering
sail yard
sail-bearing
sail-borne
sail-broad
sail-carrying
sail-dotted
sail-filling
sail-over
sail-propelled
sail-stretched
sail-winged
sailfin sculpin
sailing aid
sailing auxiliary
sailing barge
sailing boat
sailing canoe
sailing car
sailing cruiser
sailing day
sailing dinghy
sailing instructions
sailing launch
sailing master
sailing match
sailing orders
sailing packet
sailing ship
sailing sucker
sailing trawler
sailing trim
sailing vessel
sailing vessels
sailing yacht
sailmaker's needle
sailmaker's palm
sailor blue
sailor boy
sailor cap
sailor fish
sailor gang
sailor hat
sailor helmsman
sailor laborer
sailor lad
sailor phrase
sailor plant
sailor suit
sailor tie
sailor's breastplate
sailor's choice
sailor's knot
sailor's-choice
sailor-fashion
sailor-fisherman
sailor-looking
sailor-mind
sailor-poet
sailor-soul
sailor-train
sailors' snug harbor
saint agnes's eve
saint andrews's cross
saint anthony's cross
saint anthony's fire
saint bernard
saint elmo's fire
saint louis encephalitis
saint maker
saint making
saint martin's summer
saint valentine's day
saint's day
saint's legend
saint-errant
saint-errantry
saint-john's-wort
saker falcon
sal alembroth
sal ammoniac
sal ammoniac
sales note
sales personnel
sales pitch
sales promotion
sales register
sales resistance
sales talk
sales tax
salfern stoneseed
sali-
salic law
salicyl alcohol glucoside
salicylic acid
salicylic aldehyde
salient angle
salient fact
salient point
salino-
salisbury steak
salivary digestion
salivary gland
salivary glands
salivary secretion
salk vaccine
salle a manger
salle d'armes
salle d'attente
salle de danse
sallee-man
sallow-cheeked
sallow-colored
sallow-complexioned
sallow-faced
sallow-looking
sallow-visaged
sally forth
sally lunn
sally picker
sally port
salmon brick
salmon cloud
salmon color
salmon disease
salmon family
salmon fisher
salmon fisherman
salmon fishery
salmon fishing
salmon fly
salmon hatchery
salmon herring
salmon ladder
salmon loaf
salmon oil
salmon peal
salmon pink
salmon river
salmon rod
salmon smelt
salmon spear
salmon spearing
salmon steak
salmon tail
salmon trout
salmon wheel
salmon-breeding
salmon-colored
salmon-haunted
salmon-pink
salmon-rearing
salmon-red
salmon-tinted
salmon-trout
salon de beaute
salon music
saloon bar
saloon car
saloon carriage
saloon deck
saloon keeper
saloon pistol
salping-
salpingo-
salpingo-oophorectomy
salpingo-oophoritis
salpingo-ovariotomy
salpingo-ovaritis
salpingo-ureterostomy
salt a mine
salt acid
salt and pepper beard
salt and pepper hair
salt away
salt barrel
salt bed
salt beef
salt block
salt bottom
salt box
salt brig
salt cake
salt cedar
salt chrome
salt coffer
salt conveyer
salt crusher
salt crystal
salt dome
salt down
salt drawer
salt dryer
salt duty
salt eel
salt elevator
salt evaporator
salt filler
salt filter
salt fireman
salt firm
salt fish
salt flat
salt furnace
salt garden
salt gauge
salt glaze
salt glazing
salt grainer
salt grape
salt grass
salt grinder
salt hay
salt heaver
salt holder
salt horse
salt in the wound
salt junk
salt kettle
salt lake
salt lick
salt loader
salt lump
salt maker
salt marsh
salt master
salt millman
salt mine
salt miner
salt of phosphorus
salt of sorrel
salt of the earth
salt out
salt pack
salt pan
salt pansmith
salt pit
salt plug
salt pocket
salt pond
salt pork
salt prairie
salt press
salt rammer
salt reed grass
salt refiner
salt rheum
salt room
salt screen
salt sea
salt seller
salt shaker
salt shop
salt shovel
salt soda
salt something away
salt spoon
salt spring
salt stain
salt stick
salt tax
salt tree
salt trimmer
salt trough
salt vase
salt washer
salt water
salt well
salt yard
salt-and-pepper
salt-box
salt-box house
salt-cat
salt-cellar
salt-cured
salt-edged
salt-free diet
salt-glazed
salt-glazed ware
salt-green
salt-hard
salt-incrusted
salt-laden
salt-loving
salt-marsh aster
salt-marsh caterpillar
salt-marsh fleabane
salt-marsh gerardia
salt-marsh goldenrod
salt-marsh grass
salt-marsh hen
salt-marsh mosquito
salt-marsh moth
salt-marsh terarin
salt-meadow grass
salt-pan
salt-rheum weed
salt-rising
salt-rising bread
salt-spilling
salt-watery
salt-white
salted peanuts
salting bath
salting box
salting house
salting kit
salting pan
salting press
salting room
salting trough
salting tub
salt peter paper
salt peter rot
saltwater sailor
saltwater taffy
saltwort family
salus populi suprema lex esto
salutatory address
salute with
saluto dor
saluto doro
salvage corps
salvage man
salvation army
salve bug
salve mull
salver-shaped
salvia blue
salvinia family
salvo point
sam browne
sam browne belt
sam-sodden
samadera bark
same but different
same here
same mind
same old story
same, the
same-colored
same-featured
same-minded
same-seeming
same-sized
same-sounding
sample ballot
sample book
sample bottle
sample box
sample boy
sample cabinet
sample card
sample carrier
sample case
sample catcher
sample cutter
sample drawer
sample driller
sample envelope
sample holder
sample maker
sample making
sample ore
sample passer
sample phial
sample picker
sample point
sample porter
sample roll
sand caster
sand casting
sand castle
sand cherry
sand chute
sand clam
sand clock
sand cloth
sand clover
sand cock
sand collar
sand column
sand cone
sand conveyer
sand corn
sand crab
sand crack
sand crater
sand cricket
sand cusk
sand dab
sand darter
sand digger
sand disease
sand diver
sand dollar
sand dredge
sand dropseed
sand drown
sand dune
sand eel
sand finish
sand flag
sand flask
sand flat
sand flea
sand flotation
sand flounder
sand fluke
sand fly
sand fox
sand gall
sand grape
sand grass
sand grouse
sand hill
sand hog
sand hoist
sand hole
sand hopper
sand hornet
sand in the eyes
sand jack
sand jet
sand lance
sand lark
sand launce
sand leek
sand lily
sand line
sand lizard
sand lob
sand lotter
sand martin
sand mason
sand mist
sand mixer
sand mold
sand molding
sand mole
sand monitor
sand mouse
sand mullet
sand myrtle
sand nettle
sand oat
sand pail
sand painter
sand painting
sand partridge
sand pear
sand phlox
sand pig
sand pigeon
sand pike
sand pile
sand pillar
sand pine
sand pipe
sand pit
sand plain
sand plover
sand plum
sand prey
sand pride
sand pump
sand rat
sand reed
sand reef
sand reel
sand rocket
sand roll
sand roller
sand runner
sand saucer
sand scoop
sand screw
sand sedge
sand shark
sand shell
sand shoe
sand skink
sand skipper
sand smelt
sand snake
sand snipe
sand spout
sand spurry
sand squeteague
sand star
sand stargazer
sand strake
sand sucker
sand swallow
sand table
sand tester
sand tiger
sand trap
sand trout
sand tube
sand verbena
sand vetch
sand vine
sand violet
sand viper
sand walk
sand wasp
sand whiting
sand widgeon
sand yacht
sand-bag
sand-bar willow
sand-belt machine
sand-blight
sand-blind
sand-blindness
sand-blown
sand-bottomed
sand-box
sand-built
sand-buried
sand-burned
sand-cast
sand-cloth
sand-colored
sand-etched
sand-faced
sand-finished
sand-float finish
sand-floated
sand-fly bush
sand-fly fever
sand-glass
sand-groper
sand-hemmed
sand-hill
sand-hill bloom
sand-hill crane
sand-hill rose
sand-hill rosemary
sand-hiller
sand-lime
sand-lime brick
sand-lot
sand-paper
sand-red
sand-strewn
sand-struck
sand-warped
sandal brick
sandal tree
sandalwood family
sandalwood oil
sandalwood tan
sandarac tree
sandbeach grape
sandbox tree
sanders blue
sandhill crane
sanding machine
sandpaper fig
sandpaper starwort
sandpaper tree
sands of the sea
sands of time
sandwich batten
sandwich beam
sandwich board
sandwich boy
sandwich cake
sandwich coin
sandwich compound
sandwich course
sandwich girder
sandwich man
sandwich shop
sandwich tern
sandy blight
sandy loam
sandy-bearded
sandy-bottomed
sandy-colored
sandy-flaxen
sandy-haired
sandy-pated
sandy-red
sandy-rufous
sane-minded
sang de bouf
sang-de-boeuf
sang-dragon
sang-froid
sanga-sanga
sanguinary ant
sanguine expectation
sanguine humor
sanguine-complexioned
sanitary belt
sanitary cordon
sanitary engineer
sanitary engineering
sanitary napkin
sanitary towel
sanitation-proof
sans appel
sans ceremonie
sans doute
sans facon
sans pareil
sans peur et sans reproche
sans reproche
sans serif
sans souci
sans-culotte
sans-culotterie
sans-culottic
sans-culottid
sans-culottide
sans-culottides
sans-culottish
sans-culottism
sans-culottist
sans-culottize
sans-serif
sant tree
santa claus
santa gertrudis
santal oil
santalwood oil
sanwa millet
sap cavity
sap chafer
sap fagot
sap flow
sap green
sap gum
sap pine
sap roller
sap rot
sap shield
sap stain
sap the foundations
sap the foundations of
sap the strength of
sap tree
sap tube
sap-green
sap-wood
sapele mahogany
saphenous vein
sapling cup
sapodilla family
sapodilla plum
saponification number
saponification value
sapota gum
sapper and miner
sapphire blue
sapphire-blue
sapphire-colored
sapphire-hued
sapphire-visaged
sappy spot
sap-
sapro-
sapta-matri
sapucaia nut
sapucaia-nut family
sapwood rot
saratoga trunk
sarc-
sarco-
sarcoptic mange
sardine box
sardine can
sardine factory
sardine fishery
sardine oil
sardine shears
sardine tongs
sardonic grin
sargasso weed
sargassum crab
sargassum fish
sargassum pipefish
sargassum shell
sarsen stone
saru-gaku
sarus crane
sash bar
sash chain
sash cord
sash curtain
sash fast
sash fillister
sash holder
sash house
sash line
sash lock
sash maker
sash making
sash plane
sash pocket
sash ribbon
sash saw
sash ventilation
satiric wit
satirical novel
satirical poetry
satisfaction piece
satisfactory amount
satisfy requirements
satisfy your obligations
satisfy yourself
satisfy yourself on that point
saturated fat
saturated liquid
saturated vapor
saturating oil
saturation bombing
saturation current
saturation curve
saturation factor
saturation level
saturation point
saturation pressure
saturation raid
saturnalia of blood
satyr butterfly
satyr orchid
satyr play
sauba ant
sauce boat
sauce espagnole
sauce-alone
sauce-boat
sauce-crayon
saucer dome
saucer eye
saucer eyes
saucer lake
saucer-eyed
saucer-shaped
sauna bath
saunce bell
saunders blue
sauro-
sausage balloon
sausage bassoon
sausage curl
sausage dog
sausage filler
sausage maker
sausage making
sausage meat
sausage poisoning
sausage roll
sausage tree
sausage turning
sausage-fingered
sausage-shaped
saussurite gabbro
saut de basque
sauter aux yeux
sauts de basque
sauva ant
sauve qui peut
sauve-qui-peut
sauvignon blanc
savage-featured
savage-fierce
savage-hearted
savage-looking
savage-spoken
savage-wild
savannilla rhatany
savanna blackbird
savanna flower
savanna forest
savanna sparrow
savanna wattle
savanna woodland
savate expert
save and except
save as you earn
save face
save for a rainy day
save the necessity
save to fall back on
save to fall back upon
save up
save your bacon
save your breath
save your face
save your neck
save your skin
save yourself
save-all
saved by the bell
saved soul
savin oil
savin-leaved
saving clause
saving grace
saving your reverence
savings account
savings and loan association
savings bank
savings bank life insurance
savings bond
savings insurance
savings stamp
savoir faire
savoir vivre
savoir-faire
savoir-vivre
savor of
savor of wit
savoring of
savory-leaved
savory-leaved aster
savoy cabbage
saw arbor
saw bearing
saw bench
saw bill
saw bit
saw blade
saw brier
saw cabbage palm
saw carriage
saw clamp
saw cut
saw driver
saw fern
saw file
saw file temper
saw filer
saw filing
saw gate
saw gin
saw grass
saw grinder
saw guard
saw guide
saw handle
saw jointer
saw kerf
saw knife
saw log
saw logs
saw machine
saw machinery
saw maker
saw palmetto
saw palmetto berry
saw pit
saw set
saw setting
saw shark
saw sharpener
saw steel
saw straightener
saw swage
saw table
saw teeth
saw the air
saw tooth
saw tree
saw vise
saw wedge
saw wood
saw wrack
saw wrest
saw-billed
saw-edged
saw-fly
saw-handled
saw-leaved
saw-pierce
saw-pit
saw-shaped
saw-tooth wave
saw-toothed
saw-whet
saw-whet owl
saw-wort
sawara cypress
sawarra nut
sawbuck table
sawdust trail
sawed-off
sawed-off shotgun
sawing block
sawing stop
sawn-off
sawtooth roof
sawyer beetle
sax-horn
saxe blue
saxicava sand
saxifrage family
saxifrage pink
say 'amen' to
say 'ditto' to
say 'no'
say 'yes' to
say a good word for
say a word to the wise
say again
say amen to
say aside
say aye
say by the way
say cast
say farewell
say good-bye
say goodbye to
say grace
say hello
say in defense
say in reply
say nay
say neither yes nor no
say no
say no to
say nothing
say one's say
say out
say over
say over again
say over and over
say something nice about
say that all is for the best
say the word
say to yourself
say uncle
say what comes uppermost
say what you think
say yes
say your lesson
say your prayers
say your say
say-nothing
say-so
scab mite
scab over
scabbard fish
scabby mouth
scabby-head
scaff net
scaff-raff
scaffold nail
scala cordonata
scala media
scalar field
scalar product
scalar triple product
scald crow
scald' head
scald-fish
scalding hot
scale armor
scale beam
scale book
scale bug
scale buying
scale carp
scale caterpillar
scale charge
scale cordonate
scale degree
scale dove
scale down
scale drawing
scale duck
scale effect
scale fern
scale figure
scale fly
scale insect
scale leaf
scale louse
scale maker
scale making
scale micrometer
scale modulus
scale moss
scale off
scale passage
scale pipette
scale plan
scale plate
scale quail
scale reading
scale rule
scale selling
scale singing
scale stair
scale stone
scale the heights
scale the walls
scale wax
scale worm
scale-bearing
scale-board
scale-bright
scale-down
scale-tailed
scale-up
scaled partridge
scaled quail
scaled-down
scalenus triangle
scalenus anterior
scalenus medius
scalenus posterior
scales of justice
scaling circuit
scaling down
scaling ladder
scaling-ladder
scallop budding
scallop-shell
scallop-shell moth
scaloped-edged
scalp dance
scalp lock
scalping boots
scalping iron
scalping-knife
scaly anteater
scaly mistletoe
scaly spleenwort
scaly tetter
scaly-bark
scaly-barked
scaly-finned
scaly-leg mite
scaly-stemmed
scaly-winged
scamper off
scan conversion
scan converter
scandal sheet
scandal-bearer
scandal-bearing
scandal-mongering
scandalous rumor
scandalum magnatum
scanning beam
scanning disk
scanning electron microscope
scanning line
scanning pattern
scanning speech
scansorial barbet
scant of
scant sufficiency
scantling number
scantling-draft vessel
scap net
scape grace
scape wheel
scape-bearing
scapho-
scapolite group
scapolite-gabbro
scapular medal
scapular-shaped
scapulo-
scar end
scar tissue
scar-bearer
scar-bearing
scar-clad
scar-faced
scar-seamed
scarab beetle
scarb-tree
scarce as hen's teeth
scarce-closed
scarce-cold
scarce-covered
scarce-discerned
scarce-found
scarce-heard
scarce-met
scarce-moving
scarce-parted
scarce-seen
scarce-told
scarce.Warned
scarceley any
scarceley anything
scarceley ever
scarceley heard
scarceley like
scarceley to be anticipated
scarceley to be expected
scarcely than hen's teeth
scarcity price
scare away
scare bullfinch
scare goose
scare hell out of
scare off
scare one spitless
scare one stiff
scare shitless
scare stiff
scare the life out of
scare the pants off of
scare the shit out of
scare to death
scare up
scare-bear
scare-beggar
scare-bird
scare-devil
scare-fire
scare-fish
scare-fly
scare-hawk
scare-hog
scare-mouse
scare-peddler
scare-robin
scare-sheep
scare-sinner
scare-sleep
scare-thief
scare-vermin
scared rabbit
scared shitless
scared stiff
scared to death
scaredy-cat
scarf cloud
scarf joint
scarf maker
scarf making
scarf weld
scarf-skin
scarfed joint
scaring off
scarlet bugler
scarlet clematis
scarlet eggplant
scarlet fever
scarlet hat
scarlet larkspur
scarlet letter
scarlet lightning
scarlet lobelia
scarlet lychnis
scarlet madder
scarlet monkey flower
scarlet ocher
scarlet pimpernel
scarlet plume
scarlet runner
scarlet runners
scarlet sage
scarlet tanager
scarlet woman
scarlet-ariled
scarlet-barred
scarlet-berried
scarlet-blossomed
scarlet-breasted
scarlet-circled
scarlet-clad
scarlet-coated
scarlet-colored
scarlet-crested
scarlet-day
scarlet-faced
scarlet-flowered
scarlet-fruited
scarlet-gowned
scarlet-haired
scarlet-lined
scarlet-lipped
scarlet-red
scarlet-robed
scarlet-tipped
scarlet-vermilion
scarp wall
scarp joint
scat singing
scat-
scato-
scatological literature
scatter diagram
scatter pin
scatter pins
scatter rug
scatter seed
scatter shot
scatter to the winds
scatter-brain
scatter-brained
scatter-gun
scaup duck
scaup-duck
scavenger beetle
scavenger hunt
scavenger's daughter
scenario writer
scene cloth
scene dock
scene master
scene of action
scene pack
scene painter
scene painting
scene plot
scene-stealer
scenery wagon
scenic artist
scenic railway
scenic view
scent article
scent bag
scent ball
scent bottle
scent box
scent from afar
scent gland
scent out
scent scale
scented fern
scented grass
scented oak fern
scented tea
scented verbena
scentless camomile
schappe silk
schedule of operation
schedule rate
scheduled airline
scheduled castes
scheduled territories
scheme arch
scheme of arrangement
scheme out
schenk beer
schick test
schiller spar
schist oil
schistosome dermatitis
schiz-
schizo-
schizoid personality
schizothymic personality
schlieren effect
schlieren method
schlieren photography
schlock house
schlock rock
schlock shop
schmidt system
schola cantorum
scholae cantorum
scholarly edition
scholastic institution
scholastic theology
school account
school age
school agent
school airship
school aptitude
school argument
school author
school badge
school bass
school bell
school bench
school board
school brush
school building
<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>school map</td>
</tr>
<tr>
<td>school matter</td>
</tr>
<tr>
<td>school medicine</td>
</tr>
<tr>
<td>school model</td>
</tr>
<tr>
<td>school moralist</td>
</tr>
<tr>
<td>school morality</td>
</tr>
<tr>
<td>school name</td>
</tr>
<tr>
<td>school nurse</td>
</tr>
<tr>
<td>school of architecture</td>
</tr>
<tr>
<td>school of art</td>
</tr>
<tr>
<td>school of arts and crafts</td>
</tr>
<tr>
<td>school of communications</td>
</tr>
<tr>
<td>school of continuing education</td>
</tr>
<tr>
<td>school of design</td>
</tr>
<tr>
<td>school of drama</td>
</tr>
<tr>
<td>school of dramatic arts</td>
</tr>
<tr>
<td>school of education</td>
</tr>
<tr>
<td>school of fine arts</td>
</tr>
<tr>
<td>school of graphic arts</td>
</tr>
<tr>
<td>school of philosophy</td>
</tr>
<tr>
<td>school of the performing arts</td>
</tr>
<tr>
<td>school of thought</td>
</tr>
<tr>
<td>school officer</td>
</tr>
<tr>
<td>school omnibus</td>
</tr>
<tr>
<td>school opinion</td>
</tr>
<tr>
<td>school organ</td>
</tr>
<tr>
<td>school pad</td>
</tr>
<tr>
<td>school paper</td>
</tr>
<tr>
<td>school pedantry</td>
</tr>
<tr>
<td>school pence</td>
</tr>
<tr>
<td>school philosopher</td>
</tr>
<tr>
<td>school philosophy</td>
</tr>
<tr>
<td>school phrase</td>
</tr>
<tr>
<td>school playground</td>
</tr>
<tr>
<td>school porter</td>
</tr>
<tr>
<td>school prank</td>
</tr>
<tr>
<td>school principal</td>
</tr>
<tr>
<td>school prize</td>
</tr>
<tr>
<td>school publication</td>
</tr>
<tr>
<td>school publisher</td>
</tr>
<tr>
<td>school question</td>
</tr>
<tr>
<td>school quiddity</td>
</tr>
<tr>
<td>school railing</td>
</tr>
<tr>
<td>school ranking</td>
</tr>
<tr>
<td>school rating</td>
</tr>
<tr>
<td>school register</td>
</tr>
<tr>
<td>school ring</td>
</tr>
<tr>
<td>school roof</td>
</tr>
</tbody>
</table>
school rule
school savings bank
school scale
school schnapper
school scissors
school seat
school seating
school section
school shark
school ship
school sign
school signal
school slate
school snapper
school strap
school subtlety
school superintendent
school supervisor
school survey
school syllogism
school table
school tablet
school tax
school team
school term
school testing
school theology
school tie
school trick
school vacation
school ventilator
school vise
school wage
school wagon
school warden
school wardrobe
school welfare officer
school without walls
school year
school-age
school-bred
school-house
school-leaving
school-made
school-magisterial
school-taught
school-trained
schools and movements
schools of
schooner bark
schooner ketch
schooner rig
schooner-rigged
schooner-granite
schooner-rock
schreiner finish
sci-fi
sciara army worm
sciatic artery
sciatic foramen
sciatic neuritis
science dictionary
science fiction
science in the flesh
science of being
science of discursive thought
science of human behavior
science of language
science of man
science of mind
science of the mind
science of war
science-fiction novel
scientia est potentia
scientia scientiarum
scientific education
scientific exactness
scientific humanism
scientific management
scientific method
scientific name
scientific socialism
scientifically exact
scimitar foot
scimitar-shaped
scintillation counter
scintillation spectrometer
scire facias
scissor blade
scissor case
scissor chain
scissor kick
scissor maker
scissor making
scissor screw
scissor sharpener
scoop-net
scope of mind
scope of vision
scopol-scops owl
scorched earth
scorched earth policy
scorched-earth tactics
scorching hot
score a breakthrough
score a bull's eye
score a success
score card
score off
score playing
score sheet
score up
scorn to accept
scorn to receive
scornful laugh
scornful smile
scorpion broom
scorpion bug
scorpion fish
scorpion fly
scorpion grass
scorpion iris
scorpion lobster
scorpion mouse
scorpion oil
scorpion plant
scorpion senna
scorpion shell
scorpion spider
scorpion thorn
scot and lot
scot-free
scotch broth
scotch cap
scotch roman
scotch terrier
scotch verdict
scotch whisky
scotch woodcock
scotch your wheel
scotch-hopper
scotch-irish
scotch-tape
scramble up
scrambled eggs
scrap basket
scrap box
scrap heap
scrap iron
scrap log
scrap paper
scrap pudding
scrap rubber
scrap the plan
scrap value
scrap-book
scrap-heap
scrape acquaintance with
scrape along
scrape and save
scrape in
scrape into
scrape off
scrape out
scrape through
scrape together
scrape together or up
scrape up
scrape-finished
scrape-gut
scrape-shoe
scrape-trencher
scaper conveyer
scaper mat
scaper plane
scaper ring
scappy con
scratch awl
scratch brusher
scratch carving
scratch coat
scratch comma
scratch cradle
scratch division
scratch each other's back
scratch feed
scratch figure
scratch gauge
scratch grass
scratch hit
scratch line
scratch out
scratch pad
scratch paper
scratch player
scratch sheet
scratch test
scratch the surface
scratch together or up
scratch wig
scratch-brush
scratch-coated
scratch-pad
scratch-penny
scratching post
scratching shed
scrawny horse
scream defiance
scream therapy
screaming color
screaming meemies, the
screaming-meemies
screech hawk
screech martin
screech owl
screech-owl
screen boy
screen door
screen facade
screen gate
screen grid
screen maker
screen making
screen memory
screen out
screen pass
screen plate
screen process
screen test
screen, the
screen-faced
screen-grid tube
screen-grid voltage
screen-plate process
screen-test
screen-wall counter
screen-wiper
screening constant
screening effect
screw alley
screw anchor
screw arbor
screw around
screw auger
screw axis
screw back
screw bean
screw bell
screw blower
screw bolt
screw box
screw bunter
screw cap
screw chain
screw collar
screw conveyer
screw conveyor
screw coupling
screw driver
screw eye
screw fern
screw gear
screw gearing
screw hook
screw jack
screw joint
screw key
screw machine
screw machinery
screw maker
screw making
screw mill
screw mooring
screw mouth
screw nail
screw nut
screw palm
screw peg
screw pile
screw piling
screw pine
screw plate
screw plug
screw pod
screw post
screw press
screw propeller
screw pump
screw punch
screw rivet
screw shell
screw shot
screw smile
screw spanner
screw spike
screw stair
screw stake
screw stay
screw steamer
screw stock
screw stone
screw stud
screw surface
screw tap
screw thread
screw tool
screw tree
screw up
screw up the eyes
screw up the works
screw up your courage
screw up your face
screw up your nerve
screw wedge
screw wheel
screw wrench
screw-back
screw-bound
screw-capped
screw-chasing
screw-clamped
screw-cutting
screw-cutting lathe
screw-down
screw-driven
screw-eyed
screw-g geared
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
screw-propelled
screw-shaped
screw-slotting
screw-stoppered
screw-thread fit
screw-thread tolerance
screw-threaded
screw-topped
screw-torn
screw-turned
screw-turning
screw-up
screwed up
screwed-up
screwing around
screwing machine
scribble-scrabble
scribbling block
scribbling lark
scribe saw
scribes and Pharisees
scribing block
scribing compass
scribing gouge
scribing iron
scrieve board
scrimmage line
scrimp rail
scrimping bar
scrip certificate
scrip dividend
scrip issue
scrip-scrap
script girl
script lichen
script reader
script-writer
scritch-owl
scritch-scratch
scritch-scratching
scrive board
scrofula plant
scrolar line
scroll casing
scroll chuck
scroll creeper
scroll foot
scroll front
scroll gear
scroll lathe
scroll pediment
scroll saw
scroll step
scroll wheel
scroll-cut
scroll-like
scroll-shaped
scrooch down
scrootch down
scrouch down
scrounge around
scrub birch
scrub bird
scrub brush
scrub bush
scrub chestnut oak
scrub fowl
scrub hickory
scrub juniper
scrub myrtle
scrub nurse
scrub oak
scrub out scrub pine
scrub pine
scrub plane
scrub robin
scrub round
scrub sandalwood
scrub shrub
scrub turkey
scrub typhus
scrub up
scrub vine
scrub wren
scrub-bird
scrub-up
scrubbing board
scrubbing brush
scrubbing out
scrubbing up
scrubbing-brush
scrum half
scrutinize comparatively
scrutiny-proof
scuba diver
scuba diving
scuff plate
scuffle hoe
scullery maid
sculling oar
sculpting tool
sculptor's wax
sculptured glass
sculptured piece
scum of society
scum of the earth
scupper pipe
scupper shoot
scurvy grass
scurvy trick
scut work
scutch cane
scutch grass
scutching tow
scutellum rot
scuttle butt
scyphi-
scypho-
scythe maker
scythe making
scythe of Death
scythe of Time
scythe-armed
scythe-bearing
scythe-leaved
scythe-shaped
se defendendo
se tenant
se-
se-baptism
se-baptist
sea acorn
sea adder
sea air
sea anchor
sea anemone
sea anemones
sea ape
sea apple
sea apron
sea arrow grass
sea ash
sea aster
sea bag
sea bank
sea basket
sea bass
sea bat
sea bean
sea bear
sea beef
sea beet
sea bells
sea belt
sea bent
sea bindweed
sea bird
sea biscuit
sea bladder
sea flite
sea bloom
sea blossom
sea blubber
sea blue
sea boat
sea boots
sea bottle
sea boy
sea brant
sea breach
sea bread
sea bream
sea breeze
sea brief
sea buckthorn
sea bugloss
sea burdock
sea bush
sea butterfly
sea cabbage
sea cabin
sea calf
sea campion
sea captain
sea card
sea carp
sea cat
sea catfish
sea catgut
sea cauliflower
sea celandine
sea change
sea chest
sea chickweed
sea chub
sea clam
sea cliff
sea cloth
sea club rush
sea clutter
sea coal
sea cob
sea cock
sea coco
sea coconut
sea colander
sea cole
sea colewort
sea combat
sea compass
sea connection
sea coot
sea corn
sea cow
sea cradle
sea crawfish
sea crayfish
sea creature
sea cress
sea crow
sea cucumber
sea cudweed
sea cushion
sea daffodil
sea dahlia
sea daisy
sea date
sea day
sea devil
sea dock
sea dog
sea dotterel
sea dove
sea dragon
sea drake
sea duck
sea dust
sea duty
sea eagle
sea ear
sea eel
sea egg
sea elephant
sea endive
sea fan
sea feather
sea fee
sea fennel
sea fern
sea fig
sea fight
sea fir
sea fire
sea fish
sea fisher
sea fisherman
sea fishery
sea fishing
sea flea
sea foalfoot
sea foam
sea fog
sea food
sea fox
sea fret
sea front
sea frontage
sea froth
sea furbelow
sea gasket
sea gate
sea gauge
sea gillyflower
sea girdle
sea god
sea gods
sea goose
sea gooseberry
sea goosefoot
sea gown
sea grape
sea grass
sea grass wrack
sea green
sea gromwell
sea gudgeon
sea gull
sea gypsy
sea hanger
sea hare
sea hawk
sea hay
sea heath
sea hedgehog
sea hen
sea herdsman
sea herring
sea hog
sea holly
sea hollyhock
sea holm
sea horse
sea hulver
sea ice
sea island
sea island cotton
sea kale
sea kelps
sea kidney
sea king
sea kittie
sea lace
sea ladder
sea lamprey
sea lane
sea language
sea lark
sea laurel
sea lavender
sea law
sea lawyer
sea league
sea leather
sea legs
sea lemon
sea lentil
sea leopard
sea letter
sea lettuce
sea level
sea light
sea lily
sea line
sea lion
sea lizard
sea loach
sea louse
sea lovage
sea luce
sea lungs
sea lungwort
sea lyme grass
sea magpie
sea mail
sea mallow
sea mantis
sea margin
sea marigold
sea mat
sea matweed
sea meadow
sea membrane
sea mew
sea mile
sea milkwort
sea mink
sea mist
sea monk
sea monster
sea moss
sea moth
sea mouse
sea mud
sea mugwort
sea mulberry
sea mule
sea mullet
sea necklace
sea nettle
sea nymph
sea oak
sea oat
sea of flames
sea of grass
sea of troubles
sea officer
sea onion
sea ooze
sea orach
sea orange
sea ore
sea otter
sea owl
sea oxeye
sea palm
sea panther
sea park
sea parrot
sea parsley
sea parsnip
sea partridge
sea pass
sea pay
sea pea
sea peach
sea pear
sea peat
sea pen
sea perch
sea perils
sea pheasant
sea pie
sea piet
sea pig
sea pigeon
sea pike
sea pimpernel
sea pincushion
sea pine
sea pink
sea plain
sea plantain
sea plume
sea poacher
sea poker
sea poppy
sea porcupine
sea post
sea post office
sea potato
sea power
sea preacher
sea pumpkin
sea purse
sea purslane
sea puss
sea quail
sea radish
sea quail
sea ragweed
sea ragwort
sea ranger
sea rat
sea raven
sea reach
sea reed
sea rim
sea risk
sea risks
sea road
sea robber
sea robin
sea rocket
sea rod
sea room
sea rosemary
sea rover
sea ruffle
sea salmon
sea salt
sea sand
sea sand grass
sea sand reed
sea sandpiper
sea sands
sea sandwort
sea scallop
sea scorpion
sea scout
sea scouting
sea sedge
sea serpent
sea service
sea shell
sea shrub
sea silk
sea sled
sea slope
sea slug
sea smoke
sea snail
sea snake
sea snipe
sea soldier
sea soldiers
sea spear grass
sea spider
sea spirit
sea spleenwort
sea squill
sea squirt
sea stack
sea staff
sea staghorn
sea star
sea starwort
sea steps
sea stickleback
sea stores
sea sulphurweed
sea surgeon
sea swallow
sea swine
sea tangle
sea term
sea thief
sea thong
sea thrift
sea time
sea titling
sea toad
sea tortoise
sea town
sea train
sea travel
sea tree
sea trip
sea trout
sea trumpet
sea turn
sea turnip
sea turtle
sea twine
sea unicorn
sea urchin
sea valve
sea vampire
sea wall
sea walnut
sea wand
sea warfare
sea water
sea wax
sea wheat
sea whip
sea whipcord
sea whiplash
sea whistle
sea widgeon
sea willow
sea withwind
sea wolf
sea woodcock
sea worm
sea wormwood
sea wrack
sea-bank
sea-bathed
sea-bean
sea-beast
sea-beat
sea-beaten
sea-bird
sea-boat
sea-born
sea-borne
sea-bounded
sea-bounding
sea-bred
sea-breeze
sea-broke
sea-built
sea-calf
sea-captain
sea-card
sea-circle
sea-cliff
sea-coal
sea-coast
sea-cock
sea-compelling
sea-convulsing
sea-cow
sea-cut
sea-deep
sea-deserted
sea-devil
sea-divided
sea-dog
sea-dragon
sea-driven
sea-eagle
sea-ear
sea-elephant
sea-encircle
sea-faring
sea-fern
sea-monk
sea-monster
sea-mouse
sea-nymph
sea-otter
sea-otter's-cabbage
sea-packed
sea-parrot
sea-pie
sea-piece
sea-pike
sea-pink
sea-plane
sea-poacher
sea-potent
sea-purse
sea-quake
sea-racing
sea-raven
sea-robin
sea-room
sea-rounded
sea-rover
sea-roving
sea-run
sea-running
sea-sailing
sea-salt
sea-sand
sea-saw
sea-scape
sea-scented
sea-scourged
sea-serpent
sea-service
sea-shell
sea-shore
sea-shouldering
sea-sick
sea-side
sea-slug
sea-snail
sea-snake
sea-snipe
sea-spider
sea-star
sea-surrounded
sea-swallow
seal ring
seal the doom of
seal up
seal your infamy
seal your lips
seal-brown
seal-point
sealed book
sealed move
sealed off
sealed orders
sealed-beam
sealing hole
sealing nut
sealing off
sealing tape
sealing wax
sealing-wax
sealyham terrier
seam blasting
seam face
seam lace
seam presser
seam roller
seam set
seam stitch
seam strip
seam weld
seam welding
seam-rent
seam-ripped
seam-ript
seaman apprentice
seaman branch
seaman gunner
seaman recruit
seaming dies
seaming lace
seamless stockings
seamy-sided
seaplane carrier
sear pin
search coil
search ephemeris
search for
search high heaven
search into
search lamp
search me
search mission
search out
search party
search plane
search radar
search room
search thoroughly
search through
search warrant
search your motives
search your soul
search-and-destroy mission
search-and-destroy operation
searching investigation
searchlight lantern
seared conscience
seashell pink
seashore heliotrope
seashore pea
seaside alder
seaside arrowgrass
seaside aster
seaside balsam
seaside bean
seaside bent
seaside brome grass
seaside crowfoot
seaside daisy
seaside finch
seaside gerardia
seaside goldenrod
seaside grape
seaside heliotrope
seaside knotweed
seaside laurel
seaside millet
seaside morning-glory
seaside oat
seaside oxeye
seaside painted-cup
seaside pea
seaside pimpernel
seaside pine
seaside plantain
seaside plum
seaside poppy
seaside radish
seaside sandwort
seaside sparrow
seaside spurge
season check
season crack
season of the year
season ticket
seasonal unemployment
seasoned hand
seasoned professional
seasoned salt
seasoned stock
seasoned understanding
seasoned veteran
seat angle
seat arm
seat back
seat bath
seat belt
seat board
seat bone
seat clip
seat cover
seat coverer
seat cushion
seat designer
seat maker
seat making
seat of affections
seat of authority
seat of government
seat of justice
seat of life
seat of power
seat of state
seat of thought
seat of war
seat owner
seat worm
seat yourself
seat-mile
seaweed fern
seaweed glue
seaweed green
seaweed isinglass
seaweed marquetry
sebaceous cyst
sebaceous gland
sebaceous glands
sebacic acid
sebi-
seborrheic dermatitis
secale cornutum
seclude yourself
seclusive personality
secobarbital sodium
second axiom of countability
second ballot
second banana
second base
second baseman
second best
second birth
second blessing
second carbon
second category
second chamber
second childhood
second class
second coming
second cousin
second crop
second derivative
second detector
second draft
second edition
second empire
second estate
second fiddle
second floor
second growth
second hand
second helping
second in command
second intention
second job
second law of motion
second law of thermodynamics
second lieutenant
second line of defense
second look
second man
second mate
second mortgage
second mortgage bond
second nature
second-sightedness
second-story
second-story man
second-story thief
second-story work
second-story worker
second-touch
secondary accent
secondary articulation
secondary battery
secondary burial
secondary cell
secondary color
secondary colour
secondary con
secondary condition
secondary contact
secondary diagonal
secondary digestion
secondary disease
secondary eardrum
secondary education
secondary electron
secondary emission
secondary evidence
secondary group
secondary infection
secondary intention
secondary issue
secondary modern school
secondary oocyte
secondary ordinary
secondary phloem
secondary planet
secondary plot
secondary processes
secondary propyl alcohol
secondary quality
secondary radiation
secondary road
secondary school
secondary schooler
secondary sense
secondary sex character
secondary sex characteristic
secondary sexual characteristic
secondary shock
secondary spermatocyte
secondary stress
secondary syphilis
secondary wave
secondary xylem
secondary-emission tube
secondhand clothes
secondhand shop
secondhand store
seconds pendulum
secret agent
secret ballot
secret block
secret caucus
secret exit
secret grip
secret heart
secret ink
secret language
secret nailing
secret name
secret order
secret partner
secret passage
secret place
secret places
secret police
secret recesses of the heart
secret service
secret society
secret staircase
secret thoughts
secret writing
secret-false
secret-service
secretarial school
secretaries-general
secretary bird
secretary bookcase
secretary of legation
secretary of state
secretary-general
secretary-treasurer
secreto-inhibitory
section bar
section boss
section crew
section cutter
section eight
section gang
section hand
section line
section man
section mark
section mill
section modulus
section paper
section plane
sector disk
sector gear
sector wheel
secular canoness
secular humanism
secular humanist
secular tertiaries
secular vicar
secure place in history
secure the engines
secure the main induction
secure your object
secured bond
secured loan
securi-
securities issue
security agreement
security analyst
security blanket
security clearance
security council
security force
security guard
security risk
sed-festival
sedan chair
sedan clock
sedan cruiser
sedan delivery truck
sedan landaulet
sedan limousine
sedative salt
sedge bird
sedge cane
sedge family
sedge fly
sedge grass
sedge hen
sedge root
sedge warbler
sedge wren
sediment bulb
sediment yeast
sedimentary clay
sedimentary rock
sedimentation coefficient
sedimentation test
sedition-proof
seduction-proof
see about
see action
see active duty
see after
see ahead
see as it really is
see at a glance
see badly
see beforehand
see both sides
see both sides of the question
see but one side of the question
see combat
see daylight
see double
see eye to eye
see fit
see how the cat jumps
see how the cookie crumbles
see how the land lies
see how the wind blows
see if one can do
see in a special light
see in its true colors
see in one's mind
see in perspective
see in retrospect
see in the crystal ball
see into
see it out
see it through
see justice done
see life
see nothing
see nuances of difference
see of
see off
see only the good points of
see out
see over
see poorly
see red
see shades of difference
see that
see the cloven hoof
see the difference
see the future
see the inside of
see the light
see the light of day
see the lions
see the sights
see the special circumstances
see through
see through a glass
see through rose-colored glasses
see through the press
see to
see to it
see to the bottom of
see visions and dream dreams
see what can be done
see what you can do
see which way the cat jumps
see which way the land lies
see which way the wind blows
see with half an eye
see with your own eyes
see you
see you alone
see you later
see you redressed
see you righted
see you through
see your way
see your way clear
see-bright
see-er
see-ho
see-through
seed ball
seed beetle
seed capsule
seed coat
seed coral
seed corn
seed cotton
seed crown
seed down
seed feed cup
seed fern
seed fish
seed hair
seed leaf
seed mesquite
seed money
seed oil cake
seed oyster
seed pearl
seed plant
seed planter
seed plants
seed plat
seed plate
seed plot
seed plow
seed pod
seed potato
seed screener
seed snipe
seed stitch
seed stock
seed tick
seed treatment
seed tree
seed vessel
seed weevil
seed-cake
seed-corn
seed-corn maggot
seed-eating bird
seed-lac
seed-lip
seed-pearl
seed-snipe
seed-time
seeding plow
seedtime of life
seeing as how
seeing distinctions
seeing double
seeing eye
seeing glass
seeing that
seek for
sseek gapeseed
seek in law
seek justice
seek legal redress
seek out
seek peace
seek refuge
seek the company of
seek to
seek-sorrow
seem like
seem likely
seem to be
seem true
seenie bean
seep in
seer-fish
segment gear
segment rack
segmental arch
segmental phoneme
segmental saw
segmentation cavity
segmentation nucleus
segmentation sphere
sego lily
sei whale
seidlitz powders
seif dune
seine gang
seir-fish
seis-ing
seismic wave
seismo-
seize on
seize one of the facts
seize power
seize quartiers
seize the crown
seize the day
seize the mantle
seize the meaning
seize the mind
seize the present hour
seize the throne
seize upon
seize your mind
<table>
<thead>
<tr>
<th>Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>self-abandoningly</td>
</tr>
<tr>
<td>self-abandonment</td>
</tr>
<tr>
<td>self-abased</td>
</tr>
<tr>
<td>self-abasement</td>
</tr>
<tr>
<td>self-abasing</td>
</tr>
<tr>
<td>self-abdication</td>
</tr>
<tr>
<td>self-abhorrence</td>
</tr>
<tr>
<td>self-abhorring</td>
</tr>
<tr>
<td>self-ability</td>
</tr>
<tr>
<td>self-abnegating</td>
</tr>
<tr>
<td>self-abnegation</td>
</tr>
<tr>
<td>self-abnegatory</td>
</tr>
<tr>
<td>self-abominating</td>
</tr>
<tr>
<td>self-abomination</td>
</tr>
<tr>
<td>self-absorbed</td>
</tr>
<tr>
<td>self-absorption</td>
</tr>
<tr>
<td>self-abuse</td>
</tr>
<tr>
<td>self-abuser</td>
</tr>
<tr>
<td>self-accorded</td>
</tr>
<tr>
<td>self-accusation</td>
</tr>
<tr>
<td>self-accusative</td>
</tr>
<tr>
<td>self-accusatory</td>
</tr>
<tr>
<td>self-accused</td>
</tr>
<tr>
<td>self-accuser</td>
</tr>
<tr>
<td>self-accusing</td>
</tr>
<tr>
<td>self-acknowledged</td>
</tr>
<tr>
<td>self-acquaintance</td>
</tr>
<tr>
<td>self-acquainter</td>
</tr>
<tr>
<td>self-acquired</td>
</tr>
<tr>
<td>self-acquisition</td>
</tr>
<tr>
<td>self-acquitted</td>
</tr>
<tr>
<td>self-acted</td>
</tr>
<tr>
<td>self-acting</td>
</tr>
<tr>
<td>self-action</td>
</tr>
<tr>
<td>self-active</td>
</tr>
<tr>
<td>self-activity</td>
</tr>
<tr>
<td>self-actor</td>
</tr>
<tr>
<td>self-actualization</td>
</tr>
<tr>
<td>self-actualizing</td>
</tr>
<tr>
<td>self-actuating</td>
</tr>
<tr>
<td>self-adapting</td>
</tr>
<tr>
<td>self-adaptive</td>
</tr>
<tr>
<td>self-addiction</td>
</tr>
<tr>
<td>self-addressed</td>
</tr>
<tr>
<td>self-adhesion</td>
</tr>
<tr>
<td>self-adhesive</td>
</tr>
<tr>
<td>self-adjoint</td>
</tr>
<tr>
<td>self-adjustable</td>
</tr>
</tbody>
</table>
self-adjusting
self-adjustment
self-administer
self-administered
self-administering
self-admiration
self-admired
self-admirer
self-admiring
self-admission
self-adorer
self-adorned
self-adorning
self-adornment
self-adulation
self-advanced
self-advancement
self-advancer
self-advancing
self-advantage
self-advantageous
self-advertise
self-advertisement
self-advertiser
self-advertising
self-affair
self-affected
self-affecting
self-affectionate
self-affirmation
self-afflicting
self-affliction
self-afflictive
self-affrighted
self-agency
self-aggrandized
self-aggrandizement
self-aggrandizing
self-aid
self-aim
self-aligning
self-aligning
self-alignment
self-alinement
self-alining
self-amendment
self-amplifier
self-amputation
self-amusement
self-analysis
self-analytical
self-analyzed
self-anatomy
self-angry
self-annealing
self-annihilated
self-annihilation
self-annulling
self-answering
self-antithesis
self-apparent
self-applauding
self-applause
self-applausive
self-application
self-applied
self-applying
self-appointed
self-appointment
self-appreciating
self-appreciation
self-approbation
self-approval
self-approved
self-approver
self-approving
self-arched
self-arching
self-arising
self-asserting
self-assertingly
self-assertion
self-assertive
self-assertively
self-assertiveness
self-assertory
self-assigned
self-assumed
self-assuming
self-assumption
self-assurance
self-assured
self-assuredness
self-attachment
self-attracting
self-attraction
self-attractive
self-attribution
self-auscultation
self-authority
self-authorized
self-authorizing
self-aware
self-awareness
self-bailing
self-balanced
self-banished
self-banishment
self-baptizer
self-basting
self-beautiful
self-beauty
self-bedizenment
self-befooled
self-begetter
self-begotten
self-beguiled
self-being
self-belief
self-benefit
self-benefiting
self-besot
self-betrayal
self-betrayed
self-betraying
self-betrothed
self-bias
self-binder
self-binding
self-black
self-blame
self-blamed
self-blessed
self-blind
self-blinded
self-blinding
self-blood
self-boarding
self-boasted
self-boasting
self-boiled
self-bored
self-born
self-buried
self-burning
self-called
self-cancelled
self-cancelled
self-canting
self-capacity
self-captivity
self-care
self-castigating
self-castigation
self-catalysis
self-catalyst
self-catering
self-causation
self-caused
self-center
self-centered
self-centered self-contained
self-centeredly
self-centeredness
self-centering
self-centerment
self-centralization
self-cenration
self-centred
self-centredly
self-centredness
self-chain
self-changed
self-changing
self-charging
self-charity
self-chastise
self-chastised
self-chastisement
self-chastising
self-cheatery
self-checking
self-chosen
self-christened
self-clamp
self-cleaning
self-clearance
self-closed
self-closing
self-cocker
self-cocking
self-cognition
self-cognizably
self-cognizance
self-coherence
self-coiling
self-collected
self-collectedness
self-collection
self-color
self-colored
self-colour
self-coloured
self-combating
self-combustion
self-command
self-commande
self-commendation
self-comment
self-commissioned
self-commitment
self-committal
self-committing
self-commune
self-communed
self-communication
self-communicative
self-communing
self-communion
self-comparison
self-compassion
self-compatible
self-compensation
self-competition
self-complacence
self-complacency
self-complacent
self-complacential
self-complacently
self-complaisance
self-completion
self-composed
self-composedly
self-composedness
self-comprehending
self-comprised
self-conceit
self-conceited
self-conceitedly
self-conceitedness
self-conceived
self-concentered
self-concentrated
self-concentration
self-concept
self-concern
self-concerned
self-concerning
self-concernment
self-condemnable
self-condemnant
self-condemnation
self-condemnatory
self-condemned
self-condemnedly
self-condemning
self-condemningly
self-conditioned
self-conditioning
self-conduct
self-confessed
self-confession
self-confidence
self-confident
self-confidently
self-confiding
self-confinement
self-confining
self-conflict
self-conflicting
self-conformance
self-confounding
self-confuted
self-congratulating
self-congratulation
self-congratulatory
self-conjugate
self-conjugately
self-conjugation
self-conquest
self-conscious
self-consciously
self-consciousness
self-consecration
self-consequence
self-consequent
self-conservation
self-conservative
self-conserving
self-consideration
self-considerative
self-considering
self-consistency
self-consistent
self-consistently
self-consoling
self-consolingly
self-constituted
self-constituting
self-consultation
self-consumed
self-consuming
self-consumption
self-contained
self-contained ornament
self-containedly
self-containedness
self-containing
self-containment
self-contaminating
self-contamination
self-contemmer
self-contemplation
self-contempt
self-content
self-contented
self-contentedly
self-contentedness
self-contentment
self-contracting
self-contraction
self-contradicter
self-contradicting
self-contradiction
self-contradictory
self-control
self-controlled
self-controller
self-controlling
self-convened
self-converse
self-convicted
self-convicting
self-conviction
self-cooking
self-cooled
self-correcting
self-correction
self-corrective
self-correspondent
self-corresponding
self-corrupted
self-counsel
self-coupler
self-covered
self-cozening
self-created
self-creating
self-creation
self-creative
self-credit
self-credulity
self-cremation
self-critical
self-critically
self-criticism
self-cruel
self-cruelty
self-cultivation
self-culture
self-culturist
self-cure
self-cutting
self-damnation
self-danger
self-deaf
self-debasement
self-debasing
self-debate
self-deceit
self-deceitful
self-deceitfulness
self-deceived
self-deceiver
self-deceiving
self-deception
self-deceptious
self-deceptive
self-declared
self-declaredly
self-dedicated
self-dedication
self-defeated
self-defeating
self-defence
self-defencive
self-defended
self-defense
self-defensive
self-defensory
self-defining
self-definition
self-deflated
self-deflation
self-degradation
self-deifying
self-dejection
self-delation
self-delight
self-delighting
self-deliverer
self-delivery
self-deluded
self-deluder
self-deluding
self-delusion
self-demagnetizing
self-denial
self-denied
self-deniedly
self-denier
self-denying
self-denyingly
self-dependence
self-dependency
self-dependent
self-dependently
self-depending
self-depraved
self-deprecating
self-deprecatingly
self-deprecation
self-depreciating
self-depreciation
self-depreciative
self-deprivation
self-deprived
self-depriving
self-derived
self-desertion
self-deserving
self-design
self-designer
self-desirable
self-desire
self-despair
self-destad
self-destroyed
self-destroyer
self-destroying
self-destruction
self-destructive
self-destructive urge
self-destructively
self-detaching
self-determination
self-determined
self-determining
self-determinism
self-detraction
self-developing
self-development
self-devised
self-devoted
self-devotedly
self-devotedness
self-devotement
self-devoting
self-devotion
self-devotional
self-devouring
self-dialog
self-dialogue
self-differentiating
self-differentiation
self-diffidence
self-diffident
self-diffusion
self-diffusive
self-diffusively
self-diffusiveness
self-digestion
self-dilated
self-dilation
self-diminishment
self-direct
self-directed
self-directing
self-direction
self-directive
self-distrusting
self-disunity
self-divided
self-division
self-doctrine
self-dominance
self-domination
self-dominion
self-donation
self-doomed
self-dosage
self-doubt
self-doubting
self-dramatization
self-dramatizing
self-drawing
self-drinking
self-drive
self-driven
self-dropping
self-drown
self-dual
self-dualistic
self-dubbed
self-dumping
self-duplicating
self-duplication
self-ease
self-easing
self-eating
self-educated
self-education
self-effacement
self-effacing
self-effacingly
self-effacingness
self-effacive
self-effort
self-elaborated
self-elaboration
self-elation
self-elect
self-elected
self-election
self-elective
self-emitted
self-emolument
self-employed
self-employed person
self-employer
self-employment
self-emptiness
self-emptying
self-enamored
self-enamoured
self-enclosed
self-endeared
self-endearing
self-endearment
self-energizing
self-energizing brake
self-energy
self-enforcing
self-engrossed
self-engrossment
self-enjoyment
self-enriching
self-enrichment
self-entertaining
self-entertainment
self-entity
self-erected
self-escape
self-essence
self-essentiated
self-esteem
self-esteeming
self-esteemingly
self-estimate
self-estimation
self-estrangement
self-eternity
self-evacuation
self-evaluation
self-evidence
self-evidencing
self-evidencingly
self-evident
self-evident fact
self-evident truth
self-evidential
self-evidentism
self-evidently
self-evidentness
self-evolution
self-evolved
self-evolving
self-exaggerated
self-exaggeration
self-exaltation
self-exaltative
self-exalted
self-exalting
self-examinant
self-examination
self-examiner
self-examining
self-example
self-excellency
self-excitation
self-excite
self-excited
self-exciter
self-exciting
self-exclusion
self-exculpation
self-excuse
self-excused
self-excusing
self-executing
self-exertion
self-exhibited
self-exhibition
self-exile
self-exiled
self-exist
self-existence
self-existent
self-existing
self-expanded
self-expanding
self-expansion
self-expatriation
self-experience
self-experienced
self-explained
self-explaining
self-explanation
self-explanatory
self-explication
self-exploited
self-exploiting
self-exposed
self-exposing
self-exposure
self-expression
self-expressive
self-expressiveness
self-extermination
self-extolled
self-exultation
self-exulting
self-faced
self-fame
self-farming
self-fearing
self-fed
self-feed
self-feeder
self-feeding
self-feeling
self-felicitative
self-felony
self-fermentation
self-fertile
self-fertility
self-fertilization
self-fertilize
self-fertilized
self-fertilizer
self-figure
self-figured
self-filler
self-filling
self-fitting
self-flagellating
self-flagellation
self-flattered
self-flatterer
self-flattering
self-flattery
self-flowing
self-fluxing
self-focused
self-focusing
self-focussed
self-focussing
self-folding
self-fondest
self-fondness
self-forbidden
self-forgetful
self-forgetfully
self-forgetfulness
self-forgetting
self-forgettingly
self-formation
self-formed
self-forsaken
self-fountain
self-friction
self-frighted
self-fruitful
self-fruition
self-fulfilling
self-fulfillment
self-fulfilment
self-furnished
self-furring
self-gaging
self-gain
self-gathered
self-gauging
self-generated
self-generating
self-generation
self-generative
self-given
self-giving
self-glazed
self-glazing
self-glorification
self-glorified
self-glorifying
self-glorious
self-glory
self-glorying
self-good
self-gotten
self-govern
self-governed
self-governing
self-governing dominion
self-government
self-gracious
self-gratification
self-gratulating
self-gratulatingly
self-gratulation
self-gratulatory
self-guard
self-guarded
self-guidance
self-guiltiness
self-guiltless
self-guilty
self-gullery
self-hammered
self-hang
self-hardened
self-hardening
self-harming
self-hate
self-hating
self-hatred
self-heal
self-healing
self-heating
self-help
self-helpful
self-helpfulness
self-helping
self-helpless
self-heterodyne
self-hid
self-hidden
self-hitting
self-holiness
self-homicide
self-honored
self-honoured
self-hood
self-hope
self-humbling
self-humiliating
self-humiliation
self-hypnosis
self-hypnotic
self-hypnotism
self-hypnotization
self-hypnotized
self-idea
self-identical
self-identification
self-identity
self-idolater
self-idolatry
self-idolized
self-idolizing
self-ignite
self-ignited
self-igniting
self-ignition
self-ignorance
self-ignorant
self-ill
self-illumined
self-illuminative
self-image
self-imitation
self-immolating
self-immolation
self-immunity
self-immurement
self-immuring
self-impairable
self-impairing
self-impartation
self-imparting
self-impedance
self-importance
self-important
self-importantly
self-imposed
self-imposed duty
self-impotence
self-impotent
self-impregnated
self-impregnating
self-impregnation
self-impregnator
self-improvable
self-improvement
self-improver
self-improving
self-impulsion
self-inclosed
self-inclusive
self-inconsistency
self-inconsistent
self-incriminating
self-incrimination
self-incurred
self-indignation
self-induced
self-inductance
self-induction
self-inductive
self-indulged
self-indulgence
self-indulgent
self-indulgently
self-indulger
self-indulging
self-infatuated
self-infatuation
self-infection
self-inflation
self-inflicted
self-infliction
self-initiated
self-initiative
self-injuries
self-injurious
self-injury
self-inker
self-inking
self-inoculated
self-inoculation
self-insignificance
self-inspected
self-inspection
self-instructed
self-instructing
self-instruction
self-instructional
self-instructor
self-insufficiency
self-insurance
self-insured
self-insurer
self-integrating
self-integration
self-intelligible
self-intensified
self-intensifying
self-intent
self-interest
self-interested
self-interestedness
self-interpretative
self-interpreted
self-interpreting
self-interpretive
self-interrogation
self-interrupting
self-intersecting
self-intoxication
self-introduction
self-intruder
self-invented
self-invention
self-invited
self-involution
self-involved
self-ionization
self-ironies
self-irony
self-irrecoverable
self-irrecoverableness
self-irreformable
self-issued
self-issuing
self-jealous
self-jealousing
self-jealousy
self-judged
self-judgement
self-judging
self-judgment
self-justification
self-justified
self-justifier
self-justifying
self-killed
self-killer
self-killing
self-kindled
self-kindness
self-knowing
self-knowledge
self-known
self-lacerating
self-laceration
self-lashing
self-laudation
self-laudatory
self-lauding
self-learn
self-left
self-leveler
self-leveling
self-leveller
self-levelling
self-levied
self-levitation
self-life
self-light
self-lighting
self-liking
self-limitation
self-limited
self-limiting
self-liquidating
self-liquidating loan
self-lived
self-loader
self-loading
self-loading dam
self-loathing
self-locating
self-locking
self-lost
self-love
self-lover
self-loving
self-lubricated
self-lubricating
self-lubrication
self-luminescence
self-luminescent
self-luminosity
self-luminous
self-maceration
self-mad
self-made
self-mailer
self-mailing
self-maimed
self-maintained
self-maintaining
self-maintenance
self-making
self-manifest
self-manifestation
self-mapped
self-martyrdom
self-mastered
self-mastering
self-mastery
self-mate
self-matured
self-measurement
self-mediating
self-merit
self-minded
self-mistrust
self-misused
self-mortification
self-mortified
self-motion
self-motive
self-moved
self-movement
self-mover
self-moving
self-multiplied
self-multiplying
self-murder
self-murdered
self-murderer
self-mutilation
self-named
self-naughting
self-neglect
self-neglectful
self-neglectfulness
self-neglecting
self-nourished
self-nourishing
self-nourishment
self-objectification
self-oblivion
self-oblivious
self-observation
self-observed
self-obsessed
self-obsession
self-occupation
self-occupied
self-offence
self-offense
self-offered
self-offering
self-oiling
self-opened
self-opener
self-opening
self-perfectibility
self-perfecting
self-perfectionment
self-performed
self-permission
self-perpetuated
self-perpetuating
self-perpetuation
self-perplexed
self-persuasion
self-physicking
self-pictured
self-pious
self-piquer
self-pitiful
self-pitifulness
self-pity
self-pitying
self-pityingly
self-planted
self-player
self-playing
self-pleached
self-pleased
self-pleaser
self-pleasing
self-pointed
self-poise
self-poised
self-poisedness
self-poisoner
self-polar triangle
self-policing
self-policy
self-politician
self-pollinate
self-pollinated
self-pollination
self-polluter
self-pollution
self-portrait
self-portraitist
self-posed
self-posited
self-positing
self-possessed
self-possessedly
self-possessing
self-possession
self-posting
self-postponement
self-potence
self-potential method
self-powered
self-praise
self-praising
self-precipitation
self-preference
self-preoccupation
self-preparation
self-prepared
self-prescribed
self-presentation
self-presented
self-preservation
self-preservation
self-preserving
self-preservingly
self-pretended
self-pride
self-primed
self-primer
self-priming
self-prizing
self-proclaimer
self-proclaimed
self-proclaiming
self-procured
self-procurement
self-procuring
self-proditoriously
self-produced
self-production
self-professed
self-profit
self-projection
self-pronouncing
self-propagated
self-propagating
self-propagation
self-propelled
self-propelled barge
self-propellant
self-propeller
self-propelling
self-propulsion
self-protecting
self-protection
self-protective
self-proving
self-provision
self-pruning
self-puffery
self-punished
self-punisher
self-punishing
self-punishment
self-punitive
self-purification
self-purifying
self-purity
self-quenched counter
self-question
self-questioned
self-questioning
self-quotiation
self-raised
self-raising
self-rake
self-rating
self-reacting
self-reading
self-realization
self-realizationism
self-realizationist
self-realizing
self-reciprocal
self-reckoning
self-recollection
self-recollective
self-reconstruction
self-recording
self-recrimination
self-rectifying
self-reduction
self-reduplication
self-reference
self-refinement
self-refining
self-reflection
self-reflective
self-reflexive
self-reform
self-reformation
self-refuted
self-refuting
self-regard
self-regardant
self-regarding
self-regardless
self-regardlessly
self-regardlessness
self-registering
self-registering barometer
self-registering thermometer
self-registration
self-regulate
self-regulated
self-regulating
self-regulating market
self-regulation
self-regulative
self-regulatory
self-relation
self-reliance
self-reliant
self-reliantly
self-relish
self-relying
self-renounced
self-renunciation
self-renunciatory
self-repeating
self-repellency
self-repellent
self-repelling
self-repetition
self-repose
self-representation
self-repressed
self-repressing
self-repression
self-reproach
self-reproached
self-reproachful
self-reproachfulness
self-reproaching
self-reproachingly
self-reproachingness
self-reproducing
self-reproduction
self-reproof
self-reproval
self-reproved
self-reproving
self-reprovingly
self-repugnance
self-repugnancy
self-repugnant
self-repulsive
self-reputation
self-rescuer
self-resentment
self-resigned
self-resourceful
self-resourcefulness
self-respect
self-respectful
self-respectfulness
self-respecting
self-respectingly
self-resplendent
self-responsibility
self-restoring
self-restrained
self-restraining
self-restraint
self-restricted
self-restriction
self-retired
self-revealed
self-revealing
self-revealment
self-revelation
self-revelative
self-revelatory
self-reverence
self-reverent
self-reward
self-rewarded
self-rewarding
self-right
self-righteous
self-righteously
self-righteousness
self-righter
self-righting
self-rigorous
self-rising
self-rolled
self-roofed
self-ruin
self-ruined
self-rule
self-ruling
self-sacrifice
self-sacrificer
self-sacrificial
self-sacrificing
self-sacrificingly
self-sacrificingness
self-safety
self-same
self-sanctification
self-satirist
self-satisfaction
self-satisfied
self-satisfiably
self-satisfying
self-satisfyingly
self-scanned
self-schooled
self-schooling
self-science
self-scorn
self-scourging
self-scrutinized
self-scrutinizing
self-scrutiny
self-sealer
self-sealing
self-searching
self-secure
self-security
self-sedimentation
self-sedimented
self-seeded
self-seeker
self-seeking
self-seekingness
self-selection
self-sent
self-sequestered
self-serve
self-server
self-service
self-serving
self-set
self-severe
self-shadowed
self-shadowing
self-shelter
self-sheltered
self-shine
self-shining
self-shooter
self-shot
self-significance
self-similar
self-sinking
self-slain
self-slaughter
self-slaughtered
self-slayer
self-society
self-sold
self-solicitude
self-soothed
self-soothing
self-sophistication
self-sought
self-sounding
self-sovereignty
self-sow
self-sowed
self-sown
self-spaced
self-spacing
self-speech
self-spitted
self-sprung
self-stability
self-stabilized
self-stabilizing
self-starter
self-starting
self-starved
self-steered
self-sterile
self-sterility
self-stimulated
self-stimulating
self-stimulation
self-stowing
self-survey
self-surveyed
self-surviving
self-survivor
self-suspended
self-suspicion
self-suspicious
self-sustained
self-sustaining
self-sustainingly
self-sustainment
self-sustenance
self-sustentation
self-sway
self-tapping
self-tapping screw
self-taught
self-taught man
self-taught person
self-taxation
self-taxed
self-teacher
self-teaching
self-tempted
self-tenderness
self-terminating
self-terminative
self-testing
self-thinking
self-thinning
self-thought
self-threading
self-tightening
self-timer
self-tipping
self-tire
self-tired
self-tiring
self-tolerant
self-tolerantly
self-toning
self-torment
self-tormented
self-tormenter
self-tormenting
self-tormentingly
self-tortmentor
self-torture
self-tortured
self-torturing
self-trained
self-training
self-transformation
self-transformed
self-treated
self-treatment
self-trial
self-triburating
self-troubled
self-troubling
self-trust
self-trusting
self-tuition
self-uncertain
self-unconscious
self-understand
self-understanding
self-understood
self-undoing
self-unfruitful
self-uniform
self-union
self-unity
self-unloader
self-unloading
self-unscabbarded
self-unveiling
self-unworthiness
self-upbraiding
self-usurp
self-validating
self-valuation
self-valued
self-valuing
self-variance
self-variation
self-varying
self-vaunted
self-vaunting
self-vendition
self-ventilated
self-vexation
self-view
self-vindicated
self-vindicating
self-vindication
self-violence
self-violent
self-vivacious
self-vivisector
self-vulcanizing
self-want
self-wardness
self-warranting
self-watchfulness
self-weariness
self-weary
self-weight
self-weighted
self-whipper
self-whipping
self-whole
self-widowered
self-will
self-willed
self-willedly
self-willedness
self-winding
self-wine
self-wisdom
self-wise
self-witness
self-witnessed
self-working
self-worn
self-worship
self-worshiper
self-worshiping
self-worshipper
self-worshipping
self-worth
self-worthiness
self-wounded
self-wounding
self-writing
self-written
self-wrong
self-wrongly
self-wrought
selfish person
self-liquidating loan
sell a pig in a poke
sell at a loss
sell at a sacrifice
sell at auction
sell by auction
sell down the river
sell for
sell foreign
sell gold bricks
sell in futures
sell off
sell on consignment
sell on credit
sell one on
sell out
sell over
sell over the counter
sell retail
sell short
sell stocks
sell to the highest bidder
sell under the counter
sell up
sell wholesale
sell you a bill of goods
sell your life dearly
sell yourself
sell-off
seller's round
seller four
seller's market
sellers' market
selling account
selling agent
selling point
selling price
selling race
selling-plater
seltzer water
semantic cluster
semantic field
semantic history
semantic tone
semantic unit
semaphore flag
semaphore plant
semaphore telegraph
semasiological unit
semei-
semen cinae
semen contra
semester hour
semi-
semi-Augustinianism
semi-abstract
semi-abstraction
semi-annual
semi-arian
semi-aridity
semi-armor-piercing
semi-chorus
semi-circle
semi-cubical
semi-demi-
semi-detached
semi-diesel
semi-diurnal
semi-double
semi-form
semi-idiocy
semi-idiotic
semi-idleness
semi-ignorance
semi-illiteracy
semi-illiterate
semi-illiterately
semi-illiterateness
semi-illuminated
semi-imbricated
semi-immersed
semi-impressionistic
semi-incandescent
semi-independence
semi-independent
semi-independently
semi-indirect
semi-indirectly
semi-indirectness
semi-inductive
semi-indurate
semi-indurated
semi-industrial
semi-industrialized
semi-industrially
semi-inertness
semi-infidel
semi-infinite
semi-inhibited
semi-inhibition
semi-insoluble
semi-instinctive
semi-instinctively
semi-instinctiveness
semi-insular
semi-intellectual
semi-intellectualized
semi-intellectually
semi-intelligent
semi-intelligently
semi-intercostal
semi-internal
semi-internalized
semi-internally
semi-interosseous
semi-intoxication
semi-intrados
semi-invalid
semi-inverse
semi-ironic
semi-ironical
semi-ironically
semi-isolated
semi-learning
semi-lune
semi-mat
semi-matte
semi-metal
semi-nocturnal
semi-opal
semi-ped
semi-pelagian
semi-private room
semi-saxon
semi-unabridged dictionary
semi-uncial
semiRussian
semai-air-cooled
semai-automatic control
semai-automatic rifle
semai-breve rest
semi-circular canal
semi-circular canals
semi-classical music
semi-co-operative
semi-colon butterfly
semi-conductor circuit
semi-conductor device
semiconductor physics
semidrying oil
semilatus rectum
semilunar valve
semimajor axis
semiminor axis
seminal duct
seminal fluid
seminal imagination
seminal principle
semiotic unit
semipalmated plover
semipalmated sandpiper
semiprecious stone
semirigid airship
semisimple algebra
semiswater gas
semor sem
semper eadem
semper et ubique
semper fidelis
semper idem
semper paratus
semper-
sem robber
senate house
senate-house
senator-elect
senatorial courtesy
senatorial district
senatus consult
senatus consultum
send a letter to
send a note
send a statement
send a wire
send about your business
send abroad
send after
send away
send back
send down
send flying
send for
send forth
send headlong
send in
send in your papers
send mad
send off
send on a fool's errand
send on a mission
send out
send out of your mind
send out rays
send round
send scuttling
send sprawling
send to Coventry
send to Davy Jones's locker
send to glory
send to hell
send to jail
send to kingdom come
send to school
send to sleep
send to the bottom
send to the gas chamber
send to the right-about
send to the showers
send to your last account
send up
send up a prayer
send up a trial balloon
send up the river
send word
send you spinning
send your compliments
send your condolences
send your regards
send-off
send-out
sending abroad
sending back
sending set
sending station
sending to Coventry
seneca oil
seneca snakeroot
senega root
senega snakeroot
seneka root
seneka snakeroot
sengreen saxifrage
senile debility
senile dementia
senile psychosis
senile weakness
senility necrosis
senior checker
senior chief petty officer
senior citizen
senior citizenship
senior common room
senior high
senior high school
senior master sergeant
senior officer
senior securities
seniority rule
senna family
senna tree
sensation level
sensation-proof
sensational play
sense datum
sense faculty
sense finder
sense form
sense group
sense impression
sense of duty
sense of hearing
sense of humor
sense of humour
sense of indebtedness
sense of language
sense of mystery
sense of obligation
sense of relief
sense of rhythm
sense of right and wrong
sense of sight
sense of smell
sense of taste
sense of the meeting
sense of touch
sense of wonder
sense organ
sense perception
sense pleasure
sense stress
sense survival
sense-bereaving
sense-bound
sense-confounding
sense-confusing
sense-data
sense-datum
sense-distracted
sense-ravishing
sensible note
sensible of
sensible price
sensible to
sensible horizon
sensitive area
sensitive ear
sensitive fern
sensitive heart
sensitive plant
sensitive to
sensitivity to
sensitivity training
sensitizing antibody
sensitol green
sensitometric curve
sensory aid
sensory area
sensory awareness training
sensory cell
sensory deprivation
sensory epilepsy
sensory experience
sensory neuron
sensory organ
sensory paralysis
sensory pattern
sensual pleasure
sensum theory
sensuous desire
sensuous pleasure
sensus communis
sentence accent
sentence adverb
sentence balance
sentence building
sentence connector
sentence fragment
sentence making
sentence method
sentence modifier
sentence monger
sentence of death
sentence pattern
sentence stress
sentence structure
sentence substitute
sentence tone
sentential calculus
sentential connective
sentential function
sententious expression
sententious saying
sentiment-proof
sentimental comedy
sentimental novel
sentimental value
sentinel crab
sentry board
sentry box
sentry go
sentry-box
sentry-fashion
sentry-go
separate forcibly
separate from the service
separate identity
separate involuntarily
separate maintenance
separate out
separate person
separate returns
separate school
separate the men from the boys
separate yourself
separated brother
separating funnel
separating power
separation allowance
separation center
separation energy
separation from the service
separation layer
separation negative
separation of attention
separation of powers
separation theorem
separatory funnel
sepia paper
sepia-colored
sepia-eyed
sepia-tinted
seppa dai
sept chord
septal cartilage
septal neck
septem-
septi-
septal poisoning
septic sore throat
septic tank
septicemic plag
septicemic plague
septifragal dehiscence
septo-
septuple time
sequence flasher
sequence flashers
sequence of ideas
sequence of phonemes
sequence of tenses
sequence of thought
sequence switch
sequential access
sequential system
sequentially compact set
sequester yourself
sequoia pitch moth
serbo-
serbo-croatian
sergeant armorer
sergeant at arms
sergeant at law
sergeant bugler
sergeant clerk
sergeant cook
sergeant drummer
sergeant first class
sergeant fish
sergeant footman
sergeant instructor
sergeant major
sergeant painter
sergeant porter
sergeant saddler
sergeant schoolmaster
sergeant tailor
sergeant trumpet
sergeant trumpeter
sergeant-at-arms
sergeant-at-law
sergeant-major
sergeant-majorship
sergeants major
serial bond
serial correlation
serial epilepsy
serial number
serial operation
serial order
serial polygamy
serial right
serial technique
sericin gum
sericite gneiss
sericite schist
series dynamo
series motor
series multiple
series parallel
series resonance
series spectra
series turn
series winding
series-wound
serin finch
serio-
serio-comic
serious drinker
serious drinking
serious literature
serious music
serious operation
serious-minded
serious-mindedly
serious-mindedness
serjeant at arms
serjeant at law
serjeant-at-law
sermon bell
sermon on the mount
sero-
seroplastic inflammation
serous fluid
serous gland
serous inflammation
serous membrane
serpent cucumber
serpent cult
serpent eagle
serpent eater
serpent fern
serpent fish
serpent gourd
serpent grass
serpent melon
serpent moss
serpent radish
serpent star
serpent stone
serpent-god
serpent-goddess
serpent-shaped
serpent-stone
serpentine front
serpentine green
serpentine marble
serpentine stretcher
serran imperial
serrana hispana
serrated-ciliate
serrate-dentate
serrato-
serre-papier
serri-
serum albumin
serum anaphylaxis
serum death
serum disease
serum gamma globulin
serum globulin
serum hepatitis
serum jaundice
serum prothrombin accelerator
serum shock
serum sickness
serum therapy
serum transfusion
servant girl
servant of God
servant of the servants of God
serve Mammon
serve an apprenticeship
serve as
serve in the capacity of
serve in the office of
serve in your stead
serve notice
serve one out
serve out
serve the office of
serve the purpose
serve time
serve with the colors
serve you right
serve your need
serve-out
service ace
service aircraft
service area
service battery
service book
service box
service brake
service break
service buzzer
service call
service cap
service ceiling
service charge
service clasp
service club
service company
service court
service door
service elevator
service engineer
service entrance
service flag
service flat
service hat
service industry
service line
service magazine
service mark
service medal
service module
service of music
service of song
service pension
service pipe
service plate
service road
service side
service side line
service squadron
service stair
service station
service stripe
service switch
service tree
service troop
service uniform
service wall
servient tenement
servile work
serving cart
serving girl
serving hatch
serving knife
serving mallet
serving man
serving pantry
serving stuff
serving table
servo amplifier
servo brake
servo control
servo engineer
servo engineering
servo instrumentation
servo laboratory
servo regulator
servo system
servo tab
servo valve
servo-
servo-control
servo-controlled
servo-motor
servo-pilot
sesame grass
sesame oil
sesame seeds
sesamoid bones
sesqui-
esequipedalian word
sessile oak
sessile-eyed
sessile-flowered
sessile-fruited
sessile-leaved
sessional indemnity
set a course
set a limit
set a new mark
set a price on
set a question
set a stopping place
set a task
set a trap for
set a value on
set about
set above
set abroach
set afloat
set against
set against one another
set agoing
set an anchor watch
set an arbitrary price on
set an end point
set an examination
set an example
set apart
set aside
set astir
set at
set at defiance
set at each other's throat
set at ease
set at hazard
set at intervals
set at large
set at liberty
set at naught
set at odds
set at rest
set at variance
set at your throat
set attention to
set back
set bar
set before
set before yourself
set book
set by
set by the ears
set chisel
set conditions
set designer
set down
set down as
set down for
set down for hearing
set down to
set eyes on
set fast
set fire to
set foot in
set foot on
set foot on dry land
set for
set form
set forth
set forward
set free
set function
set gauge
set going
set gun
set hammer
set her down
set hook
set hurdles
set in
set in contrast
set in motion
set in opposition
set in order
set in print
set in the tablets of memory
set in towards
set in your ways
set iron
set limits
set little by
set mind
set naught by
set no store by
set nut
set of conditions
set of postulates
set of rooms
set of teeth
set of the current
set of three
set of two
set off
set off against
set off for
set off to advantage
set off to good advantage
set on
set on edge
set on fire
set on foot
set on its base
set on its beam ends
set on its feet
set on its legs
set on your feet
set on your legs
set one back
set one's face against
set out
set out for
set over against
set over against one another
set phrase
set piece
set pin
set point
set pot
set purpose
set right
set sail
set shot
set side by side
set someone on his feet
set speech
set square
set store by
set straight
set task
set temper
set term
set terms
set the Thames on fire
set the brain to work
set the date
set the echoes ringing
set the fashion
set the law at defiance
set the law at naught
set the limit
set the mind to
set the mood
set the pace
set the price tag too high
set the river on fire
set the stage
set the style
set the table on a roar
set the teeth on edge
set the time
set the tone
set the wits to work
set the world on fire
set theory
set to
set to music
set to one side
set to rights
set to sleep
set to the account of
set to work
set toward
set tub
set type
set up
set up for
set up housekeeping
set up in business
set up shop
set upon
set upon on all sides
set width
set with thorns
set your back against the wall
set your cap at
set your cap for
set your compass for
set your course for
set your dignity aside
set your dignity to one side
set your face against
set your foot down
set your foot down on
set your hand and seal
set your hand to
set your heart against
set your heart at rest
set your heart on
set your heart upon
set your house in order
set your jaw
set your mind at ease
set your mind at rest
set your mind upon
set your seal
set your shoulder to the wheel
set your sights on
set your teeth
set your teeth on edge
set your thoughts on
set your wits to work
set yourself against
set-
set-aside
set-back
set-down
set-fair
set-hands
set-in
set-in sleeve
set-off
set-out
set-stitched
set-to
set-up
set-up board
set-upness
seti-
setoff sheet
sett beater
settee bed
settee rig
setter-forth
setter-in
setter-on
setter-out
setter-to
setter-up
setting apart
setting aside
setting at liberty
setting block
setting board
setting circle
setting coat
setting day
setting dog
setting free
setting gauge
setting hen
setting in motion
setting lotion
setting node
setting point
setting pole
setting punch
setting rule
setting stake
setting stick
setting sun
setting-free
setting-out
setting-to
setting-up
setting-up exercise
setting-up exercises
settle a score
settle accounts
settle accounts with
settle at
settle bed
settle differences
settle down
settle for
settle in
settle into
settle it
settle on
settle preliminaries
settle the land
settle the matter
settle the score
settle to rest
settle to sleep
settle upon
settle with
settle your differences
settle your hash
settle your mind
settle- abide
settle-bench
settle-brain
settle-down
settled belief
settled in habit
settled judgment
settled principle
settled production
settled purpose
settled soap
settled upon
settlement day
settlement house
settlement lease
settlement option
settlement sheet
settlement worker
settling clerk
settling day
settling price
seven deadly sins
seven o'clock
seven principles of man
seven sacraments
seven seas
seven sisters
seven sleepers
seven stars
seven year
seven-banded
seven-branched
seven-caped
seven-card stud
seven-channeled
seven-chorded
seven-cornered
seven-day
seven-eleven
seven-eyed
seven-eyes
seven-figure
seven-foot
seven-footer
seven-formed
seven-gated
seven-gilled
seven-hand
seven-headed
seven-hilled
seven-hilly
seven-holes
seven-horned
seven-inch
seven-league
seven-league boots
seven-leaved
seven-line
seven-masted
seven-mouthed
seven-nerved
seven-ounce
seven-part
seven-part time
seven-piled
seven-ply
seven-point
seven-point circle
seven-poled
seven-pronged
seven-quired
seven-sealed
seven-shilling
seven-shooter
seven-sided
seven-sisters
seven-spot
seven-spotted
seven-syllabled
seven-thirties
seven-thirty
seven-thorned
seven-tined
seven-toned
seven-twined
seven-twisted
seven-up
seven-year
seven-year itch
seventeen-hundreds
seventeen-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
seventh-day
seventy-day
seventy-dollar
seventy-eight
seventy-eighth
seventy-fifth
seventy-first
seventy-five
seventy-foot
seventy-footer
seventy-four
seventy-fourth
seventy-horse
seventy-mile
seventy-nine
seventy-ninth
seventy-odd
seventy-one
seventy-second
seventy-seven
seventy-seventh
seventy-six
seventy-sixth
seventy-third
seventy-three
seventy-ton
seventy-two
seventy-year
several times
several-celled
several-flowered
several-fold
several-lobed
several-nerved
several-ribbed
severance pay
severance tax
severe check
sew up
sewage disposal
sewage disposable
sewer brick
sewer builder
sewer gas
sewer pipe
sewer rat
sewing awl
sewing basket
sewing bench
sewing bird
sewing board
sewing cabinet
sewing circle
sewing class
sewing cotton
sewing machine
sewing needle
sewing press
sewing room
sewing school
sewing silk
sewing society
sewing table
sewing teacher
sewing thread
sewing tray
sewing twine
sewing wire
sewing woman
sewing work
sewing-machine needle
sex act
sex appeal
sex behavior
sex cell
sex characteristic
sex chromosome
sex crime
sex criminal
sex deviant
sex deviate
sex discrimination
sex drive
sex fiend
sex goddess
sex hormone
sex hygiene
sex kitten
sex linkage
sex object
sex organ
sex organs
sex pervert
sex queen
sex ratio
sex-
sex-intergrade
sex-limited
sex-linkage
sex-linked
sex-starved
sexagesimal scale
sexagesimal system
sexagesimo-quarto
sexed-up
sexi-
sextant altitude
sexto-decimo
sexton beetle
sextuple press
sextuple time
sexual abnormality
sexual abstinence
sexual advance
sexual approach
sexual assault
sexual attraction
sexual attractiveness
sexual climax
sexual commerce
sexual congress
sexual customs
sexual desire
sexual deviance
sexual deviant
sexual deviate
sexual deviation
sexual excitement
sexual freedom
sexual generation
sexual infantilism
sexual innocence
sexual instinct
sexual intercourse
sexual inversion
sexual invitation
sexual longing
sexual love
sexual magnetism
sexual morality
sexual mores
sexual normality
sexual overture
sexual passion
sexual pathology
sexual perversion
sexual pervert
sexual pleasure
sexual possession
sexual power
sexual practices
sexual precocity
sexual preference
sexual psychopath
sexual psychopathy
sexual relations
sexual reproduction
sexual revolution
sexual selection
sexual union
sexual urge
sexually abstinent
sexually excited
sexually innocent
sexy body
sh-sh
shab-rag
shabby-genteel
shabby-gentility
shack bait
shack up
shackle bar
shackle bolt
shackle insulator
shackle joint
shad fly
shad frog
shad scale
shad spirit
shad tree
shad-bellied
shad-belly
shad-blow
shade deck
shade into
shade of difference
shade off
shade pine
shade plant
shade tree
shade-bearing
shade-enduring
shade-giving
shade-grown
shade-loving
shade-seeking
shades and shadows
shades below
shades of death
shading amplifier
shading coil
shadow band
shadow bird
shadow box
shadow cabinet
shadow compass
shadow cone
shadow dance
shadow fight
shadow figure
shadow forth
shadow line
shadow mask
shadow nucleus
shadow of death
shadow of doubt
shadow pantomime
shadow pin
shadow play
shadow show
shadow skirt
shadow stitch
shadow stop
shadow test
shadow-box
shadow-mask kinescope
shadowed forth
shadows numberless
shady dealings
shady reputation
shaft alley
shaft efficiency
shaft eye
shaft feather
shaft furnace
shaft governor
shaft grave
shaft grave tomb
shaft head
shaft horse
shaft horsepower
shaft house
shaft key
shaft sinker
shaft tackle
shaft tug
shaft tunnel
shaft-rubber
shaft-straightener
shaftfoot man
shafting lathe
shag ass
shag rug
shag-haired
shag-rag
shagbark hickory
shaggy cap
shaggy dog story
shaggy-barked
shaggy-bearded
shaggy-bodied
shaggy-coated
shaggy-dog story
shaggy-fleeced
shaggy-footed
shaggy-haired
shaggy-leaved
shaggy-mane
shaggy-mane mushroom
shaggy-maned
shake a leg
shake all over
shake bolt
shake culture
shake down
shake hands
shake hands and kiss babies
shake hands on
shake hands with
shake hands with yourself
shake in your boots
shake in your shoes
shake it up
shake like an aspen leaf
shake like jelly
shake off
shake off the yoke
shake on it
shake the dust from your feet
shake the head
shake the windows
shake up
shake with laughter
shake your faith
shake your fist at
shake your hand
shake your head
shake your head at
shake-bag
shake-cabin
shake-down
shake-hands
shake-out
shake-rag
shake-up
shakebag club
shakebag match
shakedown artist
shakedown cruise
shaken up
shaking of hands
shaking palsy
shaking prairie
shaking pudding
shaking table
shaky health
shalach manosh
shale green
shale naphtha
shale oil
shale spirit
shallot sauce
shallow structure
shallow water
shallow-bottomed
shallow-brained
shallow-draft
shallow-footed
shallow-forded
shallow-headed
shallow-hulled
shallow-minded
shallow-mindedness
shallow-pated
shanks's pony
shanty boat
shanty boy
shanty-boater
shape a course
shape note
shape out a course
shape shifting
shape target
shape the hair
shape up
shape your course for
shape-knife
shape-shifting
shape-up
shaped charge
shaped note
shaping dies
shaping imagination
shaping planer
shard beetle
shard-born
shard-borne
share and share alike
share around
share beam
share certificate
share crop
share head
share in
share ledger
share out
share premium
share register
share tenant
share with
share your bed and board
share your grief
share your sorrow
share-out
shared pair
sharing of grief
sharing of sorrow
sharing out
shark barrow
shark bell
shark moth
shark net
shark oil
shark patrol
shark pilot
shark ray
shark siren
shark sucker
shark-liver
shark-liver oil
sharkskin pahoehoe
sharp air
sharp as a needle
sharp as a razor
sharp as a tack
sharp as a two-edged sword
sharp as broken glass
sharp cash
sharp cedar
sharp dock
sharp ear
sharp edge
sharp eye
sharp freezing
sharp frost
sharp iron
sharp look
sharp mixture
sharp pain
sharp practice
sharp sand
sharp sight
sharp wind
sharp words
sharp-angled
sharp-ankled
sharp-back
sharp-back shark
sharp-backed
sharp-beaked
sharp-bellied
sharp-billed
sharp-biting
sharp-bottomed
sharp-breasted
sharp-clawed
sharp-cornered
sharp-cut
sharp-cutting
sharp-eared
sharp-edged
sharp-elbowed
sharp-eye
sharp-eyed
sharp-eyes
sharp-faced
sharp-fanged
sharp-featured
sharp-flavored
sharp-freeze
sharp-freezer
sharp-freezing
sharp-froze
sharp-frozen
sharp-fruitied
sharp-gritted
sharp-ground
sharp-headed
sharp-heeled
sharp-horned
sharp-keeled
sharp-leaved
sharp-looking
sharp-minded
sharp-nebbied
sharp-nosed
sharp-nosed shark
sharp-nosedly
sharp-nosedness
sharp-odored
sharp-petaled
sharp-piercing
sharp-piled
sharp-pointed
sharp-quilled
sharp-ridged
sharp-set
sharp-setness
sharp-shinnned
sharp-shinnned hawk
sharp-sighted
sharp-sightedly
sharp-sightedness
sharp-smelling
sharp-smitten
sharp-snouted
sharp-staked
sharp-staring
sharp-tailed
grouped
grouped sparrow
grouped-tasted
grouped-tasting
grouped-tempered
grouped-toed
grouped-tongued
grouped-toothed
grouped-toothed unkindness
grouped-topped
grouped-visaged
grouped-whetted
grouped-winged
grouped-witted
grouped-wittedly
grouped-wittedness
sharpen a distinction
sharpen the wits
sharpen your tools
sharper than a serpent's tooth
sharptail mola
shatter your hopes
shattered mind
shattered nerves
shave away
shave grass
shave hook
shave off
shave rush
shaving basin
shaving board
shaving box
shaving brush
shaving case
shaving cream
shaving cup
shaving dies
shaving glass
shaving horse
shaving mill
shaving mirror
shaving mug
shaving paper
shaving paste
shaving powder
shaving set
shaving soap
shaving stand
shaving stick
shaving strop
shaving towel
shaving water
shawl collar
shawl goat
shawl loom
shawl material
shawl pattern
shawl strap
shawl waistcoat
she all
she pitch pine
she teak
she-actor
she-adventurer
she-ape
she-apostle
she-ass
she-baker
she-balsam
she-bear
she-beech
she-captain
she-chattel
she-costermonger
she-cousin
she-demon
she-devil
she-dragon
she-fish
she-foal
she-fool
she-fox
she-friend
she-goat
she-god
she-gypsy
she-ironbark
she-kind
she-king
she-lion
she-malady
she-monster
she-negro
she-oak
she-page
she-panther
she-peace
she-pig
she-pine
she-poet
she-poetry
she-preacher
she-priest
she-relative
she-saint
she-salmon
she-school
she-scoundrel
she-society
she-sparrow
she-sun
she-thief
she-tongue
she-villain
she-whale
she-witch
she-wolf
she-woman
shea butter
shea tree
shea-nut
shea-nut oil
sheaf arrow
sheaf catalogue
shear angle
shear boom
shear hulk
shear legs
shear modulus
shear pin
shear plane
shear skid
shear steel
shear strain
shear stress
shear structure
shear transformation
shear zone
shear-grass
shear-legs
shearing deformation
shearing dies
shearing force
shearing machine
shearing plane
shearing punch
shearing stress
shearing tool
sheath gown
sheath knife
sheath moth
sheath pieffield
sheath pile
sheath-fish
sheath-winged
sheathe the sword
sheathing board
sheathing copper
sheathing felt
sheathing lead
sheathing lumber
sheathing nail
sheathing paper
sheave hole
shed a luster on
shed blood
shed burn
shed dormer
shed fresh light upon
shed hand
shed ink
shed light upon
shed luster on
shed new light upon
shed of
shed roof
shed tears
shed-builder ant
sheeling hill
sheep bar
sheep barn
sheep bell
sheep bot
sheep botfly
sheep boy
sheep breeder
sheep breeding
sheep bur
sheep clipper
sheep clipping
sheep dip
sheep's eye
sheep's eyes
sheep's fescue
sheep's head
sheep's sorrel
sheep's-bit
sheep-biter
sheep-dip
sheep-grazing
sheep-hued
sheep-kneed
sheep-lice
sheep-root
sheep-shearer
sheep-shearing
sheep-sick
sheep-spirited
sheep-tick
sheep-white
sheep-witted
sheepdog trial
sheepshead minnow
sheepshead porgy
sheepwool sponge
sheer batten
sheer boom
sheer chemistry
sheer draft
sheer drawing
sheer hook
sheer leg
sheer legs
sheer line
sheer off
sheer plan
sheer pole
sheer ratline
sheer stockings
sheer strake
sheer thursday
sheer-built
sheer-hulk
sheer-off
sheet anchor
sheet bend
sheet bundler
sheet cable
sheet chain
sheet down
sheet erosion
sheet film
sheet glass
sheet home
sheet iron
sheet lightning
sheet metal
sheet mill
sheet mold
sheet music
sheet of fire
sheet of rain
sheet pavement
sheet pile
sheet piling
sheet steel
sheet tin
sheet watermark
sheet writer
sheet-anchor
sheet-block
sheet-fed
sheet-fed press
sheeting pile
sheld-duck
shelf bracket
shelf catalogue
shelf fungus
shelf ice
shelf ladder
shelf life
shelf list
shelf mark
shelf plate
shelf rest
shelf warmer
shelf-room
shell auger
shell back
shell bark
shell bean
shell bit
shell boiler
shell button
shell carver
shell cast
shell chuck
shell construction
shell couching
shell crest
shell cut
shell dove
shell down
shell drill
shell edging
shell expansion
shell eye
shell feed
shell fire
shell game
shell gland
shell gray
shell heap
shell hole
shell hooks
shell ibis
shell ice
shell jacket
shell limestone
shell marble
shell money
shell mound
shell out
shell parakeet
shell pear
shell pink
shell plating
shell pump
shell quail
shell reamer
shell reducer
shell road
shell room
shell ruching
shell sac
shell shock
shell snail
shell socket
shell steak
shell stitch
shell strake
shell transformer
shell turtle
shell-carving
shell-fish
shell-leaf
shell-less
shell-like
shell-shaped
shell-shock
shell-shocked
shell-worker
shelly pahoehoe
shelter belt
shelter cabin
shelter deck
shelter half
shelter pit
shelter tent
shelter trench
shelter under
shelter-deck vessel
sheltering trust
shelterwood method
shelving beach
shenk beer
shepherd dog
shepherd god
shepherd king
shepherd spider
shepherd's check
shepherd's dial
shepherd's dog
shepherd's needle
shepherd's pie
shepherd's pipe
shepherd's plaid
shepherd's purse
shepherd's staff
shepherd's weatherglass
shepherd's-purse
shepherd's-scabious
shepherds-staff
sherbet powder
shere khan
sheriff court
sheriff depute
sheriff substitute
sheriff-pink
sherry brown
sherry cobbler
shetland pony
shetland sheepdog
shetland wool
shibuichi-doshi
shick-shack
shield arm
shield back
shield bearer
shield bud
shield budding
shield bug
shield cell
shield fern
shield fungus
shield grid
shield roots
shield wall
shield-back
shield-bearer
shield-bearing
shield-breaking
shield-fern
shield-headed
shield-leaved
shield-maiden
shield-scale fungus
shield-shaped
shield-tailed snake
shield-shuffling
shift about
shift ballast
shift bid
shift boss
shift for yourself
shift into
shift joint
shift key
shift lock
shift marriage
shift of structure
shift of tense
shift off
shift place
shift the blame
shift the control
shift the responsibility
shift the rudder
shift the scene
shift with
shift your ground
shifter fork
shifting course
shifting cultivation
shifting path
shifting pedal
shifting sands
shifting scene
shifting spanner
shifting trust
shifting use
shifty-eyed
shih-tzu
shilling mark
shilling shocker
shilly-shallied
shilly-shallies
shilly-shally
shilly-shallyer
shilly-shallying
shilly-shallyingly
shim plow
shim-sham
shimmer with heat
shin guard
shin oak
shin up
shin-bone
shin-tangle
shindig dancer
shine a light
shine at
shine brightly
shine forth
shine in
shine out
shine through
shine up to
shine upon
shiner perch
shiner sea perch
shiner-up
shingle band
shingle bolt
shingle lap
shingle oak
shingle roof
shingle tree
shingle weaver
shingle-backed
shining example
shining flycatcher
shining from shook foil
shining light
shining oat grass
shining willow
shiny-backed
ship ahoy
ship auger
ship biscuit
ship boat
ship borer
ship breaker
ship broker
ship canal
ship carpenter
ship carpentry
ship chandler
ship chandlery
ship control
ship decanter
ship fever
ship head
ship joiner
ship ladder
ship letter
ship money
ship news
ship oars
ship of state
ship of the desert
ship of the line
ship of war
ship out
ship part
ship pendulum
ship pound
ship railway
ship rat
ship rigger
ship room
ship route
ship splice
ship stuff
ship time
ship tire
ship writ
ship's biscuit
ship's boat
ship's boy
ship's carpenter
ship's company
ship's cooper
ship's husband
ship's log
ship's officer
ship's papers
ship's ropes
ship's service
ship's tailor
ship's watch
ship's writer
ship-chandler
ship-holder
ship-load
ship-minded
ship-mindedly
ship-mindedness
ship-money
ship-of-war
ship-rigged
ship-shape
ship-shaped
ship-to-shore
ship-to-shore radio
shipboard interceptor
shipboard plane
shiplapped lumber
shipper fork
shipping articles
shipping center
shipping clerk
shipping commissioner
shipping fever
shipping mark
shipping master
shipping note
shipping office
shipping order
shipping pneumonia
shipping room
shipping ton
shipping-dry
shipplane carrier
shipshape and Bristol fashion
shire borough
shire day
shire ground
shire horse
shire knight
shire moot
shire reeve
shire town
shire-moot
shirley poppy
shirred eggs
shirt board
shirt dresser
shirt frame
shirt frill
shirt front
shirt ironer
shirt sleeve
shirt-dress
shirt-sleeve
shirt-sleeve diplomacy
shirt-sleeved
shirt-tail
shirtwaist dress
shirtwaist suit
shish kebab
shit in your pants
shit-headed
shittah tree
shittim wood
shive wheel
shiver my timbers
shiver spar
shoal duck
shoal water
shock absorber
shock action
shock battalion
shock bump
shock cord
shock corps
shock dog
shock force
shock pad
shock reaction
shock soldier
shock tactics
shock therapy
shock treatment
shock troops
shock tube
shock wave
shock-bucker
shock-dog
shock-head
shocking pink
shoe blacking
shoe block
shoe board
shoe boil
shoe bolt
shoe box
shoe buckle
shoe button
shoe cleaner
shoe dauber
shoe dealer
shoe department
shoe drill
shoe dye
shoe fastener
shoe findings
shoe last
shoe laster
shoe leather
shoe lifter
shoe machinery
shoe mender
shoe merchant
shoe nail
shoe peg
shoe piece
shoe polish
shoe polisher
shoe repaired
shoe shiner
shoe silver
shoe stone
shoe store
shoe tie
shoe tree
shoe trimmer
shoe-button spider
shoe-cleaning
shoe-horn
shoe-leather
shoe-make
shoe-spoon
shoeblack plant
shoeing-horn
shoeless horse
shoestring catch
shoestring fern
shoestring fungus
shoestring lily
shoestring margin
shoestring potato
shoestring weed
shoggy-shoo
shoo-fly pie
shoo-in
shoofly finger
shoofly pie
shook swarming
shook up
shook-up
shoot ahead
shoot ahead of
shoot apex
shoot at
shoot back
shoot ballast
shoot craps
shoot down
shoot down in flames
shoot for
shoot full of holes
shoot into space
shoot it out with
shoot off at an angle
shoot off your face
shoot off your mouth
shoot out
shoot out rays
shoot questions at
shoot straight
shoot straight with
shoot the breeze
shoot the bull
shoot the chutes
shoot the shit
shoot the sun
shoot the works
shoot through
shoot to death
shoot up
shoot your bolt
shoot your cookies
shoot-'em-up
shoot-off
shoot-out
shoot-root ratio
shoot-the-chutes
shooting board
shooting box
shooting brake
shooting coat
shooting fish
shooting gallery
shooting glove
shooting iron
shooting jacket
shooting lodge
shooting match
shooting pain
shooting range
shooting script
shooting star
shooting stick
shooting up
shooting war
shop around
shop assistant
shop at
shop bill
shop chairman
shop clerk
shop committee
shop complex
shop deputy
shop drawing
shop fitter
shop floor
shop lumber
shop paper
shop right
shop rivet
shop steward
shop-board
shop-made
shop-soiled
shop-window
shopping cart
shopping center
shopping centre
shopping complex
shopping goods
shopping mall
shopping plaza
shopping precinct
shopping spree
shore bird
shore boat
shore boulder
shore cod
shore cover
shore crab
shore dinner
shore fast
shore grape
shore grass
shore lark
shore leave
shore line
shore onion
shore party
shore patrol
shore pay
shore pine
shore pipit
shore snipe
shore spurge
shore terrace
shore up
shore whiting
shore-going
shored up
shorn of
short account
short allowance
short and
short and sweet
short answer
short ballot
short bill
short bob
short circuit
short column
short commons
short covering
short cross
short cut
short demy
short distance
short division
short duration
short end
short extension
short field
short fuse pepperiness
short game
short haul
short hundredweight
short interest
short iron
short jenny
short leet
short leg
short line
short list
short loin
short measure
short memory
short memory span
short odds
short of
short of breath
short of cash
short of funds
short of luck
short of money
short of wind
short on looks
short order
short out
short pants
short particular meter
short period
short piece
short plate
short position
short range aid to navigation
short rations
short rib
short ribs
short sale
short score
short seller
short session
short short story
short shorts
short shrift
short side
short sight
short snorter
short spell
short splice
short step
short stock
short story
short subject
short suit
short supply
short sweetening
short temper
short time
short title
short ton
short up
short version
short vowel
short wave
short way
short weight
short wool
short-arm
short-arm balance
short-arm blow
short-armed
short-awned
short-barred
short-barreled
short-beaked
short-bearded
short-billed
short-bitten
short-bladed
short-bobbed
short-bodied
short-branched
short-bread
short-breasted
short-breathed
short-breathing
short-cake
short-celled
short-laid
short-landed
short-lasting
short-leaf
short-leaved
short-legged
short-limbed
short-lined
short-list
short-lived
short-livedness
short-living
short-long
short-lunged
short-made
short-manned
short-measured
short-mouthed
short-nailed
short-napped
short-necked
short-nighted
short-nosed
short-order
short-order cook
short-period comet
short-period variable
short-pitch
short-pitch winding
short-podded
short-pointed
short-quartered
short-range
short-run
short-running
short-set
short-shafted
short-shanked
short-shelled
short-shipped
short-short
short-shouldered
short-shucks
short-sighted
short-sightedness
short-skirted
short-sleeved
short-sleeved shirt
short-sloped
short-snouted
short-span
short-spined
short-spined sea scorpion
short-spired
short-spoken
short-spurred
short-staffed
short-stalked
short-staple
short-staple isinglass
short-statured
short-stemmed
short-stepped
short-stop
short-stop bath
short-story
short-story writer
short-story writing
short-styled
short-suiter
short-sword
short-tailed
short-tailed shrew
short-tempered
short-term
short-term bond
short-term loan
short-term memory
short-term note
short-tempered
short-time
short-time rating
short-toed
short-tongued
short-toothed
short-trunked
short-trussed
short-twisted
short-waisted
short-wall machine
short-weight
short-weighter
short-winded
short-windedly
short-windedness
short-winged
short-witted
short-wool
short-wooled
short-wristed
shorten sail
shortened version
shortest way
shortfin corvina
shorthand typist
shortleaf pine
shortleaf yellow pine
shortness of breath
shortstop bath
shortwave antenna
shortwave band
shortwave broadcasting
shortwave diathermy
shortwave diathermy machine
shortwave radio
shortwave receiver
shortwave signal
shortwave station
shortwave transmitter
shot borer
shot bort
shot cartridge
shot corn
shot crossbow
shot drill
shot effect
shot garland
shot glass
shot hoist
shot hole
shot holing
shot hooks
shot in the arm
shot in the dark
shot in the locker
shot lighter
shot line
shot locker
shot metal
shot noise
shot plant
shot put
shot rope
shot samples
shot silk
shot through
shot to pieces
shot tongs
shot tower
shot-blasting
shot-clog
shot-free
shot-gun
shot-hole borer
shot-log
shot-peen
shot-put
shot-putter
shot-putting
shot-silk
shot-stiffened
shot-stiffened
shotgun marriage
shotgun microphone
shotgun pattern
shotgun wedding
shoten down
should want
should-be
shoulder a gun
shoulder angle
shoulder arm
shoulder arms
shoulder bag
shoulder bar
shoulder belt
shoulder blade
shoulder block
shoulder board
shoulder bone
shoulder brace
shoulder clod
shoulder flash
shoulder girdle
shoulder gun
shoulder knot
shoulder loop
shoulder mark
shoulder note
shoulder pad
shoulder patch
shoulder point
shoulder screw
shoulder sleeve insignia
shoulder slip
shoulder strap
shoulder to shoulder
shoulder tuft
shoulder weapon
shoulder-blade
shoulder-bone
shoulder-clap
shoulder-clapper
shoulder-high
shoulder-hitter
shoulder-knot
shoulder-piece
shoulder-shotten
shoulder-strap
shouldered arch
shout at the top of your voice
shout defiance
shout down
shout from the housetops
shout hallelujah
shout hosanna
shout of laughter
shout out
shout song
shouting distance
shove aside
shove away
shove in your oar
shove off
shove the queer
shove-groat
shove-ha'penny
shove-halfpenny
shove-hapenny
shoved joint
shovel cultivator
shovel hat
shovel plow
shovel-beaked
shovel-bladed
shovel-board
shovel-footed
shovel-handed
shovel-hatted
shovel-headed
shovel-mouthed
shovel-nose
shovel-nosed
shovel-nosed duck
shovel-nosed ray
shovel-nosed shark
shovel-nosed sturgeon
shovel-shaped
shovelhead catfish
shovelhead shark
shovelnose sturgeon
shoving match
show a bold front
show a clean pair of heels
show a deficit
show a direction
show a lack of respect for
show a leg
show a light pair of heels
show a proper spirit
show a set
show a tendency
show a trend
show aptitude for
show bill
show biz
show box
show business
show card
show consideration
show copy
show dahlia
show disrespect for
show distaste for
show dog
show end
show expertise
show fight
show forth
show fragility
show geranium
show girl
show glass
show how
show improvement
show in the best colors
show its colors
show its face
show kindness to
show marks of age
show mercy
show no amazement
show no appetite
show no mercy
show of hands
show of joy
show off
show one's cards
show one's face
show place
show pipe
show pity
show preference
show resentment
show respect
show respect for
show ring
show sensitivity
show signs of
show signs of life
show someone the door
show stone
show stopper
show sufficient grounds for
show tact
show talent for
show the door
show the gate
show the heels
show the way
show the white feather
show the white flag
show through
show trial
show up
show up late
show what you have
show window
show you your place
show your age
show your authority
show your cards
show your colors
show your face
show your hand
show your heels to
show your mind
show your teeth
show your true colors
show yourself
show-bread
show-me
show-off
show-offish
show-offy
show-through
show-worthy
shower bath
shower bouquet
shower curtain
shower down
shower down upon
shower head
shower room
shower stall
shower-bath
showing for all to see
showing forth
showing up
showing-off
shown up
showy crab apple
showy gaillardia
showy mentzelia
showy milkweed
showy orchis
showy portulaca
showy primrose
showy sunflower
showy-flowered
showy-leaved
shred of comfort
shred-pie
shrew mole
shrewd-brained
shrewd-headed
shrewd-looking
shrewd-pated
shrewd-tongued
shrewd-witted
shriek owl
shriek-owl
shrift-father
shrike thrush
shrike tit
shrill sound
shrill-edged
shrill-gorged
shrill-toned
shrill-tongued
shrill-voiced
shrimp catcher
shrimp pink
shrimp red
shrink back
shrink fit
shrink from
shrink link
shrink rule
shrink-wrap
shrinkage fit
shrinkage rule
shrinkage stope
shrinking fit
shrinking head
shrinking violet
shrive yourself
shrivel up
shriveled up
shroud knot
shroud line
shroud lines
shroud plate
shroud-laid
shrouded in darkness
shrouded in mystery
shrouded spirit
shrove monday
shrove sunday
shrove tuesday
shrove-tide
shroving time
shrub cinquefoil
shrub mallow
shrub oak
shrub steppe
shrub willow
shrub yellowroot
shrubby cinquefoil
shrug away
shrug it off
shrug off
shrug the shoulders
shrug your shoulders at
shuck off
shuck spray
shuck-bottom
shudder at
shudder of the flesh
shuffle along
shuffle off
shuffle off this mortal coil
shuffle on
shuffle out of
shuffle scale
shuffle the cards
shuffle-board
shun companionship
shun-pike
shunt circuit
shunt dynamo
shunt excitation
shunt field
shunt lamp
shunt lead
shunt motor
shunt valve
shunt winding
shunt-wound
shunting engine
shunting off
shut down
shut down on
shut fast
shut in
shut it down
shut mind
shut my mouth
shut of
shut of day
shut off
shut out
shut the door
shut the door in your face
shut the door to
shut the door upon
shut the eyes of your mind
shut the eyes to
shut tight
shut up
shut up shop
shut your bazoo
shut your doors
shut your ears
shut your eyes
shut your eyes to
shut your face
shut your mouth
shut your trap
shut yourself up
shut-away
shut-eye
shut-in
shut-in personality
shut-mouthed
shut-off
shut-out
shut-out bid
shut-up
shutter box
shutter dam
shutter speed
shutter weir
shutting post
shutting stile
shutting up
shutting-in
shuttle armature
shuttle bombing
shuttle bone
shuttle box
shuttle diplomacy
shuttle flights
shuttle loading
shuttle race
shuttle raid
shuttle rocket
shuttle service
shuttle shell
shuttle train
shuttle trip
shuttle winding
shuttle-core
shuttle-core magneto
shuttle-witted
shuttle-wound
shuttlecock-flower
shutur sower
shy at
shy away
shy of
shy of belief
shy off
shy on
shy person
si quaeris peninsulam amo
si quis
siamese cat
siamese connection
siamese joint
siamese twin
sibber sauce
sibby bean
siberian brown
siberian husky
sic at
sic on
sic passim
sic semper tyrannis
sic transit gloria mundi
sicca rupee
sick abed
sick and tired of
sick as a dog
sick at heart
sick at the stomach
sick bay
sick berth
sick call
sick fancy
sick flag
sick headache
sick humor
sick in the head
sick joke
sick leave
sick list
sick market
sick mind
sick nurse
sick of
sick on each other
sick pay
sick person
sick to the stomach
sick to your stomach
sick unto death
sick up
sick-abed
sick-bed
sick-brained
sick-fallen
sick-feathered
sick-in
sick-list
sick-nurse
sick-nursish
sick-out
sick-pale
sick-thoughted
sicken at
sicken for
sicken of
sicken with
sickle bar
sickle bender
sickle cell
sickle cell anaemia
sickle cell anemia
sickle cell disease
sickle feather
sickle ham
sickle herb
sickle hock
sickle medick
sickle of Death
sickle senna
sickle thorn
sickle-billed
sickle-billed curlew
sickle-billed thrasher
sickle-cell
sickle-cell anemia
sickle-cell disease
sickle-grass
sickle-hammed
sickle-hocked
sickle-leaved
sickle-like
sickle-shaped
sickle-tailed
sickly hue
sickly-born
sickly-colored
sickly-looking
side meat
side mirror
side oats
side of bacon
side of controversy
side partner
side path
side prime
side reaction
side remark
side road
side room
side scene
side sewing
side step
side stitch
side street
side suit
side table
side thread stitch
side whisker
side whiskers
side wire stitch
side with
side-bar
side-bar keel
side-bar rule
side-beam engine
side-bended
side-bone
side-box
side-by-side
side-by-sideness
side-cast
side-chain theory
side-cut
side-door
side-dress
side-dressed
side-dressing
side-end
side-end line
side-flowing
side-glance
side-graft
side-handed
side-hanging
side-kick
side-lever
side-lever engine
side-light
side-line
side-liner
side-look
side-looker
side-lying
side-necked
side-on
side-post
side-saddle
side-seen
side-show
side-skip
side-slip
side-splitting
side-step
side-stepped
side-stepper
side-stepping
side-stick
side-stitched
side-table
side-taking
side-track
side-valve engine
side-view
side-walk
side-wall
side-wheel
side-wheeler
side-whiskered
side-whiskers
side-wind
side-winded
side-winder
sidearm heater
sidelight castle
sidelight tower
sidelong look
sider-
siderating plague
sidereal clock
sidereal day
sidereal hour
sidereal hour angle
sidereal minute
sidereal month
sidereal second
sidereal time
sidereal universe
sidereal year
siderin yellow
sidero-
sidesaddle flower
deslip landing
sidewalk artist
sidewalk bike
sidewalk door
sidewalk elevator
sidewalk salesman
sidewalk superintendent
sideward motion
siding tool
siding track
sidle up to
siege artillery
siege cannon
siege carriage
siege engine
siege gun
siege howitzer
siege mortar
siege perilous
siege piece
siege train
siege wagon
siege warfare
siegfried line
sierra brownbark pine
sierra juniper
sierra plum
sierra redbark pine
sieva bean
sieve cell
sieve disk
sieve maker
sieve making
sieve out
sieve pit
sieve plate
sieve pore
sieve tissue
sieve tube
sieve vessel
sift out
sifting out
sigh for
sigh of relief
sigh-born
sighed-for
sight bill
sight draft
sight edge
sight for sore eyes
sight gag
sight land
sight line
sight on
sight point
sight reader
sight reading
sight rhyme
sight rule
sight screen
sight seeing trip
sight setter
sight unseen
sight vane
sight-feed
sight-hole
sight-read
sight-reader
sight-reading
sight-saver type
sight-see
sight-seeing
sight-seer
sight-shot
sight-unseen transaction
sighting angle
sighting hood
sighting shot
sightless eyes
sigma finite set
sigma particle
sigma-ring
sigmoid flexure
sign a petition
sign and seal
sign away
sign factor
sign for
sign in
sign language
sign manual
sign of aggregation
sign of the cross
sign of the three balls
sign of the times
sign of the zodiac
sign off
sign on
sign on the dotted line
sign out
sign over
sign painter
sign painting
sign up
sign up for
sign your death warrant
sign your note
sign-board
sign-manual
sign-off
sign-post
signal alarm
signal beacon
signal bell
signal board
signal box
signal corps
signal display
signal fades
signal fire
signal flag
signal flare
signal generator
signal gong
signal gun
signal halyard
signal lamp
signal lantern
signal light
signal lights
signal mast
signal modulation
signal multiplier
signal noise ratio
signal of distress
signal oil
signal post
signal red
signal relay
signal rocket
signal separator
signal service
signal shot
signal siren
signal squirter
signal tower
signal whistle
signal wire
signal-noise ratio
signal-to-noise ratio
signature loan
signature mark
signature tune
signed and sealed
signet ring
signet-ring
significance level
significant fact
significant figures
significant form
significate form
signify nothing
signifying nothing
signing on
signs manual
signs of the zodiac
silage cutter
silence cloth
silence of the grave
silence of the tomb
silent area
silent as a post
silent as a stone
silent as the grave
silent as the shadows
silent as the tomb
silent barter
silent butler
silent cataracts
silent chain
silent consent
silent discharge
silent film
silent majority
silent partner
silent poetry
silent prayer
silent service
silent trade
silent treatment
silic-
silica brick
silica gel
silica glass
silica ware
silicate cotton
silicate paint
silicated soap
siliceo-
silici-
silicic acid
silicified wood
silicium bronze
silico-
silicon bronze
silicon carbide
silicon controlled rectifier
silicon copper
silicon dioxide
silicon fluoride
silicon hydride
silicon nitrimide
silicon spiegel
silicon star
silicon steel
silicon tetrachloride
silicon tetraethyl
silicon tetrafluoride
silicone resin
silicone rubber
silk cotton
silk coverer
silk discharger
silk floss
silk fowl
silk gelatin
silk gland
silk glue
silk gown
silk grass
silk green
silk gum
silk hat
silk louse
silk mercer
silk mill
silk moth
silk muslin
silk oak
silk paper
silk plant
silk serge
silk snapper
silk spider
silk spinner
silk stocking
silk stockings
silk stretcher
silk tartan
silk tester
silk thrower
silk throwster
silk tree
silk vine
silk weaver
silk wire
silk-bark
silk-bark oak
silk-cotton
silk-cotton family
silk-cotton tree
silk-family
silk-gownsman
silk-hatted
silk-robed
silk-screen
silk-screen artist
silk-screen printing
silk-screen process
silk-skirted
silk-soft
silk-stocking
silk-stocking district
silk-stocking politics
silk-stocking ward
silk-stockinged
silk-tail
silk-tassel tree
silk-winder
silken repose
silken-coated
silken-fastened
silken-leafed
silken-sailed
silken-sandaled
silken-shining
silken-soft
silken-threaded
silken-winged
silking machine
silkscreen process
silkworm gut
silkworm jaundice
silkworm moth
silkworm rot
silkworm seed
silky anteater
silky camellia
silky cornel
silky grass
silky oak
silky swallowwort
silky terrier
silky-barked
silky-black
silky-haired
silky-leaved
silky-looking
silky-smooth
silky-soft
silky-textured
silky-voiced
sill cock
sill course
sill floor
sill-like
silly Billy
silly about
silly ass
silly grin
silly over
silly season
silly smilesilly-billy
silly-faced
silly-facedly
silly-shally
silo filler
silt grass
silt up
siluro-
silver age
silver bass
silver beard grass
silver bell
silver birch
silver bromide
silver cat
silver certificate
silver chloride
silver citrate
silver cord
silver cyanide
silver dollar
silver fir
silver fish
silver fizz
silver fluoride
silver foil
silver fox
silver frost
silver fulminate
silver gilt
silver grain
silver grass
silver gray
silver green
silver hair
silver hake
silver iodate
silver iodide
silver jenny
silver jubilee
silver king
silver kings
silver lace
silver lactate
silver lead
silver leaf
silver lining
silver maple
silver medal
silver mill
silver mine
silver miner
silver mining
silver morning-glory
silver-shining
silver-smitten
silver-sounded
silver-sounding
silver-spangled
silver-spoon
silver-spoonism
silver-spotted
silver-streaming
silver-striped
silver-studded
silver-sweet
silver-swelling
silver-thread
silver-thread blight
silver-thrilling
silver-tipped
silver-toned
silver-tongue
silver-tongued
silver-tongued orator
silver-true
silver-tuned
silver-using
silver-voiced
silver-washed
silver-winged
silver-wiry
silver-work
silverberry family
silverleaf boree
silverleaf linden
silverleaf maple
silverleaf poplar
silverleaf redwood
silvertop palmetto
silverwing gray
silvery hair
silvery moon
silvi-
simblin cake
simchas torah
simian shelf
similar sound
similar sounding
similarity transformation
simile mark
similia similibus curantur
simmer down
simnel cake
simon legree
simon pure
simon-pure
simple Fink truss
simple algebra
simple algebraic extension
simple arc
simple as ABC
simple assault
simple chancre
simple circularity
simple closed curve
simple contract
simple diet
simple enumeration
simple equation
simple extension
simple fact
simple fraction
simple fracture
simple fruit
simple harmonic motion
simple honors
simple idea
simple inflammation
simple interest
simple interval
simple larceny
simple machine
simple majority
simple measure
simple microscope
simple motion
simple pole
simple protein
simple radical
simple reflex
simple sentence
simple soul
simple syrup
simple tense
simple time
simple transcendental extension
simple twist of the wrist
simple variable
simple vow
simple-armed
simple-faced
simple-headed
simple-hearted
simple-leaved
simple-life
simple-lifer
simple-mannered
simple-minded
simple-mindedly
simple-mindedness
simple-rooted
simple-seeming
simple-speaking
simple-stemmed
simple-toned
simple-tuned
simple-witted
simple-wittedness
simplex method
simplex telegraphy
simply and solely
simply connected
simply ordered
simply ordered set
simply-connected
simulated rank
simultaneous equations
sin against the Holy Ghost
sin eater
sin eating
sin money
sin of Adam
sin of commission
sin of omission
sin of pride
sin offering
sin rent
sin-absolved
sin-absolving
sin-afflicting
sin-black
sin-born
sin-bred
sin-burdened
sin-burthened
sin-chastising
sin-clouded
sin-concealing
sin-condemned
sin-consuming
sin-crushed
sin-drowned
sin-guilty
sin-indulging
sin-laden
sin-loving
sin-mortifying
sin-offering
sin-proud
sin-revenging
sin-sick
sin-sickness
sin-soiling
sin-sowed
sin-thralled
sin-washing
sin-wounded
sinay bean
since God knows when
since Hector was a pup
since days of yore
since long ago
since the world was made
since the world was young
since the year one
since time began
sincere friendship
sindbad the sailor
sine bar
sine curve
sine die
sine galvanometer
sine law
sine mechanism
sine prole
sine qua non
sine wave
sine-qua-nonical
sine-qua-noniness
sine-wave
sinew-backed
sinew-grown
sinew-shrunken
sinful act
sing a different tune
sing a familiar tune
sing deathless songs
sing in chorus
sing in the shrouds
sing out
sing praises
sing small
sing the blues
sing the praise of
sing the praises of
sing the same old song
sing the same old tune
sing your own praises
sing your praises
sing-in
sing-sing
sing-song
singhara nut
singing bird
singing book
singing bread
singing club
singing lesson
singing master
singing part
singing psalm
singing school
singing society
singing teacher
singing voice
single Spanish burton
single bed
single blessedness
single block
single bond
single combat
single condition
single crochet
single cut
single doubler
single entry
single file
single girl
single knot
single man
single messages
single microscope
single mordent
single out
single person
single purchase
single quotation marks
single quotes
single reed
single rhyme
single sap
single sculls
single shell
single sideband
single sideband transmission
single space
single standard
single state
single step rocket
single stitch
single system
single tackle
single tape
single tax
single taxer
single ticket
single transfer
single transferrable vote
single voice
single vote
single voting
single whip
single wicket
single wing
single wingback formation
single woman
single-acting
single-acting engine
single-action
single-action engine
single-bank
single-banked
single-barrel
single-barreled
single-barrelled
single-beat
single-bitted
single-blind
single-blossomed
single-bodied
single-branch
single-breasted
single-breasted jacket
single-breasted suit
single-button carbon microphone
single-caped
single-cell
single-celled
single-chamber
single-colored
single-combed
single-crested
single-crop
single-cross
single-current telegraphy
single-cut
single-cutting
single-cylinder
single-deck
single-decker
single-disk
single-dotted
single-driver
single-edged
single-end
single-ended
single-entry
single-entry accounting
single-entry bookkeeping
single-eyed
single-file
single-filed
single-finned
single-fire
single-flowered
single-foot
single-footer
single-framed
single-fringed
single-gear
single-grown
single-handed
single-handedly
single-handedness
single-hander
single-headed
single-heard
single-heardly
single-hearted
single-heartedness
single-hoofed
single-hooked
single-horned
single-horsed
single-hung
single-jet
single-layer
single-layered
single-leaded
single-leaf
single-leaf ash
single-leaved
single-lens reflex
single-letter
single-lever
single-light
single-line
single-living
single-loader
single-masted
single-measure
single-member
single-member constituency
single-member district
single-minded
single-mindedly
single-mindedness
single-motored
single-mouthed
single-name
single-name paper
single-nerved
single-pass
single-pen
single-phase
single-phase alternating current
single-phase motor
single-phaser
single-piece
single-pitched
single-plated
single-ply
single-pointed
single-pole
single-prop
single-punch
single-rail
single-reed
single-reed instrument
single-reefed
single-rivet
single-riveted
single-row
single-screw
single-seated
single-seater
single-seed
single-seed cucumber
single-seeded
single-shear
single-sheaved
single-shooting
single-shot
single-soled
single-space
single-speech
single-stage
single-stage rocket
single-step
single-stepped
single-stick
single-stitch
single-strand
single-strength
single-stroke
single-surfaced
single-swing
single-swing joint
single-tap
single-tax
single-thoughted
single-threaded
single-throw
single-throw switch
single-tongue
single-tonguing
single-track
single-tree
single-trip
single-trunked
single-twist
single-twisted
single-valued
single-walled
single-wheel
single-wheeled
single-whip
tackle
single-wicket
single-wire
single-wired
dIGNED OUT
singled OUT
single-ness of heart
single-ness of purpose
singles court
singular point
singular proposition
sinister influence
sinister-handed
sinistro-
sink away
sink back
sink boat
sink box
sink down
sink in
sink in the mind
sink into despair
sink into oblivion
sink into the mind
sink like lead
sink money in
sink of corruption
sink of iniquity
sink or swim
sink or swim with
sink your soul
sink-hole
sink-stone
sinker bar
sinker boat
sinker drill
sinker wood
sinkhole drainage
sinking bowl
sinking fund
sinking head
sinking heart
sinking speed
sinking stomach
sinking-fund
sinking-fund bond
sinking-fund payment
sinn fein
sino-
sino-tibetan
sinoatrial node
sinuate-leaved
sinuato-
sinumbra lamp
sinuoso-
sinus arrhythmia
sinus band
sinus node
sinusoidal circuit
sinusoidal projection
siphon alga
siphon barometer
siphon bottle
siphon condenser
siphon cup
siphon gauge
siphon off
siphon recorder
siphon slide
siphon spillway
siphono-
sir-reverence
sirdar bearer
sire-found
siren song
sirloin steak
sirup sorghum
sisal hemp
siskin parrot
sissy-pants
sister block
sister cell
sister fold
sister hook
sister keelson
sister rib
sister ship
sister-german
sister-in-law
sister-wife
sisters under the skin
sit around
sit at
sit at the feet of
sit back
sit bolt upright
sit by
sit down
sit down at the bargaining table
sit down on
sit down together
sit down with
sit in
sit in for
sit in judgment
sit in on
sit it out
sit on
sit on a barrel of gunpowder
sit on the dais
sit on the fence
sit on the sidelines
sit on the tail of
sit on the throne
sit on your ass
sit on your butt
sit on your duff
sit on your hands
sit out
sit over
sit pretty
sit shibah
sit tight
sit under
sit up
sit up and take notice
sit up for
sit upon
sit upon thorns
sit well with one
sit well with you
sit-down
sit-down strike
sit-downer
sit-fast
sit-in
sit-up
sit-upon
sitdown striker
site development
site land
sitio-
sitka spruce

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 14628
sito-
sitter-by
tsitter-in
tsitter-out
sitting day
sitting duck
sitting height
sitting place
sitting room
sitting shot
sitting tenant
sitting trot
situation comedy
situation ethics
situational neurosis
situational psychosis
situs inversus
sitz bath
siva snake
siva-siva
siwash sweater
six and two threes
six feet above contradiction
six feet under
six o’clock
six point
six ways from Sunday
six-acre
six-angled
six-arched
six-banded
six-bar
six-barred
six-barreled
six-bottle
six-by-six
six-canted
six-cent
six-chambered
six-colored
six-cornered
six-coupled
six-course
six-cut
six-cylinder
six-cylinderead
six-day
six-dollar
six-eared
six-edged
six-eight
six-eight time
six-ell
six-eyed
six-faced
six-figure income
six-figured
six-fingered
six-flowered
six-foiled
six-foot
six-footed
six-footer
six-gallon
six-gated
six-gilled
six-gilled shark
six-grain
six-gram
six-gun
six-headed
six-hoofed
six-horse
six-hour
six-inch
six-jointed
six-leaved
six-legged
six-letter
six-lettered
six-lined
six-lobed
six-masted
six-master
six-mile
six-minute
six-mouth
six-o-six
six-oared
six-o'clock
six-ounce
six-pack
six-part time
six-petaled
six-phase
six-plumed
six-ply
six-pointed
six-pointed star
six-pot
six-pound
six-pounder
six-ranked
six-rayed
six-ribbed
six-room
six-roomed
six-rowed
six-second
six-shafted
six-shared
six-shilling
six-shooter
six-sided
six-spined
six-spot
six-spotted
six-storied
six-story
six-stringed
six-striped
six-syllable
-six-three-three
six-time
six-ton
six-week
six-weeks grass
-six-wheel
-six-wheeled
-six-wheeler
-six-winged
-six-yard
-six-yard area
-six-yard line
-six-year
-six-year-old
-sixpenny bit
-sixteen-foot
-sixteen-foot stop
-sixteen-pounder
-sixteenth note
-sixteenth rest
-sixth chord
-sixth column
sixth form
sixth nerve
sixth sense
sixth-floor
sixth-form
sixth-grade
sixth-rate
sixty per cent
sixty-eight
sixty-eighth
sixty-fifth
sixty-first
sixty-five
sixty-four
sixty-four-dollar question
sixty-fourmo
sixty-fourmos
sixty-fourth
sixty-fourth note
sixty-fourth rest
sixty-nine
sixty-ninth
sixty-one
sixty-second
sixty-seven
sixty-seventh
sixty-six
sixty-sixth
sixty-third
sixty-three
sixty-two
size bone
size roll
size stick
size up
size up your measure
sizer die
sizer tap
sizing tool
sizing up
sizzling heat
sizzling hot
skate on thin ice
skate over
skate sailing
skating rink
skean dhu
skee-ball
skeel duck
skeel goose
skeeling goose
skeen arch
skeet shooting
skeleto-
skeleton at the feast
skeleton clock
skeleton company
skeleton construction
skeleton dance
skeleton drill
skeleton girder
skeleton in the closet
skeleton in the cupboard
skeleton key
skeleton leaf
skeleton movement
skeleton pattern
skeleton proof
skeleton regiment
skeleton shrimp
skeleton suit
skelic index
skelpie-limmer
skene arch
skene dhu
sketch book
sketch map
sketch out
sketch plan
sketch plate
sketch-book
skew arch
skew chisel
skew distribution
skew field
skew polygon
skew putt
skew table
skew-back
skew-gee
skew-jawed
skew-symmetric
skewed judgment
skewer-up
ski boot
ski boots
ski bum
ski jacket
ski jump
ski landing gear
ski lift
ski pants
ski pole
ski run
ski stick
ski suit
ski sweater
ski tow
ski troops
ski wax
ski-jumping
ski-plane
skia-
skid box
skid chain
skid engine
skid fin
skid landing gear
skid platform
skid road
skid row
skid to a stop
skid-row bum
skidding hooks
skidding sled
skidding trail
skiffle band
skill facet
skill with language
skill with words
skill-less
skill-lessness
skilled hand
skilled in
skilled laborer
skilled workman
skillet chopper
skim coat
skim colter
skim gate
skim milk
skim off
skim over
skim the surface
skim through
skim-coulter
skim-milk
skimble-scamble
skimble-skamble
skimmed milk
skimmer cake
skimmer gate
skimmer scoop
skimming back
skimming dish
skimming gate
skimming-dish
skimmington ride
skimper-scamper
skin alive
skin and bones
skin beetle
skin boat
skin book
skin cancer
skin coat
skin color
skin coloring
skin disease
skin dive
skin diver
skin diving
skin effect
skin eruption
skin flick
skin food
skin friction
skin friction drag
skin game
skin graft
skin grafting
skin layer
skin man
skin mark
skin nose
skin out
skin planing
skin resistance
skin spot
skin test
skin tone
skin wool
skin-breaking
skin-built
skin-clad
skin-clipping
skin-deep
skin-devouring
skin-dive
skin-dived
skin-diver
skin-diving
skin-dove
skin-peeled
skin-piercing
skin-plastering
skin-pop
skin-popping
skin-shifter
skin-spread
skin-testing
skin-tight
skinned alive
skinning alive
skinning knife
skinning loam
skinny as a lath
skinny as a rail
skinny dip
skinny dipper
skinny-dip
skinny-dipped
skinny-dipper
skinny-dipping
skinny-dipt
skinny-necked
skip bail
skip bomb
skip bridge
skip car
skip distance
skip elevator
skip for joy
skip hoist
skip it
skip numbering
skip off
skip out
skip over
skip rope
skip straight
skip through
skip tracer
skip zone
skip-bomb
skip-bombing
skip-kennel
skipjack pike
skipjack tuna
skipping rope
skipping-rope
skirmish drill
skirmish line
skirt cassock
skirt chaser
skirt dance
skirt dancer
skirt marker
skirt of tasses
skirt the shore
skirt-dancer
skirting board
skirting table
skirting-board
skittle alley
skittle ball
skittle out
skittle pool
skittle pot
skittle-shaped
skivvy shirt
skookum-house
skrim shander
skua gull
skulk away
skull and crossbones
skull cracker
skull practice
skull session
skull-built
skull-cap
skull-covered
skull-crowned
skull-dividing
skull-hunting
skull-less
skull-like
skull-lined
skullcap speedwell
skunk bear
skunk bird
skunk blackbird
skunk cabbage
skunk currant
skunk grape
skunk mushroom
skunk plant
skunk porpoise
skunk spruce
skunk turtle
skunk-drunk
skunk-headed
skunkhead coot
sky advertising
sky an oar
sky atlas
sky blue
sky compass
sky cover
sky dive
sky diver
sky diving
sky drain
sky farmer
sky gazer
sky gray
sky hooker
sky iron
sky line
sky map
sky marker
sky parlor
sky pilot
sky pipit
sky screen
sky shade
sky sign
sky train
sky truck
sky wave
sky-aspiring
sky-blasted
sky-blue
sky-blue pink
sky-born
sky-bred
sky-capped
sky-cast
sky-clad
sky-clear
sky-cleaving
sky-climbing
sky-color
sky-colored
sky-dive
sky-diving
sky-dome
sky-dyed
sky-elephant
sky-engendered
sky-facer
sky-falling
sky-gazer
sky-god
sky-high
sky-kissing
sky-line
sky-line logging
sky-measuring
sky-planted
sky-reaching
sky-rending
sky-resembling
sky-rocket
sky-ruling
sky-sail
sky-scaling
sky-scraper
sky-sign
sky-throned
sky-tinctured
sky-touching
sky-worn
skye terrier
skyhook balloon
skysail mast
skysail pole
skysail yard
skysail-yarder
slab bridge
slab dashing
slab house
slab line
slab mill
slab pahoehoe
slab plastering
slab reef
slab tie
slab top
slab-sided
slab-sidedly
slab-sidedness
slabbing cutter
slabbing machine
slabbing mill
slack back
slack barrel
slack coal
slack cooperage
slack filling
slack jaw
slack off
slack purse strings
slack suit
slack up
slack water
slack-bake
slack-baked
slack-filled
slack-jawed
slack-laid
slack-off
slack-rope
slack-rope artist
slack-salted
slack-spined
slack-twisted
slack-up
slack-water
slag cement
slag concrete
slag down
slag furnace
slag heap
slag hearth
slag sand
slag wool
slag-hearth
slag-lead
slag-tap furnace
slagging furnace
slagging hole
slake trough
slake your thirst
slaked lime
slam bidding
slam into
slam the door in your face
slam-bang
slamming stile
slang dictionary
slang-whang
slang-whanger
slanging match
slant across
slant culture
slant dam
slant front
slant height
slant of wind
slant rhyme
slant-eye
slant-eyed
slant-top
slanting hand
slap a tax on
slap around
slap at
slap dashing
slap down
slap in the face
slap in the middle
slap of the glove
slap on
slap on paint
slap on the wrist
slap plastering
slap the face
slap the lid on
slap up
slap you in the face
slap your face
slap-bang
slap-bang shop
slap-dab
slap-dash
slap-sided
slap-slap
slap-up
slapstick comedian
slaughter tree
slaughter-breathing
slaughter-dealing
slaughter-house
slaughter-threatening
slave ant
slave broker
slave clock
slave cylinder
slave dealer
slave dealing
slave driver
slave fork
slave hunt
slave hunter
slave hunting
slave labor
slave labor camp
slave maker
slave market
slave ship
slave song
slave state
slave trade
slave trader
slave trading
slave-carrying
slave-collecting
slave-cultured
slave-deserted
slave-drive
slave-driver
slave-enlarging
slave-got
slave-grown
slave-labor
slave-making
slave-making ant
slave-merchant
slave-owning
slave-peopled
slave-trade
slaver over
slavo-
slay en masse
sleave silk
sleave-silk
sled cultivator
sled dog
sled harvester
sled knife
sled lister cultivator
sled marker
sled part
sled-log
sledge chair
sledge dog
sledge hammer
sledge-hammer
sleek stone
sleek-browed
sleek-faced
sleek-haired
sleek-headed
sleek-leaf
sleek-looking
sleek-skinned
sleeker-up
sleep around
sleep at your post
sleep drink
sleep in
sleep it off
sleep like a log
sleep like a top
sleep like the dead
sleep movement
sleep movements
sleep of the just
sleep off
sleep on
sleep on a volcano
sleep out
sleep soundly
sleep talker
sleep talking
sleep together
sleep treatment
sleep upon
sleep with
sleep with one eye open
sleep with the Lord
sleep with your ancestors
sleep with your fathers
sleep-at-noon
sleep-bedeafened
sleep-bringer
sleep-bringing
sleep-causing
sleep-compelling
sleep-created
sleep-desiring
sleep-dewed
sleep-dispelling
sleep-disturbing
sleep-drowned
sleep-drunk
sleep-enthralled
sleep-fatted
sleep-fearing
sleep-filled
sleep-heavy
sleep-in
sleep-inducer
sleep-inducing
sleep-inviting
sleep-loving
sleep-procuring
sleep-producer
sleep-producing
sleep-provoker
sleep-provoking
sleep-resisting
sleep-soothing
sleep-stuff
sleep-swollen
sleep-tempting
sleep-walker
sleeper goby
sleeper shark
sleeping around
sleeping bag
sleeping beauty
sleeping car
sleeping carriage
sleeping chair
sleeping disease
sleeping draught
sleeping fire
sleeping partner
sleeping pill
sleeping place
sleeping policeman
sleeping porch
sleeping rent
sleeping room
sleeping sickness
sleeping suit
sleeping table
sleeping together
sleeping with
sleepless eye
sleepy Dick
sleepy disease
sleepy sickness
sleepy-acting
sleepy-eyed
sleepy-eyes
sleepy-headed
sleepy-headedness
sleepy-looking
sleepy-souled
sleepy-sounding
sleepy-voiced
sleet wheel
sleeve axle
sleeve board
sleeve brick
sleeve button
sleeve dog
sleeve link
sleeve links
sleeve nut
sleeve target
sleeve valve
sleeve waistcoat
sleeve-defended
sleeve-hidden
sleigh bed
sleigh bell
sleigh bells
sleigh cutter
sleight of hand
sleight-of-hand
sleight-of-hand artist
sleight-of-hand performer
sleight-of-hand trick
slender as a thread
slender blind snake
slender blue flag
slender loris
slender means
slender-ankled
slender-armed
slender-beaked
slender-billed
slender-bladed
slender-bodied
slender-branched
slender-fingered
slender-finned
slender-flanked
slender-flowered
slender-footed
slender-hipped
slender-jawed
slender-jointed
slender-leaved
slender-legged
slender-limbed
slender-looking
slender-muzzled
slender-nosed
slender-podded
slender-shafted
slender-shouldered
slender-spiked
slender-stalked
slender-stemmed
slender-striped
slender-tailed
slender-toed
slender-trunked
slender-waisted
slender-witted
slenderness ratio
sleuth-hound
slew rope
slew-eyed
slibber-sauce
slice bar
slice galley
slice of life
slice the melon
slice the pie
slice up
slick as a whistle
slick chick
slick citizen
slick down
slick magazine
slick on
slick stone
slick up
slick-ear
slick-faced
slick-haired
slick-looking
slick-spoken
slick-talking
slick-tongued
slicked up
slicker hat
slide back
slide bar
slide block
slide box
slide bridge
slide caliper
slide down
slide fastener
slide film
slide into
slide knot
slide lathe
slide off
slide out of
slide over
slide pole
slide projector
slide rail
slide rest
slide rod
slide rule
slide shaft
slide stacker
slide tongs
slide tool
slide trombone
slide valve
slide viewer
slide-
slide-action
slide-easy
slide-groat
slide-rest
slide-rest lathe
slide-rock
slide-rule
slide-rule warfare
slide-valve
slide-valve engine
slide-wire
slide-wire bridge
slider crank
slider-crank chain
sliding board
sliding fit
sliding friction
sliding keel
sliding scale
sliding seat
sliding vector
sliding way
sliding-gear
sliding-scale
sliding-scale premium
slight knowledge
slight over
slight stretching
slight wrong
slight-billed
slight-bottomed
slight-built
slight-esteemed
slight-informed
slight-limbed
slight-looking
slight-made
slight-natured
slight-seeming
slight-shaded
slight-timbered
slim chance
slim down
slim pickings
slim-ankled
slim-built
slim-jim
slim-leaved
slim-limbed
slim-shanked
slim-spired
slim-trunked
slim-waisted
slime eel
slime flux
slime fungus
slime mold
slime mould
slime pit
slime table
slime thickening
slime-begotten
slime-browned
slime-coated
slime-filled
slime-secreting
slime-washed
slimy-backed
sling at
sling cart
sling chair
sling dog
sling hash
sling off
sling psychrometer
sling pump
sling rope
sling stay
sling strap
sling the lead
sling thermometer
sling trot
sling unloader
sling-
slinger ring
slink butcher
slink in
slink lamb
slink off
slip 'twixt cup and lip
slip a cog
slip away
slip back
slip by
slip carriage
slip cheese
slip cloth
slip clutch
slip coach
slip coupling
slip cover
slip curd
slip dock
slip down
slip friction
slip friction clutch
slip gauge
slip glaze
slip grab
slip hook
slip in
slip indicator
slip into
slip jaw
slip joint
slip key
slip kiln
slip knot
slip line
slip mortise
slip noose
slip of the pen
slip of the tongue
slip off
slip on
slip one over on
slip out
slip out of
slip over
slip panel
slip proof
slip rail
slip regulator
slip ring
slip road
slip rope
slip seat
slip shackle
slip share
slip sheet
slip sill
slip skid
slip something over on
slip spring
slip stem
slip stitch
slip stopper
slip stream
slip switch
slip tap
slip the
cable
the collar
the memory
through
through your fingers
through your hands
tongue
up
ware
washer
wool
you a Mickey
you a Mickey Finn
your cable
your mind
-
-along
-knot
-on
-rail
-ring
-sheet
-shelled
-shoe
-skin
-slop
-stitch
-string
-tongue wheel
top
-up
- way
coat cheese
wool
pped disc
pped disk
pped tendon
pped wing
per animalcule
per animalcules
per bath
per block
per boat
per brake
per chair
per drag
per foot
slipper limpet
slipper orchid
slipper piston
slipper plant
slipper satin
slipper shell
slipper sock
slipper-foxed
slipper-root
slipper-shaped
slippered ease
slippery as an eel
slippery dip
slippery elm
slippery-bellied
slippery-breeched
slippery-looking
slippery-shod
slippery-sleek
slippery-tongued
slipping away
slipping back
slipshod construction
slit band
slit deal
slit lamp
slit pocket
slit skirt
slit tapestry
slit trench
slit-drum
slit-eared
slit-eyed
slit-footed
slit-nosed
slit-shaped
slither off
slitting file
slitting machine
slitting saw
slitting shears
sliver box
slob ice
slob land
slobber over
slobber-chops
slocking stone
sloe gin
sloe plum
sloe thorn
sloe-black
sloe-blue
sloe-colored
sloe-eyed
slog away
slog on
sloop of war
sloop rig
sloop yacht
sloop-rigged
slop around
slop basin
slop book
slop bowl
slop chest
slop chute
slop cloth
slop dealer
slop frock
slop hand
slop jar
slop man
slop merchant
slop molding
slop on paint
slop out
slop over
slop padding
slop pail
slop room
slop sink
slop-built
slop-molded
slop-over
slop-seller
slop-shop
slop-work
slopec arms
slopec culture
slopec form
slopec up
slopec-browed
slopec- eerded
slopec-edged
slopec-faced
slope-lettered
slope-roofed
slope-sided
slope-toothed
slope-walled
sloping downward
sloping upward
sloppy Joe
sloppy joe
slosh wheel
slot and filler
slot burner
slot conveyer
slot driller
slot file
slot machine
slot man
slot mortise
slot rail
slot washer
slot winding
slot-boring
slot-drill
slot-drilling
slot-drilling machine
slot-headed
slot-spike
sloth animalcule
sloth bear
sloth monkey
sloth tree
slotting auger
slotting drill
slotting end mill
slotting file
slotting machine
slouch around
slouch hat
slough bass
slough grass
slough ice
slough of despond
slough off
slough over
slovenly performance
slow ahead
slow and careful steps
slow as death
slow as molasses
slow as slow
slow astern
slow burn
slow coach
slow down
slow goer
slow handclap
slow loris
slow march
slow market
slow match
slow motion
slow neutron
slow off the mark
slow person
slow pile
slow starter
slow time
slow to
slow to act
slow to commit yourself
slow to make your move
slow up
slow-back
slow-belly
slow-blooded
slow-breathed
slow-breathing
slow-breeding
slow-burning
slow-circling
slow-coach
slow-combustion
slow-conceited
slow-consuming age
slow-contact
slow-crawling
slow-creeping
slow-developed
slow-drawing
slow-drawn
slow-driving
slow-ebbing
slow-endeavoring
slow-extinguished
slow-eyed
slow-fingered
slow-foot
slow-footed
slow-gaited
slow-going
slow-growing
slow-legged
slow-march
slow-mettled
slow-motion
slow-moving
slow-paced
slow-poky
slow-run
slow-running
slow-sailing
slow-speaking
slow-speeched
slow-spirited
slow-spoken
slow-stepped
slow-sudden
slow-sure
slow-thinking
slow-time
slow-tongued
slow-tuned
slow-up
slow-winged
slow-witted
slow-wittedness
slow-worm
slowed down
slower than the seven-year itch
slowing down
slowness to act
slubber de gullion
slubber over
slubbing billy
slubbing machine
sludge acid
slue rope
slue-footed
slug caterpillar
slug horn
slug snail
slug worm
slug-a-bed
slug-abed
slug-horn
slug-worm
slugging average
slugging machine
slugging match
slugging percentage
sluice box
sluice gate
sluice out
sluice valve
slum clearance
slum-dwellers
slumber party
slumber-bound
slumber-bringing
slumber-closing
slumber-loving
slumber-seeking
slumber-wrapt
slump cone
slump down
slump test
slung shot
slur over
slurp up
slush casting
slush fund
slush lamp
slush-cast
slushing oil
slut's wool
sly dog
sly grog
sly look
sly suggestion
sly-boots
sly-eyed
sly-goose
sly-grog
sly-looking
sly-tongued
sma-boukit
smack boat
smack in the middle
smack into
smack of
smack the lips
smack your lips
smack-dab
smack-dab in the middle
smacking of
small ale
small amount
small arm
small arms
small beer
small boat
small bond
small bower
small boy
small burgh
small business
small businessman
small calorie
small cane
small cap
small capital
small chance
small change
small chop
small circle
small claims court
small clothes
small coal
small cranberry
small debt
small end
small fry
small game
small goods
small ham
small honeysuckle
small hope
small hours
small intestine
small letter
small matter
small number
small octave
small pastern bone
small pica
small place
small potato
small potatoes
small price tag
small print
small royal
small screen
small share
small signal hybrid open circuit
small signal open circuit
small signal short circuit
small slam
small space
small stores
small stuff
small talk
small time
small tradesmen
small voice
small woodbine
small years
small-acred
small-ankled
small-arm
small-armed
small-arms
small-beer
small-billed
small-boat
small-bodied
small-boned
small-bore
small-boyhood
small-boyish
small-brained
small-caliber
small-celled
small-claims court
small-clawed
small-clothes
small-college
small-colleger
small-cornered
small-craft warning
small-crowned
small-debts court
small-diameter
small-drink
small-eared
small-eyed
small-faced
small-feed
small-finned
small-flowered
small-footed
small-framed
small-fruited
small-fry
small-grain
small-grained
small-habited
small-handed
small-headed
small-hipped
small-horned
small-jointed
small-leaved
small-letter
small-lettered
small-limbed
small-looking
small-lunged
small-minded
small-mindedly
small-mindedness
small-nailed
small-natured
small-paneled
small-paper
small-part
small-pattern
small-petaled
small-pored
small-preferred
small-reasoned
small-scale
small-scaled
small-shelled
small-size
small-sized
small-souled
small-spaced
small-spotted
small-sword
small-tailed
small-talk
small-threaded
small-timbered
small-time
small-timer
small-tired
small-toned
small-tooth
small-toothed
small-topped
small-town
small-towner
small-trunked
small-type
small-visaged
small-visioned
small-ware
small-wheeled
small-windowed
smallmouth bass
smallpox plant
smallpox-proof
smalt green
smalt-blue
smart aleck
smart as a whip
smart ass
smart crack
smart money
smart operator
smart pace
smart saying
smart set
smart-aleck
smart-aleckiness
smart-alecky
smart-ass
smart-built
smart-cocked
smart-dressing
smart-looking
smart-money
smart-spoken
smart-stinging
smart-talking
smart-tongued
smart-witted
smarten up
smarty-pants
smash all opposition
smash hit
smash in
smash into
smash piecer
smash the atom
smash up
smash-and-grab
smash-up
smashboard signal
smasher hammer
smasher hat
smashing defeat
smashing machine
smattering of ignorance
smattering of knowledge
smear campaign
smear culture
smear dab
smear dock
smear on
smear test
smear ware
smear word
smear-dab
smear-sheet
smegma bacillus
smell a rat
smell around
smell bad
smell good
smell in the wind
smell of
smell of decay
smell of the lamp
smell out
smell sweet
smell to heaven
smell to high heaven
smell up
smell-feast
smell-less
smell-lessness
smell-smock
smeller-out
smelling bottle
smelling salts
smelling-stick
smelt-
smick-smack
smick-smock
smiddy-leaves
smilax family
smile at
smile brightly
smile of recognition
smile upon
smile-covering
smile-frowning
smile-tuned
smile-wreathed
smileage book
smiled-out
smiles of fortune
smiling reception
smiling sleep
smiling wakerobin
smite hip and thigh
smithing coal
smithy coal
smiting line
smitten with
smitten with death
smock frock
smock marriage
smock mill
smock windmill
smock-faced
smock-frock
smock-frocked
smoke agent
smoke arch
smoke ball
smoke blue
smoke bomb
smoke cat
smoke chamber
smoke curtain
smoke dome
smoke explosion
smoke gray
smoke grenade
smoke helmet
smoke hole
smoke jumper
smoke kiln
smoke like a chimney
smoke like a furnace
smoke out
smoke passage
smoke pipe
smoke plant
smoke pot
smoke proof
smoke quartz
smoke rocket
smoke room
smoke sail
smoke screen
smoke shelf
smoke shop
smoke stop
smoke talk
smoke the pipe of peace
smoke tree
smoke washer
smoke-ball
smoke-begotten
smoke-black
smoke-bleared
smoke-blinded
smoke-blue
smoke-bound
smoke-brown
smoke-burning
smoke-colored
smoke-condensing
smoke-consuming
smoke-consumptive
smoke-cure
smoke-curing
smoke-dried
smoke-dry
smoke-drying
smoke-dyed
smoke-eater
smoke-eating
smoke-enrolled
smoke-exhaling
smoke-filled
smoke-filled room
smoke-gray
smoke-grimed
smoke-hole
smoke-jack
smoke-laden
smoke-oh
smoke-paint
smoke-pennoned
smoke-preventing
smoke-preventive
smoke-selling
smoke-smothered
smoke-sodden
smoke-stack
smoke-stained
smoke-torn
smoke-vomiting
smoke-wreathed
smoke-yellow
smoked glass
smoked glasses
smoked herring
smoked rubber
smokeless powder
smokeless powder rocket
smokeless zone
smoking bean
smoking car
smoking compartment
smoking concert
smoking duck
smoking habit
smoking hot
smoking jacket
smoking lamp
smoking opium
smoking room
smoking stand
smoking tobacco
smoking-concert
smoking-room
smoky quartz
smoky topaz
smoky-bearded
smoky-blue
smoky-colored
smoky-flavored
smoky-looking
smoky-smelling
smoky-tinted
smoky-waving
smoldering fire
smoot hole
smooth as a baby's ass
smooth as a billiard ball
smooth as glass
smooth bore
smooth breathing
smooth citizen
smooth coat
smooth down
smooth flounder
smooth hound
smooth it over
smooth muscle
smooth out
smooth over
smooth plane
smooth road
smooth sailing
smooth snake
smooth sumac
smooth surface
smooth talker
smooth temper
smooth the path
smooth the road
smooth the ruffled brow of care
smooth the way
smooth the way for
smooth wine
smooth winterberry
smooth your feathers
smooth your ruffled
smooth-ankled
smooth-barked
smooth-bedded
smooth-bellied
smooth-billed
smooth-bodied
smooth-browed
smooth-cast
smooth-cheeked
smooth-chinned
smooth-clouded
smooth-coated
smooth-coil
smooth-combed
smooth-core
smooth-crested
smooth-cut
smooth-dittied
smooth-edged
smooth-face
smooth-faced
smooth-famed
smooth-fibered
smooth-finned
smooth-flowing
smooth-foreheaded
smooth-fronted
smooth-fruited
smooth-gliding
smooth-going
smooth-grained
smooth-haired
smooth-handed
smooth-headed
smooth-hewn
smooth-leaved
smooth-legged
smooth-limbed
smooth-looking
smooth-necked
smooth-nosed
smooth-paced
smooth-plastered
smooth-podded
smooth-polished
smooth-riding
smooth-rimmed
smooth-rinded
smooth-rubbed
smooth-running
smooth-sculptured
smooth-shaven
smooth-sided
smooth-skinned
smooth-sliding
smooth-soothing
smooth-sounding
smooth-speaking
smooth-spoken
smooth-stalked
smooth-stemmed
smooth-surfaced
smooth-tailed
smooth-taper
smooth-taper drift
smooth-tempered
smooth-textured
smooth-tined
smooth-tired  
smooth-tongued  
smooth-voiced  
smooth-walled  
smooth-winding  
smooth-winged  
smooth-working  
smooth-woven  
smooth-writing  
smooth-wrought  
smoothback flounder  
smoothbore gun  
smoothbore weapon  
smoothed out  
smoother-over  
smoothhound shark  
smoothing box  
smoothing iron  
smoothing mill  
smoothing of the way  
smoothing plane  
smother crop  
smother fire  
smother fly  
smother-kiln  
smothered mate  
smudge fire  
smudge pot  
smug-faced  
smug-looking  
smug-skinned  
smuggle in  
smuggled goods  
smut ball  
smut fungus  
smut gall  
smut grass  
smut mill  
smut-free  
smutty-faced  
smutty-nosed  
smutty-yellow  
snack bar  
snack stool  
snack table  
snaffle bit  
snaffle-bridled  
snaffle-mouthed
snaffle-reined
snag boat
snag tooth
snag tree
snaggle-toothed
snail bore
snail borer
snail cloud
snail clover
snail countersink
snail fever
snail horn
snail medic
snail plant
snail shell
snail trefoil
snail wheel
snail's pace
snail-horned
snail-like
snail-likeness
snail-paced
snail-seed
snail-shell
snail-slow
snake bearer
snake bite
snake blenny
snake boat
snake buzzard
snake cactus
snake cane
snake charmer
snake crane
snake cucumber
snake dance
snake doctor
snake eel
snake eggplant
snake eyes
snake feeder
snake fence
snake fern
snake fly
snake foot
snake gentian
snake gourd
snake guide
snake hole
snake idol
snake in the grass
snake juice
snake killer
snake leaf
snake lily
snake line
snake mackerel
snake medicine
snake melon
snake moss
snake nut
snake oil
snake palm
snake pit
snake star
snake violet
snake wire
snake worship
snake worshiper
snake's head
snake's-head
snake-bitten
snake-bodied
snake-devouring
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-haired
snake-headed
snake-hipped
snake-killing
snake-like
snake-milk
snake-necked
snake-plantain
snake-set
snake-shaped
snake-skin
snake-tressed
snake-wanded
snake-weed
snake-wigged
snake-winged
snake-wood
snakebite remedy
snakehead mullet
snakemouth pogonia
snakes and ladders
snakes in the boots
snaky-eyed
snaky-haired
snaky-handed
snaky-headed
snaky-paced
snaky-sparkling
snaky-tailed
snaky-wreathed
snap at
snap back
snap bean
snap beetle
snap brim
snap bug
snap cap
snap catch
snap clutch
snap decision
snap fastener
snap flask
snap gauge
snap header
snap hook
snap judgment
snap link
snap lock
snap machine
snap molder
snap molding
snap out
snap out of it
snap point
snap ring
snap roll
snap shooter
snap shooting
snap shot
snap switch
snap table
snap the thread
snap the whip
snap to it
snap tool
snap turtle
snap up
snap vote
snap willow
snap your fingers
snap your fingers at
snap your head off
snap your nose off
snap-
snap-apple
snap-brim
snap-brim hat
snap-brimmed
snap-finger
snap-hook
snap-on
snap-rivet
snap-roll
snap-shot
snap-top
snap-top table
snaphead rivet
snapper up
snapper-back
snapper-up
snapping beetle
snapping point
snapping tool
snapping turtle
snappy comeback
snappy pace
snare drum
snare strainer
snarl defiance
snarl up
snarl-up
snarled up
snarling iron
snatch at
snatch block
snatch from
snatch from the jaws of death
snatch hitch
snatch team
snatch-
snav-broo
sneak attack
sneak boat
sneak box
sneak current
sneak in
sneak off
sneak out
sneak out of
sneak preview
sneak shooting
sneak thief
sneak thievery
sneak through
sneak-
sneak-cup
sneak-up
sneaking suspicion
sneaky pete
sneck band
sneck drawer
sneck harling
sneck hook
sneck posset
sneck-drawer
sneer at
sneeshing box
sneeshing mill
sneeshing mull
sneeze at
sneeze gas
sneeze weed
sneezewort tansy
sneezewort yarrow
sneezing gas
snick and snee
snick drawer
snick-a-snee
snick-and-snee
snick-and-snee knife
snick-snarl
snicker at
sniff at
sniff out
sniffle valve
sniffles, the
snifter valve
snifting valve
snow cup
snow devil
snow dust
snow eater
snow eyes
snow fence
snow field
snow finch
snow flea
snow flurry
snow fly
snow gem
snow glare
snow glory
snow gnat
snow goggles
snow goose
snow grains
snow grass
snow ground
snow grouse
snow guard
snow gum
snow hut
snow ice
snow in
snow insect
snow job
snow knife
snow leopard
snow light
snow lily
snow limit
snow line
snow mold
snow mosquito
snow mouse
snow one under
snow owl
snow panther
snow partridge
snow pea
snow peak
snow pear
snow pellets
snow pheasant
snow pigeon
snow plant
snow plume
snow poppy
snow pudding
snow quail
snow rack
snow roller
snow rose
snow rosette
snow scale
snow sheen
snow sleep
snow slope
snow slush
snow smoke
snow snake
snow squall
snow stake
snow stream
snow tire
snow track
snow train
snow tree
snow trillium
snow tyre
snow under
snow vine
snow vole
snow water
snow white
snow wreath
snow-barricaded
snow-bearded
snow-beaten
snow-beater
snow-besprinkled
snow-blanketed
snow-blind
snow-blinded
snow-blown
snow-bright
snow-brilliant
snow-broth
snow-capped
snow-casting
snow-choked
snow-clad
snow-clearing
snow-climbing
snow-cold
snow-colored
snow-covered
snow-crested
snow-crowned
snow-crystal
snow-deep
snow-drifted
snow-driven
snow-dropping
snow-drowned
snow-encircled
snow-fair
snow-feathered
snow-fed
snow-haired
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
snow-mantled
snow-melting
snow-molded
snow-nodding
snow-on-the-mountain
snow-plough
snow-pure
snow-resembled
snow-rigged
snow-robbed
snow-rubbing
snow-scarred
snow-slip
snow-soft
snow-sprinkled
snow-still
snow-swathe
snow-sweeping
snow-thrower
snow-tipped
snow-topped
snow-white
snow-whitened
snow-whiteness
snow-winged
snow-wrought
snowball bush
snowball tree
snowclad peak
snowdrop anemone
snowdrop tree
snowdrop windflower
snowed-in
snowflower tree
snows of yesteryear
snowshoe hare
snowshoe rabbit
snowy egret
snowy owl
snowy-banded
snowy-bosomed
snowy-capped
snowy-countenanced
snowy-fleececd
snowy-flowered
snowy-headed
snowy-vested
snowy-winged
snub line
snub post
snub-
snub-nosed
snubbing post
snuff bottle
snuff brown
snuff brush
snuff color
snuff dipper
snuff dipping
snuff in
snuff it
snuff maker
snuff mill
snuff mull
snuff out
snuff paper
snuff shop
snuff stick
snuff swab
snuff up
snuff-box
snuff-clad
snuff-colored
snuff-headed
snuff-stained
snuff-taking
snuff-using
snuffbox bean
snuffbox fern
snuffing out
snug as a bug in a rug
snug down
snug harbor
snug together
snug up
snuggle up to
so as
so as to
so be it
so big
so bold
so cold you could spit ice cubes
so far
so far as
so far as you can
so far so good
so forget yourself
so help me
so is it
so it is
so long
so long as
so long as it's red
so many
so mote it be
so much
so much as
so much for that
so shall it be
so so
so that
so to say
so to speak
so very much
so what
so what else is new
so-and-so
so-and-sos
so-called
so-caused
so-conditioned
so-considered
so-designated
so-fa syllables
so-formed
so-forth
so-ho
so-instructed
so-like
so-named
so-regarded
so-seeming
so-so
so-soish
so-styled
so-termed
so-titled
so-wise
soak Austral
soak hole
soak in
soak up
soaking furnace
soaking pit
soaking rain
soaking through
soaking wet
soaking-up
soap apple
soap ashes
soap box
soap box derby
soap brick
soap bubble
soap bulb
soap copper
soap dish
soap earth
soap flakes
soap fruit
soap gentian
soap nut
soap opera
soap orange
soap pad
soap plant
soap pod
soap powder
soap stone
soap test
soap the ways
soap tree
soap-boiler
soap-bubble
soap-fast
soap-maker
soapbark tree
soapberry family
soapberry tree
soapbox derby
soapbox orator
soapwort gentian
soar falcon
soar hawk
soaring costs
soaring heights
soaring plane
soaring prices
sob sister
sob story
sob stuff
sobe it
sober as a judge
sober down
sober fact
sober off
sober reality
sober senses
sober up
sober-blooded
sober-clad
sober-disposed
sober-eyed
sober-headed
sober-headedness
sober-minded
sober-mindedly
sober-mindedness
sober-sad
sober-spirited
sober-suited
sober-tinted
soccer ball
soccer field
sociable coach
sociable person
social interaction
social intercourse
social isolation
social lion
social lubricant
social maladjustment
social organization
social outcast
social parasite
social pathology
social pressure
social procedures
social process
social psychiatry
social psychology
social realism
social realist
social register
social relations
social round
social science
social scientist
social season
social secretary
social security
social service
social services
social set
social settlement
social studies
social usage
social wasp
social welfare
social whirl
social work
social worker
social-climbing
social-minded
social-mindedly
social-mindedness
social-service
socialist economy
socialistic economy
socialized medicine
socially incompatible
socially prominent
society evil
society goods
society queen
society screw
society verse
socio-
socio-economic
socio-official
sociological adjustive reactions
sociological novel
socius criminis
sock away
sock in
sock lamb
sock lining
sock suspender
sock suspenders
socket basket
socket chisel
socket eye
socket pole
socket punch
socket screw
socket spanner
socket washer
socket wrench
sockeye salmon
sod cloth
sod culture
sod grass
sod house
sod mulch
sod off
sod oil
sod plow
sod webworm
sod-bound
sod-build
sod-cutting
sod-forming
sod-roofed
soda alum
soda ash
soda ball
soda biscuit
soda bread
soda cracker
soda crystals
soda feldspar
soda fountain
soda jerk
soda lake
soda lime
soda lye
soda mesolite
soda mica
soda niter
soda nitre
soda plant
soda pop
soda pulp
soda saleratus
soda siphon
soda soap
soda waste
soda water
soda-granite
soda-lime
soda-lime feldspar
soda-potash
soda-potash feldspar
sodalite-syenite
sodden-faced
sodden-headed
sodden-minded
sodden-witted
sodio-
sodium acetate
sodium acid car
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium biborate
sodium bicarbonate
sodium bichromate
sodium bisulphate
sodium bisulphite
sodium borate
sodium bromide
sodium carbonate
sodium carbonite
sodium chlorate
sodium chloride
sodium citrate
sodium cyanide
sodium cyclamate
sodium cyclohexylsulfamate
sodium dicarbonate
sodium dichromate
sodium dioxide
sodium dithionate
sodium dithionite
sodium ethoxide
sodium ethylate
sodium fluoride
sodium fluoroacetate
sodium glutamate
sodium hydrate
sodium hydrosulfite
sodium hydrosulphide
sodium hydrosulphite
sodium hydroxide
sodium hypochlorite
sodium hyposulfi
sodium hyposulfite
sodium hyposulphite
sodium iodide
sodium lamp
sodium light
sodium meta-arsenite
sodium methoxide
sodium methylate
sodium monoxide
sodium nitrate
sodium nitrite
sodium nitroprusside
sodium oxide
sodium pentothal
sodium perborate
sodium peroxide
sodium phosphate
sodium polysulfide
sodium propionate
sodium pump
sodium pyroborate
sodium salicylate
sodium silicate
sodium stearate
sodium suing agent
soft hail
soft hat
soft ice cream
soft in the head
soft landing
soft market
soft nose stem
soft on
soft palate
soft paste
soft patch
soft pedal
soft phototube
soft phrases
soft place in your heart
soft ray
soft roe
soft roll
soft rot
soft scale
soft sell
soft shoulder
soft sign
soft sleep
soft soap
soft solder
soft spot
soft spot in your heart
soft tick
soft tongue
soft touch
soft tube
soft voice
soft water
soft wheat
soft wood
soft words
soft-armed
soft-backed
soft-bedded
soft-bellied
soft-billed
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodied
soft-boil
soft-boiled
soft-bone
soft-bosomed
soft-bound book
soft-breathed
soft-bright
soft-brushing
soft-centred
soft-circling
soft-coal
soft-coated
soft-colored
soft-conched
soft-conscienced
soft-core pornography
soft-cored
soft-couched
soft-cover
soft-dressed
soft-ebbing
soft-embodied
soft-extended
soft-eyed
soft-feathered
soft-feeling
soft-fingered
soft-finished
soft-finned
soft-flecked
soft-fleshed
soft-flowing
soft-focus
soft-foliaged
soft-footed
soft-footedly
soft-glazed
soft-going
soft-ground
soft-ground etching
soft-haired
soft-handed
soft-head
soft-headed
soft-headedness
soft-hearted
soft-heartedly
soft-heartedness
soft-hued
soft-laid
soft-leaved
soft-lucent
soft-mannered
soft-mettled
soft-minded
soft-murmuring
soft-natured
soft-nosed
soft-paced
soft-pale
soft-palmed
soft-paste
soft-paste porcelain
soft-pated
soft-pedal
soft-pedaled
soft-pedaling
soft-pedalled
soft-pedalling
soft-rayed
soft-roasted
soft-rock geology
soft-sawder
soft-sawderer
soft-sealed
soft-shell
soft-shell clam
soft-shell crab
soft-shelled
soft-shelled turtle
soft-shining
soft-shoe
soft-shoe dancing
soft-shouldered
soft-sighing
soft-silken
soft-skinned
soft-sleeping
soft-sliding
soft-slow
soft-smiling
soft-soap
soft-soaper
soft-soaping
soft-solder
soft-soothing
soft-sounding
soft-speaking
soil scientist
soil sickness
soil stack
soil stain
soil survey
soil-bank
soil-bound
soil-freesoilage
soiling crop
soixante-neuf
soixante-quinze
soja bean
soja-bean oil
soke reeve
sol-fa
sol-fa exercise
sol-fa syllables
sol-faed
sol-faer
sol-faing
sol-faist
sol-lunar
sola topee
solan goose
solar X-ray counter
solar X-ray detector
solar apex
solar battery
solar cell
solar chariot
solar constant
solar corona
solar day
solar eclipse
solar elliptic
solar engine
solar flare
solar furnace
solar gamma ray counter
solar halo
solar heat
solar heater
solar heating
solar house
solar machine
solar mirror
solar month
solar myth
solar particle
solar physicist
solar physics
solar plexus
solar power
solar prominence
solar rays
solar spectrum
solar still
solar system
solar telegraph
solar therapy
solar tide
solar time
solar ultraviolet detector
solar wind
solar year
solari-
sold on
solder nipple
soldering bolt
soldering copper
soldering gun
soldering iron
soldering nipple
soldering paste
soldering torch
soldering union
soldering wig
soldier ant
soldier beetle
soldier bug
soldier course
soldier crab
soldier fly
soldier of fortune
soldier on
soldier orchid
soldier orchis
soldier palmer
soldier sprag
soldier suit
soldier turtle
soldier's heart
soldier's medal
soldier-crab
soldier-fashion
soldier-mad
soldierly quality
soldierly virtues
soldiers' home
sole blocker
sole corporation
sole cutter
sole sewer
sole sorter
sole stamper
sole tile
sole trader
sole tree
sole-beating
sole-begotten
sole-beloved
sole-bound
sole-channeling
sole-commissioned
sole-cutting
sole-deep
sole-finishing
sole-happy
sole-justifying
sole-leather
sole-leather kelp
sole-living
sole-lying
sole-ruling
sole-saving
sole-seated
sole-shaped
sole-stitching
sole-sufficient
sole-thoughted
sole-walking
solemn affirmation
solemn declaration
solemn form
solemn mass
solemn mockery
solemn oath
solemn observance
solemn secret
solemn silence
solemn vow
solemn word
solemn-breathing
solemn-browed
solemn-cadenced
solemn-eyed
solemn-garbed
solemn-looking
solemn-mannered
solemn-measured
solemn-proud
solemn-seeming
solemn-shaded
solemn-sounding
solemn-thoughted
solemn-toned
solemn-visaged
solemnly mark
soleno-
solenoid brake
solent goose
solera sherry
solferino red
soli-deo
solicit advice
solicit attention
solicit votes
solicitor general
solicitors general
solid angle
solid as a rock
solid body
solid bottom
solid comfort
solid fuel
solid geometry
solid ground
solid injection
solid of revolution
solid propellant
solid rock
solid solution
solid-billed
solid-bronze
solid-browed
solid-color
solid-colored
solid-drawn
solid-fronted
solid-fuel rocket
solid-full
solid-gold
solid-headed
solid-hoofed
solid-horned
solid-injection
solid-ink
solid-ivory
solid-looking
solid-ported
solid-seeming
solid-set
solid-silver
solid-state
solid-state device
solid-state physics
solid-tired
solidus curve
solitary bee
solitary confinement
solitary person
solitary sandpiper
solitary vireo
solitary wasp
solo dancer
solo dancing
solo flight
solo grand
solo organ
solo part
solo stop
solo whist
solomon's seal
solomon-gundy
solstitial colure
solubility product
soluble RNA
soluble glass
solution plane
solution pressure
solution set
solution tension
solution-proof
solvate theory
solvay process
solvent naphtha
soma plant
somat-
somatic cell
somatic death
somatization reaction
somato-
somber-clad
somber-colored
somber-looking
somber-minded
somber-seeming
somber-toned
some fine day
some fine morning
some five or six
some hope
some of these days
some one
some such way
some sweet day
some time ago
some time back
some time since
some way
somehow or another
somehow or other
someplace or other
something awful
something between
something between the lines
something comfortable
something else
something else again
something extra
something fierce
something for good measure
something for something
something in hand
something in reserve
something in return
something like
something missing
something of value
something or other
something out of your system
something special
something terrible
something to be desired
something to brag about
something to chew on
something to fall back on
something to get your teeth into
something to shout about
something to spare
something to write home about
sometime or other
sometimes and sometimes not
somewhere about
somewhere else
somewhere near
somn-
somnambul-
somnambulistic hypnosis
somni-
son and heir
son et lumiere
son of Adam
son of God
son of a bitch
son of a gun
son of the sable night
son of the soil
son-in-law
son-in-lawship
sonata allegro
sonata form
sonata-allegro
sonder yacht
song and dance
song and dance man
song box
song cycle
song form
song hit
song leader
song maker
song making
song of the Sirens
song sparrow
song thrush
song writer
song writing
song-and-dance
song-and-dance act
song-bird
song-book
song-fraught
song-play
song-school
song-singing
soot black
soot bodies
soot brown
soot dew
soot-bespeckled
soot-black
soot-bleared
soot-colored
soot-dark
soot-fall
soot-grimed
soot-smutched
soot-sowing
soothing syrup
soothing words
sooty black
sooty blotch
sooty mold
sooty mould
sooty tern
sooty-faced
sooty-mouthed
sooty-planed
sop to Cerberus
sop up
sophistic syllogism
sophistical reasoning
sopping wet
soprano clef
soprano part
sops-in-wine
sora rail
sorb apple
sorb tree
sorb-apple
sorbie acid
sorbo rubber
sore beset
sore disappointment
sore head
sore mouth
sore point
sore pressed
sore shin
sore spot
sore throat
sore-backed
sore-beset
sore-dreaded
sore-eyed
sore-footed
sore-head
sore-pressed
sore-pressed
sore-taxed
sore-taxed
sore-toed
sore-tried
sore-vexed
sore-wearied
sore-won
sore-worn
soredi-
sorely disappointed
sorely pressed
sorghum brown
sorghum midge
sorghum smut
sorority girl
sorority house
sorority woman
sorrel dock
sorrel family
sorrel salt
sorrel tree
sorrel vine
sorrow for
sorrow over
sorrow with
sorrow-beaten
sorrow-blinded
sorrow-bound
sorrow-breathing
sorrow-breeding
sorrow-bringing
sorrow-burdened
sorrow-ceasing
sorrow-closed
sorrow-clouded
sorrow-daunted
sorrow-furrowed
sorrow-healing
sorrow-laden
sorrow-melted
sorrow-parted
sorrow-ripening
sorrow-seasoned
sorrow-seeing
sorrow-sharing
sorrow-shot
sorrow-shrunken
sorrow-sick
sorrow-sighing
sorrow-sobbing
sorrow-streaming
sorrow-stricken
sorrow-struck
sorrow-tired
sorrow-torn
sorrow-wasted
sorrow-worn
sorrow-wounded
sorrow-wreathen
sorrowful tree
sorry for yourself
sorry lot
sorry plight
sorry-flowered
sorry-looking
sort of
sort out
sort with
sorter-out
sortes Biblicae
sortes Homericae
sortes Praenestinae
sortes Vergilianae
sorting boom
sorting jack
sorting out
sorting tracks
sorting yard
sostenuto pedal
sostenente pianoforte
sot on
sot-weed
sothic cycle
sotto voce
sou markee
sou marqu
sou’-west
sou-sou
sou-southerly
souari nut
souari-nut
souari-nut family
soubise sauce
soufriere bird
sought-after
soul bell
soul blindness
soul body
soul cake
soul curer
soul deafness
soul food
soul house
soul in glory
soul kiss
soul mate
soul mates
soul of kindness
soul of the dead
soul scat
soul scot
soul shot
soul silver
soul sleep
soul sleeper
soul-adorning
soul-amazing
soul-benumbed
soul-blind
soul-blinded
soul-blindness
soul-boiling
soul-born
soul-burdened
soul-charming
soul-choking
soul-cloying
soul-conceived
soul-confirming
soul-confounding
soul-converting
soul-corrupting
soul-damning
soul-deep
soul-delighting
soul-destroying
soul-devouring
soul-diseased
soul-dissolving
soul-driver
soul-enchanting
soul-ennobling
soul-enthraling
soul-fatting
soul-fearing
soul-felt
soul-forsaken
soul-fostered
soul-frighting
soul-galled
soul-gnawing
soul-harrowing
soul-humbling
soul-illumined
soul-imitating
soul-infused
soul-killing
soul-kiss
soul-loving
soul-mass
soul-moving
soul-murdering
soul-numbing
soul-pained
soul-piercing
soul-pleasing
soul-racking
soul-raising
soul-ravishing
soul-rending
soul-reviving
soul-sapping
soul-satisfying
soul-saving
soul-scot
soul-searching
soul-shaking
soul-shot
soul-sick
soul-sickening
soul-sickness
soul-sinking
soul-slaying
soul-stirring
soul-subduing
soul-sunk
soul-sure
soul-sweet
soul-tainting
soul-thralling
soul-tiring
soul-tormenting
soul-vexed
soul-wise
soul-wounded
soul-wounding
souls in hell
sound a fanfare
sound a knell
sound a retreat
sound a sour note
sound a tattoo
sound an alarm
sound and fury
sound area
sound as a dollar
sound asleep
sound barrier
sound block
sound boarding
sound bone
sound booth
sound bow
sound box
sound cage
sound camera
sound carrier
sound change
sound channel
sound chest
sound compensation
sound control
sound critical judgment
sound director
sound economy
sound effect
sound effects
sound evidence
sound field
sound figures
sound film
sound frequency
sound gate
sound harshly
sound head
sound hole
sound in the ear
sound in tune
sound in wind and limb
sound intensity
sound intensity level
sound judgment
sound knot
sound law
sound lens
sound like
sound limiter
sound line
sound man
sound mind
sound mixer
sound money
sound monitor
sound motion picture
sound of mind and body
sound of trumpets
sound off
sound out
sound pendulum
sound perimeter
sound picture
sound post
sound pressure
sound projector
sound proof
sound propagation
sound ranging
sound reasoning
sound recorder
sound recording
sound reproduction system
sound screen
sound sense
sound shadow
sound shift
sound shifting
sound shrill
sound similar
sound sleep
sound slidefilm
sound spectrogram
sound spectrograph
sound stage
sound taps
sound the alarm
sound the death knell of
sound the horn
sound the keynote
sound the note of preparation
sound the praises of
sound the tocsin
sound the trumpet
sound together
sound track
sound truck
sound true
sound understanding
sound units
sound wave
sound wormy
sound-absorbing
sound-absorbing material
sound-board
sound-conducting
sound-effects man
sound-exulting
sound-group
sound-hole
sound-judging
sound-level data
sound-making
sound-minded
sound-mindedness
sound-on-film
sound-post
sound-powered telephone
sound-producing
sound-ranging altimeter
sound-sensed
sound-set
sound-sleeping
sound-stated
sound-stilling
sound-sweet
sound-thinking
sound-winded
sound-witted
sounding balloon
sounding block
sounding board
sounding bottle
sounding harsh
sounding lead
sounding line
sounding machine
sounding out
sounding post
sounding rocket
sounding rod
sounding stop
sounding tube
sounding-board
sounding-lead
sounding-line
soundness of doctrine
soundness of judgment
soundness of mind
soundproofing insulation
soup bowl
soup cup
soup house
soup kitchen
soup maigre
soup plate
soup shop
soup stock
soup up
soup's on
soup-and-fish
soup-fin shark
soup-strainer
ouple silk
sour as vinegar
sour ball
sour balls
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
sour milk
sour note
sour orange
sour pickle
sour salt
sour thing
sour-blooded
sour-breathed
sour-complexioned  
sour-dough  
sour-eyed  
sour-faced  
sour-featured  
sour-headed  
sour-looked  
sour-looking  
sour-natured  
sour-sap  
sour-sap disease  
sour-smelling  
sour-sop  
sour-sweet  
sour-tasted  
sour-tasting  
sour-tempered  
sour-tongued  
sour-visaged  
source book  
source material  
source of aesthetic delight  
source of aesthetic pleasure  
source of light  
source of supply  
source program  
sourdough bread  
soured cream  
sous-  
sous-lieutenant  
sous-prefect  
south about  
south african  
south by east  
south by west  
south country  
south pole  
south sea  
south wind  
south-  
south-blowing  
south-borne  
south-east  
south-easterly  
south-eastern  
south-eastward  
south-facing  
south-following  

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 14710
south-preceding
south-seaman
south-seeking
south-side
south-south-east
south-south-west
south-southeast
south-southeasterly
south-southeastward
south-southerly
south-southwest
south-southwesterly
south-southwestward
south-southwestwardly
south-west
south-wester
south-westerly
south-western
south-westward
south-westwardly
southeast by east
southeast by south
southerly burster
southerly buster
southern cane
southern crab apple
southern cross
southern crown
southern cypress
southern dewberry
southern english
southern hemisphere
southern lights
southern magnolia
southern right whale
southern studfish
southern toad
southwest by south
southwest by west
soutien-gorge
souvenir book
souvenir day
souvenir hunter
souvenir sheet
souvenir spoon
sovereign contempt
sovereign nation
sovereign nationhood
sovereign pontiff
sovereign princess
sovereign queen
sovereign remedy
sovereign state
sovereign statehood
sow block
sow broadcast
sow bug
sow chaos
sow disorder
sow dissension
sow fennel
sow gapeseed
sow grass
sow the sand
sow the seed
sow the seeds of
sow thistle
sow your wild oats
sow-back
sow-bread
sow-bug
sow-gelder
sow-metal
sow-pig
sow-thistle
sow-tit
sower type
sowing with salt
soy flour
soy frame
soy pea
soy sauce
soya bean
soya sauce
soya-bean oil
soybean fibers
soybean oil
soyez le bienvenu
sp gr
sp ht
spa-water
space age
space airport
space bar
space between
space bullets
space capsule
space centrode
space charge
space crew
space curvature
space curve
space dock
space docking
space doctor
space engineering
space error
space exploration
space factor
space fiction
space flight
space formula
space frame
space group
space hazard
space heater
space heating
space helmet
space island
space isomerism
space key
space laboratory
space lat
space lattice
space line
space linkage
space man
space mark
space medicine
space mirror
space motion
space navigation
space observatory
space opera
space out
space perception
space platform
space probe
space probes
space quadrature
space rate
space ratio
space research
space rocket
space rule
space satellite
space science
space shuttle
space stage
space station
space suit
space technology
space telegraphy
space telephony
space terminal
space travel
space traveler
space variation
space velocity
space walk
space washer
space writer
space-bar
space-charge effect
space-crammed
space-embosomed
space-filling
space-lattice
space-occupying
space-penetrating
space-pervading
space-piercing
space-polar
space-saving
space-spread
space-thick
space-time
space-time continuum
space-traveling
space-world
spaced out
spaced-antenna direction finder
spaced-loop direction finder
spaced-out
spaceport station
spacing Telegraphy
spacious mind
spacious of mind
spackling compound
spade bayonet
spade beard
spade cassino
spade convention
spade face
spade foot
spade graft
spade grass
spade guinea
spade handle
spade iron
spade lug
spade maker
spade money
spade press
spade rudder
spade-beard
spade-bearded
spade-cut
spade-deep
spade-dug
spade-footed
spade-fronted
spade-shaped
spade-trenched
spadefoot toad
spadici-
spading fork
spading harrow
spae-man
spaghetti Western
spaghetti and meat balls
spaghetti western
spall off
spalling hammer
span blocks
span dog
span iron
span loading
span of apprehension
span of attention
span of meaning
span roof
span shackle
span-
span-counter
span-farthing
span-hapenny
span-long
span-new
span-roof
spandrel frame
spandrel step
spandrel wall
spang-new
spangle-baby
spangled glass
spanish american
spanish bayonet
spanish broom
spanish fly
spanish heel
spanish influenza
spanish mackerel
spanish moss
spanish needles
spanish omelet
spanish paprika
spanish rice
spank along
spanker boom
spanker gaff
spanker peak halyard
spanker sheet
spanker vang
spanking new
spanking pace
spanking wind
spanking-new
spanner wrench
spanner-tight
spar bridge
spar buoy
spar ceiling
spar deck
spar down
spar torpedo
spar tree
spar varnish
spar-deck vessel
spar-decked
spar-decker
spare a thought for
spare diet
spare no effort
spare no expense
spare no pains
spare nothing
spare room
spare the price
spare the rod
spare time
spare tire
spare tyre
spare-bodied
spare-built
spare-fed
spare-handed
spare-handedly
spare-looking
spare-rib
spare-set
spare-time
spare-time activity
sparge pipe
sparing of words
sparingness of words
spark advance
spark arrester
spark chamber
spark coil
spark condenser
spark discharge
spark frequency
spark gap
spark generator
spark instant
spark knock
spark lead
spark lever
spark micrometer
spark of life
spark off
spark plug
spark potential
spark spectrum
spark transmission
spark transmitter
spark-over
spark-plug
spark-plug wrench
sparked-back
sparking lamp
sparking plug
sparking points
sparking voltage
sparkle metal
speak falsely
speak for
speak for Buncombe
speak for itself
speak highly of
speak ill of
speak ill of behind your back
speak imperfectly
speak in high terms of
speak in privacy
speak in riddles
speak in tongues
speak incoherently
speak inopportunely
speak one's mind
speak one's piece
speak out
speak plainly
speak poorly
speak slightingly of
speak soothing words
speak the truth
speak thickly
speak through your nose
speak to
speak to the winds
speak too late
speak too soon
speak true
speak up
speak up for
speak volumes
speak warmly of
speak well for
speak well of
speak with
speak with forked tongue
speak words of wisdom
speak your mind
speak your piece
speak-easy
speaker hole
speaker key
speaker system
speaker unit
speaker's platform
speaker's stand
speaking arc
speaking clock
speaking generally
speaking in tongues
speaking of
speaking part
speaking pipe
speaking rod
speaking stop
speaking terms
speaking trumpet
speaking tube
speaking type
speaking up for
speaking-to
speaking-trumpet
speaking-tube
spear bed
spear crowfoot
spear foot
spear grass
spear gun
spear hand
spear hook
spear javelin
spear kin
spear lily
spear plate
spear play
spear point
spear pyrites
spear rest
spear rod
spear side
spear thistle
spear thrower
spear widgeon
spear-bearing
spear-bill
spear-billed
spear-bound
spear-brandishing
spear-breaking
spear-carrier
spear-fallen
spear-famed
spear-grass
spear-head
spear-head spoon
spear-headed
spear-high
spear-nosed
spear-pierced
spear-pointed
spear-shaking
spear-shaped
spear-skilled
spear-splintering
spear-swept
spear-thrower
spear-throwing
spear-wielding
spearmint oil
special act
special affinity
special agent
special area
special article
special assessment
special case
special circumstance
special committee
special consideration
special constable
special contract
special correspondent
special court-martial
special delivery
special demurrer
special dividend
special drawing rights
special edition
special effect
special effects
special electronic
special favor
special full-dress uniform
special handling
special hospital
special interest
special interests
special jury
special knowledge
special library
special licence
special map
special order
special orders
special partner
special partnership
special permission
special pleader
special pleading
special police
special privilege
special providence
special relativity
special rule
special school
special session
special sessions
special situation stock
special sort
special staff
special term
special theory of relativity
special treatment
special troops
special-delivery
special-interest group
special-interest lobby
special-interest pressure
special-process
special-purpose tubes
specialité de la maison
specialize in
specialized dictionary
specialized kinds
specialized knowledge
specialized stones
specialty contract
specialty shop
specialty stock
specie payment
specie point
species pectorales
specific activity
specific character
specific charge
specific conductance
specific duty
specific epithet
specific gravity
specific heat
specific heat capacity
specific humidity
specific immunity
specific impulse
specific inductive capacity
specific inflammation
specific performance
specific reluctance
specific remedy
specific resistance
specific therapy
specific treatment
specific viscosity
specific volume
specific-gravity
specific-gravity balance
specific-gravity bottle
specific-gravity bulbs
specifica requirements
specifically provide
specimen bottle
specimen plant
specio-
specious appearance
specious argument
specious present
specious reasoning
speck block
speckle loon
speckle perch
speckle trout
speckle-backed
speckle-bellied
speckle-billed
speckle-breasted
speckle-coated
speckle-faced
speckle-marked
speckle-skinned
speckle-starred
speckled Sussex
speckled trout
spectacle case
spectacle clew
spectacle coot
spectacle frame
spectacle furnace
spectacle iron
spectacle stone
spectacled cobra
spectator sport
specter bat
specter candle
specter crab
specter lemur
specter shrimp
specter-fighting
specter-haunted
specter-looking
specter-mongering
specter-pallid
specter-staring
specter-thin
specter-wan
spectra yellow
spectral classification
spectral color
spectral ghost
spectral line
spectral luminous efficiency
spectral series
spectral type
spectro-
spectroscopic analysis
spectroscopic binary
spectroscopic camera
spectrum analysis
spectrum color
spectrum locus
spectrum-luminosity diagram
speculate in stocks
speculative geometry
speculative philosophy
speculative securities
speculative stock
speculum metal
speech abnormality
speech accent
speech act
speech area
speech center
speech choir
speech circuit
speech clinic
speech community
speech correction
speech curve
speed light
speed limit
speed maniac
speed merchant
speed meter
speed of sound
speed on
speed on its way
speed over the bottom
speed over the ground
speed pulley
speed record
speed recorder
speed reducer
speed regulator
speed rigger
speed road
speed sheet
speed sight
speed skate
speed sprayer
speed test
speed the parting guest
speed tool
speed trap
speed truck
speed up
speed-length ratio
speed-up
speeding-place
speedway race
spek-boom
spell backward
spell down
spell of nerves
spell of rain
spell of work
spell off
spell out
spell-banned
spell-bind
spell-bound
spell-casting
spell-caught
spell-free
spell-invoking
spell-like
spell-raised
spell-riveted
spell-set
spell-sprung
spell-stopped
spell-struck
spell-weaving
spelling bee
spelling book
spelling match
spelling pronunciation
spelling reform
spelling reformer
spelter calciner
spelter chills
spelter solder
spencer mast
spend a penny
spend as if money grew on trees
spend like a drunken sailor
spend money like water
spend more than you have
spend the time
spend time
spend what you haven't got
spend your time in
spend yourself
spend yourself for
spend-all
spend-good
spending money
spending-money
spendthrift of your tongue
spendthrift trust
spenserian sonnet
spenserian stanza
spent-gnat
spent-gnat fly
sperm aster
sperm candle
sperm cell
sperm center
sperm nucleus
sperm oil
sperm receptor
sperm sac
sperm whale
sperm whaler
sperm whaling
sperm-
sperm-whale porpoise
spermat-
spermathecal gland
spermatic cord
spermatic fluid
spermatic plexus
spermatic veins
spermato-
spermatophore sac
sperm-
spermicidal jelly
spermo-
spew out
spewing sickness
spey cast
sphae-ropsidaceous
sphaero-
sphagnum bog
sphagnum frog
sphagnum moss
spheno-
spheno-occipital
sphenoid bone
sphere circle
sphere crystals
sphere fungus
sphere gap
sphere geometry
sphere of influence
sphere of work
sphere tracks
sphere-born
sphere-descended
sphere-filled
sphere-found
sphere-headed
sphere-shaped
sphere-tuned
spheres of influence
spherical aberration
spherical angle
spherical coordinate
spherical coordinates
spherical excess
spherical geometry
spherical polygon
spherical sailing
spherical triangle
spherical trigonometry
spherico-
sphero-
spheroidal galaxy
spherometer caliper
sphinx baboon
sphinx caterpillar
sphinx moth
sphinxes without secrets
sphygmo-
spice ball
spice birch
spice box
spice cake
spice currant
spice grinder
spice mill
spice nut
spice of wit
spice plate
spice shop
spice store
spice trade
spice tree
spice-bearing
spice-box
spice-breathing
spice-burnt
spice-cake
spice-fraught
spice-laden
spice-warmed
spice-wood
spicebush silk moth
spicebush swallowtail
spici-
spick and span
spick and span new
spick-and-span
spick-and-spandy
spick-and-spanness
spick-span-new
spiculi-
spicy fleabane
spider ant
spider band
spider beetle
spider bug
spider cart
spider catcher
spider cell
spider crab
spider diver
spider eater
spider fern
spider fly
spider grass
spider hoop
spider hunter
spider leg
spider lily
spider line
spider mite
spider monkey
spider nevus
spider orchid
spider orchis
spider phaeton
spider plant
spider shell
spider stitch
spider wagon
spider wasp
spider web
spider wheel
spider's web
spider-catcher
spider-crab
spider-fingered
spider-hunting wasp
spider-leg
spider-leg table
spider-legged
spider-leggy
spider-like
spider-limbed
spider-line
spider-shanked
spider-spun
spider-web
spider-webby
spiderwort family
spiegel charger
spiegel iron
spiff up
spiffed up
spigot joint
spike bit
spike bowsprit
spike buck
spike disease
spike grass
spike heath
spike heel
spike knot
spike lavender
spike nail
spike oil
spike rush
spike shell
spike team
spike tub
spike your guns
spike-billed
spike-horned
spike-kill
spike-lavender oil
spike-leaved
spike-nail
spike-pitch
spike-pitcher
spike-rush
spike-tailed
spike-tooth
spike-tooth harrow
spiked alder
spikenard tree
spiketail coat
spiketail family
spiking piece
spile driver
spiling batten
spill blood
spill box
spill ink
spill it
spill light
spill out
spill over
spill stream
spill the beans
spill your guts
spill-
spill-over
spillet fishing
spilling line
spilt milk
spin a long yarn
spin bowler
spin casting
spin fisherman
spin fishing
spin house
spin in
spin like a teetotum
spin like a top
spin off
spin out
spin quantum number
spin rocks
spin stabilization
spin the bottle
spin the plate
spin the platter
spin wave
spin-dried
spin-drier
spin-dry
spin-dryer
spin-drying
spin-house
spin-off
spin-stabilized rocket
spin-text
spina bifida
spinach beet
spinach blight
spinach dock
spinach flea beetle
spinach green
spinach yellows
spinach-colored
spinach-rhubarb
spinal accessory nerve
spinal anaesthesia
spinal anesthesia
spinal canal
spinal column
spinal cord
spinal meningitis
spinal tap
spindle bander
spindle fiber
spindle fibers
spindle file
spindle kin
spindle oil
spindle pointer
spindle sander
spindle shell
spindle side
spindle sprout
spindle step
spindle stone
spindle stretcher
spindle stromb
spindle temper
spindle tree
spindle tuber
spindle whorl
spindle-cell
spindle-cell sarcoma
spindle-celled
spindle-formed
spindle-legged
spindle-pointed
spindle-rooted
spindle-shanked
spindle-shaped
spindle-shinned
spindle-side
spindle-tree
spindling sprout
spine cell
spine-ache
spine-bashing
spine-breaking
spine-broken
spine-chiller
spine-chilling
spine-clad
spine-covered
spine-finned
spine-headed
spine-pointed
spine-protected
spine-rayed
spine-tail
spine-tailed
spine-tailed swift
spine-tipped
spinel group
spinel pink
spinel ruby
spinel-red
spinet desk
spini-
spinnaker boom
spinnaker pole
spinnaker staysail
spinner of yarns
spinner play
spinning axis
spinning box
spinning electrons
spinning frame
spinning gland
spinning head
spinning house
spinning jenny
spinning lathe
spinning machine
spinning mammilla
spinning mite
spinning mule
spinning out
spinning pot
spinning top
spinning tube
spinning wheel
spinning-house
spinning-jenny
spinning-out
spinning-wheel
spino-
spino-olivary
spino-olivary tract
spino-cerebellar tract
spino-cerebellar tract
spino-cerebellar tract
spino-process
spino-branched
spino-finned
spino-foliaged
spino-leaved
spino-pointed
spino-serrate
spino-tailed
spino-tipped
spinous-toothed
spinul-i-
spiny anteater
spiny bur
spiny cocklebur
spiny dogfish
spiny lizard
spiny lobster
spiny ray
spiny-backed
spiny-coated
spiny-crested
spiny-finned
spiny-footed
spiny-fruited
spiny-haired
spiny-leaved
spiny-legged
spiny-margined
spiny-pointed
spiny-rayed
spiny-ribbed
spiny-skinned
spiny-tailed
spiny-tipped
spiny-toothed
spiral balance
spiral bevel gear
spiral binding
spiral casing
spiral galaxy
spiral gear
spiral loop
spiral nebula
spiral notebook
spiral of Archimedes
spiral shell end mill
spiral spring
spiral staircase
spiral stairs
spiral upward
spiral-bound
spiral-coated
spiral-geared
spiral-grooved
spiral-horned
spiral-nebula
spiral-nebula hypothesis
spiral-pointed
spiral-spring
spiral-vane
spiraling prices
spiraling up
spire light
spire-bearer
spire-shaped
spire-steeple
spiric body
spirit away
spirit blue
spirit butterfly
spirit compass
spirit control
spirit duck
spirit duplicator
spirit gum
spirit lamp
spirit level
spirit leveling
spirit manifestation
spirit of hartshorn
spirit of nitrous ether
spirit of the age
spirit of the sea
spirit of the time
spirit of turpentine
spirit rapper
spirit rapping
spirit up
spirit varnish
spirit vinegar
spirit world
spirit writing
spirit-awing
spirit-boiling
spirit-born
spirit-bowed
spirit-bribing
spirit-broken
spirit-cheering
spirit-chilling
spirit-crushed
spirit-crushing
spirit-drinking
spirit-fallen
spirit-freezing
spirit-froze
spirit-guided
spirit-haunted
spirit-healing
spirit-inspiring
spirit-lifting
spirit-marring
spirit-numb
spirit-piercing
spirit-possessed
spirit-prompted
spirit-pure
spirit-quelling
spirit-rapper
spirit-rapping
spirit-refreshing
spirit-rousing
spirit-sinking
spirit-small
spirit-soothing
spirit-speaking
spirit-stirring
spirit-stricken
spirit-thrilling
spirit-torn
spirit-troubling
spirit-walking
spirit-wearing
spirit-wise
spirits of ammonia
spirits of camphor
spirits of hartshorn
spirits of salt
spirits of the air
spirits of turpentine
spirits of wine
spiritual being
spiritual blindness
spiritual body
spiritual bouquet
spiritual cleansing
spiritual climate
spiritual death
spiritual director
spiritual father
spiritual healer
spiritual healing
spiritual humbug
spiritual incest
spiritual leader
spiritual love
spiritual presence
spiritual purification
spiritual void
spiritual wife
spiritual-minded
spiritual-mindedly
spiritual-mindedness
spiritually blind
spiritually cleansed
spiritually purified
spirituous tincture
spiritus asper
spiritus camphorae
spiritus frumenti
spiritus lenis
spiritus mundi
spirketing plate
spiro compound
spiro-
spit and image
spit and polish
spit bug
spit curl
spit image
spit in the ocean
spit it out
spit on your hands
spit up
spit upon
spit-and-polish
spit-ball
spite fence
spite of
spite wall
spite work
spitfire jib
spitting cobra
spitting distance
spitting image
spitting snake
spittle bug
spittle fly
spittle insect
spitz dog
spitz flute
spline shaft
spline weight
splint armor
splint bar
splint basket
splint bone
splint coal
splint peeler
splint seat
splint-bottom
splint-bottomed
splinter bar
splinter bulkhead
splinter deck
splinter group
splinter party
splinter-bar
splinter-proof
splish-splash
split 'S'
split T formation
split balance
split decision
split flap
split hairs
split in two
split infinitive
split nut
split open
split pea
split personality
split rail
split run
split schedule
split screen
split second
split shift
split shot
split shovel
split spindle
split sprit
split stroke
split the atom
split the difference
split the ear
split the eardrums
split the ears
split the lungs
split the throat
split ticket
split tin
split turning
split up
split upon a rock
split wheel
split wing
split with laughter
split your head
split your sides
split-
split-bottom
split-ear
split-edge
split-face
split-level
split-lift
split-mouth
split-nosed
split-oak
split-off
split-phase
split-phase motor
split-screen technique
split-second watch
split-timber
split-tongued
split-up
splitmouth sucker
splitting chisel
splitting factor
splitting field
splitting gun
splitting headache
splitting in two
splitting plate
splitting the atom
splitworm moth
spodo-
spoil bank
spoil for
spoil ground
spoil paper
spoil-
spoil-mold
spoil-paper
spoiled brat
sponging house
sponging-house
spongio-
spongo-
spongy-flowered
spongy-footed
spongy-looking
spongy-rooted
spongy-wet
spongy-wooded
spontaneous combustion
spontaneous generation
spontaneous recovery
spontaneous response
spool bed
spool turner
spool turning
spool winder
spool-shaped
spooling bracket
spoon bait
spoon bit
spoon bow
spoon brake
spoon bread
spoon chisel
spoon end
spoon food
spoon gouge
spoon hook
spoon iron
spoon lever
spoon meat
spoon nail
spoon net
spoon oar
spoon out
spoon tool
spoon victual
spoon victuals
spoon-back
spoon-beaked
spoon-billed
spoon-bowed
spoon-fashion
spoon-fashioned
spoon-fed
spoon-feed
sports day
sports editor
sports jacket
sports page
sports parachutist
sports plane
sports section
sports shirt
sports suit
spot announcement
spot ball
spot blotch
spot board
spot card
spot cards
spot cash
spot check
spot cotton
spot dyeing
spot grain
spot height
spot illustration
spot lamp
spot lens
spot lighting
spot line
spot map
spot news
spot of lunch
spot of sleep
spot pass
spot pawn
spot pickup
spot plate
spot price
spot rot
spot sale
spot stroke
spot test
spot weld
spot welder
spot welding
spot white
spot zone
spot-barred
spot-billed
spot-check
spot-drill
spot-eared
spot-face
spot-grind
spot-leaved
spot-lipped
spot-mill
spot-on
spot-soiled
spot-weld
spot-winged
spotted adder
spotted calla lily
spotted cavy
spotted cowbane
spotted crake
spotted crane's-bill
spotted dick
spotted fever
spotted flycatcher
spotted hemlock
spotted hyena
spotted joe-pye weed
spotted sandpiper
spotted spurge
spotted sunfish
spotted wilt
spotted wintergreen
spotted-beaked
spotted-bellied
spotted-billed
spotted-breasted
spotted-eared
spotted-fever tick
spotted-finned
spotted-leaved
spotted-necked
spotted-tailed
spotted-winged
spotter plane
spotting machine
spotting motion
spotting scope
spotty market
spouse-breach
spout adz
spout cup
spout fish
spout hole
spout off
spout out
spout shell
spout-hole
spouting horn
spraddle-legged
sprag road
sprain fracture
sprangle-top
sprat barley
sprat borer
sprat day
sprat loon
sprat-barley
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
spray-decked
spray-shaped
spray-topped
spray-washed
spray-wet
spread a large clew
spread a shade over
spread a shadow over
spread a small clew
spread about
spread city
spread eagle
spread formation
spread light
spread like wildfire
spread on
spread on a color
spread on the record
spread out
spread over
spread reflection
spread sail
spread sheet
spread sideways
spread sidewise
spread the toils
spread with
spread yourself
spread-eagle
spread-eagled
spread-eagleism
spread-eagleist
spread-eagling
spread-out
spread-over
spread-set
spreader beam
spreader car
spreading abroad
spreading board
spreading dogbane
spreading factor
spreading like a cancer
spreading like wildfire
spreading machine
spreading out
spreading too thin
sprig bolt
sprig budding
sprig-bit
sprig-tailed
sprightly wit
spring a leak
spring a mine under
spring a surprise
spring apart
spring azure
spring back
spring balance
spring barley
spring base
spring beam
spring beauty
spring bed
spring beetle
spring bell
spring binder
spring block
spring bolt
spring bows
spring brass
spring caliper
spring calipers
spring cankerworm
spring catarrh
spring catch
spring chair
spring chicken
spring clip
spring collet
spring corn
spring cotter
spring cowslip
spring cress
spring detent
spring die
spring dividers
spring draft gear
spring faucet
spring fever
spring flood
spring fly
spring frog
spring from
spring governor
spring grain aphis
spring grass
spring green
spring gun
spring hammer
spring harrow
spring heath
spring heel
spring herring
spring hoe
spring hook
spring iris
spring key
spring lamb
spring latch
spring leaf
spring ligament
spring lily
spring line
spring lock
spring mattress
spring molding
spring mushroom
spring needle
spring nut
spring oats
spring onion
spring open
spring orange
spring orchid
spring pad
spring padlock
spring peeper
spring perch
spring pin
spring plate
spring pole
spring rail
spring rains
spring ring
spring rye
spring safety valve
spring sage
spring saxifrage
spring scale
spring scorpion grass
spring seat
spring snow
spring snowflake
spring starflower
spring stay
spring steel
spring stripper
spring switch
spring temper
spring the eye
spring tide
spring to your feet
spring tool
spring tooth
spring training
spring up
spring upon
spring valve
spring vetch
spring vetchling
spring vise
spring wagon
spring washer
spring water
spring weir
spring wheat
spring wheel
spring-
spring-beam
spring-blooming
spring-blossoming
spring-board
spring-born
spring-budding
spring-clean
spring-cleaner
spring-cleaning
spring-driven
spring-flood
spring-flowering
spring-framed
spring-gathered
spring-grown
spring-habited
spring-head
spring-headed
spring-heeled
spring-jointed
spring-loaded
spring-lock
spring-made
spring-peering
spring-planted
spring-plow
spring-rail frog
spring-raised
spring-seated
spring-set
spring-sneaked
spring-sowed
spring-sown
spring-spawning
spring-stricken
spring-tail
spring-taught
spring-tempered
spring-tide
spring-tight
spring-tooth harrow
spring-touched
spring-trip
spring-trip hoe
spring-well
spring-wood
springer spaniel
springing cow
springing line
springing point
springing wall
springtide of life
springtime of life
sprinkler head
sprinkler system
sprinkling can
sprinkling system
sprint car
sprint medley
sprint race
sprite crab
spritsail topmast
spritsail yard
sproat hook
sprocket wheel
sprout cell
sprout forest
sprout from
sprout up
sprout wings
sprouted oats
spruce bark beetle
spruce beer
spruce budworm
spruce fir
spruce grouse
spruce pine
spruce sawfly
spruce up
spruce yellow
spruced up
sprung molding
sprung rhythm
spud casing
spud in
spud-bashing
spudding bar
spule-bane
spun glass
spun hay
spun out
spun rayon
spun silk
spun sugar
spun yarn
spun-out
spunk up
spur bit
spur blight
spur bunting
spur chuck
spur dike
spur forger
spur fowl
spur gall
spur gear
spur gear wheel
spur gearing
spur grass
spur mortise gear
spur on
spur pepper
spur pinion
spur pruning
spur royal
spur ryal
spur shell
spur shore
spur stone
spur timber
spur track
spur tree
spur valerian
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-geared
spur-gilled
spur-heeled
spur-jingling
spur-leather
spur-of-the-moment
spur-of-the-moment response
spur-off-the-moment
spur-rowel
spur-royal
spur-shaped
spur-tailed
spur-toed
spur-wing
spur-winged
spurge daphne
spurge family
spurge flax
spurge ipecac
spurge laurel
spurge moth
spurge nettle
spurge olive
spurge thyme
spurge-wort
spurious wing
spurling line
spurling pipe
spurry sandwort
spurt of rain
sputter and stop
sputum cup
spy glass
spy on
spy out
spy plane
spy ship
spy upon
spy-
spy-catcher
spy-glass
squab broiler
squab pie
squab-pie
squabble over
squad car
squad leader
squad room
squadron leader
squadrs-left
squadrs-right
squall cloud
squall line
squam duck
squam-
squamo-
squamo-occipital
squamoso-
squamous epithelium
squander in dribs and drabs
squander-squash
square accounts
square accounts with
square and rabbet
square away
square bit
square body
square bracket
square cap
square centimeter
square contingency
square dance
square dancing
square deal
square dealing
square file
square foot
square frame
square inch
square it
square joint
square kilometer
square knot
square leg
square mark
square matrix
square meal
square measure
square meter
square mile
square millimeter
square number
square odds
square of opposition
square off
square one
square peg in a round hole
square piano
square rig
square root
square root planimeter
square sail
square serif
square set
square shake
square shooter
square shooting
square splice
square the circle
square the yards
square things
square tin
square up
square wave
square with
square with the evidence
square with the facts
square yourself with
square-John
square-barred
square-based
square-bashing
square-bladed
square-bodied
square-bottomed
square-browed
square-built
square-butted
square-cheeked
square-chinned
square-countered
square-cut
square-dancer
square-dealing
square-draw
square-drill
square-eared
square-edged
square-elbowed
square-faced
square-figured
square-fronted
square-headed
square-hewn
square-jawed
square-jointed
square-leg
square-lipped
square-looking
square-made
square-marked
square-meshed
square-mouthed
square-necked
square-nosed
square-rigged
square-rigger
square-root flowmeter
square-rumped
square-set
square-set stoping
square-shafted
square-shaped
square-shooting
square-shouldered
square-skirted
square-stalked
square-stem
square-stemmed
square-sterned
square-tailed
square-thread
square-threaded
square-tipped
square-toed
square-toedness
square-toes
square-topped
square-towered
square-wave generator
squared circle
squared off
squared paper
squared ring
squared splice
squaring lathe
squaring the circle
squarroso-
squarroso-dentate
squarroso-lacinate
squarroso-pinnatipartite
squarroso-pinnatisect
squash beetle
squash bite
squash borer
squash bug
squash court
squash flea beetle
squash ladybird
squash rackets
squash racquets
squash tennis
squash vine borer
squash-
squash-vine borer
squashed flat
squat board
squat on
squat tag
squat-bodied
squat-built
squat-hatted
squatter sovereignty
squatter's right
squaw carpet
squaw corn
squaw duck
squaw huckleberry
squaw man
squaw mint
squaw vine
squaw waterweed
squaw winter
squaw-drops
squawk box
squawk duck
squeak by
squeak through
squeal on
squeeegee roller
squeeze bottle
squeeze box
squeeze in
squeeze joint
squeeze out
squeeze out a living
squeeze play
squeeze shut
squeeze your hand
squeeze-box
squeeze-up
squeezed joint
squeezed shut
squeezing out
squelch circuit
squelette clock
squid hound
squid-jigger
squid-jigging
squill blue
squill-like
squinarberry
squinch arch
squinch-eyed
squint brick
squint eyes
squint the eye
squint-eye
squint-eyed
squint-eyedness
squinting construction
squire snapper
squirm out of
squirm with embarrassment
squirm with self-consciousness
squirrel away
squirrel cage
squirrel cage rotor motor
squirrel corn
squirrel cup
squirrel food
squirrel frog
squirrel grass
squirrel hake
squirrel hawk
squirrel monkey
squirrel mouse
squirrel phalanger
squirrel plague
squirrel rifle
squirrel shrew
squirrel something away
squirrel tail
squirrel tail grass
squirrel's-ear
squirrel's-foot fern
squirrel-cage motor
squirrel-colored
squirrel-eyed
squirrel-headed
squirrel-limbed
squirrel-minded
squirrel-tail
squirrel-tail grass
squirrel-trimmed
squirrels-foot fern
squirreltail grass
squirt can
squirt gun
squirt-fire
squirting cucumber
squish-squash
squitch grass
stab at
stab culture
stab in the back
stab kick
stab pass
stab to death
stab wages
stab wound
stabat mater
stabbing pain
stabilization fund
stable color
stable door
stable equation
stable equilibrium
stable fly
stable oscillation
stable police
stable state
stable-born
stable-stand
staccato mark
staccato sound
stack against
stack of bones
stack process
stack room
stack the cards
stack the deck
stack up
stack up with
stack-garth
stacked deck
stacking band
stacking belt
stacking swivel
stadia hair
stadia rod
stadia wire
staff angle
staff bead
staff captain
staff car
staff college
staff commander
staff corps
staff degree
staff department
staff notation
staff nurse
staff of Aesculapius
staff of life
staff of office
staff officer
staff ride
staff rush
staff section
staff sergeant
staff sling
staff surgeon
staff system
staff tree
staff vine
staff walk
staff work
staff-herd
staff-tree family
staffordshire terrier
stag beetle
stag bush
stag dance
stag film
stag gang
stag moss
stag party
stag sumac
stag the market
stag tick
stag’s-horn coral
stag-beetle
stag-evil
stag-eyed
stag-hafted
stag-handled
stag-headed
stag-headedness
stag-horn
stag-horned
stag-necked
stag-sure
stage boat
stage box
stage brace
stage business
stage carriage
stage cloth
stage coachman
stage direction
stage directions
stage director
stage door
stage effect
stage fright
stage left
stage lighting
stage management
stage manager
stage managership
stage micrometer
stage name
stage peg
stage performance
stage performer
stage play
stage player
stage playing
stage pocket
stage presence
stage presentation
stage property
stage right
stage scenery
stage screw
stage set
stage setter
stage setting
stage show
stage technician
stage wagon
stage wait
stage whisper
stage world
stage, the
stage-blanks
stage-bleed
stage-coach
stage-frighten
stage-manage
stage-managed
stage-manager
stage-managing
stage-set
stage-struck
stagger along
stagger belief
stagger grass
stagger head
stagger on
stagger spokes
stagger wire
stagger wires
staggered head
staggering belief
staggering blow
staggering bob
staggering drunk
staghorn coral
staghorn fern
staghorn moss
staghorn sumac
staging area
staging nail
stagnant market
stagnant water
stagnant-blooded
stagnant-minded
stagnant-souled
stagnation mastitis
staight-bred
stain paper
stained glass
stained glass window
stainless steel
stainless-steel ware
stair horse
stair rail
stair rod
stair tower
stair turret
stair well
stair wire
stair-foot
stair-head
stair-step
stair-stepper
staircase curve
staircase shell
stake boat
stake body
stake down
stake driver
stake horse
stake net
stake out
stake race
stake truck
stake your claim
stake-boat
stakes race
staking your claim
stalactite vault
stalactite work
stalagmite marble
stale repetition
stale-drunk
stale-grown
stale-mouthed
stale-worn
stalk borer
stalk disease
stalk smut
stalk-eyed
stalking-horse
stall angl
stall angle
stall angle of attack
stall around
stall for time
stall landing
stall net
stall off
stall plate
stall reader
stall-fed
stall-feed
stall-feeding
stall-like
stall-master
stalling angle
stalling angle of attack
stalling speed
stallion plague
stamin-
stamp and go
stamp battery
stamp book
stamp booklet
stamp copper
stamp dealer
stamp duty
stamp hammer
stamp in the memory
stamp licker
stamp mill
stamp note
stamp of approval
stamp on
stamp out
stamp pad
stamp rock
stamp tax
stamp upon
stamp your foot
stamp-licking
stamped on the memory
stamped securities
stamping ground
stamping mill
stance fatigue
stanch friendship
stanchion gun
stand a chance
stand a good chance
stand aghast
stand agog
stand alone
stand aloof
stand aloof from
stand and be counted against
stand apart
stand around
stand aside
stand at attention
stand at bay
stand at ease
stand at parade rest
stand at the head
stand away
stand back
stand back of
stand 'bail for
stand behind
stand by
stand by the main sheet
stand by the side of
stand by to weigh anchor
stand clear of
stand condemned
stand down
stand drinks
stand easy
stand erect
stand fair to
stand fast
stand fire
stand firm
stand first
stand for
stand for office
stand forth
stand from
stand guard
stand guard over
stand hawk
stand high
stand house
stand in
stand in a white sheet
stand in awe of
stand in dread of
stand in for
stand in for the land
stand in front
stand in good stead
stand in need of
stand in the place of
stand in the stead of
stand in the way
stand in the way of
stand in with
stand in your own light
stand like a post
stand method
stand mute
stand neuter
stand no nonsense
stand of arms
stand of timber
stand off
stand off and on
stand oil
stand on
stand on a course
stand on a straight course
stand on a volcano
stand on ancient ways
stand on ceremony
stand on end
stand on tiptoe
stand on tiptoes
stand on your own
stand on your own feet
stand on your own legs
stand on your own two feet
stand on your rights
stand one in hand
stand opposed
stand opposite
stand or fall with
stand out
stand out from the shore
stand over
stand over against
stand pat
stand ready
stand responsible for
stand rest
stand revealed
stand sentinel
stand shoulder to shoulder
stand shoulder to shoulder with
stand sponsor for
stand still
stand the costs
stand the gaff
stand the hazard of the die
stand the test
stand to
stand to attention
stand to gain
stand to lose
stand to reason
stand to your engagement
stand together
stand treat
stand under
stand up
stand up against
stand up and be counted
stand up for
stand up for Jesus
stand up straight
stand up to
stand up with
stand upon
stand upon a course
stand upon your rights
stand upright
stand vis-a-vis
stand with arms akimbo
stand you in good stead
stand you in stead
stand your ground
stand your trick
stand your watch
stand-by
stand-bys
stand-down
stand-easy
stand-in
stand-off
stand-off half
stand-offish
stand-offishly
stand-offishness
stand-on vessel
stand-patter
stand-pipe
stand-to
stand-up
stand-up comedian
stand-up comedy
stand-up comedy act
stand-up comic
stand-up fight
standard article
standard atmosphere
standard band
standard behavior
standard broadcasting
standard candle
standard cell
standard coke
standard compass
standard cost
standard deviation
standard dialect
standard dollar
standard error
standard gauge
standard language
standard lining
standard microphone
standard money
standard of comfort
standard of life
standard of living
standard of perfection
standard of value
standard operating procedure
standard page
standard phrase
standard pitch
standard position
standard refraction
standard stock
standard time
standard transmission
standard usage
standard work
standard-bearer
standard-bearership
standard-bred
standard-gage
standard-gaged
standard-gauge
standard-gauged
standard-sized
standard-wing
standardized test
stander-by
standing against
standing apart
standing army
standing at attention
standing barrage
standing broad jump
standing committee
standing custom
standing for office
standing gaff
standing high jump
standing jump
standing lug
standing martingale
standing matter
standing on end
standing on its base
standing on its feet
standing on its legs
standing order
standing orders
standing ovation
standing place
standing rigging
standing room
standing room only
standing salt
standing stone
standing to
standing treat
standing up
standing upright
standing vise
standing water
standing wave
standing way
standing-place
standing-wave indicator
standoff coat
standoff half
stanford-binet test
stank hen
stann-
stannel hawk
stannic acid
stannic oxide
stannic sulfide
stannic sulphide
stanno-
stannoso-
staphylo-
staple fiber
staple fur
staple item
staple punch
staple right
staple-fashion
staple-headed
staple-shaped
stapling machine
star acacia
star anise
star anise oil
star aniseed
star antimony
star apple
star belt
star bomb
star buzzard
star capsicum
star catalog
star catalogue
star chart
star check
star chickweed
star cloud
star cluster
star colors
star connection
star coral
star count
star cucumber
star cut
star density
star disk
star drift
star drill
star dust
star facet
star feed
star fern
star finch
star finder
star fort
star gauge
star gear
star ghost
star gooseberry
star grass
star hummingbird
star hyacinth
star image
star in the firmament
star ipomoea
star jasmine
star jelly
star lily
star lot
star map
star metal
star motion
star network
star of David
star of bethlehem
star-born
star-bright
star-broidered
star-chamber
star-climbing
star-connected
star-crossed
star-crossed life
star-decked
star-directed
star-distant
star-dogged
star-dust
star-embroidered
star-eyed
star-fashion
star-fed
star-flower
star-flowered
star-gaze
star-gazer
star-gazing
star-grass
star-inwrought
star-leaved
star-led
star-like
star-mouthed
star-nosed
star-nosed mole
star-of-Bethlehem
star-of-Jerusalem
star-of-bethlehem
star-paved
star-peopled
star-pointed
star-proof
star-ribbed
star-scattered
star-shaped
star-shot
star-skilled
star-spangled
star-spangled banner
star-staring
star-stone
star-studded
star-surveying
star-sweet
star-taught
star-thistle
star-throated
star-watching
star-wearing
star-wise
star-ypointing
starboard anchor
starboard engine
starboard engine ahead
starboard tack
starch blue
starch cellulose
starch corn
starch gum
starch hyacinth
starch layer
starch paste
starch room
starch sheath
starch sirup
starch star
starch syrup
starch tree
starch-digesting
starch-producing
starch-reduced
starch-sized
stare at
stare decisis
stare down
stare hard
stare openmouthed
stare out
stare out of countenance
stare you in the face
stare-about
starfish flower
stark blind
stark dead
stark naught
stark upright
stark-awake
stark-becalmed
stark-blind
stark-calm
stark-dead
stark-drunk
stark-dumb
stark-false
stark-mad
stark-naked
stark-naught
stark-new
stark-raving
stark-raving mad
stark-spoiled
stark-staring
stark-staring mad
stark-stiff
stark-wild
stark-wood
starling stone
starnose mole
starring role
starry campion
starry grasswort
starry heaven
starry heavens
starry host
starry orbs
starry-bright
starry-eyed
starry-eyed over
starry-flowered
starry-golden
starry-headed
starry-nebulous
stars and bars
stars and stripes
stars-of-Bethlehem
stars-of-Jerusalem
start all over
start aside
start back
start going
start in
start music
start off
start on
start out
start the ball rolling
start up
start-naked
start-off
start-stop switch
start-up
starter-off
starting block
starting box
starting friction
starting gate
starting grid
starting handle
starting line
starting note
starting place
starting point
starting post
starting price
starting punch
starting stalls
starting step
starting torque
starting-hole
startle the echoes
startling resemblance
starvation diet
starvation treatment
starvation wages
starved-looking
stash away
stat mi
state a grievance
state aid
state assembly
state attorney
state bank
state bond
state capitalism
state chairman
state chamber
state church
state college
state convention
state coordinate system
state flower
state forest
state guard
state highway
state hospital
state legislature
state medicine
state mutual
state note
state of affairs
state of being
state of being one
state of expectancy
state of grace
state of mind
state of nature
state of nerves
state of suspense
state of the exchequer
state of the market
state of things
state of war
state ownership
state paper
state police
state prayers
state prison
state religion
state rights
state school
state senator
state services
state socialism
state socialist
state tax
state trial
state trooper
state university
state your case
state's attorney
state's evidence
state-aided
state-caused
state-changing
state-educated
state-enforced
state-fed
state-house
state-making
state-mending
state-monger
state-of-the-art
state-owned
state-paid
state-pensioned
station house
station hut
station identification
station interference
station jack
station keeping
station mark
station point
station pointer
station pole
station selector
station wagon
station-house
station-to-station
station-to-station call
stationary dive
stationary engine
stationary engineer
stationary engineering
stationary front
stationary orbit
stationary point
stationary state
stationary wave
stationery store
stations for diving
stations of the Cross
stations of the cross
statistical communication
statistical independence
statistical mechanics
statistical prediction
statistical probability
statistical survey
statistically probable
stato-
statu quo ante
statuary bronze
statuary marble
statue maker
statue making
statue of liberty
statue-blind
statue-bordered
statue-turning
statuelike repose
statues personal
status emphaticus
status in quo
status quo
status quo ante
status seeker
status symbol
status-seeking
statute book
statute fair
statute labor
statute law
statute merchant
statute mile
statute of limitations
statute roll
statute staple
statute-barred
statute-book
statutes mixed
statutory crime
statutory declaration
statutory law
statutory lien
statutory next of kin
statutory offense
statutory rape
statutory referendum
staunch belief
staunch friend
staunch friendship
stauro-
stave basket
stave in
stave oak
stave off
stave pipe
stave rhyme
stay alert
stay alive
stay aloof
stay at
stay at home
stay awake
stay away
stay away in droves
stay bar
stay boom
stay briefed
stay busk
stay chain
stay detached from
stay employed
stay for
stay foresail
stay girder
stay hole
stay in hiding
stay in line
stay in shape
stay in soundings
stay in the background
stay in the shade
stay inshore
stay it out
stay late
stay law
stay near
stay of execution
stay on
stay on the beam
stay on the treadmill
stay on your heels
stay on your tail
stay out
stay over
stay pin
stay plow
stay put
stay stitching
stay tackle
stay tap
stay the distance
stay tube
stay up
stay up for
stay up into the small hours
stay up late
stay with it
stay young
stay your hand
stay-a-while
stay-at-home
stay-bearer
stay-bolt
stay-in
stay-in strike
stay-log
stay-ship
stay-tape
staying over
staying power
staysail schooner
steadfast faith
steady market
steady nerves
steady pin
steady rest
steady so
steady state
steady state theory
steady temper
steady-eyed
steady-footed
steady-going
steady-handed
steady-handedness
steady-headed
steady-hearted
steady-looking
steady-minded
steady-nerved
steady-state theory
steady-state universe
steady-stream
steady as you go
steak and kidney pie
steak hammer
steak knife
steak raid
steak set
steak tartar
steak tartare
steal a march
steal a march on
steal a march upon
steal along
steal away
steal in
steal on the ear
steal the show
steal up on
steal your stuff
steal your thunder
steam at flank speed
steam bath
steam beer
steam blow
steam blower
steam boiler
steam boiler insurance
steam box
steam cabinet
steam carriage
steam case
steam chest
steam cleaner
steam cleaning
steam coal
steam cock
steam coil
steam color
steam condenser
steam cure
steam cylinder
steam digger
steam distillation
steam dome
steam dredger
steam drop
steam drop hammer
steam engine
steam engineer
steam engineering
steam excavator
steam feed
steam filature
steam fire engine
steam fit
steam fitter
steam fitting
steam fog
steam frigate
steam gas
steam gauge
steam gun
steam hammer
steam harvester
steam heat
steam heater
steam heating
steam in line
steam in line of bearing
steam injector
steam iron
steam jacket
steam jammer
steam joint
steam knife
steam lance
steam lap
steam launch
steam lead
steam line
steam locomotive
steam loop
steam mason
steam metal
steam molder
steam navvy
steam nigger
steam nozzle
steam organ
steam owner
steam packing
steam piano
steam pipe
steam piping
steam plow
steam point
steam port
steam power
steam press
steam printing
steam propulsion
steam pump
steam radiator
steam radio
steam ram
steam road
steam roller
steam room
steam schooner
steam shovel
steam sizes
steam sloop
steam stamp
steam still
steam table
steam tackle
steam thresher
steam trap
steam tug
steam turbine
steam twill
steam up
steam valve
steam vessel
steam whistle
steam yacht
steam-boiler
steam-chest
steam-clean
steam-cleaned
steam-cooked
steam-cut
steam-distill
steam-dredge
steam-dried
steam-driven
steam-eating
steam-engine
steam-filled
steam-going
steam-heat
steam-heated
steam-lance
steam-lanced
steam-lancing
steam-laundered
steam-pocket
steam-processed
steam-propelled
steam-ridden
steam-roll
steam-roller
steam-shovel
steam-treated
steam-turbine
steam-turbine locomotive
steam-type
steam-wrought
steamboat Gothic
steamboat coal
steamboat gothic
steamboat ratchet
steamed pudding
steamed up
steamed up about
steamer anchorage
steamship traffic
steamship travel
steamship voyage
stearic acid
stearo-
stearoyl group
stearoyl radical
stea-
steato-
steel band
steel bar
steel baron
steel blue
steel bronze
steel company
steel concrete
steel construction
steel drawer
steel dresser
steel electrotpe
steel emery
steel engraver
steel engraving
steel factory
steel fiber
steel glass
steel gray
steel grey
steel guitar
steel hand
steel lumber
steel magnate
steel man
steel manufacturer
steel manufacturing
steel master
steel measurer
steel merchant
steel mill
steel mirror
steel orchestra
steel pen
steel plate
steel presser
steel share
steel spring
steel square
steel string
steel town
steel trap
steel wire gauge
steel wool
steel yourself
steel-black
steel-blue
steel-bound
steel-bow
steel-bright
steel-cage
steel-cage construction
steel-capped
steel-cased
steel-clad
steel-clenched
steel-cold
steel-colored
steel-covered
steel-cut
steel-die printing
steel-digesting
steel-edged
steel-faced
steel-framed
steel-grained
steel-graven
steel-gray
steel-green
steel-hard
steel-hardened
steel-head
steel-headed
steel-hilted
steel-lined
steel-nerved
steel-pen
steel-plated
steel-pointed
steel-rimmed
steel-riveted
steel-shafted
steel-sharp
steel-shod
steel-strong
steel-studded
steel-tempered
steel-tipped
steel-tired
steel-topped
steel-trap
steeled against
steelhead trout
steep price
steep slope
steep-ascending
steep-backed
steep-bending
steep-descending
steep-down
steep-faced
steep-gabled
steep-hanging
steep-pitched
steep-pointed
steep-rising
steep-roofed
steep-scarped
steep-sided
steep-streeted
steep-to
steep-up
steep-walled
steep-yawning
steeped in iniquity
steeped in vice
steeple bellflower
steeple cup
steeple engine
steeple hat
steeple headdress
steeple hunt
steeple hunter
steeple hunting
steeple jack
steeple race
steeple racer
steeple racing
steeple skull
steeple-crown
steeple-crowned
steeple-head
steeple-high
steeple-house
steeple-jacking
steeple-loving
steeple-roofed
steeple-shadowed
steeple-shaped
steeple-studded
steeple-topped
steer a middle course
steer a straight course
steer an even course
steer away from
steer clear of
steer for
steer oar
steer toward
steerage passenger
steering arm
steering axle
steering box
steering bridge
steering column
steering committee
steering crutch
steering engine
steering fan
steering fork
steering gear
steering handle
steering head
steering joint
steering knuckle
steering lever
steering light
steering line
steering lock
steering oar
steering pillar
steering wheel
stego-
stellar cosmogony
stellar magnitude
stellar photometry
stellate-crystal
stellate-crystal fungus
stellate-pubescent
stem anchor
stem blight
stem borer
stem break
stem canker
stem cell
stem climber
stem cutting
stem duchy
stem eelworm
stem end
stem father
stem from
stem ginger
stem girdler
stem leaf
stem length
stem mother
stem rot
stem rust
stem sapper
stem sawfly
stem sickness
stem smut
stem stitch
stem the current
stem the flood
stem the tide
stem turn
stem work
stem-bearing
stem-bud
stem-clasping
stem-end rot
stem-sick
stem-wind
stem-winder
stem-winding
stem-winding watch
sten-
stench bomb
stench of decay
stench trap
stencil cutter
stencil cutting
stencil machine
stencil painting
stencil paper
stencil pen
stencil printing
steneo saurys
steno-
stenographing machine
stent net
stent roll
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step down
step fault
step flight
step forward
step function
step gauge
step grate
step in
step into a fortune
step into the limelight
step into the place of
step into the shoes of
step joint
step lively
step of time
step off
step on
step on it
step on its tail
step on the gas
step on your corns
step on your toes
step out
step out of
step over
step rail
step rate
step rocket
step socket
step stool
step tap
step terrace
step to the fore
step to the front
step turn
step up
step up the ladder
step ward
step wheel
step-
step-and-repeat
step-back
step-back relay
step-by-step
step-by-step switching
step-cline
step-cone
step-cone pulley
step-cut
step-down
step-down transformer
step-in
step-ins
step-ladder
step-log
step-off
step-on
step-parent
step-up
step-up transformer
steppe cat
steppe disease
steppe murrain
steppe rue
stepped line
stepped-up
stepping in
stepping line
stepping pace
stepping stone
stepping-off
stepping-off place
stepping-out
stepping-stone
stepping-stones
steps and measures
stercoral ulcer
sterculia gum
stere-
stereo camera
stereo formula
stereo microphone
stereo-
stereophonic sound system
stereophonic system
stereoscopic microscope
stereospecific catalyst
stereospecific polymer
stereotyped behavior
stereotyped saying
sterling area
sterling bloc
sterling silver
sprint anchor
sprint board
sprint boat
sprint chase
sprint chaser
sprint fast
sprint frame
sprint gallery
sprint gun
sprint hatch
sprint hatchway
sprint hook
sprint knee
sprint ladder
sprint line
sprint race
sprint rail
sprint sea
sprint sheets
sprint staysail
sprint timber
sprint tube
sprint walk
sprint wave
sprint wheel
sprint window
sprint-bearer
sprint-board
sprint-born
sprint-browed
sprint-chase
sprint-chaser
sprint-eyed
sprint-faced
sprint-fast
sprint-featured
sprint-gated
sprint-issuing
stern-lipped
stern-looking
stern-minded
stern-mouthed
stern-post
stern-set
stern-sheet
stern-sounding
stern-spoken
stern-visaged
stern-wheel
stern-wheeler
sterno-
sterro metal
sterro-metal
stetho-
stevedore knot
stevedore's knot
stew in your own juice
stew over
steward's department
stewing chicken
sthula sharira
stib-
stibio-
stick around
stick aroundor about
stick at
stick at nothing
stick bean
stick bug
stick by
stick caterpillar
stick chair
stick close
stick closer than a brother
stick control
stick down
stick fast
stick figure
stick for
stick in
stick in the mud
stick in your craw
stick in your crop
stick in your gizzard
stick in your throat
stick insect
stick it
stick it out
stick lac
stick licorice
stick like a barnacle
stick like a leech
stick like a limpet
stick like a wet shirt
stick like glue
stick like the shadow of
stick like wax
stick of wood
stick out
stick out a mile
stick out like a sore thumb
stick out over
stick pin
stick rider
stick salve
stick shift
stick to
stick to it
stick to like a barnacle
stick to the
stick to the facts
stick to your colors
stick to your guns
stick to your knitting
stick to your last
stick together
stick up
stick up for
stick with
stick with it
stick your head in the sand
stick your long nose into
stick your neck out
stick your nose in
stick-at-it
stick-at-it-ive
stick-at-itive
stick-at-itiveness
stick-at-nothing
stick-back
stick-button
stick-candy
stick-dice
stick-ear
stick-in-the-mud
stick-jaw
stick-lac
stick-leg
stick-legged
stick-out
stick-ride
stick-to-it-iveness
stick-to-itive
stick-to-itably
stick-to-itiveness
stick-up
sticker-in
sticker-on
sticker-up
sticking out
sticking piece
sticking place
sticking plaster
sticking point
sticking power
sticking salve
sticking tommy
stickle for
sticks and stones
sticks, the
sticktight flea
stickup job
stickup man
sticky dog
sticky end
sticky fingers
sticky mess
sticky tape
sticky weather
sticky wicket
sticky willie
sticky-eyed
sticky-fingered
stiff as a poker
stiff as buckram
stiff aster
stiff bit
stiff breeze
stiff climb
stiff collar
stiff gentian
stiff market
stiff neck
stiff price
stiff temper
stiff wind
stiff-arm
stiff-armed
stiff-backed
stiff-bearded
stiff-bent
stiff-billed
stiff-bodied
stiff-bolting
stiff-boned
stiff-bosomed
stiff-branched
stiff-built
stiff-clay
stiff-collared
stiff-docked
stiff-dressed
stiff-eared
stiff-grown
stiff-haired
stiff-horned
stiff-ironed
stiff-jointed
stiff-jointedness
stiff-kneed
stiff-lamb disease
stiff-land
stiff-leathered
stiff-leaved
stiff-legged
stiff-limbed
stiff-lipped
stiff-minded
stiff-mud
stiff-neck
stiff-necked
stiff-necked pride
stiff-neckedly
stiff-neckedness
stiff-plate
stiff-pointed
stiff-rimmed
stiff-rumped
stiff-rusting
stiff-shanked
stiff-skirted
stiff-starched
stiff-stretched
stiff-swathed
stiff-tailed
stiff-uddered
stiff-veined
stiff-winged
stiff-witted
stiffen your backbone
stiffening bar
stiffening order
stiffening truss
stiffleg derrick
stile bone
stifle joint
stifle shoe
stifle-out
stigma disk
stigmal vein
stigmatic grating spectrograph
stil-de-grain yellow
stilbene dye
stilbine color
stiletto fly
stiletto heel
stiletto-proof
stiletto-shaped
still alarm
still and all
still as a mouse
still as a statue
still as death
still box
still camera
still head
still hunt
still life
still lifes
still liquor
still more
still photograph
still return
still room
still small voice
still small voice within
still trailer
still watcher
still water
still wine
still-admired
still-birth
still-born
still-burn
still-closed
still-continued
still-continuing
still-diminishing
still-existing
still-fish
still-fisher
still-fishing
still-florid
still-flowing
still-fresh
still-gazing
still-hunt
still-hunter
still-hunting
still-improving
still-increasing
still-life
still-life painter
still-life painting
still-living
still-new
still-pagan
still-pining
still-recurring
still-refuted
still-renewed
still-repaired
still-rocking
still-room
still-sick
still-slaughtered
still-stand
still-unmarried
still-vexed
still-watching
still-young
stilling box
stilling well
stilt bug
stilt palm
stilt petrel
stilt plover
stilt sandpiper
stilt wheel
stilt-legged
stimulus coefficient
stimulus error
stimulus generalization
stimulus threshold
stimulus word
stimulus-response
stimulus-response psychology
sting bladder
sting moth
sting nettle
sting of conscience
sting ray
sting to the quick
sting winkle
stinging capsule
stinging cell
stinging defeat
stinging hair
stinging nettle
stingless bee
stink ball
stink bell
stink bomb
stink brand
stink bug
stink cat
stink fly
stink gland
stink grass
stink in the nostrils
stink out
stink trap
stink up
stink-horn
stink-pot
stinking badger
stinking cedar
stinking clover
stinking drunk
stinking iris
stinking mayweed
stinking roger
stinking smut
stinky pinkie
stipple board
stipple engraving
stipple paper
stipple streak
stipulate for
stir about
stir bird
stir feelings
stir of air
stir one's blood
stir the blood
stir the embers
stir the feelings
stir the fire
stir up
stir up a hornet's nest
stir up trouble
stir your bile
stir your stumps
stir-fry
stir-up
stirred up
stirring up
stirring-up
stirrup bar
stirrup bone
stirrup cover
stirrup cup
stirrup dram
stirrup glass
stirrup iron
stirrup jar
stirrup leather
stirrup oil
stirrup pump
stirrup strap
stirrup-vase
stitch in the side
stitch of work
stitch rivet
stitch watermark
stitch wheel
stitching horse
stochastic independence
stochastic matrix
stock account
stock assessment
stock beer
stock beet
stock block
stock board
stock book
stock buckle
stock car
stock card
stock cattle
stock certificate
stock certificate
stock change
stock clerk
stock company
stock dealer
stock dealing
stock dividend
stock dove
stock duck
stock eagle
stock exchange
stock family
stock farm
stock farmer
stock farming
stock feeder
stock fire
stock footage
stock gillyflower
stock gold
stock guard
stock hawk
stock horse
stock in trade
stock insurance company
stock issue
stock ledger
stock list
stock lock
stock manipulation
stock margin
stock market
stock market quotations
stock note
stock of words
stock option
stock owl
stock pass
stock pigeon
stock pile
stock power
stock price
stock price index
stock prices
stock pump
stock purse
stock rail
stock raiser
stock raising
stock rate
stock receipt
stock record
stock room
stock saddle
stock saying
stock shot
stock soap
stock solution
stock speculation
stock speculator
stock split
stock station
stock still
stock tackle
stock the mind
stock ticker
stock type
stock up
stock vaccine
stock whaap
stock whip
stock-blind
stock-broker
stock-car
stock-car race
stock-dove
stock-dumb
stock-exchange broker
stock-fish
stock-gillyflower
stock-in-trade
stock-job
stock-jobber
stock-jobbing
stock-route
stock-still
stock-taking
stock-work
stockbroker belt
stockholder of record
stocking board
stocking cap
stocking cutter
stocking cutter tool
stocking filler
stocking frame
stocking hose
stocking knitter
stocking knitting
stocking loom
stocking machine
stocking maker
stocking making
stocking mask
stocking needle
stocking sole
stocking spinner
stocking stitch
stocking stuffer
stocking the mind
stocking trimmer
stocking weaver
stocking-foot
stocking-frame
stockless anchor
stocks and bonds
stocks machine
stoech-
stoke the fire
stoke up
stoke-hole
stole fee
stole mesh
stole-shaped
stolen goods
stolen property
stom-
stomach ache
stomach bucket
stomach condition
stomach cough
stomach piece
stomach poison
stomach pump
stomach staggers
stomach sweetbread
stomach tooth
stomach tube
stomach ulcer
stomach upset
stomach worm
stomach-ache
stomach-achy
stomach-filling
stomach-formed
stomach-hating
stomach-healing
stomach-qualmed
stomach-shaped
stomach-sick
stomach-soothing
stomach-tight
stomach-turning
stomach-twitched
stomach-weary
stomach-whetted
stomach-worn
stomat-
stomato-
stomodaeal food
stone age
stone ax
stone axe
stone bag
stone basil
stone bass
stone blue
stone boiling
stone bolt
stone borer
stone brake
stone bramble
stone breaker
stone breaking
stone brick
stone bruise
stone butter
stone canal
stone carver
stone cat
stone cell
stone china
stone circle
stone clover
stone coal
stone collar
stone color
stone contractor
stone coral
stone crab
stone crayfish
stone cricket
stone curler
stone curlew
stone devil
stone dresser
stone dressing
stone falcon
stone fence
stone fern
stone fly
stone fox
stone fruit
stone grape
stone gray
stone green
stone grig
stone hammer
stone harmonicon
stone hawk
stone in your path
stone jug
stone leek
stone lichen
stone lifter
stone lily
stone lime
stone lugger
stone marten
stone mill
stone mint
stone money
stone oak
stone ochre
stone oil
stone orpine
stone owl
stone parsley
stone perch
stone picker
stone pine
stone pit
stone pitch
stone plover
stone proof
stone rag
stone roller
stone rue
stone run
stone runner
stone saw
stone sclerenchyma
stone sculpture
stone shifter
stone snipe
stone sucker
stone thrush
stone to death
stone toter
stone wall
stone wine
stone wire
stone writing
stone yellow
stone's throw
stone-arched
stone-asleep
stone-axe
stone-bladed
stone-blind
stone-blindness
stone-bow
stone-broke
stone-brown
stone-bruised
stone-buff
stone-built
stone-cleaving
stone-coated
stone-cold
stone-colored
stone-covered
stone-cutter
stone-cutting
stone-darting
stone-dead
stone-deaf
stone-deafness
stone-dumb
stone-dust
stone-eared
stone-eating
stone-edged
stone-eyed
stone-faced
stone-floored
stone-fruit
stone-ground
stone-hand
stone-hard
stone-headed
stone-horse
stone-lily
stone-lined
stone-living
stone-milled
stone-moving
stone-parsley
stone-paved
stone-pillared
stone-pine
stone-ribbed
stone-rolling
stone-roofed
stone-silent
stone-smickle
stone-still
stone-throwing
stone-using
stone-vaulted
stone-wall
stone-walled
stone-walling
stoned-horse
stoner-out
stoney gate
stony coral
stony heart
stony pit
stony-blind
stony-broke
stony-eyed
stony-faced
stony-hearted
stony-heartedly
stony-heartedness
stony-jointed
stony-pitiless
stony-toed
stony-winged
stooge around
stool ball
stool end
stool land
stool pigeon
stool-ball
stoop-gallant
stoop-shouldered
stooping from your high place
stop at nothing
stop bath
stop bead
stop blowing
stop breathing
stop by
stop chorus
stop clause
stop clock
stop cold
stop consonant
stop dead
stop dead in your tracks
stop down
stop drill
stop finger
stop for breath
stop gauge
stop in
stop in your tracks
stop in or stop by
stop it
stop key
stop knob
stop light
stop list
stop log
stop looking
stop motion
stop needle
stop net
stop number
stop nut
stop odor
stop off
stop on
stop on a dime
stop order
stop out
stop over
stop payment
stop pin
stop plank
stop plate
stop press
stop rod
stop screw
stop seine
stop short
stop shot
stop spine
stop street
stop stroke
stop tester
stop the breath
stop the clock
stop the mouth of
stop thief
stop thrust
stop time
stop to consider
stop up
stop valve
stop volley
stop watch
stop wheel
stop work
stop your ears
stop your mouth
stop-and-go light
stop-cylinder press
stop-gap
stop-go
stop-loss
stop-loss order
stop-off
stop-open
stop-watch
stope drill
stopen bottle
stopped diapason
stopped flute
stopped up
stopper bolt
stopper hole
stopper knot
stopper's knot
stopping condenser
stopping knife
stopping out of time
stopping place
stopping train
storage battery
storage bellows
storage capacity
storage cell
storage device
storage disease
storage egg
storage heater
storage life
storage place
storage rot
storage space
storage spot
storage system
storage unit
storage wall
storax benzoin
storax family
store away
store card
store cheese
store clerk
store clothes
store detective
store dresser
store in the mind
store manager
store of knowledge
store order
store pay
store pig
store sign
store teeth
store the mind
store types
store up
store-bought
store-bought clothes
store-bought wear
store-boughten
store-room
store-ship
storefront school
storehouse of the mind
storehouse of words
stores ledger
storey house
storing the mind
stork's bill
stork's-bill
stork, the
stork-billed
stork-fashion
storm along
storm and stress
storm axis
storm bell
storm belt
storm boat
storm boot
storm breeder
storm cave
storm cellar
storm center
storm centre
storm cloud
storm clouds
storm coat
storm collar
storm cone
storm current
storm door
storm drain
storm drum
storm finch
storm flag
storm glass
storm gray
storm in
storm in a teacup
storm in a teapot
storm jib
storm kite
storm lane
storm lantern
storm mizzen
storm pennant
storm petrel
storm porch
storm rubber
storm sail
storm sash
storm serge
storm sewer
storm signal
storm stay
storm surge
storm thrush
storm track
storm tracking
storm trooper
storm troops
storm trysail
storm warning
storm wind
storm window
storm-armed
storm-beat
storm-beaten
storm-boding
storm-breathing
storm-cock
storm-drenched
storm-encompassed
storm-felled
storm-god
storm-laden
storm-lit
storm-portending
storm-presaging
storm-rent
storm-stayed
storm-swept
storm-tight
storm-tossed
storm-trooper
storm-washed
storm-wise
storm-worn
storm-wrecked
storming party
stormy petrel
stormy weather
stormy winds
story element
story hour
story line
story post
story rod
story writer
story-teller
story-writing
story-wrought
stout fellow
stout heart
stout-armed
stout-billed
stout-bodied
stout-girded
stout-hearted
stout-heartedly
stout-heartedness
stout-legged
stout-limbed
stout-looking
stout-minded
stout-ribbed
stout-sided
stout-soled
stout-stalked
stout-stomached
stout-winged
stout-worded
stove black
stove bolt
stove coal
stove distillate
stove enamel
stove glass
stove heating
stove in
stove length
stove lifter
stove oil
stove plant
stove poker
stove polish
stove-dried
stove-heated
stove-pipe
stove-warmed
stoved salt
stovepipe hat
stow away
stow down
stow it
stow net
stow-blade
stow-boating
straddle carrier
straddle mill
straddle pipe
straddle the fence
straddle truck
straddle-face
straddle-fashion
straddle-legged
straggle tooth
straggle-brained
stragling money
straight accent
straight across
straight ahead
straight and narrow
straight and narrow, the
straight angle
straight arch
straight arm lift
straight as a ruler
straight as an arrow
straight as an edge
straight away
straight bat
straight bill of lading
straight chain
straight chair
straight coil
straight course
straight deck
straight drama
straight face
straight fight
straight flush
straight forth
straight forward
straight from the shoulder
straight grain
straight hair shingle
straight jacket
straight joint
straight life insurance
straight line
straight man
straight matter
straight off
straight part
straight poker
straight razor
straight sailing
straight shooter
straight stall
straight stretch
straight thinking
straight ticket
straight time
straight to the mark
straight up
straight up and down
straight up-and-downness
straight whiskey
straight-arm
straight-backed
straight-barred
straight-barreled
straight-billed
straight-bitted
straight-bodied
straight-body
straight-cut
straight-drawn
straight-edge
straight-edged
straight-faced
straight-falling
straight-fibered
straight-flung
straight-flute
straight-fluted
straight-from-the-shoulder
straight-front
straight-going
straight-grained
straight-growing
straight-grown
straight-haired
straight-hairedness
straight-hemmed
straight-horned
straight-jointed
straight-laced
straight-lacedly
straight-leaved
straight-legged
straight-limbed
straight-line
straight-line-frequency
straight-lined
straight-made
straight-minded
straight-necked
straight-nosed
straight-out
straight-pull
straight-ribbed
straight-shaped
straight-shooting
straight-side
straight-sided
straight-sliding
straight-spoken
straight-stemmed
straight-stocked
straight-tail dog
straight-tailed
straight-thinking
straight-trunked
straight-tusked
straight-up
straight-up-and-down
straight-veined
straight-winged
straighten out
straighten up
straighten yourself out
straightway drill
strain at
strain band
strain diagram
strain ellipsoid
strain every nerve
strain every nerve and sinew
strain for
strain gauge
strain hardening
strain insulator
strain normal
strain sheet
strain the meaning
strain the muscles
strain the sense
strain the throat
strain the truth
strain the voice
strain theory
strain your attention
strain your credulity
strain your ears
strain your eyes
strain your invention
strained relations
strainer arch
strainer core
strainer gate
strainer vine
straining arch
straining beam
straining frame
straining piece
straining sill
strainslip cleavage
strait jacket
strait waistcoat
strait-besieged
strait-bodied
strait-braced
strait-breasted
strait-breeched
strait-chested
strait-clothed
strait-coated
strait-embraced
strait-jacket
strait-knotted
strait-lace
strait-laced
strait-lacedly
strait-lacedness
strait-lacer
strait-lacing
strait-necked
strait-sleeved
strait-tied
strait-toothed
strait-waistcoat
strait-waisted
straitened circumstances
strait dollar
strand fishery
strand flat
strand former
strand line
strand plover
strand rat
strand snipe
strand wolf
strange duck
strange particle
strange thing
strange to
strange to say
strange woman
strange-achieved
strange-clad
strange-colored
strange-composed
strange-disposed
strange-fashioned
strange-favored
strange-garbed
strange-looking
strange-met
strange-plumaged
strange-sounding
strange-tongued
strange-voiced
strange-wayed
stranger's gallery
strangers' gallery
strangle hold
strangled blade
strangler tree
strangulated hernia
strap bolt
strap brake
strap drill
strap fern
strap game
strap hammer
strap hinge
strap iron
strap joint
strap key
strap oil
strap oyster
strap rail
strap railroad
strap railway
strap watch
strap work
strap-hinge
strap-laid
strap-leaved
strap-oil
strap-shaped
strapping motion
strapping plate
strategic air force
strategic bombing
strategic line
strategic materials
strategic plan
strategic point
strati-
stratificational grammar
stratified charge engine
stratified discharge
stratigraphic geology
strato-
strato-cirrus
strato-cumulus
stratocumulus castellanus
stratocumulus castellatus
stratocumulus floccus
stratocumulus lenticularis
stratosphere balloon
stratus cloud
stratus cumuliformis
stratus fractus
stratus maculosus
stratus nebulosus
straw bail
straw ballot
straw basher
straw bass
straw bid
straw bidder
straw bond
straw boss
straw cat
straw color
straw death
straw drain
straw fiddle
straw hat
straw in the wind
straw man
straw needle
straw oil
straw plait
straw ride
straw sedge
straw splitter
straw stem
straw to show the wind
straw vote
straw wedding
straw wine
straw yellow
straw-barreled
straw-boss
straw-breadth
straw-built
straw-capped
straw-colored
straw-crowned
straw-cutting
straw-dried
straw-emboved
straw-hatted
straw-laid
straw-necked
straw-plaier
straw-plaiting
straw-roofed
straw-shoe
straw-splitting
straw-stuffed
straw-thatched
strawberry bass
strawberry blite
strawberry blond
strawberry blonde
strawberry borer
strawberry bush
strawberry cactus
strawberry clover
strawberry comb
strawberry crab
strawberry crown borer
strawberry crown moth
strawberry dish
strawberry fern
strawberry finch
strawberry fleabane
strawberry fly
strawberry geranium
strawberry guava
strawberry leaf
strawberry leaf blight
strawberry leaf roller
strawberry leaf spot
strawberry mark
strawberry moth
strawberry nettle
strawberry pear
strawberry perch
strawberry pink
strawberry raspberry
strawberry roan
strawberry root aphid
strawberry root borer
strawberry root weevil
strawberry rootworm
strawberry rust
strawberry sawfly
strawberry saxifrage
strawberry shrub
strawberry spinach
strawberry sunburn
strawberry tassel
strawberry tomato
strawberry tongue
strawberry tree
strawberry vine
strawberry weevil
strawberry-blond
strawberry-raspberry
strawberry-shrub family
strawhat circuit
strawhat theater
stray capacitance
stray current
stray energy
stray line
stray-line
streak culture
streak lightning
streak of lightning
streak of luck
streak plate
streaked-back
stream action
stream anchor
stream and dogs
stream bed
stream cable
stream capture
stream conservation
stream driver
stream forth
stream function
stream gold
stream ice
stream jam
stream of air
stream of consciousness
stream of fashion
stream of light
stream of time
stream piracy
stream the log
stream tin
stream wheel
stream-bordering
stream-drive
stream-embroidered
stream-illumed
stream-line
stream-of-consciousness
stream-of-consciousness novel
streamer aurora
streamer fly
streaming light
streaming potential
streamline flow
streams of rain
streams of sweat
street Arab
street academy
street arab
street band
street broker
street certificate
street cleaner
street coach
street cry
streptococcus tonsilitis
stress accent
stress and strain
stress arsis
stress diagram
stress group
stress of life
stress pattern
stress reaction
stress sheet
stress-strain
stress-strain curve
stress-verse
stressed skin
stretch away to
stretch fabric
stretch forth a helping hand
stretch forth your hand
stretch mill
stretch modulus
stretch of the imagination
stretch of time
stretch out
stretch pants
stretch stockings
stretch the legs
stretch the meaning
stretch the sense
stretch the truth
stretch to
stretch your legs
stretch your luck
stretch yourself
stretch-out
stretched out
stretched tight
stretched-out
stretcher bar
stretcher bond
stretcher-bearer
stretching course
stretching everywhere
stretching of the truth
stretching out
stretching piece
stretching your luck
stretching-out
striato-
stricken dumb
stricken in years
stricken with amnesia
stricken with years
strickle bar
strict attention
strict construction
strict constructionism
strict constructionist
strict discipline
strict interpretation
strict law
strict minded
strict neutrality
strict settlement
strictly between us
strictly cash
strictly decreasing function
strictly increasing function
strictly speaking
stride-legged
strident-voiced
striding compass
striding level
strife-breeding
strife-healing
strife-stirring
strike a balance
strike a bargain
strike a blow
strike a light
strike a pose
strike a responsive chord
strike a rich vein
strike against
strike all of a heap
strike an attitude
strike at
strike at the root of
strike back
strike benefit
strike bill
strike blind
strike block
strike board
strike camp
strike dead
strike down
strike dumb
strike enforcer
strike fault
strike figure
strike fire
strike hands
strike hard
strike home
strike in
strike in with
strike insurance
strike it lucky
strike it rich
strike joint
strike knife
strike me dead
strike measure
strike mute
strike note
strike off
strike off the roll
strike off the rolls
strike oil
strike out
strike out at
strike out for
strike out for yourself
strike pan
strike pay
strike plane
strike plate
strike radar scanner
strike root
strike root in
strike shift
strike slip
strike tent
strike terror into
strike the death knell of
strike the eye
strike the first blow
strike the flag
strike the mind
strike through
strike up
strike up a friendship
strike up a tune
strike up the band
strike upon
strike valley
strike while the iron is hot
strike with awe
strike with wonder
strike you
strike you as
strike you right
strike your colors
strike your fancy
strike your flag
strike zone
strike-a-light
strike-anywhere match
strike-out
striker boat
striker of poses
striker plate
striker-out
striker-up
striking alteration
striking angle
striking bag
striking base
striking board
striking circle
striking distance
striking hammer
striking out
striking pin
striking plate
striking reed
striking resemblance
striking solution
striking stile
striking success
striking train
striking-out machine
strikingly like
string along
string along with
string alphabet
string band
string bass
string bead
string bean
string block
string choir
string correspondent
string course
string development
string diapason
string figure
string galvanometer
string instrument
string insulator
string lead
string leaf
string line
string musician
string orchestra
string organ
string out
string pea
string plate
string player
string pottery
string proof
string pump
string quartet
string section
string stop
string telephone
string tie
string together
string tone
string trio
string up
string-binding
string-colored
string-soled
string-tailed
string-toned
stringed instrument
stringer bar
stringer lode
stringer plate
stringer strake
stringing course
stringing out
stringy kelp
stringy sap
stringy-bark
stringybark pine
stringing-out
strip artist
strip away
strip bare
strip cartoon
strip clean
strip club
strip count
strip cropping
strip down
strip farm
strip farming
strip for action
strip lighting
strip line
strip map
strip method
strip mill
strip mine
strip mining
strip of office
strip of rank
strip off
strip out
strip pit
strip planting
strip poker
strip printing
strip survey
strip tease
strip template
strip to the buff
strip you of your illusions
strip-crop
strip-cropping
strip-teaser
stripe blight
stripe canker
stripe rust
stripe smut
striped bass
striped grass
striped hyena
striped maple
striped marlin
striped snake
striped spermophile
striped squirrel
striped-leaved
stripped atom
stripped bare
stripped down
stripped of
stripped of illusion
stripped to the buff
stripper-harvester
stripping bare
stripping down
stripping liquor
stripping of rank
strive about
strive against
strive for
strive to
strive with
strobe light
strobe lighting
stroboscopic light
stroboscopic photography
stroke culture
stroke hole
stroke oar
stroke oarsman
stroke of death
stroke of lightning
stroke of luck
stroke of policy
stroke of the hour
stroke of the pen
stroke of wit
stroke of work
stroke play
stroke stitch
stroker-in
strolling gait
strolling minstrel
strolling player
strong accumulation point
strong argument
strong arm
strong as a horse
strong as a lion
strong as an ox
strong as brandy
strong as flesh and blood
strong as strong
strong belief
strong bid
strong breeze
strong derived set
strong drink
strong flair
strong gale
strong hand
strong in
strong interaction
strong language
strong man
strong market
strong meat
strong nerves
strong point
strong pull
strong relief
strong right hand
strong room
strong suit
strong water
strong waters
strong wind
strong-ankled
strong-arm
strong-arm man
strong-arm tactics
strong-armed
strong-armer
strong-backed
strong-bodied
strong-boned
strong-box
strong-breathed
strong-decked
strong-elbowed
strong-featured
strong-fibered
strong-fisted
strong-flavored
strong-handed
strong-headed
strong-jawed
strong-jointed
strong-limbed
strong-looking
strong-lunged
strong-man
strong-minded
strong-mindedly
strong-mindedness
strong-nerved
strong-pointed
strong-quartered
strong-ribbed
strong-scented
strong-seated
strong-set
strong-sided
strong-smelling
strong-stapled
strong-stomached
strong-tasted
strong-tasting
strong-tempered
strong-tested
strong-trunked
strong-voiced
strong-weak
strong-willed
strong-winged
strong-wristed
strongbox security
strontia digger
strontia process
strontian white
strontian yellow
strontium 90
strontium hydroxide
strontium monoxide
strontium nitrate
strontium oxide
strontium process
strontium salicylate
strontium unit
strontium white
strontium yellow
struck all of a heap
struck jury
struck measure
struck up
struck with
struck with surprise
structural botany
structural drag
structural engineer
structural engineering
structural fatigue
structural formula
structural gene
structural geology
structural grammar
structural linguistics
structural meaning
structural mill
structural outline
structural polysaccharide
structural psychology
structural shop
structural steel
structural-steel
structure contours
struggle against
struggle for
struggle for existence
struggle up
struggle with
strung out
strung up
strut beam
strut your stuff
strutting piece
stub axle
stub feather
stub file
stub hoe
stub iron
stub mortise
stub nail
stub pen
stub short
stub shot
stub switch
stub tenon
stub tooth
stub track
stub twist
stub your toe
stub your toe upon
stub-bearded
stub-end
stub-end feeder
stub-pointed
stub-thatched
stub-toed
stub-wing stabilizer
stubble crop
stubble field
stubble goose
stubble mulch
stubble plow
stubble pulverizer
stubble quail
stubble rake
stubble shaver
stubble spurge
stubble-fed
stubble-loving
stubble-mulch farming
stubborn as a mule
stubborn fact
stubborn-chaste
stubborn-hard
stubborn-minded
stubborn-shafted
stubborn-stout
stubby-fingered
stucco pointer
stucco-adorned
stucco-fronted
stucco-molded
stucco-walled
stuck fast
stuck on
stuck on yourself
stuck-up
stuck-upness
stuck-upper
stuck-uppish
stuck-uppishness
stuck-uppy
stud block
stud bolt
stud book
stud box
stud chain
stud driver
stud fee
stud link
stud mating
stud poker
stud print
stud rivet
stud scab
stud screw
stud wall
stud wheel
stud-horse
stud-mare
stud-pink
stud-sail
studded tire
studding bolt
studding sail
studding-sail
studding-sail halyard bend
student adviser
student assistant
student council
student glider
student government
student hour
student lamp
student nurse
student pastor
student teacher
student teaching
student union
student volunteer
studhorse poker
studio apartment
studio couch
studio plant
study for
study group
study hall
study in still life
study to
study to be
study up
study up on
study with
study your part
study-bearing
study-bred
study-given
study-loving
study-racked
study-worn
stuff and nonsense
stuff chest
stuff engine
stuff gown
stuff hat
stuff in
stuff the mind
stuff the mind with
stuff up
stuff with knowledge
stuff yourself
stuff-chest
stuff-gownsman
stuff-over
stuffed cabbage
stuffed derma
stuffed eggs
stuffed grape leaves
stuffed peppers
stuffed shirt
stuffed to the gills
stuffed tomatoes
stuffed up
stuffed-over
stuffing and stripping
stuffing box
stuffing nut
stuffing-box recess
stuffy weather
stultify yourself
stumble on
stumble upon
stumbling block
stumbling stone
stumbling-block
stump bed
stump burning
stump da
stump excursion
stump extractor
stump foot
stump it
stump joint
stump jumper
stump mast
stump mortise
stump orator
stump puller
stump ranch
stump rot
stump speaker
stump speaking
stump speech
stump spud
stump sucker
stump tail
stump tenon
stump the country
stump topmast
stump tracery
stump tree
stump up
stump wood
stump work
stump-fingered
stump-footed
stump-jump
stump-jump plow
stump-jumping plow
stump-legged
stump-nosed
stump-rooted
stump-tail
stump-tailed
stump-tailed lizard
stumping tour
stunner hitch
stunt flier
stunt flying
stunt girl
stunt man
stunt woman
stupefied with boredom
stupefyingly boring
stupid ass
stupid grin
stupid thing
stupid work
stupid-acting
stupid-headed
stupid-honest
stupid-looking
stupid-sure
stuporous melancholia
stuporous with boredom
sturdy as an ox
sturdy-chested
sturdy-legged
sturdy-limbed
sturm und drang
styl-
style branch
style galant
style of writing
style pen
style sheet
style the hair
style-conscious
style-consciousness
styles of
stylistic analysis
stylo-
stylograph pen
stylographic pen
styloid process
sty your throw
styptic pencil
styraly acetate
styrene resin
suan pan
suarrow nut
suave-looking
suave-mannered
suave-spoken
sub arid
sub for
sub judice
sub post office
sub rosa
sub specie aeternitatis
sub verbo
sub voce
sub-
sub-Andean
sub-Atlantic
sub-Carpathian
sub-Christian
sub-Himalayan
sub-Pontine
sub-Pyrenean
sub-agent
sub-arch
sub-assembly
sub-base
sub-constable
sub-district
sub-edit
sub-editor
sub-head
sub-human
sub-jugate
sub-lease
sub-let
sub-level
sub-lieutenant
sub-machine-gun
sub-man
sub-officer
sub-prefect
sub-rosa
sub-title
sub-treasurer
sub-treasury
sub-war
sub-zero
subacute rheumatism
subaerial deposit
subaltern genus
subarctic current
subassembly plant
subatomic particle
subatomic particles
subclavian artery
subclavian groove
subclavian vein
subclinical infection
subcloud car
subconscious drive
subconscious knowledge
subconscious mind
subconscious perception
subconscious self
subconscious urge
suberic acid
subero-
subhymenial layer
subject case
subject catalog
subject catalogue
subject for thought
subject index
subject matter
subject of thought
subject substantive
subject term
subject to
subject to a duty
subject to a fee
subject to a tax
subject to call
subject to close scrutiny
subject to death
subject yourself
subject-matter
subject-object
subject-objectivity
subject-raising
subjective certainty
subjective complement
subjective idealism
subjective idealist
subjective inspection
subjective speculation
subjective spirit
subjectivo-
subjectivo-objective
subjunct adjective
subjunct word
sublimation pressure
sublimation vein
sublime tobacco
subliminal advertising
subliminal perception
subliminal self
sublimity summit
submachine gun
submarine badge
submarine chaser
submarine killer
submarine mine
submarine patrol boat
submarine sandwich
submarine sentry
submarine telegraphy
submarine tender
submarine torpedo
submarine warfare
submaxillary gland
submerged coast
submerged in
submerged mind
submerged-tube boiler
subminiature camera
submit to
submit to indignity
submit with a good grace
suboctave coupler
subordinate clause
subordinate conjunction
subordinate ordinary
subordinate role
subordinate to
subordinate yourself
subordinating conjunction
subornation of perjury
subpoena ad testificandum
subpoena duces tecum
subscribe to
subscriber trunk dialling
subscription book
subscription concert
subscription edition
subscription library
subscription list
subscription television
subsequent to
subsidiary coin
subsidiary company
subsidiary sense
subsidy citizen
subsidy man
subsist in
subsistence agriculture
subsistence allowance
subsistence department
subsistence farming
subsistence level
subsistence money
subsistence stores
subsistent form
subsoil plough
subsoil plow
subsonic flight
subsonic jet
subsonic speed
subspace topology
substance of life
substandard language
substandard speech
substandard usage
substantial meal
substantiality theory
substantially true
substantive basis
substantive law
substantive point
substantive rank
substantive right
substitute for
substitution cipher
substitution deposit
substitution group
substitution tables
substitution therapy
substitution vein
subsurface tillage
subtarget machine
subtense bar
subter-
subterranean river
subtle body
subtle color
subtle distinction
subtle influence
subtle odor
subtle wit
subtle-brained
subtle-cadenced
subtle-fingered
subtle-headed
subtle-looking
subtle-meshed
subtle-minded
subtle-nosed
subtle-paced
subtle-scented
subtle-shadowed
subtle-souled
subtle-thoughted
subtle-tongued
subtle-witted
subtraction logarithm
subtraction mark
subtraction sign
subtractive color
subtractive primary
subtractive process
subtropical anticyclone
subtropical high
suburban market
subvalent electrons
subzero weather
succade gourd
succeed in
succeed to
succeed to the throne
succeed with
succes d'estime
succes de scandale
success fou
success story
successful advocate
successful defender
successful person
succession duty
succession of ideas
succession of thought
succession of time
succession state
succin-
succinic acid
succino-
succory blue
succumb to
such and such
such as
such being the case
such stuff as dreams are made on
such stuff as dreams are made on
such-and-such
such-like
suck dry
suck fly
suck in
suck into
suck off
suck out
suck the blood from
suck the blood of
suck up
suck up to
suck your blood
suck your breath
suck your wind
sudden-beaming
sudden-starting
sudden-whelming
sue at law
sue for
sue for divorce
sue out
sue to
suede cloth
suede gloves
suet pudding
suet refiner
suffer a misfortune
suffer an eclipse
suffer anguish
suffer for
suffer hanging
suffer hearing impairment
suffer hearing loss
suffer loss
suffer pain
suffer pangs of jealousy
suffer the consequences
suffer the penalty
sufferance wharf
suffering angst
suffering dread
suffering from amnesia
suffering nausea
suffice to yourself
sufficient condition
sufficient for
sufficient to
sufficient unto
suffused with light
sugar almond
sugar ant
sugar apple
sugar ash
sugar bag
sugar baker
sugar bakery
sugar basin
sugar bean
sugar beet
sugar bird
sugar bowl
sugar brake
sugar bush
sugar cake
sugar camp
sugar candy
sugar cane
sugar cookie
sugar corn
sugar daddy
sugar diabetes
sugar engineering
sugar fish
sugar glider
sugar grape
sugar grass
sugar grove
sugar gum
sugar jack
sugar jack process
sugar loaf
sugar maker
sugar making
sugar maple
sugar mill
sugar mite
sugar mule
sugar nippers
sugar of lead
sugar of milk
sugar off
sugar orchard
sugar over
sugar palm
sugar pea
sugar pear
sugar pine
sugar planter
sugar planting
sugar pumpkin
sugar puncture
sugar refiner
sugar refinery
sugar refining
sugar shell
sugar sifter
sugar sorghum
sugar spoon
sugar squirrel
sugar tongs
sugar tree
sugar vinegar
sugar wrack
sugar-baker
sugar-beet webworm
sugar-bird
sugar-boiling
sugar-bush
sugar-candy
sugar-cane
sugar-cane beetle
sugar-cane borer
sugar-cane gummosis
sugar-cane mosaic
sugar-cane root disease
sugar-cane smut
sugar-chopped
sugar-chopper
sugar-coat
sugar-coated
sugar-coating
sugar-colored
sugar-cured
sugar-destroying
sugar-growing
sugar-laden
sugar-lipped
sugar-loaded
sugar-loaf
sugar-loafed
sugar-loving
sugar-making
sugar-maple
sugar-maple borer
sugar-mouthed
sugar-plum
sugar-producing
sugar-sop
sugar-sweet
sugar-teat
sugar-tit
sugar-topped
sugar-water
sugar-yielding
sugared almond
sugarhouse molasses
sugaring off
suggest itself
suggest the earmarks of
suggestio falsi
suggestion therapy
suggestive of
sui generis
sui juris
suicidal despair
suicide clause
suicide club
suicide pact
suicide pilot
suicide plane
suicide squeeze
suicide squeeze play
suit and service
suit at law
suit case
suit court
suit down to the ground
suit in law
suit of armor
suit of clothes
suit service
suit the action to the word
suit the occasion
suit the season
suit the time
suit yourself
suit-dress
suitable for
suitable occasion
suitable time
suite of dances
suite of rooms
sujee-mujee
suji-muji
sulcato-
sulf-
sulfa drug
sulfa drugs
sulfanilic acid
sulfanilyl radical
sulfate paper
sulfate process
sulfate pulp
sulfide dye
sulfinyl group
sulfinyl radical
sulfite paper
sulfite process
sulfite pulp
sulfo group
sulfo radical
sulfon-
sulfonic acid
sulfonyl chloride
sulfur black
sulfur butterfly
sulfur dioxide
sulfur dye
sulfur trioxide
sulfur-bottom
sulfur-bottom whale
sulfur-colored
sulfur-flower
sulfur-yellow
sulfurated potash
sulfureted hydrogen
sulfuric acid
sulfuric anhydride
sulfuric ether
sulfurous acid
sulfurfert potash
sulfuryl chloride
sulfuryl group
sulfuryl radical
sulky lister
sulky plow
sulky-shaped
sulla clover
sullage head
sullen looks
sullen rabies
sullen-browed
sullen-eyed
sullen-looking
sullen-natured
sullen-seeming
sullen-sour
sullen-visaged
sullen-wise
sulph-
sulpha drug
sulphanilic acid
sulphate green
sulphate paper
sulphur vivum
sulphur water
sulphur whale
sulphur yellow
sulphur-bearing
sulphur-bellied
sulphur-bottom
sulphur-bottom whale
sulphur-breasted
sulphur-colored
sulphur-containing
sulphur-crested
sulphur-flower
sulphur-hued
sulphur-impregnated
sulphur-scented
sulphur-smoking
sulphur-tinted
sulphur-tipped
sulphureo-
sulphureo-aerial
sulphuretted hydrogen
sulphuric acid
sulphurous acid
sultan flower
sultan red
sultana bird
sultana roll
sultry weather
sum and substance
sum of money
sum of things
sum to
sum total
sum und substance
sum up
sum up your case
sum-total
sum-up
sumac family
sumac wax
summa cum laude
summary court-martial
summary judgment
summary justice
summary negative
summary offence
summary proceeding
summation curve
summation method
summation tone
summer aster
summer barley
summer camp
summer cholera
summer complaint
summer coot
summer crookneck
summer cypress
summer day
summer dew grass
summer diarrhea
summer disease
summer duck
summer egg
summer ermine
summer fallow
summer finch
summer flounder
summer forest
summer grape
summer hail
summer haw
summer heat
summer heliotrope
summer herring
summer house
summer hyacinth
summer kitchen
summer lightning
summer lilac
summer oil
summer parlor
summer pudding
summer queen
summer rape
summer rash
summer redbird
summer resort
summer sausage
summer savory
summer school
summer sheldrake
summer snipe
summer snowflake
summer soldier
summer solstice
summer sore
summer spore
summer squash
summer stock
summer stone
summer suit
summer sweet
summer tanager
summer teal
summer theater
summer time
summer tree
summer truffle
summer wagtail
summer warbler
summer wheat
summer yellowbird
summer yellowlegs
summer's day
summer-bird
summer-blanced
summer-breathing
summer-brewed
summer-bright
summer-cloud
summer-dried
summer-fallow
summer-fed
summer-felled
summer-flowering
summer-grazed
summer-house
summer-leaping
summer-like
summer-lived
summer-loving
summer-made
summer-ripening
summer-seeming
summer-shrunk
summer-staying
summer-stir
summer-stricken
summer-sweet
summer-swelling
summer-threshed
summer-tide
sun crack
sun cult
sun cure
sun dance
sun date
sun deck
sun disc
sun disk
sun dog
sun fern
sun fever
sun flag
sun fruit
sun gall
sun gear
sun gem
sun god
sun gods
sun grass
sun grebe
sun hat
sun helmet
sun hemp
sun in glory
sun in splendor
sun lamp
sun letter
sun letters
sun lounge
sun moss
sun pan
sun parlor
sun perch
sun picture
sun pillar
sun plane
sun plant
sun porch
sun power
sun print
sun printing
sun rose
sun shower
sun side
sun snake
sun spark
sun spider
sun spot
sun spurge
sun star
sun suit
sun tan
sun temperature
sun time
sun trap
sun tree
sun trout
sun valve
sun view
sun visor
sun watch
sun wheel
sun worship
sun worshiper
sun worshiping
sun yourself
sun-affronting
sun-arrayed
sun-awakened
sun-baked
sun-bathe
sun-bathed
sun-beat
sun-beaten
sun-begotten
sun-blackened
sun-blanced
sun-blind
sun-blistered
sun-blown
sun-born
sun-bred
sun-bright
sun-bringing
sun-broad
sun-bronzed
sun-brown
sun-browned
sun-clear
sun-confronting
sun-courting
sun-cracked
sun-crowned
sun-cure
sun-cured
sun-dazzling
sun-delighting
sun-descended
sun-dial
sun-drawn
sun-dried
sun-dry
sun-eclipsing
sun-excluding
sun-expelling
sun-exposed
sun-eyed
sun-faced
sun-feathered
sun-filled
sun-fish
sun-flagged
sun-flaring
sun-flooded
sun-fringed
sun-gazed
sun-gazing
sun-gilt
sun-god
sun-graced
sun-graze
sun-grazer
sun-grebe
sun-grown
sun-heated
sun-illumined
sun-kissed
sun-loved
sun-loving
sun-made
sun-marked
sun-melted
sun-nursed
sun-outshining
sun-pain
sun-painted
sun-paled
sun-praising
sun-printed
sun-projected
sun-ray
sun-red
sun-resembling
sun-scorched
sun-scorching
sun-shading
sun-shot
sun-shunning
sun-sodden
sun-specs
sun-spot
sun-staining
sun-steeped
sun-struck
sun-swart
sun-swept
sun-tanned
sun-tight
sun-up
sun-warm
sun-warmed
sun-withered
sunburst plaeting
sunburst pleats
sunday punch
sunday school
sunday-go-to-meeting
sunday-school
sunder tree
sundew family
sundra tree
sundry shop
sundry-colored
sundry-patterned
sundry-shaped
sunflower chest
sunflower oil
sunflower oil cake
sunflower tree
sunflower yellow
sung mass
sunk fence
sunk garden
sunk in iniquity
sunk in oblivion
sunk key
sunk relief
sunken garden
sunken part
sunken place
sunlight burner
sunn hemp
sunny side
sunny weather
sunny-clear
sunny-colored
sunny-faced
sunny-haired
sunny-looking
sunny-natured
sunny-red
sunny-side up
sunny-spirited
sunny-sweet
sunny-warm
sunray pleats
sunrise service
sunrise wall
sunrise watch
sunset brown
sunset clam
sunset glow
sunset gun
sunset of your days
sunset shell
sunset wall
sunset-blue
sunset-flushed
sunset-lighted
sunset-purpled
sunset-red
sunset-ripened
sunshine roof
sunshine-showery
sunshiny weather
sunspot cycle
sunspot numbers
sunspot period
sunspot zone
sunt tree
suo jure
suo loco
sup off
sup up
super cool
super royal
super royal octavo
super royal quarto
super-
super-acid
super-cooling
super-decompound
super-duper
super-pumper
super-royal
super-smooth
super-tanker
supercharged engine
supercilious superior
supercompression engine
superdense theory
superficial extension
superficial soundness
superficially sound
supergiant star
superheated air
superheterodyne circuit
superheterodyne receiver
superhigh frequency
superintendent engineer
superintendent general
superior conjunction
superior court
superior courts of Westminster
superior general
superior goods
superior planet
superior-general
superiority complex
superiors general
superiors-general
supernatural being
supernatural virtue
supernatural virtues
supernatural, the
super-
supero-occipital
superposition principle
supersonic aerodynamics
supersonic combat plane
supersonic flight
supersonic flow detection
supersonic jet
supersonic research plane
supersonic rocket
supersonic speed
supersonic transport
supersonic wings
superstition-proof
superstructure deck
supervisory control
supper club
supple-jack
supple-kneed
supple-limbed
supple-minded
supple-mouth
supple-sinewed
supple-sliding
supple-visaged
supple-working
supple-wristed
supplemental plumage
supplementary angle
supplementary angles
supplementary benefit
supplementary reserves
supplementary story
supply base
supply bond
supply clergy
supply depot
supply minister
supply of short-term funds
supply on hand
supply preacher
supply price
supply services
supply ship
supply support
supplying electricity
support for
support life
support line
support mission
support politically
support proper
support trench
support yourself
supporting actor
supporting cast
supporting character
supporting distance
supporting evidence
supporting instrumentalist
supporting player
supporting role
supporting treatment
supportive relationship
supportive therapy
supposing that
suppressed desire
suppressio veri
suppressor grid
suppurative arthritis
suppurative inflammation
supra-
supra-abdominal
supra-acromial
supra-aerial
supra-anal
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
supra-esophagial
supra-esophageal
supra-ethmoid
supra-intestinal
supracardinal vein
supralinear punctuation
supranational government
suprapartisan leadership
suprarational automatism
suprarational automatist
suprarenal gland
suprasegmental phoneme
suprasternal notch
supratrochlear nerve
supreme being
supreme commander
supreme court
supreme principle
supreme principle of pure reason
supreme sacrifice
supreme sauce
supreme soul
sur le tapis
sur-
sur-royal
surbanal plate
surbased arch
surdo-mute
sure as can be
sure as death
sure as death and taxes
sure as fate
sure as hell
sure as shooting
sure as the devil
sure bet
sure card
sure crop
sure enough
sure loser
sure of yourself
sure sign
sure success
sure thing
sure winner
sure-aimed
sure-enough
sure-fire
sure-footed
sure-footedly
sure-footedness
sure-founded
sure-grounded
sure-nosed
sure-presaging
sure-refuged
sure-seeing
sure-set
sure-settled
sure-slow
sure-steeled
surest thing you know
surety bond
surf bum
surf caster
surf casting
surf clam
surf coot
surf duck
surf fish
surf line
surf plant
surf scoter
surf shiner
surf smelt
surf snipe
surf whiting
surf-battered
surf-beaten
surf-bound
surf-riding
surf-showered
surf-sunk
surf-swept
surf-tormented
surf-vexed
surf-washed
surf-wasted
surf-white
surf-worn
surface analyzer
surface anatomy
surface appearance
surface board
surface boundary layer
surface carburetor
surface card
surface color
surface condenser
surface cooler
surface density
surface energy
surface extension
surface fire
surface friction
surface friction drag
surface gauge
surface gravity
surface integral
surface layer
surface mail
surface measure
surface microscope
surface noise
surface of light and shade
surface of revolution
surface paper
surface plate
surface printing
surface quality
surface radar
surface railway
surface resistance
surface resistivity
surface rib
surface show
surface strain
surface structure
surface switch
surface tension
surface texture
surface wave
surface yeast
surface-active
surface-active agent
surface-bent
surface-bound electron
surface-coated
surface-damaged
surface-deposited
surface-dressed
surface-dry
surface-dwelling
surface-feeding
surface-hold
surface-printing
surface-scratched
surface-scratching
surface-to-air
surface-to-surface
surface-to-underwater
surfacine machine
surfeit water
surfeit-gorged
surfeit-slain
surfeit-swelled
surfeit-swollen
surfeit-taking
surge back
surge chamber
surge gap
surge of emotion
surge of sound
surge tank
surgeon apothecary
surgeon bird
surgeon commander
surgeon dentist
surgeon general
surgeon major
surgeon's knot
surgeon's saw
survivorship annuity
sus per coll
susceptible to
susceptive to
suspend judgment
suspend operations
suspended animation
suspended cadence
suspended sentence
suspender belt
suspense account
suspense drama
suspense ledger
suspense story
suspension bridge
suspension colloid
suspension insulator
suspension of civil rights
suspension of disbelief
suspension of hostilities
suspension periods
suspension point
suspension points
suspensive veto
suspensory ligament
suspensory veto
suspicion-proof
sussex spaniel
sustain a part
sustain someone's side
sustained action
sustained activity
sustained note
sustaining pedal
sustaining program
sustentation fund
suture needle
suum cuique
suwarzow nut
svarabhakti vowel
swab stick
swaddling bands
swaddling clothes
swaddling-band
swaddling-clothes
swaddling-clouts
swag belly
swag-bellied
swage block
swage bolt
swage-set
swagger coat
swagger stick
swagger-
swago bass
swallow an insult
swallow anything
swallow dive
swallow fish
swallow flycatcher
swallow hawk
swallow hole
swallow hook
swallow it
swallow plover
swallow roller
swallow shrike
swallow stone
swallow the bitter pill
swallow the pill
swallow thorn
swallow up
swallow warbler
swallow whole
swallow your dust
swallow your pride
swallow your words
swallow-fork
swallow-hole
swallow-tail
swallow-tailed
swallow-tailed coat
swallow-tailed kite
swallow-wing
swami house
swamp andromeda
swamp angel
swamp apple
swamp ash
swamp azalea
swamp bay
swamp beggar-tick
swamp birch
swamp black gum
swamp blackberry
swamp blackbird
swamp blueberry
swamp boat
swamp brake
swamp broom
swamp buggy
swamp buttercup
swamp buttonwood
swamp cabbage
swamp cedar
swamp chess
swamp chestnut oak
swamp cottonwood
swamp crake
swamp cypress
swamp deer
swamp dewberry
swamp dock
swamp dogwood
swamp elm
swamp evergreen
swamp fern
swamp fever
swamp globe flower
swamp gooseberry
swamp grape
swamp gum
swamp hare
swamp harrier
swamp hawk
swamp hellebore
swamp hen
swamp hickory
swamp holly
swamp honeysuckle
swamp hook
swamp hornbeam
swamp itch
swamp laurel
swamp lily
swamp locust
swamp loosestrife
swamp lover
swamp magnolia
swamp mahogany
swamp mallow
swamp maple
swamp milkweed
swamp moss
swamp oak
swamp ore
swamp owl
swamp partridge
swamp pheasant
swamp pine
swamp pink
swamp poplar
swamp post oak
swamp potato
swamp privet
swamp quail
swamp rabbit
swamp red bay
swamp robin
swamp rose
swamp rose mallow
swamp sassafras
swamp saxifrage
swamp silkweed
swamp sparrow
swamp spleenwort
swamp spruce
swamp squawweed
swamp sumac
swamp sunflower
swamp tea
swamp thistle
swamp tickseed
swamp tupelo
swamp turnip
swamp warbler
swamp white cedar
swamp white oak
swamp willow
swamp willow herb
swamp wire grass
swamp-dwelling
swamp-growing
swamp-loving
swamp-oak
swamping resistance
swan animalcule
swan boat
swan dive
swan goose
swan knight
swan maiden
swan mussel
swan neck
swan neck pediment
swan orchid
swan pan
swan potato
swan shift
swan shot
swan song
swan's down
swan's neck
swan's neck pediment
swan's-down
swan-bosomed
swan-clad
swan-drawn
swan-eating
swan-fashion
swan-hopper
swan-hopping
swan-like
swan-mark
swan-neck
swan-pan
swan-plumed
swan-poor
swan-proud
swan-sweet
swan-tuned
swan-upper
swan-upping
swan-white
swan-winged
swanking stick
swanskin calico
swap hook
swap horses
swap places with
sward-cut
sward-cutter
swarm cell
swarm over
swarm spore
swarm up
swarm with
swart star
swartkranz ape-man
swash bulkhead
swash channel
swash letter
swash plate
swathing band
swathing clothes
sway bar
sway boat
sway brace
sway bracing
sway pole
sway-
sway-back
sway-backed
swear and affirm
swear at
swear by
swear by bell
swear falsely
swear in
swear like a sailor
swear like a trooper
swear off
swear on the Bible
swear out
swear the truth
swear to
swear to God
swear to a belief
swear to goodness
swear-word
swearer-in
swearing off
sweat and slave
sweat and stew
sweat bath
sweat bee
sweat blood
sweat gland
sweat it
sweat it out
sweat leather
sweat like a horse
sweat like a trooper
sweat lodge
sweat of your brow
sweat off
sweat out
sweat over
sweat pad
sweat pants
sweat room
sweat shirt
sweat shop
sweat socks
sweat stock
sweat suit
sweat-house
sweater girl
sweater shop
sweating iron
sweating sickness
sweating stock
sweating system
sweating-sickness
swede turnip
swedish massage
swedish movements
swedish turnip
swee-swee
swee-sweet
sweep along
sweep aside all obstacles
sweep away
sweep check
sweep generator
sweep hand
sweep head
sweep mill
sweep net
sweep of time
sweep off your feet
sweep out
sweep plate
sweep point
sweep rake
sweep seine
sweep seining
sweep smelter
sweep the strings
sweep ticket
sweep under the rug
sweep up
sweep you off your feet
sweep-chimney
sweep-oar
sweep-second
sweeping change
sweeping net
sweeping process
sweeping score
sweeping statement
sweet William
sweet almond
sweet almond oil
sweet alyssum
sweet and pungent
sweet and sour
sweet as a nut
sweet as a rose
sweet as honey
sweet as sugar
sweet basil
sweet bay
sweet birch oil
sweet calamus
sweet cassava
sweet cherry
sweet chestnut
sweet chocolate
sweet cicely
sweet cider
sweet clover
sweet coltsfoot
sweet corn
sweet crab apple
sweet false camomile
sweet father of soft rest
sweet fern
sweet flag
sweet gale
sweet grass
sweet gum
sweet marjoram
sweet marten
sweet mock orange
sweet nature
sweet nothings
sweet oil
sweet oleander
sweet on
sweet orange
sweet patootie
sweet pea
sweet pepper
sweet pepper bush
sweet pepperbush
sweet pitahaya
sweet potato
sweet reason
sweet reasonableness
sweet reed
sweet reed grass
sweet revenge
sweet savor
sweet scabious
sweet shop
sweet singer
sweet sixteen
sweet sleep
sweet smell
sweet sorghum
sweet spire
sweet spirit of nitre
sweet stand
sweet stuff
sweet sucker
sweet sultan
sweet talk
sweet talker
sweet temper
sweet tongue
sweet tooth
sweet upon
sweet vernal grass
sweet viburnum
sweet water
sweet william
sweet william catchfly
sweet wine
sweet woodruff
sweet words
sweet wormwood
sweet-almond
sweet-almond oil
sweet-and-sour
sweet-and-sour sauce
sweet-beamed
sweet-bitter
sweet-bleeding
sweet-blooded
sweet-breath
sweet-breathed
sweet-breathing
sweet-brier
sweet-bright
sweet-charming
sweet-chaste
sweet-complaining
sweet-conditioned
sweet-corn wilt
sweet-curd
sweet-dispositioned
sweet-eyed
sweet-faced
sweet-featured
sweet-field
sweet-flavored
sweet-flowered
sweet-flowering
sweet-flowing
sweet-gale
sweet-leafed
sweet-lipped
sweet-looking
sweet-minded
sweet-murmuring
sweet-natured
sweet-numbered
sweet-orange oil
sweet-pea streak
sweet-pickle
sweet-piercing
sweet-potato beetle
sweet-potato borer
sweet-potato scurf
sweet-potato sphinx
sweet-potato weevil
sweet-potato worm
sweet-recording
sweet-roasted
sweet-sacred
sweet-sad
sweet-savored
sweet-scented
sweet-seasoned
sweet-set
sweet-shaped
sweet-singing
sweet-smelled
sweet-smelling
sweet-smiling
sweet-sop
sweet-souled
sweet-sounded
sweet-sounding
sweet-sour
sweet-spoken
sweet-spun
sweet-suggesting
sweet-sweet
sweet-talk
sweet-talking
sweet-tasted
sweet-tasting
sweet-tempered
sweet-temperedly
sweet-temperedness
sweet-throat
sweet-throated
sweet-toned
sweet-tongued
sweet-toothed
sweet-touched
sweet-tulk
sweet-tuned
sweet-voiced
sweet-warbling
sweet-whispered
sweet-william
sweet-wort
sweeten the kitty
sweetheart agreement
sweetheart contract
sweetheart neckline
sweetie pie
sweetleaf family
sweetness and light
sweetness of life
sweetness und light
sweets candy
sweetwood bark
swell box
swell dash
swell front
swell head
swell it
swell mob
swell organ
swell out
swell pedal
swell piece
swell shark
swell the ranks of
swell with emotion
swell-
swell-butted
swell-front
swell-headed
swell-headedness
swell-mobsman
swelled head
swelled-gelatin
swelled-gelatin process
swelled-headed
swelled-headedness
swelling utterance
sweltering heat
swept deck
swept up
swept-back
swept-forward
swift as an arrow
swift boat
swift fox
swift moth
swift rate
swift shrike
swift-advancing
swift-brought
swift-burning
swift-changing
swift-concerted
swift-declining
swift-effected
swift-fated
swift-finned
swift-flowing
swift-flying
swift-foot
swift-footed
swift-frightful
swift-glancing
swift-gliding
swift-handed
swift-heeled
swift-hoofed
swimming pool
swimming suit
swimming tank
swimming trunks
swimming upstream
swindle sheet
swine back
swine cress
swine dysentery
swine erysipelas
swine fever
swine flu
swine grass
swine itch
swine plague
swine pox
swine thistle
swine vesicular disease
swine's feather
swine-backed
swine-bread
swine-chopped
swine-cote
swine-eating
swine-faced
swine-headed
swine-mouthed
swine-pipe
swine-pox
swine-snouted
swine-stead
swine-stone
swine-sty
swing arm
swing at
swing back
swing band
swing bar
swing beam
swing boat
swing bolster
swing bolt
swing bridge
swing cart
swing chair
swing district
swing door
swing drawbridge
swing from one thing to another
swing gate
swing hammer crusher
swing in with
swing jack
swing joint
swing knife
swing leg
swing music
swing musician
swing on
swing open
swing plate
swing plow
swing round
swing round the circle
swing saw
swing shift
swing shifter
swing team
swing the deal
swing the stern
swing tool
swing toward
swing train
swing vote
swing wheel
swing-
swing-jointed
swing-swang
swing-tree
swing-wing
swinging bar
swinging basin
swinging boom
swinging both ways
swinging buoy
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swingling tow
swinish gluttony
swinish multitude
swipe at
swirl bob
swirl the senses
swish tail
swish-
swish-swash
swiss muslin
swiss roll
swiss steak
switch box
switch cane
switch cast
switch engine
switch grass
switch hitter
switch hook
switch knife
switch line
switch off
switch off the light
switch on
switch on the light
switch over
switch plant
switch plate
switch plug
switch rail
switch sorrel
switch stand
switch tail
switch tender
switch tenter
switch tower
switch yard
switch-hit
switch-hitter
switch-hitting
switch-horn
switch-over
switchblade knife
switchboard operator
switching circuit
switching eye
swivel block
swivel bridge
swivel chain
swivel chair
swivel eyes
swivel fabric
swivel gun
swivel hook
swivel jaw
swivel musket
swivel pin
swivel pipe
swivel plow
swivel shuttle
swivel silk
swivel spindle
swivel table
swivel union
swivel vise
swivel weaving
swivel-eyed
swivel-hooked
swivel-lock
swizzle stick
swollen belly
swollen diction
swollen head
swollen phrase
swollen with pride
swollen-cheeked
swollen-eyed
swollen-faced
swollen-glowing
swollen-headed
swollen-jawed
swollen-tongued
swooning-ripe
swoop down
swoop down on
swoop down upon
sword arm
sword bayonet
sword bean
sword belt
sword blade
sword breaker
sword cane
sword cut
sword cutler
sword cutlery
sword dance
sword dancer
sword dollar
sword fern
sword flag
sword flax
sword grass
sword guard
sword hand
sword hanger
sword hilt
sword in hand
sword kin
sword knot
sword law
sword lily
sword maker
sword mat
sword of Damocles
sword sedge
sword service
sword side
sword swallower
sword swallowing
sword tash
sword thrust
sword tip
sword-armed
sword-bearer
sword-bearership
sword-billed
sword-girded
sword-girt
sword-grass
sword-leaved
sword-play
sword-shaped
sword-tailed
swordfish sucker
sworn and affirmed
sworn enemy
sworn evidence
sworn off
sworn statement
sworn testimony
sworn to
swot up
swung dash
sycamore anthracnose
sycamore fig
sycamore maple
sycee silver
syenite-porphry
syenitic gneiss
syllabic accent
syllabic character
syllabic meter
syllabic nucleus
syllabic peak
syllabic symbol
syllable name
syllogistic reasoning
sylvan deity
sylvic acid
sym-
symbol-using animal
symbolic books
symbolic code
symbolic language
symbolic logic
symbolic meaning
symbolic system
symbolical books
symbolist movement
symbolist verse
symbols of
symmetric difference
symmetric function
symmetric group
symmetric matrix
symmetric polynomial
symmetry axis of rotation
symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic ma
sympathetic magic
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
sympathetic vibration
sympathize with
sympathy strike
symphonic conductor
symphonic form
symphonic music
symphonic ode
symphonic poem
symphonie concertante
symphony band
symphony concert
symphony orchestra
symphyo-
symphysio-
symptom complex
symptomatic anthrax
symptomatic treatment
syn-
synaposematic mimicry
sync-generator
synchro receiver
synchro transmitter
synchro unit
synchro-
synchro-cyclotron
synchronic linguistics
synchronized shifting
synchronizing generator
synchronizing pulse
synchronizing separator
synchronizing signal
synchronous converter
synchronous machine
synchronous motor
synchronous orbit
sychrotron radiation
syncopated music
syncro-mesh
syndesmo-
synectics group
synneusis texture
synodic month
synonym dictionary
syntactic analysis
syntactic construction
syntactic meaning
syntactic structure
syntax language
syntectic magma
synthesis gas
synthetic cloth
synthetic detergent
synthetic division
synthetic dye
synthetic fabric
synthetic geometry
synthetic lacquer
synthetic philosophy
synthetic plasma
synthetic resin
synthetic rubber
synthetic textile
syntonic personality
syphil-
syphilitic arthritis
syphilitic meningencephalitis
syphilitic paresis
syphilo-
syringo-
syro-
syrphid fly
syrphus fly
syrup of ipecac
system component
system components
system engineer
system engineering
system function
system of belief
system of beliefs
system of government
system of ideas
system of knowledge
system of oral communication
system of theories
system of values
system of weight
system stabilization
systematic amnesia
systematic botany
systematic theology
systematically terrorize
systemic insecticide
systems analysis
systems analyst
systems design
systems engineering
systems planning
systole and diastole
systolic hypertension

t aint
t b
t distribution
t formation
t square
t will
t'ai chi chu'an
t'ao t'ieh
t-bar lift
t-bone
t-man
t-shirt
tRNA
ta ta
ta-ta
ta-zaung	

tab key
tab of
taban puteh	

tabby cat
tabby moth
tabby weave
tabby-cat heart
tabby-cat striation
tabernacle mirror
tabernacle work	
	
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		

tabes dorsales
tabes dorsalis
table base
table board
table book
table chair
table clothing
table cover
table cut
table d'hote
table decoration
table decorator
table dhote
table diamond
table engine
table glass
table knife
table lamp
table licence
table line
table linen
table money
table mountain
table napkin
table of contents
table of organization
table of prothesis
table of the Lord
table oil
table radio
table rapping
table round
table ruby
table salt
table saw
table service
table setting
table settle
table spar
table stake
table stone
table talk
table talker
table tennis
table the motion
table tilting
table tipping
table tomb
table tripod
table turning
table wine
table work
table-board
table-book
table-cloth
table-cut
table-cutter
table-cutting
table-faced
table-formed
table-hop
table-hopped
table-hopper
table-hopping
table-land
table-mountain pine
table-rapping
table-shaped
table-spoon
table-stone
table-tail
table-talk
table-topped
table-turning
tableau curtain
tableau vivant
tableaux vivants
tabled joint
tablet chair
tablet letter
tablet tea
tablet triturate
tablets of the memory
taboo language
taboo word
tabor pipe
tabs of
tabs on	tabucki grass	tabula rasa	tabular iceberg	tacca arrowroot	tacheo-
tachina fly	tacho-
tachy case	tachy-
tacit consent	tack bend	tack board	tack bumpkin	tack comb	tack down wind	tack duty	tack hammer	tack line	tack on	tack pin	tack rivet	tack room	tack together	tack up	tack weld	tack welder	tack welding	tacketing gut
tacking needle
tackle block
 tackle board
tackle fall
tackle house
 tackle post
tackles back formation
tacky party
tacnodeRare
tactical air force
tactical bombing
tactical evolutions
tactical maneuvers
tactical nuclear weapons
tactical plan
tactical police
tactical unit
tacticaIsupport bomber
tactile amnesia
 tactile cell
 tactile corpuscle
 tactile hair
 tactile organ
 tactile process
 tactile sense
 tadpole fish
 tadpole-shaped
tae-kwan-do
tae-dium vitae
taenii-
taenio-
taffeta weave
taffrail log
 taffy pull
 tag addressee
 tag after
 tag alder
 tag along
 tag and rag
 tag boat
 tag dance
 tag day
 tag end
 tag line
 tag on
 tag up
 tag, rag, and bobtail
 tag-addressing
tag-affixing
tag-dating
tag-marking
tag-rag
tag-stringing
tagged atom
tagged element
tagmemic analysis
tagrag and bobtail
tai-ping
tail barley
tail bay
tail beam
tail block
tail boom
tail coat
tail cone
tail covert
tail end
tail fan
tail fin
tail fly
tail force
tail gate
tail grab
tail grape
tail group
tail gunner
tail hook
tail house
tail in a gate
tail joist
tail lamp
tail lock
tail off
tail pipe
tail pit
tail plane
tail print
tail rhyme
tail rod
tail rope
tail rotor
tail set
tail shaft
tail skid
tail slide
tail spin
tail spindle
tail stinger
tail tackle
tail unit
tail water
tail wheel
tail wind
tail-board
tail-chasing
tail-cropped
tail-decorated
tail-docked
tail-end
tail-glide
tail-heavy
tail-high landing
tail-joined
tail-low landing
tail-piece
tail-pipe burner
tail-race
tail-rhymed
tail-rope
tail-switching
tail-tied
tail-wagging
tailed frog
tailed sonnet
tailed toad
tailings auger
taille-douce
tailless airplane
tailless jet
tailor warbler
tailor's chalk
tailor's-tack
tailor-bird
tailor-built
tailor-cut
tailor-legged
tailor-made
tailor-mades
tailor-make
tailor-making
tailor-suited	
tailored suit
taint-free
taint-worm
taintor gate
tais toi
take French leave
take a Sunday drive
take a back seat
take a bow
take a break
take a call
take a careful look
take a chance
take a close look
take a course
take a crack at
take a crap
take a cursory view of
take a dare
take a decision
take a dim view of
take a dislike to
take a dive
take a drop
take a drop too much
take a fall
take a fancy to
take a favorable turn
take a flier
take a flight
take a fling at
take a flop
take a fresh lease on life
take a further look
take a gamble on
take a glance at
take a hand
take a hand in
take a header
take a heading
take a holiday
take a journey
take a joyride
take a leaf out of
take a leaf out of your book
take a leap in the dark
take a leave of absence
take a liberty
take a likeness
take a liking to
take a lively interest
take a long
take a look at
take a nap
take a new lease on life
take a part
take a peek
take a peep
take a percentage
take a photograph
take a picture
take a poke at
take a pop at
take a potshot
take a powder
take a pratfall
take a premium
take a prompt
take a random sample
take a rap
take a reading
take a recess
take a reef
take a resolution
take a rest
take a rubbing
take a runout powder
take a second look
take a set
take a shine to
take a shit
take a short cut
take a shot at
take a shy at
take a sight
take a spill
take a squint at
take a stand
take a straw vote
take a stretch
take a swing at
take a swipe at
take a trip
take a tumble
take a turn
take a turn for the better
take a voyage
take a walk
take a whack at
take a whiff of
take a wrong turn
take a wrong turning
take aback
take account of
take action
take advantage of
take advice
take after
take aim
take aim at
take alarm
take all of
take amiss
take an active part in
take an approach to
take an assumed name
take an attitude
take an aversion to
take an interest
take an interest in
take an overdose
take and do
take another look
take apart
take arms
take as a matter of course
take as a model
take as a precondition
take as a reason
take as an excuse
take as an occasion
take as demonstrated
take as gospel truth
take as proved
take aside
take at face value
take at your word
take away
take away from
take away your breath
take back
take bearings
take before the judge
take birth
take by assault
take by storm
take by surprise
take by the beard
take by the button
take by the hand
take by the lapel
take by the throat
take captive
take care
take care of
take care of number one
take center stage
take chances
take charge
take charge of
take charge of your destiny
take cognizance of
take cold
take comfort
take command
take counsel
take counsel of your pillow
take counsel with
take courage
take cover
take cover under
take credit
take dead aim at
take delight in
take doing
take down
take down a peg
take down a peg or two
take down in shorthand
take effect
take exception
take exception to
take fire
take five
take flight
take for
take for a ride
take for a sucker
take for better or for worse
take for gospel
take for granted
take for your own
take for yourself
take form
take forty winks
take fright
take from
take good care
take great satisfaction
take heart
take heart of grace
take heed
take heed at your peril
take heed of
take hold
take hold of
take hold of one
take hold of you
take holy orders
take horse
take ill
take in
take in a reef
take in bad part
take in exchange
take in good part
take in hand
take in sail
take in the sights
take in tow
take in vain
take in your stride
take into account
take into camp
take into consideration
take into custody
take into employment
take into your head
take into your service
take issue
take issue with
take it
take it all
take it as given
take it easy
take it in your stride
take it into your head
take it like a man
take it lying down
take it on the chin
take it on the lam
take it or leave it
take it out of
take it out of your hide
take it out of your skin
take it out on
take it that
take its place
take its rise
take its rise from
take kindly to
take leave
take leave of
take leave of your senses
take legal proceedings against
take lessons
take liberties
take liberties with
take life
take life easy
take line
take lying down
take measures
take medicine
take merit to yourself
take narrow views
take no account of
take no denial
take no interest in
take no note of
take no notice of
take no part in
take no stock in
take no thought of
take no thought of the morrow
take no thought of tomorrow
take note
take note of
take notice
take notice of
take nourishment
take oath
take off
take off a high
take off after
take off for
take off on
take off weight
take off your hands
take off your hat to
take off your shoes
take offense
take office
take on
take on credit
take on faith
take on over
take on trust
take on weight
take on yourself
take one over
take one step at a time
take one's breath away
take one's life
take order
take orders
take origin
take out
take out after
take out from under wraps
take out insurance
take out membership
take out of mothballs
take out on
take over
take over for
take pains
take part in
take part with
take pen in hand
take pity on
take pity upon
take place
take pleasure in
take position
take possession
take possession of
take potluck
take precautions
take precedence
take pride in
take prisoner
take rank
take refuge
take refuge in
take residence at
take rest
take revenge
take rise
take root
take shame
take shape
take shelter
take ship
take short
take sick
take sides
take sides with
take silk
take snuff
take some doing
take something in your stride
take soundings
take steps
take steps and measures
take stock
take stock in
take stock of
take ten
take the Lord's name in vain
take the air
take the air line
take the attitude
take the average
take the back track
take the bait
take the ball on the rebound
take the bit in
take the bit in the teeth
take the bit in your teeth
take the bite out
take the blame
take the breath away
take the bull by the horns
take the cake
take the chair
take the chance
take the chances of
take the chill off
take the consequences
take the count
take the cross
take the cure
take the dimensions of
take the edge off
take the edge off of
take the fancy of
take the field
take the first step
take the floor
take the good the gods provide
take the ground
take the ground from under
take the heart out of
take the helm
take the initiative
take the last count
take the law in your own hands
take the law into your own hands
take the law of
take the law on
take the lead
take the liberty
take the lid off
take the life of
take the load off your mind
take the mantle of
take the marriage vows
take the mean
take the measure
take the measure of
take the mind off of
take the offensive
take the opportunity
take the part of
take the place of
take the pledge
take the plunge
take the rap
take the rap for
take the reciprocal course
take the reins into your hand
take the reins of government
take the responsibility
take the risk
take the road
take the shape of
take the shine out of
take the starch out of
take the sting out
take the sting out of
take the stump
take the the bull by the horns
take the throne
take the tuck out of
take the veil
take the vows
take the wind out of
take the wind out of your sails
take the words out of your mouth
take the wraps off
take things as they come
take thought of
take time
take time by the forelock
take time out
take to
take to account
take to arms
take to be
take to court
take to drink
take to drinking
take to flight
take to heart
take to mean
take to one's heels
take to pieces
take to task
take to the air
take to the airways
take to the bosom
take to the cleaners
take to the hustings
take to the road
take to the stump
take to wife
take to your arms
take to your heels
take to yourself a wife
take trouble
take turns
take umbrage
take unawares
take under active consideration
take under advisement
take under consideration
take under your wing
take up
take up a side
take up again
take up an inquiry
take up and pay off
take up arms
take up membership
take up residence
take up the cause of
take up the cudgels
take up the cudgels against
take up the cudgels for
take up the gauntlet
take up the hatchet
take up the sword
take up time
take up with
take up your abode
take up your option
take up your quarters
take up your thoughts
take up your time
take upon your shoulders
take upon yourself
take vows
take what comes
take wing
take with a grain of salt
take wrong
take you at your word
take you back
take you up on
take your bearings
take your breath away
take your business to
take your case to the public
take your chance
take your choice
take your constitutional
take your cue from
take your death
take your departure
take your dust
take your ease
take your fancy
take your foot off the gas
take your hat off to
take your head off
take your last breath
take your last sleep
take your leave
take your leisure
take your life away
take your life in your hand
take your life in your hands
take your lumps
take your measure
take your medicine
take your oath
take your oath upon
take your opinions ready-made
take your own course
take your own life
take your own sweet time
take your picture
take your place
take your pleasure
take your position
take your punishment
take your sabbatical
take your stand
take your stand against
take your stand upon
take your time
take your trade to
take your turn
take your way
take your word
take your word for
take yourself away
take yourself off
take-
take-all
take-charge
take-charge guy
take-down
take-home
take-home examination
take-home pay
take-in
take-off
take-off booster
take-off rocket
take-off speed
take-off strip
take-out
take-over
take-up
take-up box	
taken aback	
taken as granted	
taken away
taken by surprise
taken for granted
taken ill
taken off
taken on
taken unawares
taken up
taken up with
taken with
takeoff power
takeoff ramp
takeoff rocket
takeoff run
takeout double	
taker-down
taker-in
taker-off
taking a part
taking a role
taking all in all
taking all things together
taking apart
taking away
taking by storm
taking down
taking everything into account
taking exception
taking from under wraps
taking in
taking into account
taking into account that
taking into custody
taking it for all in all
taking leave
taking of life
taking off
taking office
taking on
taking one thing with another
taking or drawing out
taking over
taking place
taking possession
taking the wraps off
taking ways
taking-in	
tal-laisim
talba gum
talc bag
talc blank
talc brick
talc crayon
talc cube
talc facing
talc pencil
talc pulverizer
talc schist
talc-grinding
talca gum
talco gum
talcum powder
tale-teller
tale-telling	
taleh gum	
talent money
talent scout
talent show	
taled person
talha gum
talk about
talk against time
talk at
talk away
talk back
talk beans
talk between ships
talk big
talk dirty
talk double Dutch
talk down
talk down to
talk film
talk highfalutin
talk idly
talk in
talk in superlatives
talk incoherently
talk into
talk nineteen to the dozen
talk nonsense
talk of
talk of the town
talk off the top of your head
talk on
talk out
talk out of
talk out of turn
talk over
talk over the back fence
talk round
talk show
talk the hind leg off a mule
talk through your hat
talk to
talk to death
talk to hear your head rattle
talk to in private
talk to yourself
talk together
talk too much
talk turkey
talk up
talk with
talk with one
talk with you in private
talk you around
talk you deaf and dumb
talk you into a fever
talk you to death
talk your ear off
talk your head
talk your head off
talk yourself hoarse
talk yourself out of breath
talk-back
talkative person
talked about
talked-about
talked-of
talkee-talkee
talking book
talking chief
talking down
talking machine
talking out of
talking picture
talking point
talking through your nose
talking to hear yourself talk
talking-down system
talking-to
talking-tos		talky-talk
talky-talky
tall as a maypole
tall coreopsis
tall drink
tall fescue
tall meadow oat
tall meadow rue
tall oat grass
tall oil
tall order
tall person
tall poppy
tall ship
tall story
tall sunflower
tall tale
tall talk
tall-bodied
tall-built
tall-case clock
tall-chimneyed
tall-columned
tall-corn
tall-elmed
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pillared
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan
tallow bayberry
tallow candle
tallow catch
tallow chandler
tallow chandlery
tallow chandling
tallow cooler
tallow crackling
tallow cup
tallow cutter
tallow dip
tallow drop
tallow gourd
tallow loaf
tallow mange
tallow melter
tallow nut
tallow oil
tallow pot
tallow press
tallow refiner
tallow renderer
tallow sampler
tallow shrub
tallow tree
tallow wood
tallow-chandlering
tallow-colored
tallow-cut
tallow-face
tallow-faced
tallow-hued
tallow-lighted
tallow-pale
tallow-top
tallow-topped
tallow-white
tally board
tally card
tally clerk
tally iron
tally of
tally plan
tally room
tally sheet
tally shop
tally stick
tally trade
tally up
tally walk
tally with
tally-ho

tallyho back
tallyho coach
tallyho over
talmi gold
talon-tipped
tam o' shanter
tam o’shanter
tam-o’-shanter
tam-o’-shanter
tam-o-shanter
tam-o-shantered
tam-tam
tamale pie
tamarack pine
tamarind fish
tamarind plum
tamarisk family
tamarisk salt
tamarisk salt tree
tamarix family	
tambookie grass
tambour clock
tambour lace
tambour stitch
tambour stitcher
tambour work
tame-grief
tame-grown
tame-lived
tame-looking
tame-minded
tame-natured
tame-spirited
tame-witted
tammie norie	
tammy cloth
tamp in				
tamper with	
tampered with
tamping bar
tamping iron
tamping pick
tamping stick		
tan bay
tan oak
tan your hide
tan-burning
tan-colored
tan-faced
tan-mouthed
tan-sailed
tan-skinned
tan-strewn
tan-tan
tan-tinted
tan-trodden
tanbark beetle
tanbark oak
tanbark tree	
tandem bicycle
tandem cart
tandem plane
tandem rotors
tandem seat
tandem-compound
tandem-punch
tandem-rotor helicopter	
tang chisel
tang end
tangent distance
tangent galvanometer
tangent plane
tangent-cut
tangent-saw
tangent-sawed
tangent-sawing
tangent-sawn
tangential motion
tangerine-colored
tangible assets
tangle picker
tangle up with
tangle with
tangle-haired
tangle-headed
tangle-legs
tangle-tail
tangle-tailed	
tangled in
tangled skein
tank car
tank circuit
tank corps
tank corpsman
tank crewman
tank destroyer
tank dome
tank drama
tank driver
tank engine
tank farm
tank farming
tape sizer
tape sizing
tape thermometer
tape-bound
tape-grass family
tape-printing
tape-record
tape-slashing
tape-tied
tape-tying	
taped program	
taped show	
taper drill	
taper file	
taper gauge	
taper jack	
taper mandrel	
taper off	
taper pin	
taper pipe thread	
taper reamer	
taper reducer sleeve	
taper tap	
taper to a point	
taper tool	
taper-bored	
taper-fashion
taper-fashion arrow	
taper-grown	
taper-headed	
taper-lighted	
taper-limbed	
taper-molded	
taper-pointed	
tapered-in	
tapestry Brussels	
tapestry beetle	
tapestry carpet	
tapestry glass	
tapestry maker	
tapestry making	
tapestry moth	
tapestry needle	
tapestry painting	
tapestry stitch	
tapestry weaver	
tapestry weaving	
tapestry work
tar putty
tar sand
tar soap
tar spot
tar sprayer
tar still
tar water
tar well
tar-and-feathering
tar-barrel
tar-bedaubed
tar-bind
tar-black
tar-boiling
tar-brand
tar-brush
tar-burning
tar-clotted
tar-coal
tar-dipped
tar-heating
tar-laid
tar-paint
tar-paved
tar-removing
tar-roofed
tar-scented
tar-sealed
tar-soaked
tar-spray
tar-water	
tara fern
tarage table
tarantula hawk	
tardive dyskinesia
tardy epilepsy
tardy-gaited
tardy-moving
tardy-rising	
tare an ages	
tare anouns	
tare anounty	
tare grass	
tare room	
tare vetch	
target arrow	
target bass	
target boat
target date
target day
target frame
target image
target lamp
target language
target man
target meeting
target missile
target planet
target practice
target range
target rifle
target rod
target shaft
target spot
target values
target-shy
target-tower
target-tug
tariff duty
tariff law
tariff maker
tariff making
tariff reform
tariff reformer
tariff treaty
tariff wall
tariff-born
tariff-bound
tariff-fed
.tariff-protected
.tariff-raised
.tariff-raising
.tariff-reform
.tariff-regulating
.tariff-ridden
.tariff-tinkering
.tariff-wise
tarn-brown
tarpanlin muster
tarpanlin-covered
tarpanlin-lined
tarragon oil
tarragon vinegar
tarred with the same brush
tarry for
tarry-breeks
tarry-fingered
tarry-jacket
tarrying irons
tarso-
tarso-metatarsal
tarso-metatarsus
tarso-orbital	
tart up
tartan velvet
tartan-purry	
tartar emetic
tartar sauce
tartar steak
tartar yeast
tartare sauce
tartare steak
tartaric acid
tartro-
task force
task group	
task the mind with
task time
task wage
task with
task-work
tasmanian devil
tasmanian wolf	
tassel bush
tassel flower
tassel grass
tassel hand
tassel hyacinth
tassel mold
tassel plant
tassel pondweed
tassel stitch
tassel tree
tassel weaver
tassel-hung	
taste beaker
taste blood
taste bud
taste bulb
taste cell
taste cup
taste goblet
taste good
taste hair
taste in the mouth
taste like
taste like ashes in the mouth
taste of
taste paper
taste-maker
tat tvam asi
tat-tat
tat-tat-tat
tatou peba
tattie bogle
tattie lifting
tattle on
tattletale gray
tattoo mark	tatty-peelin
tau cross
tau staff
tau-meson
tau-saghyz
tau-topped
taunt ship
taunt with
taunt-masted
taunt-rigged
taupe brown	taupe-rose	tauro-
taurocholic acid	taut as a bowstring
taut-
tauto-
tavern car
tavern table
tavern token
tavern-gotten
tavern-hunting
tavern-tainted
taw line
tawdry lace
tawed leather
tawny owl
tawny port
tawny-brown
tawny-coated
tawny-colored
tawny-faced
tawny-gold
tax title
tax with
tax withholding
tax write-off
tax your energies
tax yourself
tax-
tax-born
tax-bought
tax-burdened
tax-cart
tax-deductible
tax-dodging
tax-exempt
tax-exempt bond
tax-exempt status
tax-free
tax-free bond
tax-gatherer
tax-laden
tax-levying
tax-ridden
tax-supported
taxable goods
taxable income
taxable land
taxable property
taxi dancer
taxi driver
taxi horn
taxi radar
taxi strip
taxi truck
taxi-bordered
taxi-cab
taximeter cab
tch tch
tcheck out
te deum
te igitur
te-hee
te-heed
te-heing
tea bag
tea ball
tea bell
tea biscuit
tea blender
tea blight
teaborer
teabread
teabreak
teabroom
teacaddy
teacaketeacan
teacanister
teacart
teaceremony
teachecker
teachen
teaclipper
teacloth
teacooper
teacosy
teacozy
teadance
teadrinker
teadrunkard
teaeegg
teafeam
teafight
teafighting
teagarden
teagardener
teagirl
teagown
teagreen
teahound
teahour
teahouse
teainfuser
teakettlebroth
teakitchen
tealead
tealeaf
teamaid
teamaker
teameeting
teamite
teamixer
teamosquito
teaoil
teaoiltree
teaoilteapacker
tea party
tea percolator
tea plant
tea planter
tea planting
tea plate
tea rose
tea sampler
tea scrub
tea service
tea set
tea shop
tea sifter
tea strainer
tea table
tea tasting
tea towel
tea tray
tea tree
tea trolley
tea urn
tea wagon
tea weigher
tea-blending
tea-chest
tea-clipper
tea-colored
tea-covered
tea-cup
tea-garden
tea-gardened
tea-growing
tea-inspired
tea-leaf
tea-leaved
tea-leaves
tea-loving
tea-maker
tea-mixing
tea-of-heaven
tea-packing
tea-party
tea-plant
tea-planter
tea-pot
tea-producing
tea-rose
tea-rose pink
tea-scented
tea-seed oil
tea-sodden
tea-spoon
tea-swilling
tea-table
tea-table talk
tea-tabular
tea-taster
tea-things
tea-tray
tea-tree
teach a lesson
teach an old dog new tricks
teach fishes to swim
teach in
teach the elements
teach the rudiments
teach-in
teach-ins
teacher bird
teacher clerk
teacher edition
teacher of rhetoric
teacher training
teacher's aide
teacher's pet
teachers college
teachers' college
teaching aid
teaching assistant
teaching elder
teaching fellow
teaching fellowship
teaching hospital
teaching institution
teaching intern
teaching machine
teaching staff
teacher post
tea-brown
tea-built
tea-complexioned
tea-lined
tea-producing
tea blue
tea duck
tea flock
team boat
team play
team spirit
team teaching
team up
team up with
team with
team-mate
tear along
tear apart
tear around
tear ass
tear away
tear bag
tear bomb
tear bottle
tear down
tear duct
tear from
tear gas
tear gland
tear grass
tear grenade
tear into
tear limb from limb
tear loose
tear off
tear off the mask
tear open
tear out
tear sheet
tear shell
tear streak
tear strip
tear tape
tear to pieces
tear to rags
tear to shreds
tear to tatters
tear up
tear up the earth
tear up the road
tear up the track
tear up your mortgage
tear your hair
tear your hair out
tear yourself away
tear-
tear-acknowledged
tear-affected
tear-angry
tear-arresting
tear-attested
tear-baptized
tear-bedabbled
tear-bedewed
tear-besprinkled
tear-blinded
tear-bottle
tear-bright
tear-commixed
tear-compelling
tear-composed
tear-creating
tear-damped
tear-derived
tear-dewed
tear-distained
tear-distilling
tear-dropped
tear-drowned
tear-eased
tear-embarrassed
tear-expressed
tear-falling
tear-filled
tear-forced
tear-fraught
tear-freshened
tear-gas
tear-gas bomb
tear-gas grenade
tear-gas gun
tear-gassed
tear-gassing
tear-glistening
tear-imaged
tear-jerker
tear-jerking
tear-kissed
tear-lamenting
tear-lined
tear-marked
tear-melted
tear-mirrored
tear-misty
tear-mocking
tear-moist
tear-mourned
tear-off
tear-out
tear-owned
tear-pale
tear-pardoning
tear-paying
tear-persuaded
tear-phrased
tear-pictured
tear-pitying
tear-plagued
tear-pouring
tear-practiced
tear-procured
tear-protested
tear-provoking
tear-purchased
tear-quick
tear-raining
tear-reconciled
tear-regretted
tear-resented
tear-revealed
tear-reviving
tear-salt
tear-scomning
tear-sealed
tear-shamed
tear-shedding
tear-shot
tear-stained
tear-stubbed
tear-swollen
tear-thirsty
tear-washed
tear-wet
tear-wiping
tear-worn
tear-wrung
tearful eyes
tearing down
tearing out
tearing passion
tearing up root and branch
tease out
tease tenon
tease up
tease clipper
tease cutter
tease family
tease frame
tease gourd
tease grower
tease merchant
tease packer
tease sorter
tea artist
teeser curtain
teat cup
teeze tenon
technical adviser
technical brilliance
technical college
technical education
technical expert
technical flaw
technical jargon
technical knockout
technical know-how
technical knowledge
technical mastery
technical oil
technical school
technical sergeant
technical skill
technical term
technical training institute
technical writer
technical writing
technically superb
technico-
techno-
technological institute
technological revolution
technological school
technological unemployment
technological warfare
tecno-
tectorial membrane
teddy bear
teddy boy
teddy girl
teddy-bear
tedious work
tedium-proof
tee bar
tee beam
tee burial
tee iron
tee joint
tee off
tee plate
tee rail
tee shirt
tee slot
tee square
tee-bulb
tee-hee
tee-hole
tee-name
tee-shirt
teed off
teeing ground
teel oil
tee over
teen with
teeing imagination
teeing loins
teeing rain
teeing womb
teen age
teen-age
teen-aged
teen-ager
teenie-weenie
teensie-weensie
teensy-weensy
teentsy-weentsy
teeny-weeny
tee-totter
tee-tottering
tetering-board
teter-y-bender
tee-ridge
tee-chattering
tee-edging
tee-gnashing
tee-grinding
teeing ring
teeing troubles
teil tree
teind boll
tele-
tele-
tele-action
tele-iconograph
telechron clock
telegraph agency
telegraph bar
telegraph block
telegraph blue
telegraph board
telegraph box
telegraph bracket
telegraph bug
telegraph buoy
telegraph cable
telegraph clerk
telegraph clock
telegraph coil
telegraph connector
telegraph editor
telegraph form
telegraph hook
telegraph inspector
telegraph instrument
telegraph insulator
telegraph jack
telegraph key
telegraph laborer
telegraph line
telegraph lineman
telegraph mechanic
telegraph messenger
telegraph operator
telegraph plant
telegraph pole
telegraph protector
telegraph recorder
telegraph recorders
telegraph relay
telegraph repeater
telegraph rope
telegraph sounder
telegraph superintendent
telegraph switchboard
telegraph tape
telegraph transmitter
telegraph tubing
telegraph wire
telegraph wireman
teleo-
teleological argument
teleological proof
telepathic dream
telepathic hallucination
telepathic transmission
telephone amplifier
telephone area
telephone arm
telephone attendant
telephone bell
telephone book
telephone booth
telephone box
telephone cabinet
telephone cable
telephone call
telephone case
telephone cell
telephone closet
telephone coil
telephone condenser
telephone connector
telephone cord
telephone counter
telephone desk
telephone directory
telephone engineer
telephone engineering
telephone exchange
telephone extension
telephone faultsman
telephone fitter
telephone fuse
telephone generator
telephone holder
telephone instrument
telephone insulation
telephone insulator
telephone jack
telephone kiosk
telephone knob
telephone laborer
telephone line
telephone lineman
telephone magneto
telephone man
telephone market
telephone mechanic
telephone mechanics
telephone mouthpiece
telephone number
telephone office
telephone operator
telephone pad
telephone plug
telephone pole
telephone protector
telephone receiver
telephone relay
telephone selector
telephone set
telephone stand
telephone supervisor
telephone support
telephone switch
telephone switchboard
telephone table
telephone tax
telephone terminal
telephone tester
telephone transmitter
telephone wire
telephone wireman
telephonic engineer
telephoto lens
teleprinter exchange
telescope antenna
telescope bag
telescope box
telescope chimney
telescope door
telescope eye
telescope finder
telescope fish
telescope fly
telescope jack
telescope joint
telescope lens
telescope screw
telescope shell
telecope sight
telecope stack
telescope table
telescope tube
telescope word
telescopic camera
telescopic sight
telestial kingdom
television audience
television broadcast
television camera
television channel
television drama
television engineer
television mast
television play
television radar air navigation
television receiver
television receiver parts
television reception
television relay
television set
television show
television station
television studio
television technician
television transmission
television transmitter
television transmitter parts
television tube
television-viewer
tell a good story
tell a lie
tell a story
tell a thing or two
tell all
tell apart
tell confidentially
tell for your ears only
tell fortunes
tell how
tell idle tales
tell in advance
tell in glowing terms
tell it like it is
tell it not in Gath
tell it to the judge
tell its own story
tell its own tale
tell more than you want to know
tell off
tell on
tell once and for all
tell one thing from another
tell secrets
tell tales
tell tales out of school
tell the future
tell the meaning of
tell the news
tell the truth
tell true
tell where to get off
tell you a secret
tell you to your face
tell your beads
tell your fortune
tell yourself
tell-tale
tell-truth
teller of tales
teller's check
teller-out
telling of beads
telltale compass
telltale sign
tellur-
telluric acid
tellurium glance
telo-
telome theory
telpher carrier
telpher line
telpher railway
telpher ropeway
temper color
temper pin
temper screw
temper tantrum
temper-spoiling
temper-trying
temper-wearing
tempera painting
temperance drink
temperance hotel
temperance movement
temperantia salver
temperantia tray
temperate zone
temperature coefficient
temperature control
temperature curve
temperature gradient
temperature relay
temperature sensation
temperature sense
temperature sensor
temperature signal
temperature spot
temperature wind rose
temperature-humidity index
tempered glass
tempered safety glass
tempered semitone
tempest in a teacup
tempest in a teapot
tempest-bearing
tempest-beaten
tempest-blown
tempest-born
tempest-clear
tempest-driven
tempest-flung
tempest-gripped
tempest-harrowed
tempest-loving
tempest-proof
tempest-rent
tempest-rocked
tempest-scattered
tempest-scoffing
tempest-shattered
tempest-sundered
tempest-swept
tempest-threatened
tempest-torn
tempest-tossed
tempest-tost
tempest-troubled
tempest-tosser
tempest-tossed
tempest-walking
tempest-winged
tempest-worn
tempestuous rage
tempestuous wind
template excavator
template jig
temple axis
temple flower
temple mound
temple name
temple of the Holy Ghost
temple prostitute
temple title
temple tree
temple-bar
temple-crowned
temple-guarded
temple-haunting
temple-robbing
temple-sacred
temple-treated
tempo mark
tempo primo
tempo rubato
tempo turn
temporal bone
temporal hour
temporal lobe
temporal summation
temporary arrangement
temporary duty
temporary employee
temporary expedient
temporary life annuity
temporary lodger
temporary measure
tempero-
temps lie
tempt Providence
tempt fortune
tempt the appetite
temptation-proof
tempus edax rerum
tempus fugit
ten best-dressed
ten cents
ten commandments
ten million
ten o'clock
ten strike
ten thousand
ten to one
ten-
ten-a-penny
ten-acre
ten-acred
ten-armed
ten-barreled
ten-bore
ten-cell
ten-cent
ten-cent store
ten-coupled
ten-course
ten-cylindered
ten-day
ten-day fern
ten-dollar
ten-dollar bill
ten-dollar gold piece
ten-eighty
ten-fingered
ten-footed
ten-forties
ten-gallon hat
ten-gauge
ten-grain
ten-guinea
ten-headed
ten-horned
ten-horsepower
ten-hour
ten-inch
ten-jointed
ten-keyed
ten-knotter
ten-league
ten-mile
ten-minute
ten-month
ten-oared
ten-parted
ten-peaked
ten-percenter
ten-pins
ten-ply
ten-point
ten-pound
ten-pounder
ten-rayed
ten-ribbed
ten-roomed
ten-second
ten-share unit stock
ten-shilling
ten-spined
ten-spot
ten-strike
ten-striker
ten-stringed
ten-syllable
ten-syllabled
ten-talented
ten-thousandaire
ten-to-one shot
ten-ton
ten-tongued
ten-toothed
ten-twenty-thirty
ten-weeks stock
ten-wheeled
ten-wheeled locomotive
ten-year
tenacious of life
tenaille line
tenant at sufferance
tenant at will
tenant farmer
tenant for life
tenant for years
tenant from year to year
tenant in capite
tenant in chief
tenant right
tenant righter
tenant-in-chief
tenant-right
tend animals
tend on
tend to
tend to a point
tend to go
tend to show
tend toward
tend towards
tendency chord
tendency play
tendency theory
tendency tone
tendency writing
tender age
tender annual
tender conscience
tender feeling
tender heart
tender loving care
tender mercies
tender passion
tender perennial
tender rocket
tender spot
tender susceptibilities
tender thanks
tender your compliments
tender your congratulations
tender your felicitations
tender your resignation
tender-bearded
tender-bladed
tender-bodied
tender-boweled
tender-colored
tender-conscienced
tender-dying
tender-eared
tender-eyed
tender-faced
tender-footed
tender-footedness
tender-foreheaded
tender-handed
tender-hearted
tender-heartedly
tender-hefted
tender-hoofed
tender-hued
tender-looking
tender-minded
tender-mouthed
tender-natured
tender-nosed
tender-personed
tender-rooted
tender-shelled
tender-sided
tender-skinned
tender-souled
tender-taken
tender-tempered
tender-witted
tenderloin steak
tending to
tendinous arch
tendon reflex
tendon sense
tendril climber
tendril-climbing
tene-bricose
tenement building
tenement district
tenement house
tenement of clay
tennessee walking horse
tennis ball
tennis bum
tennis court
tennis elbow
tennis marker
tennis play
tennis player
tennis playing
tennis racket
tennis shoe
tennis shoes
tennis-ball
tennis-court
tennis-play
ten-
tenon auger
tenon saw
tenon tooth
tenonto-
tenor behind
tenor clef
tenor covering
tenor drum
tenor horn
tenor octave
tenor tuba
tenor viol
tenor violin
tenpenny nail
tenpin bowling	
tense auxiliary
tense logic
tense phrase
tense readiness
tense-drawn
tense-eyed
tense-fibered
tensile strength
tension carriage
tension element
tension fatigue
tension line
tension pulley
tension rod
tension roller
tension zone
tent bed
tent caterpillar
tent dress
tent fly
tent meeting
tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
tent tree
tent worm
tent-clad
tent-dotted
tent-dwelling
tent-fashion
tent-fly
tent-peg
tent-shaped
tent-sheltered
tent-stitch
tentaculi-
tentative approach
tentative contact
tentative examination
tentative explanation
tentative method
tentative poke
tentatively suggest
tented field
tenter-hook
tenterhook willey
tenth muse
tenth's place
tenth-rate
tenui-
tenure by free alms
tenure in chivalry
tenure in free alms
tenure in office
tenure of office
teo-nong
tepary bean
ter-
ter-equivalent
ter-sacred
ter-sanctus
tera-
teraí hat
terat-
terbium metal
terbium oxide
tercel gentle
tercel-gentle
terebic acid
terebinic acid
terebinth tree
terephthalic acid
tereti-
tergo-
term attendant
term day
term fee
term hour
term insurance
term loan
term of imprisonment
term paper
term policy
term rate
term settlement
term-time
terminable annuity
terminal case
terminal date
terminal figure
terminal leave
terminal market
terminal moraine
terminal point
terminal speed
terminal velocity
terminate the account
terminating decimal
terminating plan
terminus a quo
terminus ad quem
termite-proof
terms of trade
tern schooner
tern-plate
ternary form
ternate-pinnate
terne metal
terne plate
terpane group
terpene alcohol
terpene hydrate
terpin hydrate
terra a terra
terra alba
terra cariosa
terra catechu
terra cotta
terra damnata
terra firma
terra foliata
terra incognita
terra japonica
terra miraculosa
terra muriatica
terra orellana
terra pinguis
terra ponderosa
terra porcellanea
terra pozzuoli
terra putura
terra rosa
terra rossa
terra salitrosa
terra sienna
terra sigillata
terra umbra
terra verde
terra-cotta
terra-cotta lumber
terrace maker
terrace-banked
terrace-fashion
terrace-mantling
terrace-steepled
terraced house
terae filii
terae filius
terrain clearance indicator
terrain cure
terrain map
terramara culture
terrapin paws
terrapin scale
terrasse green
terre verte
terre-a-terreishly
terre-tenant
terre-verte
terrestrial globe
terrestrial guidance
terrestrial kingdom
terrestrial planet
terrestrial telescope
terrible thing
territorial court
territorial defense army
territorial division
territorial militia
territorial reserves
territorial system
territorial waters
territory wool
terror tactics
terror-bearing
terror-breathing
terror-breeding
terror-bringing
terror-crazed
terror-driven
terror-fleet
terror-fraught
terror-giving
terror-haunted
terror-inspiring
terror-lessening
terror-mingled
terror-preaching
terror-ridden
terror-riven
terror-shaken
terror-smitten
terror-stirring
terror-stricken
terror-striking
terror-struck
terror-threatened
terror-troubled
terror-wakened
terror-warned
terror-weakened
terroristic tactics
terry cloth
tersy-versy
tertia tone
tertiary college
tertiary color
tertiary stress
tertiary syphilis
tertium quid
terus-tero
terza rima
tesla coil
tessara-
test act
test animal
test ban
test bar
test blank
test bow
test boy
test case
test clerk
test cutter
test driver
test flight
test frame
test furnace
test game
test glass
test height
test hop
test house
test indicator
test instrument vehicle
test kitchen
test lead
test man
test marker
test match
test meal
test nail
test oath
test object
test one another
test out
test paper
test pattern
test pilot
test pit
test rocket
test room
test run
test solution
test tube
test tubing
test type
test-ban
test-bed
test-tube
test-tube baby
test-tubeful
testaceo-
testament dative
tester bed
testify against
testimonial banquet
testimonial dinner
testimony meeting
testing area
testing device
testing engineer
testing engineering
testing equipment
testing ground
testing sample
testing terminal
tetano-
tetanus bacillus
tetanus toxin
tetanus toxoid
tetarto-
tetbrothalein sodium
tete a tete	
tete de veau
tete-a-tete
tete-beche
tether-devil
tetiothalein sodium
tetra-
tetra-icosane
tetrad difference
tetradecyl alcohol
tetraethyl lead
tetraethyl pyrophosphate
tetraethylthiuram disulfide
tetragonal system
tetragonal trisoctahedron
tetrahedral kite
tetrahedrite type
tetrahydrol cannabinol
tetrahydroxyadipic acid
tetrakis-hexahedron
tetralogy of Fallot
tetramethyl base
tetrode transistor
tetter berry
tetter-berry
teuto-
tew iron
texas deck
texas fever
texas independence day
texas leaguer
texas ranger
texas tower
text blindness
text edition
text hand
text letter
text pen
text title
text writer
text-book
text-hand
text-letter
text-writer
textbook editor
textile designer
textile engineer
textile engineering
textile fabric
textile soap
textual critic
textual criticism
textus receptus
th-
thalamo-
thalamo-olivary
thalass-
thale-cress
thall-
thallium oxysulfide
thallium sulfate
thalloid shoot
thallous sulfate
thalofide cell
thanato-
thank God
thank offering
thank you
thank you kindly
thank your stars
thank-offering
thank-you
thank-you-ma'am
thank-you-maam
thanks be to God
thanks to
thanksgiving day
that bald sexton Time
that be
that being so
that being the case
that buttons it up
that dreamless sleep
that fell sergeant
that flattering unction
that goes without saying
that good night
that grim ferryman
that inward eye
that is
that is evident
that is so
that is to be
that is to say
that leaps to the eye
that old bald cheater
that old common arbitrator
that one
that or nothing
that or the other
that orbed continent
that orbed maiden
that time
that unwritten law
that wants discourse of reason
that way
that will be
that's final
that's for sure
that's it
that's just it
that's just the thing
that's right
that's that
that's the end of the matter
that's the idea
that's the thing
that's the ticket
that's the very thing
that's the way the ball bounces
that's your lookout
that's your pigeon
that's your tough luck
that-a-way
that-away
thatch cloak
thatch grass
thatch palm
thatch peg
thatch pin
thatch rake
thatch rod
thatch tree
thatch-browed
thatch-headed
thatch-roofed
thatched roof
thaumato-
thaw out
thaw-drop
the Abbey
the Absolute
the Absolute Being
the Absolute Idea
the Academy
the Acropolis
the Adjutant General
the Admiralty
the Adversary
the Advocate
the Air Pump
the All-father
the All-holy
the All-knowing
the All-merciful
the All-powerful
the All-wise
the Almighty
the Altar
the Americas
the Anointed
the Antarctic
the Apocalypse
the Arch-fiend
the Archer
the Archipelago
the Arctic
the Argentine
the Arrow
the Ascension
the Assumption
the Author of Evil
the Axis
the Bab
the Balance
the Balkans
the Baptist
the Big Board
the Bird of Paradise
the Blessed One
the Blessed Virgin
the Bluegrass
the Book
the Book of Books
the Bowery
the Bread of Life
the Bride of the Lamb
the Bull
the Canaanite
the Cape
the Carolinas
the Cascades
the Catacombs
the Caucasus
the Centaur
the Chained Lady
the Chameleon
the Charioteer
the Christ
the Christ Child
the Church
the City
the Clock
the Coalsack
the Coast
the Colonies
the Colophonian
the Comforter
the Common Enemy
the Commonwealth
the Commonwealth of Nations
the Commune
the Compasses
the Confederacy
the Confederation
the Confessor
the Conquest
the Consoler
the Continent
the Crab
the Crane
the Creation
the Creator
the Cross
the Crow
the Crown
the Cup
the Cyprian
the DT's
the Dakotas
the Dales
the Decalogue
the Deity
the Deluge
the Demon
the Demon Rum
the Depression
the Destinies
the Destroyer
the Deuce
the Devil
the Devil Incarnate
the Devil's pitchfork
the Dickens
the Digest
the Dirae
the Directory
the Divine
the Divine Liturgy
the Divinity
the Dog Star
the Dolphin
the Dominion
the Door
the Dorado Fish
the Dove
the Doxology
the Dragon
the Eagle
the East
the Eddas
the Eight
the Elevation
the Enemy
the Enlightenment
the Erinyes
the Essence of the Universe
the Establishment
the Eternal
the Eternal Being
the Eucharist
the Eumenides
the Everlasting
the Everlasting Father
the Evil One
the Evil Spirit
the Exchange
the Exile
the Exodus
the Fall
the Father
the Father of Evil
the Father of Lies
the Fathers
the Fens
the Fiend
the First Cause
the Fishes
the Fleet
the Flood
the Fly
the Flying Fish
the Foal
the Forerunner
the Forum
the Foul Fiend
the Four Freedoms
the Four Hundred
the Fund
the Furies
the Furnace
the Galilean
the Garter
the Giant Hunter
the Giraffe
the Gironde
the Goat
the Good Book
the Good Shepherd
the Gospel
the Gracchi
the Graces
the Grange
the Great Bear
the Great Depression
the Great Divide
the Great Dog
the Great Spirit
the Guardian of Mankind
the Hare
the Hebrides
the Herdsman
the Hill
the Holocaust
the Holy Father
the Holy Ghost
the Holy Sacrament
the Holy See
the Holy Spirit
the Honorable
the Horn
the Horned Goat
the Hours
the Hub
the Hunting Dogs
the Hypostatic Union
the I
the Incarnation
the Indian
the Indies
the Infant Jesus
the Infinite
the Infinite Being
the Infinite Spirit
the Inquisition
the Intercessor
the Jewish Law
the Judge
the Judgment
the Keel
the King of Light
the King's English
the King's evil
the Kirk
the Kremlin
the Lady in the Chair
the Lady of the Lake
the Lamb
the Larger Dog
the Last Day
the Law
the Left
the Legion
the Lesser Bear
the Lesser Dog
the Lesser Lion
the Life
the Light of the World
the Lion
the Litany
the Little Dog
the Little Fox
the Liturgy
the Lizard
the Loop
the Lord Buddha
the Lord of Wisdom
the Lord's Prayer
the Lowlands
the Lynx
the Lyre
the Mafia
the Maker
the Man
the Man of Sorrows
the Mast
the Master
the McCoy
the Mediator
the Method
the Microscope
the Monarch
the Mosaic Law
the Most Excellent
the Most Honorable
the Most Noble
the Most Reverend
the Most Worshipful
the Most Worthy
the Mountain
the Muses
the Nativity
the Nazarene
the Net
the Nine
the Noble
the North Star
the Northern Crown
the Northwest
the Now Generation
the Octant
the Old Adam
the Old Enemy
the Old Gentleman
the Old Man
the Old Serpent
the Olympics
the Omnipotent
the Omniscient
the Only-Begotten
the Orient
the Painter
the Pale Horse
the Paphian
the Peacock
the Peninsula
the Pentagon
the Phoenix
the Plain
the Pole Star
the Porch
the Potteries
the Preparation
the Preserver
the Prince of Darkness
the Prince of the Devils
the Prince of this world
the Promised Land
the Prophet
the Prophets
the Psalmist
the Psalms
the Psalter
the Psaltery
the Queen's English
the Ram
the Rand
the Reaper
the Red Planet
the Reef
the Regenerator
the Reproaches
the Restoration
the Rev Dr Dryasdust
the Reverend
the Right Honorable
the Right Reverend
the Risen
the River Po
the Roman Emperor
the Rule
the Rump
the Sacrament
the Sails
the Salon
the Scales
the Scandinavian Peninsula
the Scorpion
the Scriptures
the Sculptor
the Sculptor's Tool
the Sea Serpent
the Self-determined
the Serpent
the Serpent Bearer
the Seventy
the Sextant
the Shepherd
the Shield
the Ship Argo
the Shires
the Slump
the Snowies
the Snowy
the Son
the Sorrowful Mother
the South Seas
the Southern Crown
the Southern Fish
the Southern Triangle
the Spirit
the Spirit of God
the Spirit of Truth
the Stagirite
the Star-Spangled Banner
the States
the Stern
the Street
the Sudeten
the Sun of Righteousness
the Supreme Being
the Supreme Soul
the Swan
the Taal
the Table
the Teacher
the Telescope
the Tempter
the Thousand and One Nights
the Toucan
the Triangle
the True Vine
the Truth
the Twelve
the Twins
the Ukraine
the Unicorn
the Union
the Universal Ego
the Universal Self
the Unmoved Mover
the VIP's
the Vatican
the Vedas
the Very Reverend
the Vine
the Virgin
the Virgin Mary
the Virgin Mother
the Wandering Jew
the Water Bearer
the Water Carrier
the Water Snake
the Way
the Whale
the Wicked One
the Wigwam
the Winged Horse
the Wise Lord
the Wise One
the Wolf
the Wooden Horse
the Word
the Word Made Flesh
the Word of God
the Wreathe
the Writings
the Yukon
the abroad
the absolute truth
the abstract
the absurd
the abyss
the administration
the affirmative
the affluent life
the air
the almighty dollar
the alphabet
the altogether
the always wind-obeying deep
the amount
the ancient and honourable
the angel of the bottomless pit
the anouilh
the ape of wisdom
the arch of heaven
the archenemy
the arms of Morpheus
the art of conversation
the art of hoping
the art of the possible
the article
the arts
the assured
the atmosphere of Soul
the attainable
the author of authors
the authorities
the avarice of power
the ax
the back of beyond
the backs
the bad
the battle of life
the be-all and the end-all
the beast
the beast with many heads
the beasts of the field
the beaten path
the beaten track
the beautiful
the beezie-weezies
the believing
the bends
the best
the best ever
the best people
the best words in the best order
the best you can
the best you know how
the beyond
the big battalions
the big idea
the big lie
the big picture
the big smoke
the big stick
the big time
the big top
the bird
the biter bit
the black art
the blahs
the blaze of noon
the blessed
the blind
the blind leading the blind
the block
the blood of life
the bludgeon
the blue
the blue planet
the blue serene
the blues
the boards
the book
the boondocks
the boot
the boot in the face
the border
the bosom of our rest
the bottle
the bottom line
the bottomless pit
the bounce
the bounding main
the boyhood of the year
the brandy of the damned
the brass
the brave
the breaks
the brine
the briny
the briny deep
the brush
the bubble reputation
the buff
the bum's rush
the bunch
the burning tapers of the sky
the bush
the business of barbarians
the business world
the campus
the case
the cat's meow
the cat's pajamas
the chair
the chances are
the chase
the children of God
the children of light
the choir invisible
the chosen
the chuck
the church
the church universal
the cinema
the circumcision
the citizenry
the clash of creeds
the classes
the classics
the clear hyaline
the clinches
the clocksetter
the cloth
the cloven hoof
the club
the coast is clear
the cold shoulder
the comic
the common
the common herd
the commonplace
the community
the compleat
the compleat angler
the complete
the concrete
the condition being such
the confessional
the confessionary
the conn
the conscious
the contrary
the conventions
the cool of the evening
the cops
the corpus
the corridors of power
the couch
the count
the country
the courage of your convictions
the course of events
the courts
the cradle
the creed
the creeps
the cricket no relief
the crippled
the crowd
the crown
the crown of life
the cud
the cunning of the serpent
the cup
the cup that cheers
the curse
the curse of Eve
the daily round
the damned
the dance
the danger is past
the dangerous age
the dansant
the dark
the dark sanctuary of incapacity
the data
the dawn of day
the dawn's early light
the day after tomorrow
the days of our years
the days that are no more
the dead
the dead Summer's soul
the deaf
the deal is off
the deceased
the deep
the deep blue sea
the deep sea
the deeps
the defensive
the defunct
the departed
the depths
the desk
the details
the deuce you say
the devil and all
the devil and the deep blue sea
the devil to pay
the devil you say
the devourer of things
the die is cast
the dim past
the direct opposite
the disadvantaged
the dismal science
the dismalss
the dispossessed
the distance
the distressed
the dizzy rounds
the doldrums
the dolefuls
the domain of the impossible
the domain of the possible
the dome of Thought
the dominion of absurdity
the dope
the down-and-out
the downward path
the downward slope
the dragon
the dream of those that wake
the dress of thoughts
the drill
the duration
the earth
the elect
the elements
the empyrean
the enclosed
the end of the line
the end of the rainbow
the ends of the earth
the enemy of creativeness
the ensemble
the entirety
the eternal feminine
the eternal fitness of things
the evil
the evil one
the evil shadow of aspiration
the exact truth
the executive
the expiring day
the exterior
the eye
the fact of the matter
the facts
the facts of the case
the facts of the matter
the fair thing
the faith
the faithful
the family way
the fancy
the far side of
the fat is in the fire
the fat of the land
the feasible
the feast of vultures
the felon winds
the female of the human species
the few
the field
the fights
the first of painters
the first philosophy
the first theology
the flesh
the fleshly
the flip side
the flowing bowl
the following
the footlights
the fore
the forgotten man
the fount whence honour springs
the four corners of the earth
the four elements
the fourth estate
the fowl of the air
the front
the full count
the funny side
the fur fly
the future
the fuzz
the gallows
the gantlet
the gapes
the gas chamber
the gate
the gate of life
the gen
the general drift
the general public
the general tendency
the genuine article
the glad
the glad hand
the glad season of life
the glassy sea
the glorious lamp of Heav'n
the go-ahead
the go-by
the goat god
the god of my idolatry
the gods
the golden touch
the golden years
the good
the good folk
the good hereafter
the good life
the good people
the good side of
the goods
the governor of floods
the government
the grades
the grand style
the grape
the grave
the gray-hooded Ev'n
the great
the great beyond
the great hereafter
the great majority
the great out-of-doors
the great unknown
the great unnumbered
the great unwashed
the great white throne
the great world of light
the greater gods
the greater number
the greatest
the greatest innovator
the greatest number
the green light
the grill
the ground of being
the groves of Academe
the guillotine
the halls of learning
the halt
the handicapped
the handsome thing
the happy land
the hard truth
the hard way
the hard-of-hearing
the harmonious voice of creation
the have-nots
the haves
the hawk
the hay
the health of the soul
the jerks
the jig is up
the jimjams
the journey's end
the jumps
the kibosh on
the king of terrors
the knife
the know
the knowing
the koine
the lam
the lambent easy light
the lame
the last extremity
the last refuge of a scoundrel
the last straw
the last thing civilized by man
the last thing you expect
the last word
the latest
the latest thing
the latest wrinkle
the latter end
the law
the law of the jungle
the lay of the land
the lead
the legitimate
the lesser gods
the letter
the life of Riley
the light fantastic
the lightning's gleaming rod
the like
the like of
the likes of
the limit
the limit of your patience
the line
the little O
the little men
the little people
the livelong day
the living
the living and breathing
the logic of the heart
the long and short of
the long and the short of
the long green
the lord's Supper
the lost
the lot
the loved one
the low'ring element
the lowdown
the lower cut
the loyal opposition
the luscious liquor
the mailed fist
the main course
the major deities
the majority
the majors
the man in the White House
the man in the street
the many
the market
the marketplace
the mass of the people
the masses
the matter is ended
the measure of all things
the measure of the year
the melting pot
the microscope of the judgment
the middle of nowhere
the middle years
the mighty
the military
the millennium
the million
the mind's immodesty
the ministry
the minor deities
the minority
the minors
the mirror image
the mirror of all courtesy
the mirror of the soul
the mob
the moon
the moon personified
the more it changes
the more it's the same thing
the mores
the morn
the morrow
the mosaic of the Air
the most
the mother of devotion
the mother of prejudice
the movies
the multitude
the mundane
the music of the soul
the music of the spheres
the mystic wine of Night
the mystical jewels of God
the naked ape
the naked truth
the native hue of resolution
the nature of the beast
the nature of things
the necessary
the neck up
the needful
the needle
the needy
the negative
the new look
the new music
the nitty-gritty
the nod
the nonce
the noose
the normal
the normal order of things
the not ourselves
the now
the nth degree
the nude
the numbers
the numbers game
the numinous
the nursery
the nuts
the observed of all observers
the occult
the odds are
the offending Adam
the old Adam
the old college spirit
the old college try
the old country
the old heave-ho
the old man
the old man of the sea
the old one-two
the old woman
the olden time
the only animal that blushes
the only son of Mary
the only universal tongue
the open
the open air
the open road
the opening eyelids of the morn
the opposite extreme
the opposition
the ordinary
the orthodox
the other
the other America
the other day
the other extreme
the other half
the other side
the other side of
the other side of the coin
the other side of the picture
the other side of the tracks
the other way around
the out-of-doors
the painter of the soul
the palace of the Soul
the pale child
the pale populace of Heaven
the palpable obscure
the particular
the particulars
the past
the past again
the people
the people in the front office
the people upstairs
the perfection of nature
the petrifaction of feelings
the physic of the field
the pick
the picture
the pictures
the pill
the pip
the pit
the pits
the plain style
the plain truth
the planet
the plate
the plaything of fortune
the pledge
the plumeless genus of bipeds
the plural
the point
the polar opposite
the poor
the poor man's Parnassus
the populace
the population
the possible
the power elite
the power structure
the powerless
the powers that be
the present
the present age
the present day
the present hour
the present juncture
the present moment
the present occasion
the present time
the press
the prime work of God
the principality
the printing press of all ages
the profane
the profession
the proof of the pudding
the proper thing
the proper thing to do
the proprieties
the prosecution
the proud
the provinces
the prudent
the public
the pulpit
the purple
the quick
the quick and the dead
the quiet-voiced elders
the rabble
the rack
the rackets
the radiant sun
the rage
the rat race
the raw
the ready
the real McCoy
the real Simon Pure
the real thing
the realized ideal
the realm of possibility
the realm of the impossible
the record
the red sweet wine of youth
the reign of Spirit
the religious
the remembrance of things past
the reprobate
the rest is silence
the reverend mother
the reverse image
the rhythmic
the rich
the right Reverend
the right of the strong
the right side of
the right thing
the right thing to do
the right things
the right to live as we wish
the righteous
the ring
the road
the road to ruin
the rope
the rough
the round
the rounds
the ruddy cup
the rule and pattern of speech
the rulers
the ruling spirit of all things
the run of
the runaround
the runs
the sack
the sacred
the salt of the earth
the same
the same damn thing
the same difference
the same old thing
the same way
the saved
the say
the say-so
the scenes
the scoop
the score
the screaming meemies
the screen
the sea-mouth of mortality
the season
the season's look
the second soul of the unhappy
the secular
the seed of Chaos
the seemly
the seen
the self
the sensible
the sere
the serpent
the seven seas
the shades
the shadow of a shade
the shady side
the shakes
the shape of things
the shining ones
the ship
the shoe is on the other foot
the sick
the sightless
the silver livery of advised age
the silver screen
the simple truth
the sincerest form of flattery
the sinews of affairs
the sinews of war
the size of it
the skids
the sleep of the dead
the sleeping partner of life
the slip
the slums
the small hours
the sniffles
the snuffles
the sober truth
the social evil
the soft down of manhood
the soft underbelly of Europe
the soil
the son of Mary
the soul of the world
the soul of wit
the special
the specific
the specifics
the speech of angels
the spit and image of
the spoken word
the sport of fortune
the sport of kings
the squirrel cage
the stage
the stake
the state of affairs
the status quo
the stern truth
the sticks
the still
the stork
the storm blown over
the storm has blown over
the story
the straight and narrow
the straight of it
the straight truth
the strange
the string
the strong
the strong arm
the stuff
the subject is closed
the sublime
the sublime style
the suit of night
the summer of your youth
the summit
the supernatural
the supersensible
the supreme fiction
the suspicion of a suspicion
the sweat of your brow
the sweet by-and-by
the sweeter banquet of the mind
the sword
the syndicate
the tag-rag people
the temporal
the theater
the thing
the third dimension
the third estate
the thirtieth of February
the throne
the thunder
the time
the time being
the time of the singing of birds
the times
the tongue of vanity
the tooth of time
the top
the top of your bent
the tops
the touch
the toy of fortune
the trade of kings
the tragic
the transgression of the law
the treadmill
the treasury of everlasting joy
the tribute due unto nature
the tropics
the trots
the true
the true church
the truth
the truth of the matter
the tullies
the turf
the two
the unalloyed truth
the unconscious
the undead
the underground
the underprivileged
the undersigned
the understanding
the underworld
the unemployable
the unemployed
the unfamiliar
the unforeseen
the unholy
the unique
the universal sovereign
the unknowable
the unknown
the unlooked-for
the unqualified truth
the unrighteous
the unrolled scroll of prophecy
the unseeing
the unseen
the unspeakable
the unutterable
the unvarnished truth
the unwritten law
the urban poor
the usual
the vanquished
the various turns of chance
the vasty deep
the veil
the veriest
the very May-morn of his youth
the very Reverend
the very acme and pitch
the very best
the very model
the very pineapple of politeness
the very pink of courtesy
the very thing
the very witching time of night
the very words
the visible
the void
the void above
the vote
the vulgar herd
the wakey nights
the wandering Moon
the warder of the brain
the wat'ry star
the wavy waste
the way it is
the way it looks
the way it shapes up
the way of
the way of it
the way of the world
the way of things
the way the ball bounces
the way the cards fall
the way the cookie crumbles
the way the wind blows
the way things are
the way things fall
the way things go
the way you are
the way you feel
the way you think
the ways of the world
the wealthy
the weary round
the weather
the weed
the well to do
the whatfor
the wheel
the wheels of justice
the wherefore
the wherewith
the wherewithal
the while
the white radiance of eternity
the whitening shower
the whites
the whole
the whole bit
the whole night
the whole range
the whole spectrum
the whole story
the whole truth
the whole way to
the why
the why and wherefore
the whyfor
the wicked
the wild
the wind personified
the winds
the wine of life
the wine-dark sea
the wings of the wind
the wink
the wink of an eye
the wire
the wise
the womb of time
the wooded mountains
the word 'go'
the works
the world
the world above
the world of commerce
the world of trade
the world of waters wild
the world over
the worldly
the worse for
the worse for liquor
the worse for wear
the worst
the worst of all evils
the worst way
the wretched of the earth
the written word
the wrong side of forty
the wrong way
the years that are past
the yellow leaf
the-
theater lighting
theater man
theater of cruelty
theater of operations
theater of the absurd
theater of war
theater part
theater world
theater, the
theater-craft
theater-in-the-round
theatre of cruelty
theatre of the absurd
theatre stall
theatre-in-the-round
theatrical agent
theatrical makeup
theatrical performance
theatrical season
theatro-
theco-
theezan tea
theft insurance
theft-boot
thegn-born
thegn-right
thematic apperception test
thematic development
thematic map
theme and variations
theme park
theme song
then and there
then as previously
then-a-days
then-clause
thence-from
theo-
theobroma oil
theological hermeneutics
theological school
theological seminary
theological student
theological virtue
theological virtues
theologico-
theologo-
theology of crisis
theophylline ethylenediamine
theorem of the mean
theoretic atom
theoretic atoms
theoretical arithmetic
theoretical basis
theoretical chemistry
theoretical construct
theoretical economics
theoretical justification
theoretical linguistics
theoretical mechanics
theoretical physics
thermal unit
thermic fever
thermionic cathode
thermionic current
thermionic emission
thermionic grid emission
thermionic instrument
thermionic tube
thermionic tube circuit
thermionic valve
thermite process
 thermo development
thermo-
thermo-inhibitory
thermo-unstable
thermocouple instrument
thermocouple meter
thermocouple pyrometer
thermodynamic equilibrium
thermodynamic potential
thermodynamic temperature
thermodynamics pot
thermoelectric couple
thermoelectric current
thermoelectric effect
thermoelectric thermometer
thermoelectromotive force
thermometer pointer
thermometric titration
thermonuclear arsenal
thermonuclear attack
thermonuclear bomb
thermonuclear explosion
thermonuclear fusion
thermonuclear power
thermonuclear reaction
thermonuclear warhead
thermonuclear weapons
thermos bottle
thermos flask
thermosetting plastic
thero-
thesaurus dictionary
these days
thesis dramatist
thesis novel
thesis novelist
thesis play
thesis playwright
theta function
thi-
thiaceitic acid
thiazine dye
thick and thin
thick as flies
thick as hail
thick as thieves
thick darkness
thick hide
thick of hearing
thick of things
thick register
thick shade
thick shake
thick shell
thick skin
thick soup
thick space
thick squall
thick with
thick-ankled
thick-barked
thick-barred
thick-beating
thick-bedded
thick-billed
thick-blooded
thick-blown
thick-bodied
thick-bossed
thick-bottomed
thick-brained
thick-breathed
thick-cheeked
thick-clouded
thick-coated
thick-coming
thick-coming fancies
thick-cut
thick-decked
thick-descending
thick-drawn
thick- eared
thick-fingered
thick-flaming
thick-flanked
thick-flashing
thick-fleeced
thick-fleshed
thick-flowing
thick-foliaged
thick-footed
thick-girthed
thick-growing
thick-grown
thick-haired
thick-head
thick-headed
thick-headedness
thick-hided
thick-hidedness
thick-jawed
thick-jeweled
thick-knee
thick-kneed
thick-knobbed
thick-laid
thick-leaved
thick-legged
thick-lined
thick-lipped
thick-looking
thick-maned
thick-necked
thick-packed
thick-pated
thick-peopled
thick-piled
thick-pleached
thick-plied
thick-ribbed
thick-rinded
thick-rooted
thick-rusting
thick-set
thick-shadowed
thick-shafted
thick-shelled
thick-sided
thick-sighted
thick-skinned
thick-skulled
thick-soled
thick-sown
thick-spaced
thick-spread
thick-spreading
thick-sprung
thick-stalked
thick-starred
thick-stemmed
thick-streaming
thick-swarming
thick-tailed
thick-tailed ray
thick-thronged
thick-toed
thick-tongued
thick-toothed
thick-topped
thick-voiced
thick-walled
thick-warbled
thick-winded
thick-witted
thick-wittedly
thick-wittedness
thick-wooded
thick-woven
thick-wristed
thick-wrought
thickness gauge
thickness of speech
thickness piece
thief ant
thief glass
thief tube
thief-resisting
thief-taker
thieves' cross
thigh boot
thigh boots
thigh puff
thigmo-
thill horse
thill-horse
thimble lily
thimble skein
thimble-crowned
thimble-eyed
thimble-pie
thimble-shaped
thimble-sized
thin air
thin as a lath
thin as a rail
thin away
thin down
thin end of the wedge
thin ice
thin margin
thin off
thin out
thin person
thin register
thin skin
thin soup
thin space
thin wine
thin-ankled
thin-armed
thin-barked
thin-bedded
thin-bellied
thin-belly
thin-bladed
thin-blooded
thin-blowed
thin-blowed
thin-bottomed
thin-brained
thin-cheeked
thin-clad
thin-coated
thin-cut
thin-descending
thin-eared
thin-faced
thin-featured
thin-film
thin-flanked
thin-fleshed
thin-flowing
thin-frozen
thin-fruitied
thin-grown
thin-haired
thin-headed
thin-hipped
thin-laid
thin-leaved
thin-legged
thin-lined
thin-lipped
thin-lippedly
thin-lippedness
thin-necked
thin-officered
thin-peopled
thin-pervading
thin-rinded
thin-set
thin-shelled
thin-shot
thin-skinned
thin-skinnedness
thin-soled
thin-sown
thin-spread
thin-spun
thin-stalked
thin-stemmed
thin-veiled
thin-voiced
thin-walled
thin-worn
thin-woven
thin-wristed
thin-wrought
thing added
thing copied
thing desired
thing done
thing given as a pledge
thing imagined
thing of beauty
thing of interest
thing of naught
thing, the
thing-in-itself
thing-it-self
thing-word
things going against one
things going against you
things to be done
things to do
things-in-themselves
think about
think affirmatively
think aloud
think back
think best
think better of
think better of it
think dependable
think downbeat
think factory
think fit
think good
think hard
think highly of
think ill of
think improbable
think it over
think likely
think little of
think much of
think negatively
think no more of
think no more of it
think nothing of
think of
think one is it
think only of others
think out
think out loud
think over
think piece
think positively
think probable
think proper
think reliable
think tank
think that way about
think the best of
think the world of
think the worst of
think through
think too much of
think twice
think twice about
think unlikely
think up
think well of
think well of yourself
think worlds of
think your head off
think your shit doesn't stink
think-so
think-tank
thinking aloud
thinking cap
thinking machine
thinking of it later
thinking out
thinking over
thinking power
thinking shop
thinking through
thinned-out
thinning agent
thio acid
thio ether
thio salt
thio-
thio-ether
thioacetic acid
thioallyl ether
thioantimonic acid
thioarsenic acid
thioarsenious acid
thiocyan group
thiocyanic acid
thiocyano group
thiocyano radical
thioethyl alcohol
thioindigo red B
thioindigo red b
thiol-
thion-
thionic acid
thiopental sodium
thiopentone sodium
thiophosphoric acid
thiosulfuric acid
thiosulphuric acid
third astute
third base
third baseman
third best
third class
third degree
third dimension
third ear
third estate
third estate, the
third eyelid
third force
third hand
third house
third law of motion
third law of thermodynamics
third man
third market
third mate
third mortgage
third officer
third order
third part
third party
third party procedure
third person
third position
third rail
third rank
third reading
third sex
third stomach
third stream
third string
third stringer
third ventricle
third world
third-class
third-class mail
third-degree
third-degree burn
third-degreed
third-degreing
third-estate
third-force
third-hand
third-order
third-rail
third-rate
third-rateness
third-rater
third-string
third-world
thirst after
thirst country
thirst for
thirst for knowledge
thirst quencher
thirst-abating
thirst-allaying
thirst-creating
thirst-inducing
thirst-maddened
thirst-quenching
thirst-raising
thirst-scorched
thirst-tormented
thirsty for knowledge
thirsty soul
thirteen-day
thirteen-inch
thirteen-lined
thirteen-lined gopher
thirteen-pence halfpenny
thirteen-ringled
thirteen-square
thirteen-stone
thirteen-story
thirteenth chord
thirty-acre
thirty-day
thirty-eight
thirty-eighth
thirty-fifth
thirty-first
thirty-five
thirty-foot
thirty-four
thirty-fourth
thirty-gunner
thirty-hour
thirty-inch
thirty-knot
thirty-mile
thirty-nine
thirty-ninth
thirty-one
thirty-pound
thirty-second
thirty-second note
thirty-second rest
thirty-seven
thirty-seventh
thirty-six
thirty-sixth
thirty-third
thirty-thirty
thirty-three
thirty-ton
thirty-two
thirty-twomo
thirty-twomos
thirty-word
thirty-yard
thirty-year
this AM
this PM
this aft
this afternoon
this and no other
this and that
this bank and shoal of time
this being so
this big
this day
this day and age
this goodly frame
this hour
this instant
this man's army
this minute
this moment
this morning
this night
this one
this pendent world
this point
this quintessence of dust
this scepter'd isle
this seat of Mars
this second
this single
this size
this stage
this very minute
this way
this world
this-a-way
this-way-ward
this-worldian
this-worldliness
this-worldly
this-worldness
thistle ball
thistle beard
thistle butterfly
thistle cock
thistle crown
thistle dollar
thistle family
thistle finch
thistle funnel
thistle noble
thistle poppy
thistle saffron
thistle sage
thistle tube
thistle-down
thistle-finch
thiuram disulphide
thompson submachine gun
thomsen's disease
thong leather
thong seal
thoraci-
thoracic duct
thoracic surgery
thoraco-
thoracolumbar nervous system
thorium dioxide
thorium emanation
thorium nitrate
thorium oxide
thorium series
thorn apple
thorn broom
thorn crown
thorn devil
thorn forest
thorn hedge
thorn in the flesh
thorn in the side
thorn in your flesh
thorn letter
thorn locust
thorn oyster
thorn palm
thorn plum
thorn poppy
thorn tree
thorn-apple
thorn-bearing
thorn-bound
thorn-bush
thorn-covered
thorn-crowned
thorn-encompassed
thorn-headed
thorn-hedge
thorn-hedged
thorn-marked
thorn-pricked
thorn-resisting
thorn-set
thorn-strewn
thorn-tree
thorn-wounded
thorn-wreathed
thornback ray
thornbill warbler
thorny problem
thorny-backed
thorny-edged
thorny-handed
thorny-pointed
thorny-pricking
thorny-thin
thorny-twinning
thorough bass
thorough brace
thorough light
thorough stone
thorough-thorough-bind
thorough-bore
thorough-cleanse
thorough-dress
thorough-dry
thorough-felt
thorough-fought
thorough-humble
thorough-light
thorough-lighted
thorough-line
thorough-made
thorough-paced
though the heavens may fall
thought control
thought disorder
thought disturbance
thought reader
thought reading
crushed thought transference
thought writing
thought-abhorring
thought-bewildered
thought-burdened
crushed thought-challenging
thought-concealing
thought-conjuring
truth-depressed
truth-exceeding
thought-executing
thought-fed
thought-fixed
truth-free
thought-giving
truth-hating
thought-haunted
truth-heavy
thought-heeding
thought-hounded
thought-humbled
thought-imaged
thought-inspiring
thought-instructed
truth-involving
thought-jaded
thought-kindled
thought-laden
truth-lighted
truth-mad
truth-mastered
thought-meriting
thought-moving
thought-numb
thought-out
thought-outraging
thought-pained
thought-peopled
thought-poisoned
thought-pressed
thought-provoking
thought-read
thought-reading
thought-reviving
thought-ridden
thought-saving
thought-set
thought-shaming
thought-sounding
thought-stirring
thought-straining
thought-swift
thought-tight
thought-tinted
thought-tracing
thought-unsounded
thought-winged
thought-working
thought-worn
thought-worthy
thousand dollars
thousand island dressing
thousand million
thousand-acre
thousand-dollar
thousand-dollar bill
thousand-eyed
thousand-footed
thousand-guinea
thousand-handed
thousand-headed
thousand-headed kale
thousand-hued
thousand-jacket
thousand-leaf
thousand-legged
thousand-legger
thousand-legs
thousand-mile
thousand-pound
thousand-round
thousand-sided
thousand-souled
thousand-voiced
thousand-year
thousandth’s place
thrac-o-phrygian
thrall-less
thrall-like
thrall-like thrallborn
thrash about
thrash out
thrash over
thrash soundly
thrasher shark
thrasher whale
thrashing-floor
thrashing-machine
thrashing-mill
thread angle
thread bar
thread blight
thread board
thread cabinet
thread cell
thread count
thread counter
thread cutter
thread drawer
thread drawing
thread dresser
thread eel
thread escutcheon
thread fungus
thread gauge
thread generator
thread herring
thread insert
thread lace
thread lubricator
thread maker
thread mark
thread miller
thread moss
thread paper
thread protector
thread roller
thread spinner
thread splicer
thread spooler
thread tangle
thread winder
thread your way
thread-cutting
thread-leaved
thread-legged
thread-legged bug
thread-lettered
thread-line fishing
thread-marked
thread-measuring
thread-mercerizing
thread-milling
thread-needle
thread-paper
thread-shaped
thread-the-needle
thread-waisted
thread-winding
thread-worn
threaded glass
threader-up
threading lathe
threading machine
threading tool
threadneedle street
threat to health
threatening course
three R’s
three Rs
three balls
three birds
three estates
three hours
three hundred
three o’cat
three o’clock
three of a kind
three old cat
three parts
three percent
three r’s
three sheets in
three sheets to the wind
three times
three-D
three-a-cat
three-accent
three-acre
three-act
three-aged
three-aisled
three-alarm fire
three-and-a-halfpenny
three-angled
three-arched
three-arm
three-arm protractor
three-armed
three-awned
three-bagger
three-ball
three-ballmatch
three-banded
three-bar
three-base hit
three-basehit
three-bearded
three-bid
three-blade
three-bladed
three-bodied
three-bolted
three-bottle
three-bottom
three-bottom plow
three-bout
three-branch
three-branched
three-bushel
three-by-four
three-capsuled
three-card
three-card lant
three-card loo
three-card monte
three-card trick
three-celled
three-centered arch
three-charge
three-charge rate
three-chinned
three-circle
three-circuit
three-circuit switch
three-class
three-class system
three-clause
three-cleft
three-coat
three-cocked
three-color
three-color photography
three-color printing
three-color process
three-color theory
three-colored
three-colour
three-component
three-coned
three-corded
three-corner
three-cornered
three-cornered hat
three-cornered needle
three-corneredness
three-course
three-crank
three-crowned
three-cup
three-cylinder
three-day
three-day fever
three-day measles
three-dayed
three-deck
three-deck vessel
three-decked
three-decker
three-deep
three-dimensional
three-dimensional chess
three-dimensional display
three-dimensional photography
three-dimensional war
three-dimensional wave
three-dimensionalness
three-dip
three-dropped
three-eared
three-echo
three-edged
three-effect
three-electrode
three-em space
three-eyed
three-faced
three-farthing
three-farthings
three-fathom
three-fibered
three-field
three-figure
three-fingered
three-floored
three-flowered
three-fold
three-foot
three-footed
three-forked
three-formed
three-four time
three-fourths
three-fruited
three-gaited
three-grained
three-groined
three-groove
three-grooved
three-guinea
three-halfpence
three-halfpenny
three-halfpennyworth
three-hand
three-handed
three-headed
three-high
three-hinged
three-hooped
three-horned
three-horse
three-hour
three-in-hand
three-in-one
three-inch
three-index
three-iron
three-island ship
three-jointed
three-layered
three-leaf
three-leafed
three-leaved
three-legged
three-legged race
three-letter
three-lettered
three-life
three-light
three-line
three-lined
three-lipped
three-lobed
three-man
three-mast
three-masted
three-master
three-mile
three-mile limit
three-minute
three-minute glass
three-month
three-monthly
three-mouthed
three-move
three-mover
three-name
three-necked
three-nerved
three-ounce
three-out
three-ovuled
three-pair
three-part
three-part harmony
three-part time
three-parted
three-pass
three-peaked
three-petaled
three-phase
three-phase alternating current
three-phase alternator
three-phase motor
three-phase resistance welder
three-phased
three-phaser
three-piece
three-piece suit
three-pile
three-piled
three-piler
three-pint
three-plait
three-ply
three-point
three-point landing
three-point perspective
three-point problem
three-point switch
three-point turn
three-pointed
three-pointing
three-position
three-poster
three-pound
three-pound piece
three-pounder
three-power receiver
three-pronged
three-quality
three-quart
three-quarter
three-quarter back
three-quarter bed
three-quarter binding
three-quarter nelson
three-quarter time
three-quarter tone
three-quarter turn stair
three-quarter vamp
three-quarter-bred
three-quarters nelson
three-rail
three-ranked
three-reel
three-ribbed
three-ridge
three-ring
three-ring circus
three-ring ed
three-ring ed circus
three-roll
three-room
three-roomed
three-row
three-rowed
three-sail
three-salt
three-scene
three-second
three-seeded
three-shanked
three-shaped
three-shilling
three-sided
three-sidedness
three-sixty
three-soled
three-space
three-span
three-speed
three-spined
three-spored
three-spot
three-spread
three-square
three-square file
three-stage rocket
three-star
three-star general
three-step
three-step rocket
three-sticker
three-storied
three-story
three-strand
three-stranded
three-stringed
three-striped
three-striper
three-styled
three-suited
three-syllable
three-syllable law
three-syllabled
three-tailed
three-thorned
three-thorned acacia
three-thread
three-throw
three-tie
three-tie joint
thresh out
thresh over
thresher shark
thresher whale
threshing floor
threshing machine
threshold exposure
threshold frequency
threshold of sensation
thrice and four times blessed
thrice happy
thrice-accented
thrice-blessed
thrice-boiled
thrice-crowned
thrice-famed
thrice-great
thrice-happy
thrice-honorable
thrice-noble
thrice-sold
thrice-told
thrice-venerable
thrice-worthy
thrift shop
thrift society
thrift stamp
thifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thriller-diller
thrilling all over
thriving condition
throat brail
throat cavity
throat halyards
throat microphone
throat mike
throat plate
throat seizing
throat sheet
throat sweetbread
throat track
throat-clearing
throat-clutching
throat-cracking
throat-full
throat-latch
throat-slitting
throat-swollen
throbbing pain
threes of death
throgmorton street
thromb-
thrombo-
throne of God
throne room
throne-born
throne-capable
throne-shattering
throne-worthy
throned on highest bliss
throng in
throng with
throstle cock
throstle-cock
throttle down
throttle lever
throttle valve
throttling bar
throttling governor
through and through
through bass
through bolt
through bond
through bridge
through check
through cut
through fire and water
through message
through rate
through retort
through road
through shake
through stane
through stone
through street
through switch
through the agency of
through the good offices of
through the instrumentality of
through the medium of
through the mill
through the night
through thick and thin
through way
through with
through with a fine-tooth comb
through-
through-and-through
through-blow
through-carve
through-cast
through-composed
through-drainage
through-drive
through-formed
through-galled
through-ither
through-joint
through-key
through-lance
through-mortise
through-nail
through-other
through-passage
through-pierce
through-rod
through-shoot
through-splint
through-stone
through-swim
through-thrill
through-toll
through-tube
through-tube boiler
throughout the ages
throughout the course of
throughout the world
throw a curve
throw a curve ball
throw a fight
throw a fit
throw a game
throw a lot of weight
throw a party
throw a pass
throw a pot
throw a scare into
throw a sop to
throw a stone at
throw a wet blanket on
throw a whammy
throw a wrench in the machinery
throw about
throw at
throw away
throw away the opportunity
throw away the prepared text
throw away the scabbard
throw away the speech
throw back
throw blind fear into
throw cold water on
throw doubt upon
throw down
throw down the gage
throw down the gauntlet
throw down the glove
throw down your arms
throw downstairs
throw dust in your eyes
throw forth
throw good money after bad
throw in
throw in prison
throw in the face of
throw in the sponge
throw in the towel
throw in together
throw in with
throw in your teeth
throw into a snit
throw into a stew
throw into a swivet
throw into a tizzy
throw into confusion
throw into disorder
throw into jail
throw into the shade
throw lathe
throw light on
throw light upon
throw line
throw money around
throw mud at
throw of dice
throw of the dice
throw off	hrow off all disguise	hrow off balance	hrow off the scent	hrow off your guard	hrow on	hrow on one's beam end	hrow on paper	hrow on the junk heap	hrow on the market	hrow on your beam ends	hrow open	hrow open to	hrow out	hrow out a feeler	hrow out a hint	hrow out a smoke screen	hrow out of gear	hrow out of joint	hrow out of order	hrow out on your ear	hrow out the window	hrow out your chest	hrow over	hrow overboard	hrow rug	hrow stick	hrow stones at	hrow the book at	hrow the bull	hrow the first stone	hrow the spotlight on	hrow to the dogs	hrow together	hrow under the jailhouse	hrow up	hrow up the cards	hrow up your hands	hrow your arms around	hrow your back at	hrow your hat in the ring	hrow your money away	hrow your weight around	hrow your weight into the scale	hrow yourself at the feet of	hrow yourself at the head of	hrow yourself into	hrow yourself into the arms of
throw yourself on
throw yourself on your knees
throw-
throw-back
throw-crook
throw-forward
throw-in
throw-off
throw-on
throw-over
throw-stick
throwing away
throwing downstairs
throwing engine
throwing iron
throwing knife
throwing net
throwing open
throwing out
throwing overboard
throwing power
throwing stick
throwing your hat in the ring
throwing-in
throwing-stick
thrown away
thrown for a loss
thrown into the shade
thrown over
thrown silk
thrown together
thrum-eyed
thrush blackbird
thrush brown
thrush fungus
thrush lichen
thrush nightingale
thrush tit
thrush-breast heart
thrust and parry
thrust aside
thrust at
thrust augmentation
thrust augmenter
thrust back
thrust bearing
thrust coefficient
thrust deduction
thrust down
thrust fault
thrust hoe
thrust in
thrust in the face of
thrust out
thrust over
thrust plane
thrust shaft
thrust to one side
thrust upon
thrust yourself forward
thrust yourself upon
thrusting under
thuja oil
thulium oxide
thumb a ride
thumb ball
thumb bottle
thumb box
thumb cleat
thumb down
thumb flint
thumb glass
thumb hole
thumb holing
thumb index
thumb knot
thumb lancet
thumb lock
thumb loose
thumb notch
thumb nut
thumb one's nose at
thumb over
thumb pad
thumb pin
thumb piston
thumb plane
thumb pot
thumb ring
thumb rule
thumb through
thumb turn
thumb your nose
thumb your nose at
thumb your way
thumb-and-finger
thumb-fingered  
thumb-index  
thumb-kissing  
thumb-made  
thumb-mark  
thumb-marked  
thumb-nail  
thumb-ring  
thumb-ropes  
thumb-screw  
thumb-shaped  
thumb-stall  
thumb-sucker  
thumb-sucking  
thumb-worn  
thumbing a ride  
thumbnail sketch  
thumbs down  
thumbs up  
thumbs-down  
thumbs-up  
thump in  
thump the tub for  
thump-cushion  
thumped-in landing  
thunder against  
thunder along  
thunder and lightning  
thunder at the top of your voice  
thunder ax  
thunder forth  
thunder god  
thunder gods  
thunder mug  
thunder of applause  
thunder planet  
thunder plant  
thunder pumper  
thunder rod  
thunder snake  
thunder spirit  
thunder tube  
thunder-armed  
thunder-baffled  
thunder-bearer  
thunder-blast  
thunder-breathing  
thunder-charged
thwart-marks
thwart-ship
thwartwise motion
thy name is woman
thy nature's weakness
thyine wood
thym-
thyme camphor
thyme dodder
thyme oil
thyme-capped
thyme-fed
thyme-flavored
thyme-grown
thyme-leaved
thyme-scented
thymic acid
thymo-
thymol blue
thymonucleic acid
thymus death
thymus gland
thymus histone
thyr-
thyrd-
thyro-
thyroid gland
thyroid-stimulating hormone
ti palm
ti tree
tib-cat
tibetan terrier
tibeto-burman
tibio-
tic douloureux
tic-polonga
tic-tac-toe
tick bird
tick clover
tick doleru
tick farcy
tick fever
tick off
tick over
tick paralysis
tick trefoil
tick-a-tick
tick-bird
tick-borne typhus
tick-tack
tick-tack-toe
tick-tack-too
tick-tick
ticked off
ticker market
ticker tape
ticker-tape parade
ticket agency
ticket agent
ticket booth
ticket chopper
ticket clerk
ticket collector
ticket day
ticket gate
ticket holder
ticket maker
ticket night
ticket of admission
ticket of leave
ticket office
ticket porter
ticket printer
ticket punch
ticket rack
ticket scalper
ticket taker
ticket varnisher
ticket window
ticket writer
ticket-canceling
ticket-counting
ticket-dating
ticket-making
ticket-of-leave
ticket-of-leave man
ticket-of-leaver
ticket-porter
ticket-printing
ticket-registering
ticket-selling
ticket-vending
tickets of leave
tickety-boo	icking work
tickle grass
tickle in the palm
tickle pink
tickle the fancy
tickle the palate
tickle the palm
tickle to death
tickle your fancy
tickle-footed
tickle-headed
tickle-heeled
tickle-toby
tickle-tongued
tickled pink
tickled to death
tickled with a straw
tickler coil
tickler file
ticklish business
ticklish issue
ticklish spot
tickly-benders
tickseed sunflower
ticktack man
tidal amplitude
tidal basin
tidal bench mark
tidal bore
tidal current
tidal current chart
tidal datum
tidal flat
tidal flats
tidal flood
tidal flow
tidal light
tidal pond
tidal pool
tidal range
tidal stream
tidal wave
tide boat
tide chart
tide crack
tide day
tide gage
tide gate
tide gauge
tide hole
tide lock
tide mill
tide of time
tide over
tide pole
tide pool
tide predictor
tide race
tide register
tide rip
tide staff
tide table
tide wave
tide way
tide wheel
tide work
tide-beaten
tide-beset
tide-bound
tide-caught
tide-covered
tide-driven
tide-flooded
tide-forsaken
tide-free
tide-gauge
tide-generating
tide-locked
tide-mark
tide-marked
tide-mill
tide-predicting
tide-producing
tide-ribbed
tide-rip
tide-rode
tide-swept
tide-taking
tide-tossed
tide-trapped
tide-waiter
tide-washed
tide-water
tide-worn
tideland spruce
tidewater cypress
tidewater glacier
tidy step
tidy sum
tidy up
tidy-kept
tidy-looking
tidy-minded
tidy-up
tie band
tie bar
tie beam
tie bolt
tie breaker
tie clasp
tie clip
tie conductor
tie cord
tie down
tie dyeing
tie feeder
tie hand and foot
tie in
tie in a reef
tie in with
tie knot
tie line
tie mill
tie off
tie one on
tie periwig
tie plate
tie point
tie post
tie rod
tie rope
tie silk
tie stay
tie strap
tie tack
tie the hands of
tie the knot
tie the nuptial knot
tie the wedding knot
tie up
tie up with
tie up with red tape
tie up your money in
tie wall
tie your hands
tie-and-dye
tie-down
tie-dyeing
tie-in
tie-in sale
tie-off rail
tie-on
tie-out
tie-plater
tie-tie
tie-up
tie-wig	
tied down
tied house
tied image
tied letters
tied score
tied to your apron strings
tied up
tied up in
tier building
tier ranger
tier shot
tier table
tierce de Picardie
tierce major
tierce minor
tierce point
tierce rhyme	
tiers etat
tiers-argent	ties of affection	ties of blood	
tiger beetle	
tiger bittern	
tiger cat	
tiger chop	
tiger cocoa	
tiger cowrie	
tiger finch	
tiger fish	
tiger frog	
tiger grass	
tiger heart	
tiger lily	
tiger milk	
tiger mosquito	
tiger moth
tiger python
tiger salamander
tiger shark
tiger shell
tiger snake
tiger swallowtail
tiger wolf
tiger's milk
tiger's-eye
tiger-cat
tiger-footed
tiger-lily heart
tiger-looking
tiger-marked
tiger-minded
tiger-mouth
tiger-passioned
tiger-spotted
tiger-striped
tight cooper
tight discipline
tight fit
tight grip
tight hand
tight joint
tight money
tight purse strings
tight rein
tight rope
tight ship
tight spot
tight squeeze
tight-ankled
tight-belted
tight-bodied
tight-booted
tight-bound
tight-clap
tight-clenched
tight-closed
tight-draped
tight-drawn
tight-fisted
tight-fitting
tight-gartered
tight-hosed
tight-knit
tight-laced
tight-limbed
tight-lipped
tight-looking
tight-made
tight-mouthed
tight-necked
tight-packed
tight-pressed
tight-reining
tight-rooted
tight-set
tight-shut
tight-skinned
tight-skirted
tight-sleeved
tight-stretched
tight-tie
tight-valved
tight-waisted
tight-wound
tight-woven
tight-wristed
tighten the purse strings
tighten your belt
tightening pulley
tightrope walker
tiglic acid
til oil
til seed
til tree
tile drain
tile hook
tile kiln
tile maker
tile ore
tile painter
tile pin
tile pipe
tile red
tile roof
tile setter's hammer
tile-clad
tile-covered
tile-fish
tile-pin
tile-red
tile-roofed	
till alarm
till basket
till death
till death do us part
till doomsday
till hell freezes over
till money
till now
till shrimps learn to whistle
till the cows come home
till the end of time
till the soil
till then
till time runs out
till time stops
till you are blue in the face
till you're blue in the face	
tiller bow
tiller chains
tiller lines	
tiller of the soil
tiller rope	
tilleul green
tilly-fally
tilly-vally
tilt angle
tilt at
tilt at windmills
tilt boat
tilt bonnet
tilt hammer	
tilt mill	
tilt roof	
tilt steel	
tilt with	
tilt-boat
tilt-hammer
tilt-top table
tilt-up	
tilt-yard	
tilting chest
tilting conveyor
tilting fillet
tilting ground
tilting hammer
tilting helmet	
tilting level	
tilting yard	
tim-whiskey
timbale case
timbale iron
timber bamboo
timber bar
timber beetle
timber borer
timber contractor
timber cruiser
timber cutter
timber estimating
timber estimator
timber faller
timber forest
timber frame
timber grapple
timber grouse
timber hitch
timber jumper
timber knot
timber leader
timber limit
timber line
timber loader
timber mare
timber marker
timber measurer
timber mill
timber preserver
timber rattlesnake
timber right
timber rot
timber scribe
timber shifter
timber toe
timber topper
timber topping
timber tower
timber tree
timber unloader
timber wheels
timber wolf
timber worm
timber yard
timber-boring
timber-built
timber-carrying
timber-ceilinged
timber-covered
timber-cutting
timber-devouring
timber-eating
timber-floating
timber-framed
timber-headed
timber-hitch
timber-laden
timber-line
timber-lined
timber-producing
timber-propped
timber-skeletoned
timber-strewn
timber-toed
timber-tree
timber-wood
timber-work
timber-yard
timbrel arch
timbrel vault
time about
time after time
time ahead
time allotment
time allowance
time and a half
time and again
time and motion
time and motion study
time and time again
time at bat
time at your command
time at your disposal
time azimuth
time ball
time bargain
time belt
time bill
time bomb
time book
time capsule
time card
time chart
time charter
time charter party
time clerk
time clock
time constant
time constants
time control
time copy
time delay
time deposit
time derivative
time detector
time discount
time draft
time drawing on
time enough
time error
time exposure
time fire
time flies
time fuse
time globe
time gun
time hanging on your hands
time hit
time immemorial
time in
time interval
time just ahead
time killer
time lag
time lamp
time lead
time limit
time loan
time lock
time machine
time marches on
time measurement
time money
time note
time of day
time of life
time of year
time of your life
time off
time on your hands
time out
time out of mind
time out of time
time pattern
time policy
time-binding
time-blackened
time-blanchend
time-born
time-bound
time-breaking
time-canceled
time-changed
time-cleft
time-consuming
time-delay relay
time-deluding
time-discolored
time-eaten
time-economizing
time-enduring
time-expired
time-exposure
time-fused
time-gnawn
time-halting
time-hastening
time-honored
time-honored practice
time-honoured
time-interval meter
time-keeper
time-killing
time-lag
time-lapse
time-lapse photography
time-lasting
time-limit
time-marked
time-measuring
time-mellowed
time-motion study
time-noting
time-out
time-pressed
time-rent
time-rusty
time-saver
time-saving
time-scarred
time-served
time-server
time-serving
time-sharing
time-shrouded
time-space
time-spirit
time-table
time-taught
time-temperature
time-temperature curve
time-tested
time-tried
time-wasted
time-wasting
time-wearied
time-white
time-withered
time-worn
timeo Danaos et dona ferentes
times of old
times of yore
times past
times without number
times, the
timing chain
timing gears
timing pulse
timing screw
timing unit
timing valve
timothy grass
tin ash
tin bronze
tin calciner
tin can
tin chloride
tin cow
tin cry
tin crystal
tin cup
tin dichloride
tin dioxide
tin disease
tin ear
tin fish
tin foil
tin frame
tin glaze
tin god
tin hare
tin hat
tin kettle
tin liquor
tin lizzie
tin loaf
tin monoxide
tin opener
tin ore
tin oxide
tin pail
tin pan alley
tin pest
tin plague
tin plate
tin plater
tin pot
tin pulp
tin putty
tin pyrite
tin pyrites
tin salt
tin shop
tin smelter
tin snips
tin soldier
tin spirit
tin spirits
tin spot
tin stream
tin streamer
tin streaming
tin tack
tin tetrachloride
tin wash
tin washing
tin wedding
tin whistle
tin-bearing
tin-bottomed
tin-bound
tin-bounder
tin-capped
tin-colored
tin-covered
tin-eared
tin-edged
tin-filled
tin-foil
tin-foil paper
tin-foiler
tin-glass
tin-glazed
tin-handled
tin-kettle
tin-kettler
tin-lined
tin-mailed
tin-opener
tin-pan
tin-pan alley
tin-plate
tin-plate worker
tin-plated
tin-plating
tin-pot
tin-pottery
tin-pottiness
tin-potty
tin-roofed
tin-stone
tin-tabled
tin-tack
tin-type
tin-whistle
tin-white
tina process
tincture of iodine
tincture of opium
tincture press	
tinder fungus
tinder-cloaked
tinder-dry
tinea barbae
ting ware
ting-a-ling
tingle with excitement	
tinhorn gambler	
tink-a-tink
tinker mackerel
tinker up
tinker's dam
tinker's damn
tinker's damn, a
tinker's weed	
tinkle-tankle
tinkle-tankling
tinned dog

tinned goods

tinning stack

tinsel-bright

tinsel-clad

tinsel-covered

tinsel-embroidered

tinsel-paned

tinsel-slippered

tint block

tint for tant

tint meter

tint photometer

tint tool

tiny bit

tip and run

tip cap

tip car

tip cheese

tip crane

tip in

tip off

tip over

tip plant

tip roast

tip roll

tip sled

tip slide

tip speed

tip table

tip the hat to

tip the scale

tip the scales

tip truck

tip van

tip wagon

tip worm

tip your hand

tip-
tip-and-run

tip-cat

tip-crowning

tip-curl

tip-ear

tip-finger

tip-in

tip-off

tip-on
tip-tap
tip-tilted
tip-top
tip-top table
tip-up
tip-up table
tippa-malku
tipper truck
tipper-off
tippet grebe
tippet-scuffle
tipping center
tippling house
tippling-house
tipsy cake
tipsy key
tipsy-cake
tipsy-topsy
tire becker
tire bender
tire borer
tire buffer
tire carrier
tire case
tire cement
tire chain
tire changer
tire chipper
tire clamp
tire compressor
tire cooler
tire core
tire cover
tire curler
tire dresser
tire examiner
tire fastener
tire filler
tire finisher
tire fitter
tire gauge
tire heater
tire holder
tire iron
tire lacing
tire lock
tire mold
tire molder
tiring irons
tiring maid
tiring room
tiring woman
tiring-house
tiring-irons
tiring-room
tirlie-wirlie
tirling pin
tirly-toy
tirra-lirra
tishah-b'ab
tissue culture
tissue fibrinogen
tissue fluid
tissue paper
tissue-building
tissue-changing
tissue-destroying
tissue-forming
tissue-paper
tissue-producing
tissue-secretion
tisty-tosty
tit babbler
tit drill
tit for tat
tit in the wringer
tit screw
tit-bit
tit-tat-toe
tit-up
tita root
titading or caption
titan crane
titan-
titanic acid
titanic anhydride
titanic iron ore
titanic oxide
titanium dioxide
titanium oxide
titanium white
titano-
titer test
tithe barn
tithe collector
tithe gatherer
tithe man
tithe pig
tithe proctor
tithe-collecting
tithe-free
tithe-paying
tithing-man	
title bearer
title border
title catalog
title catalogue
title deed
title deeds and papers
title essay
title hero
title insurance
title letter
title lining
title of honor
title page
title role
title space
title type
title-bearing
title-deed
title-holding
title-hunting
title-mad
title-page
title-seeking
title-winning	
titter-totter
tittle-tattle
tittle-tattled
tittle-tattler
tittle-tattling
titular bishop
tityre-tu	
tiz-woz
to a T
to a certain extent
to a certainty
to a degree
to a draw
to a fare-thee-well
to a fare-ye-well
to a fare-you-well
to a fault
to a finish
to a frazzle
to a great degree
to a great extent
to a hair
to a large extent
to a man
to a nicety
to a small degree
to a small extent
to a standoff
to a tee
to a tie
to a tittle
to a turn
to advantage
to all appearances
to all intents and purposes
to all seeming
to an extent
to an inch
to and fro
to any end
to atone for
to be brief
to be counted on
to be counted on your fingers
to be depended upon
to be desired
to be exact
to be expected
to be fair
to be had
to be on the road
to be precise
to be preferred
to be reckoned on
to be relied upon
to be seen
to be specific
to be sure
to be trusted
to beat the Dutch
to beat the band
to beat the deuce
to beat the devil
to hits
to blame
to boot
to cite an instance
to come
to come to the point
to completion
to crown all
to cut the matter short
to date
to death
to do
to everywhere
to excess
to explain
to extremes
to fit the pocketbook
to gain some private ends
to gild refined gold
to go
to good account
to good effect
to good purpose
to good use
to grin like a Cheshire cat
to guess
to hand
to have and to hold
to have sex
to hawse
to heel
to hell and back
to his executors and assigns
to his heirs
to his heirs and assigns
to illustrate
to infinity
to judge by appearances
to kalon
to keep
to landward
to lease
to leeward
to let
to little purpose
to make a dent
to make a guess
to make a long story short
to name an instance
to no extent
to no purpose

to nourish a viper in your bosom

to one side

to order

to paint the lily

to perfection

to pieces

to post on a diagonal

to profit

to prove the point

to relieve yourself

to retain

to rights

to say nothing of

to sell

to shards

to shreds

to smitereens

to some degree

to some extent

to some purpose

to spare

to speak of

to speak truthfully

to splinters

to state the fact

to state the truth

to such an extent

to tatters

to tell the truth

to that place

to the account of

to the amount of

to the backbone

to the bad

to the best of your ability

to the best of your belief

to the best of your knowledge

to the bitter end

to the brim

to the contrary

to the core of

to the crack of doom

to the credit of

to the death

to the edge of doom

to the end

to the end of time
to the end that
to the extreme
to the eye
to the fore

to the four corners of the earth
to the four winds
to the front
to the full
to the good
to the heart of
to the heirs of his body
to the highest degree
to the hilt
to the king's taste
to the last gasp
to the last trumpet
to the left
to the letter
to the life
to the limit
to the manner born
to the marrow
to the memory of
to the minute
to the nth degree
to the nth power
to the past
to the point
to the point of exhaustion
to the purpose
to the queen's taste
to the rear
to the right
to the same degree
to the second
to the side
to the skies
to the sky
to the teeth
to the top of your bent
to the tune of
to the utmost
to the wind
to the windward
to the wise
to the zenith
to this day
to this place
to throw a perfume on the violet
to what extent
to what place
to which place
to windward
to wit
to year and day
to your account
to your amazement
to your astonishment
to your cost
to your credit
to your delight
to your disgust
to your displeasure
to your face
to your fancy
to your fingertips
to your great glee
to your great surprise
to your health
to your heart's content
to your knowledge
to your liking
to your mind
to your satisfaction
to your shame
to your shame be it spoken
to your surprise
to your taste
to your utmost
to your way of thinking
to-
to-and-fro
to-and-fros
to-and-ko
to-arrive
to-be
to-break
to-burst
to-day
to-do
to-dos
to-draw
to-drive
to-fall
to-morn
to-morrow
tobacco belt
tobacco box
tobacco brown
tobacco bug
tobacco camphor
tobacco carton
tobacco case
tobacco chewing
tobacco cloth
tobacco cultivator
tobacco cutter
tobacco dryer
tobacco dust
tobacco fertilizer
tobacco flea beetle
tobacco granulator
tobacco grater
tobacco hawk moth
tobacco heart
tobacco hornworm
tobacco juice
tobacco lath
tobacco leaf miner
tobacco liquor
tobacco liquorer
tobacco machine
tobacco machinery
tobacco mildew
tobacco molder
tobacco mosaic
tobacco mosaic virus
tobacco panner
tobacco pipe
tobacco pouch
tobacco press
tobacco rack
tobacco retainer
tobacco road
tobacco roller
tobacco shaver
tobacco shed
tobacco shop
tobacco smoker
tobacco smoking
tobacco sprayer
tobacco spreader
tobacco stick
tobacco stopper
tobacco store
tobacco stripper
tobacco thrips
tobacco tongs
tobacco twister
tobacco user
tobacco water
tobacco wilt
tobacco worm
tobacco-abusing
tobacco-box
tobacco-box skate
tobacco-breathed
tobacco-growing
tobacco-pipe
tobacco-pipe clay
tobacco-plant
tobacco-sick
tobacco-smoking
tobacco-stained
tobacco-stemming	
tobin’s tube
tobira family
toboggan cap
toboggan slide
tobosa grass
toby jug
toc-toc
toccata form
tocharian a
tocharian b
tocher band
tocher good
toco-
tod stove
toddle along
toddy bird
toddy blossom
toddy cat
toddy ladle
toddy palm
toddy stick
toddy table
toddy tree
toe and heel
toe biter
toe box
toe calk
toe cap
toe clip
toe crack
toe dance
toe dancer
toe distance
toe dog
toe hardy
toe hold
toe kisser
toe kissing
toe piling
toe rail
toe ring
toe the line
toe the mark
toe upon
toe wall
toe weight
toe-dance
toe-danced
toe-dancing
toe-drop
toe-in
toe-mark
toe-punch
toffee dipper
toffee-apple
toffee-nosed
tog out
tog up
toga virilis
together on
together with	toggle bolt
toggle chain
toggle harpoon
toggle hook
toggle iron
toggle joint
toggle motion
toggle press
toggle rail
toggle riveter
toggle switch
toggle-joint press
toggle-jointed
togt-rider
toigu-riding
tohu-bohu
toil and moil
toil and trouble
toil-assuaging
toil-beaten
toil-bent
toil-exhausted
toil-hardened
toil-marred
toil-pressed
toil-stained
toil-stricken
toil-tried
toil-weary
toil-won
toil-worn
toile de Jouy
toile de jouy
toilet article
toilet atomizer
toilet bottle
toilet bowl
toilet brush
toilet cabinet
toilet case
toilet cloth
toilet cup
toilet glass
toilet goods
toilet hardware
toilet mirror
toilet paper
toilet powder
toilet room
toilet seat
toilet service
toilet set
toilet soap
toilet sponge
toilet table
toilet tissue
toilet training
toilet water
toiling class
toison d'or
tok-tokkie
token book
token coin
token gesture
token money
token of esteem
token of remembrance
token payment
token punishment
token ring
token sheet
token silver
token strike
token vote
token-money
tol de rol
tol-
tol-de-rol
tol-lol
tol-lol-de-rol
tol-lol-lish
tolerance limits
toll agent
toll bait
toll bar
toll board
toll bridge
toll call
toll clerk
toll collector
toll corn
toll dish
toll farmer
toll highway
toll inspector
toll line
toll road
toll thorough
toll traverse
toll turn
toll-book
toll-dish
toll-free
toll-gatherer
toll-house
tollhouse cooky
tolling dog
tolling of the knell
tolosa wood
tolu balsam
tolu resin
tolu tree
tolu-
toluene trichloride
toluene trifluoride
toluic acid
toluidine blue
toluidine red
toluric acid
toluyl radical
tolyl group
tolyl radical
tom and jerry
tom collins
tom hurry
tom pudding
tom tailor
tom thumb
tom tiddler's ground
tom turkey
tom-ax
tom-cod
tom-fool
tom-noddy
tom-tit
tom-toe
tom-tom
tom-trot
tomato aspic
tomato black rot
tomato blight
tomato bouillon
tomato can
tomato curly top
tomato eggplant
tomato fern
tomato fruitworm
tomato gall
tomato hamper
tomato hawk moth
tomato hornworm
tomato juice
tomato ketchup
tomato leaf blight
tomato leaf mold
tomato mosaic
tomato packer
tomato paste
tomato pulp
tomato puree
tomato red
tomato sauce
tomato scalding
tomato soup
tomato sphinx
tomato streak
tomato stripe
tomato transplanter
tomato trellis
tomato wilt
tomato worm
tomato yellows
tomato-colored
tomato-growing
tomato-leaf
tomato-washing
tomb bat
tomb house
tomb maker
tomb tower
tomb-bat
tomb-black
tomb-breaker
tomb-dwelling
tomb-making
tomb-paved
tomb-robber
tomb-strewn
tomblike silence
tombstone marking
tomcat around
tomkin post
tommy bar
tommy book
tommy day
tommy gun
tommy hole
tommy master
tommy noddy
tommy shop
tommy system
tommy-axe
tommy-gun
ton-foot
ton-force
ton-kilometer
ton-mile
ton-mileage
ton-up
tonal gap
tonal island
tone accent
tone arm
tone cluster
tone color
tone colour
tone control
tone deafness
tone down
tone gap
tone grammar
tone island
tone language
tone long
tone measurer
tone of voice
tone of your voice
tone painting
tone pattern
tone picture
tone poem
tone poet
tone poetry
tone quality
tone row
tone syllable
tone tester
tone up
tone wheel
tone with
tone-deaf
tone-full
tone-producing
tone-setter
tone-up
toned down	ong borer
tongue and groove
tongue bar	ongue bird
tongue bit
tongue blade
tongue bone
tongue compressor
tongue cover
tongue depressor
tongue fern
tongue fish
tongue graft
tongue grafting
tongue grass
tongue hero
tongue in cheek
tongue joint
tongue pipe
tongue shell
tongue sole
tongue swallowing
tongue tree
tongue truck
tongue twister
tongue work
tongue worm
tongue-and-groove joint
tongue-back
tongue-baited
tongue-hang
tongue-bitten
tongue-blade
tongue-bound
tongue-dumb
tongue-flowered
tongue-free
tongue-front
tongue-garbled
tongue-gilt
tongue-graft
tongue-halted
tongue-hammer
tongue-jangling
tongue-kill
tongue-lash
tongue-lashing
tongue-leaved
tongue-lolling
tongue-murdering
tongue-pad
tongue-point
tongue-puissant
tongue-shaped
tongue-tack
tongue-taming
tongue-taw

tongue-tie

tongue-tied

tongue-tier

tongue-valiant

tongue-wagging

tongue-walk

tongue-wanton

tonguing plane

tonguing-and-grooving plane

tonic accent

tonic chord

tonic epilepsy

tonic key

tonic major

tonic minor

tonic motion

tonic section

tonic sol-fa

tonic sol-faist

tonic spasm

tonic treatment

tonic triad

tonic water

tonka bean

tonka bean camphor

tonka-bean camphor

tonka-bean wood

tonnage coefficient

tonnage deck

tonnage displacement

tonnage duty

tonnage length

tonnage opening

tonnage pool

tonnage train

tonnage well

tonneau cover

tonneau lamp

tonneau windshield

tono-
tonsill-
tonsured cleric

too bad

too big

too big for your britches

too big for your shoes

too clever by half
too deep for
too early
too far
too few
too frugal
too funny for words
too killing for words
too late
too little
too many cooks
too many irons in the fire
too much
too much at once
too much for
too much of a good thing
too much with us
too precious for words
too soon
too soon off the mark
too-aged
too-anxious
too-big
too-bigness
too-bold
too-celebrated
too-confident
too-coy
too-dainty
too-devoted
too-early
too-earnest
too-familiar
too-fervent
too-forced
too-good
too-hectic
too-large
too-late
too-lateness
too-laudatory
too-long
too-much
too-muchness
too-near
too-old
too-patient
too-piercing
too-proud
too-ripe
too-short
too-soon
too-soonness
too-timely
too-too
too-trusting
too-willing
too-wise
too-young
toolle-oo
tool angle
tool apron
tool bag
tool belt
tool boy
tool cabinet
tool car
tool carriage
tool carrier
tool cart
tool case
tool chest
tool coupling
tool demagnetizer
tool engineer
tool engineering
tool examiner
tool fasher
tool fettler
tool filer
tool finder
tool fitter
tool forge
tool forger
tool gauge
tool glazer
tool grinder
tool grinding
tool handle
tool heater
tool house
tool kit
tool lubricant
tool miller
tool oil
tool plane
tool post
tool press
tool rack
tool reclamer
tool regrinding
tool repairer
tool rest
tool roll
tool set
tool sharpener
tool shed
tool shop
tool socket
tool spindle
tool stamper
tool stand
tool steel
tool storekeeper
tool subject
tool table
tool temper
tool tray
tool treating
tool truck
tool turner
tool wagon
tool whetter
tool-and-die maker
tool-cleaning
tool-cutting
tool-dresser
tool-dressing
tool-maker
tool-sharpening
tool-using
tooling up
toolroom lathe
tools and machinery
toot plant
toot your own horn
tooth and nail
tooth ax
tooth caliper
tooth chisel
tooth cleaner
tooth cough
tooth cress
tooth decay
tooth doctor
tooth edge
tooth fever
tooth filling
tooth for tooth
tooth forceps
tooth fungus
tooth gauge
tooth key
tooth mark
tooth ornament
tooth paste
tooth plane
tooth plugger
tooth powder
tooth puller
tooth pulp
tooth rail
tooth rash
tooth relic
tooth sac
tooth shell
tooth violet
tooth wheel
tooth wound
tooth-billed
tooth-bred
tooth-brush
tooth-chattering
tooth-drawer
tooth-extracting
tooth-leaved
tooth-marked
tooth-pulling
tooth-rounding
tooth-set
tooth-setting
tooth-shaped
tooth-shell
tooth-tempting
tooth-winged
toothache grass
toothache tree
toothbrush tree
toothed whale
toothed-billed
toothful grin
toothing plane
tothy-peg
tootle bug
tootsy-wootsies
tootsy-wootsy
top banana
top beam
top billing
top block
top boot
top boots
top brass
top burton
top cinder
top cleaner
top cow
top deck
top dog
top drawer
top dresser
top dressing
top executive
top flight
top floor
top gallery
top grafting
top hamper
top hat
top horse
top lift
top light
top line
top liner
top milk
top notch
top of house
top of the world
top off
top out
top part
top people
top price
top priority
top round
top secret
top sergeant
top shape
top side
top slice
top slicing
top speed
top spin
top spot
top the
top timber
top up
top yeast
top-
top-armor
top-boot
top-cap
top-castle
top-coated
top-cross
top-cutter
top-dog
top-drain
top-drawer
top-dress
top-dressing
top-flight
top-full
top-graft
top-hamper
top-hampered
top-hand
top-hat
top-hatted
top-heavily
top-heaviness
top-heavy
top-heavy market
top-hole
top-level
top-lit
top-notch
top-over-tail
top-piece
top-rank
top-ranking
top-road bridge
top-sawyer
top-secret
top-set
top-sew
top-shaped
top-shell
top-stone
top-timber
top-work
topaz quartz
topaz rock
topaz-colored
topaz-green
topaz-tailed
topaz-throated
topaz-tinted
topaz-yellow
toper's-plant
topgallant mast
topgallant sail
topgallant yard
tophus stone
topic of the day
topic sentence
topical anesthetic
topical outline
topknot pigeon
topo-
topographic chart
topographico-mythical
topological equivalence
topological group
topological invariant
topological space
topological transformation
topping lift
topping off
topping-off
topping-out course
topple down
topple over
tops, the
topsail schooner
topsail-tye
topsy-turn
topsy-turnness
topsy-turvical
topsy-turvies
topsy-turvification
topsy-turvifier
topsy-turvify
topsy-turvily
topsy-turviness
topsy-turvy
topsy-turvydom
torpedo body
torpedo bomber
torpedo boom
torpedo catcher
torpedo director
torpedo fish
torpedo mine
torpedo net
torpedo ram
torpedo rocket
torpedo room
torpedo sand
torpedo school
torpedo spar
torpedo station
torpedo stern
torpedo strike aircraft
torpedo tube
torpedo-boat
torpedo-boat catcher
torpedo-boat destroyer
torpedo-shaped
torque arm
torque converter
torque tube
torque wrench
torrent bow
torrent duck
torrent of rain
torrent-bitten
torrent-borne
torrent-braving
torrent-flooded
torrent-mad
torrent-swept
torrid heat
torrid zone
torsion angle
torsion axis
torsion balance
torsion bar
torsion basin
torsion curve
torsion galvanometer
torsion group
torsion head
torsion meter
torsion pendulum
torsion scale
torsion screw
torsion spasm
torsion spring
torsion-free group
torsional stress
torso murder
tort-feasor
tortoise beetle
tortoise flower
tortoise plant
tortoise shell
tortoise that supports the earth
tortoise's pace
tortoise-core
tortoise-footed
tortoise-headed
tortoise-paced
tortoise-rimmed
tortoise-roofed
tortoise-shaped
tortoise-shell
tortoise-shell butterfly
tortoise-shell cat
tortoise-shell turtle
tortoiseshell turtle
torture the law to your own ends
torus palatinus
tory democracy
tory-rory
tosh nailing
tosh-up
toss and tumble
toss and turn
toss around
toss at
toss down
toss off
toss out
toss overboard
toss the head
toss together
toss up
toss your cookies
toss your drink
toss your hat in the ring
toss-up
tossed salad
tossing and turning
tossing-in
tot system
tot to
tot up
tot up to
total abstinence
total agreement
total approach
total attention
total bases
total blindness
total change
total commitment
total compensation
total darkness
total defeat
total depravity
total differential
total eclipse
total effect
total environment
total heat
total immersion
total impression
total impulse
total internal reflection
total loss
total loss only policy
total memory
total quantum number
total recall
total reflection
total self-assurance
total serialism
total situation
total skepticism
total theater
total up
total up to
total utility
total victory
total war
totalitarian government
totalitarian regime
totalitarian threat
totality of associations
totality of being
totality of references
totality of relations
totally absorbed
totally committed
totally ordered set
totally self-assured
tote bag
tote board
tote box
tote road
tote sack
tote shop
tote to
tote up
tote up to
totem animal
totem badge
totem kin
totem pole	oti-
totidem verbis	oties quoties
toto caelo	oto-
totter along	otter on the brink	otter to your fall	ottery in years	otty-headed	ouch a chord	ouch a nerve	touch a nerve ending	touch a raw nerve	touch a soft spot	touch a sore spot	touch a sympathetic chord	touch a tender spot	touch and go	touch body	touch bottom	touch cerate	touch down	touch elbows with	touch football	touch judge	touch lightly	touch mark	touch method
touch needle
touch of conscience
touch off
touch on
touch on the raw
touch paper
touch reader
touch shoulders with
touch spot
touch system
touch the cap
touch the hat
touch the wind
touch to the quick
touch typewriter
touch typewriting
touch up
touch upon
touch upon in passing
touch upon lightly
touch where it hurts
touch writer
touch writing
touch your heart
touch-
touch-and-go
touch-box
touch-hole
touch-in goal
touch-in-goal
touch-in-goal line
touch-line
touch-me-not
touch-me-not-ish
touch-paper
touch-piece
touch-powder
touch-tackle
touch-type
touch-up
touched in the head
touched in the wind
touching down
tough as leather
tough break
tough cake
tough grind
tough guy
tough it out
tough job
tough lineup to buck
tough luck
tough nut to crack
tough out
tough pitch
tough pitch copper
tough policy
tough proposition
tough shit
tough tenacity of purpose
tough titty
tough-backed
tough-fibered
tough-fisted
tough-handed
tough-lived
tough-looking
tough-metaled
tough-minded
tough-mindedly
tough-mindedness
tough-muscled
tough-shelled
tough-sinewed
tough-skinned
tough-thonged
toujours perdrix
tour billion
tour conductor
tour de force
tour director
tour en l'air
tour guide
tour jete
tour of duty
toura grass
touring car
touring coupe
tourist car
tourist card
tourist center
tourist class
tourist court
tourist home
tourist trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trodden
tourmaline pink
tourmaline tongs
tours en l'air
tous-les-mois	
tousled hair
tout a fait
tout a l'heure	
tout au contraire
tout court
tout de suite
tout ensemble
tout le monde
tow boy
tow car
tow carder
tow carrier
tow cloth
tow hook
tow iron
tow mixer
tow post
tow sack
tow team
tow truck
tow wheel
tow-colored
tow-coloured
tow-feeder
tow-haired
tow-headed
tow-line
tow-made
tow-net
tow-netter
tow-netting
tow-path
tow-pung
tow-roped
tow-row
tow-spinning
towel gourd
towel horse
towel rack
towing post
towing spar
town adjutant
town ball
town book
town boomer
town bridge
town bushel
town car
town church
town clerk
town clerkship
town council
town councilor
town cress
town crier
town dweller
town economy
town end
town foot
town forest
town gas
town guard
town hall
town head
town house
town jail
town life
town lot
town manager
town meeting
town mouse
town mutual
town officer
town park
town people
town place
town plan
town planner
town planning
town reeve
town row
town sickness
town soviet
town talk
town tallow
town top
town traveler
town wall
town way
town woman
town yard
town-absorbing
town-and-country suit
town-born
town-bound
town-bred
town-clerk
town-cress
town-dotted
town-dwelling
town-end
town-flanked
town-frequenting
town-girdled
town-goer
town-going
town-house
town-imprisoned
town-keeping
town-killed
town-living
town-looking
town-loving
town-made
town-major
town-meeting
town-pent
town-planning
town-sick
town-talk
town-tied
town-trained
town-weary
townhall clock
township line
township road
towrope horsepower
tox-
toxic goiter
toxic inflammation
toxic psychosis
toxic shock syndrome
toxic-
toxico-
toxin-anatoxin
toxin-antitoxin
(toxin-antitoxin immunity
toxin-antitoxin immunization
toxy-
toxophore group
toy dog
toy manchester
toy poodle
toy shop
toy soldier
toy spaniel
toy terrier
toy with
toy-loving
toy-shop
toy-sized
tt-ties
tra-la
tra-la-la
trace buckle
trace chain
trace connector
trace down
trace element
trace fastener
trace holder
trace hook
trace horse
trace of an idea
trace out
trace over
trace spring
trace the derivation of
trace the origin of
trace to
trace-bearer
trace-galled
trace-high
tracer atom
tracer bullet
tracer element
tracer investigation
trache-
trachelo-
trachelo-occipital
tracheo-
trachio branchia
trachy-
trade ducat
trade edition
trade editor
trade eruption
trade fair
trade fixture
trade gap
trade goods
trade guild
trade hall
trade in
trade journal
trade language
trade magazine
trade name
trade off
trade officer
trade on
trade on margin
trade paper
trade plate
trade practice
trade price
trade rat
trade reference
trade rights
trade road
trade route
trade sale
trade school
trade secret
trade sight unseen
trade test
trade tomahawk
trade union
trade unionism
trade unionist
trade up
trade warranty
trade wind
trade winds
trade with
trade work
trade-bound
trade-destroying
trade-facilitating
trade-fallen
trade-gild
trade-in
trade-laden
trade-last
trade-made
trade-mark
trade-mark infringement
trade-mark name
trade-marker
trade-off
trade-seeking
trade-union
trade-unionism
trade-unionist
trade-wind
trade-wind rig
trademark name
trades board
trades council
trades hall
trades-union
trades-unionism
trades-unionist
trading account
trading estate
trading market
trading post
trading stamp
tradition-bound
tradition-fed
tradition-following
tradition-making
tradition-nourished
tradition-ridden
traditional grammar
traditional logic
traditor battery
traffic beacon
traffic circle
traffic constable
traffic control
traffic control signal
traffic cop
traffic court
traffic density
traffic director
traffic engineering
traffic in
traffic in women
traffic island
traffic jam
traffic law
traffic light
traffic manager
traffic of the stage
traffic officer
traffic pattern
traffic policeman
traffic post
traffic regulator
traffic sheet
traffic shifter
traffic signal
traffic squad
traffic tower
traffic warden
traffic with
traffic-bearing
traffic-choked
traffic-congested
traffic-furrowed
traffic-laden
traffic-mile
traffic-regulating
traffic-thronged
tragedy-proof
tragi-
tragi-comedy
tragi-comic
tragic drama
tragic flaw
tragic irony
tragic muse
tragic-comedy
trail after
trail along
trail angle
trail arms
trail away
trail bar
trail behind
trail bike
trail blazer
trail blazing
trail board
trail boss
trail breaker
train off
train oil
train pipe
train recorder
train reporter
train robber
train room
train rope
train schedule
train service
train shed
train sheet
train sickness
train signal
train spotter
train staff
train starter
train stop
train tackle
train ticket
train trip
train upon
train wrecker
train-dispatching
train-giddy
train-lighting
train-mile
trained nurse
trainer-bomber
trainer-fighter
training aid
training bank
training college
training day
training group
training level
training missile
training mission
training pants
training rocket
training school
training ship
training table
training tackle
training wall
trait of character
trait-complex
trajectory missile
tram crane
tram greaser
tram guard
tram load
tram plate
tram rail
tram rod
tram shed
tram-borne
tram-car
tram-line
tram-road
tram-traveling
trammell net
trammell wheel
trammel-net
tramp pick
t ramp ship
t ramp steamer
trample down
trample in the dust
trample on
trample out
trample under foot
trample underfoot
trample upon
trampling down
trance speaking
trance state
trance writing
tranche de bouf
tranche de lard
tranche de vie
tranquil-acting
tranquil-ization
tranquil-looking
tranquil-minded
trans-
trans-Adriatic
trans-African
trans-Algerian
trans-Alleghenian
trans-American
trans-Andean
trans-Andine
trans-Antarctic
trans-Apennine
trans-Arabian
trans-Asiatic
trans-Australian
trans-Austrian
trans-Balkan
trans-Baltic
trans-Canadian
trans-Carpathian
trans-Caspian
trans-Congo
trans-Cordilleran
trans-Danubian
trans-Egyptian
trans-Euphrates
trans-Germanic
trans-Grampian
trans-Himalayan
trans-Hispanic
trans-Iberian
trans-Indian
trans-Indus
trans-Iranian
trans-Iraq
trans-Jovian
trans-Liberian
trans-Libyan
trans-Manchurian
trans-Martian
trans-Mediterranean
trans-Mississippi
trans-Mississippian
trans-Mongolian
trans-Neptunian
trans-Niger
trans-Panamanian
trans-Paraguayan
trans-Persian
trans-Pyrenean
trans-Rhenish
trans-Sahara
trans-Saharan
trans-Saturnian
trans-Severn
trans-Siberian
trans-Stygian
trans-Tiber
trans-Tibetan
trans-Ural
trans-Uralian
transit time
transition curve
transition element
transition fit
transition form
transition mission
transition point
transition probability
transition sound
transition strip
transition temperature
transition tint
transitive verb
transitive visit number
transitory action
translate into
translate into action
translating roller
translation of axes
translucent things
transmigration of souls
transmission bands
transmission belting
transmission cable
transmission case
transmission chain
transmission clutch
transmission density
transmission dynamometer
transmission efficiency
transmission electron microscope
transmission factor
transmission gear
transmission grating
transmission level
transmission line
transmission lock
transmission loss
transmission of light
transmission pulley
transmission pump
transmission rope
transmission shaft
transmission sheaf
transmission stop system
transmission theory
transmission tower
transmission unit
transmission wheel
transmit warrant
transmit-receive unit
transmit-receiver
transmitter part
transmitter parts
transmitter receiver
transmitter signal
transmitter truck
transmitting antenna
transmitting set
transmitting station
transoceanic rocket
transom adjuster
transom bar
transom butt
transom catch
transom center
transom chain
transom eye
transom frame
transom knee
transom lift
transom light
transom operator
transom plate
transom stern
transom window
transom-stered
transonic barrier
transparent color
transparent item
transparent substance
transparent things
transpartisan leadership
transpersonal therapy
transphysical science
transpiration current
transport caf
transport number
transport rider
transport riding
transport ship
transport vessel
transportation corps
transportation engineer
transportation insurance
transportation map
trap-door
trap-door spider
trap-nester
trapeze artist
trapeze dress
trapezoid ligament
trapezoidal rule
trash bag
trash barrel
trash can
trash farming
trash gatherer
trash ice
trash pile
trash shield
trash turner
traumatic epilepsy
traumatic fever
traumatic inflammation
traumatic memory
traumatic neurosis
traumatic shock
traumatic trace
traumato-
travail and bring forth
travel agency
travel agent
travel book
travel bureau
travel by air
travel by airline
travel by water
travel in a groove
travel in a rut
travel in space
travel literature
travel over
travel ration
travel shot
travel sickness
travel the open road
travel through
travel time
travel with
travel-bent
travel-broken
travel-changed
travel-disordered
traveling-wave tube
traveller's cheque
traveller's joy
travelling salesman
travelling wave
traverse a yard
traverse board
traverse circle
traverse drill
traverse feed
traverse flute
traverse jury
traverse rail
traverse rod
traverse sailing
traverse shaper
traverse survey
traverse table
traverse track
traverse wind
traverse-table
traversing bridge
traversing circle
traversing crane
traversing gear
traversing jack
traversing mandrel
travois road
trawl board
trawl line
trawl net
trawl-net
tray agriculture
tray boy
tray cloth
tray conveyer
tray elevator
tray emptier
tray filler
tray frame
tray handle
tray maker
tray table
tray-shaped
tray-top table
treacle mold
treacle molding
treacle mustard
treacle sleep
treacle water
treacle wormseed
tread close upon
tread down
tread on
tread on air
tread on eggs
tread on the heels of
tread on your heels
tread on your toes
tread the boards
tread under foot
tread underfoot
tread upon
tread upon eggs
tread water
tread-softly
tread-wheel
treading down
treading mill
treading water
treads and risers
treason felony
treason-breeding
treason-canting
treason-hatching
treason-haunted
treason-sowing
 treasure box
 treasure chamber
 treasure chest
 treasure city
 treasure house
 treasure hunt
 treasure hunter
 treasure hunting
 treasure quest
 treasure room
 treasure seeker
 treasure ship
 treasure trove
 treasure up
 treasure up in the heart
 treasure up in the memory
 treasure-baited
 treasure-bearing
 treasure-filled
treasure-house
treasure-houses
treasure-laden
treasure-seeking
treasure-trove
treasurer general
treasury agent
treasury bench
treasury bill
treasury bond
treasury certificate
treasury check
treasury letter
treasury note
treasury of information
treasury of merits
treasury of the Church
treasury of words
treasury stock
treasury warrant
treat as routine
treat for sore eyes
treat gently
treat lightly
treat like dirt under your feet
treat of
treat to
treat unequally
treat well
treat with
treat with contempt
treat with disrespect
treat with indignity
treat with reserve
treatment room
treaty maker
treaty making
treaty of peace
treaty port
treaty reinsurance
treaty-bound
treaty-breaking
treaty-favoring
treaty-sealed
treaty-secured
treble best
treble block
treble bob
treble chance
treble clef
treble gear
treble purchase
treble staff
treble viol
treble-dated
treble-geread
treble-sinewwed
tree agate
tree aloe
tree azalea
tree bear
tree belt
tree boa
tree bracket
tree cactus
tree calf
tree cat
tree celandine
tree class
tree clover
tree cobra
tree compass
tree cony
tree cotton
tree crab
tree creeper
tree cricket
tree crow
tree cult
tree cypress
tree dassie
tree dove
tree duck
tree farm
tree farmer
tree farming
tree feller
tree fender
tree fern
tree frog
tree fruit
tree fucshia
tree germander
tree goldenrod
tree goose
tree guard
tree heath
tree holder
tree hoopoe
tree hopper
tree house
tree houseleek
tree huckleberry
tree hyrax
tree insulator
tree ipomoea
tree kangaroo
tree lark
tree lawn
tree lily
tree line
tree looker
tree lotus
tree lucern
tree lungwort
tree lupine
tree mallow
tree marking
tree marten
tree martin
tree medic
tree mildew
tree milk
tree molasses
tree moss
tree mouse
tree myrtle
tree nymph
tree of Jesse
tree of heaven
tree of knowledge
tree of life
tree of sadness
tree onion
tree orchis
tree partridge
tree peony
tree pie
tree pigeon
tree pipit
tree planter
tree planting
tree poke
tree poppy
tree porcupine
tree primrose
tree protector
tree pruner
tree root rot
tree rune
tree runner
tree scribe
tree shrew
tree snake
tree sorrel
tree sparrow
tree spirit
tree squirrel
tree steppe
tree stool
tree sugar
tree surgeon
tree surgery
tree swallow
tree swift
tree tag
tree tiger
tree toad
tree tobacco
tree tomato
tree trimmer
tree trunk
tree veld
tree violet
tree viper
tree wax
tree wool
tree wormwood
tree worship
tree worshiper
tree yucca
tree-banding
tree-bordered
tree-boring
tree-clad
tree-climbing
tree-covered
tree-creeper
tree-crowned
tree-dotted
tree-dwelling
tree-embowered
tree-feeding
tree-fern
tree-form frame
tree-fringed
tree-garnished
tree-girt
tree-god
tree-goddess
tree-goose
tree-great
tree-haunting
tree-hewing
tree-inhabiting
tree-lined
tree-living
tree-locked
tree-loving
tree-marked
tree-moss
tree-planted
tree-pruning
tree-ripe
tree-run
tree-runner
tree-sawing
tree-shaded
tree-shaped
tree-skirted
tree-sparrow
tree-spraying
tree-surgeon
tree-toad
tree-top
trieveled cross
trefoil arch
trefoil knot
trefoil-shaped	
trek ox
trek wagon
trellis-bordered
trellis-covered
trellis-framed
trellis-shaded
trellis-sheltered
trellis-work
trellis-woven
tremble in the balance
tremble in your boots
tremble in your shoes
tremble like an aspen leaf
tremble on the verge
tremble to its fall
tremble to your fall
trembleuse cup
trembling in the balance
trembling poplar
trembling prairie
tremor disk
tremor of excitement	
trench albuminuria
trench artillery
trench back
trench bomb
trench cart
trench cavalier
trench coat
trench digger
trench disease
trench fever
trench foot
trench gun
trench knife
trench mortar
trench mouth
trench nephritis
trench plow
trench sickness
trench silo
trench warfare
trench-plough
trencher attendant
trencher cap
trencher companion
trencher critic
trencher friend
trencher knight
trencher philosopher
trencher plate
trencher poetry
trencher rascal
trencher slave
trencher time
trencher-cap
trencher-fed
trencher-man
trenching plane
trenching spade
trend downward
trend of the times
trend upwards
trend-setter
trente et quarante
trente-et-quarante	tres bien
tres bon	tres vif	tres-tine
trespass board
trespass offering	tress-braiding	tress-encircled
tress-lifting	tress-plaiting
tress-shorn
tress-topped	trestle and table	trestle bed	trestle bent	trestle board	trestle bridge	trestle legs	trestle post	trestle table	trestle-tree	trey-ace
trez-tine	tri-
tri-city	tri-ester	tri-iodide	tri-mide	tri-pack	tri-personal	tri-ply	tri-tunnel	tria juncta in uno	triakis-
trial and error
trial at the bar
trial balance
trial balloon
trial brief
trial by battle
trial by jury
trial case
trial court
trial docket
trial engagement
trial examiner
trial frame
trial glasses
trial heat
trial horse
trial impression
trial judge advocate
trial jury
trial lawyer
trial lenses
trial marriage
trial order
trial package
trial piece
trial print
trial proof
trial run
trial sample
trial square
trial trip
trial-and-error
trials and tribulations
triammonium phosphate
triangle inequality
triangle of forces
triangle spider
triangle winding
triangle-leaved
triangle-shaped
triangular bandage
triangular matrix
triangular-shaped
triangulation stations
triangulato-ovate
triaryl methane dye
triatic stay
triaxial cable
triaxial speaker
tribasic sodium phosphate
tribo-
tribrom-
tribromoethyl alcohol
tribute money
tribute pitch
tric-trac
trice up
triceps surae
trich-
trichlor-
trichloroacetic acid
trichloroacetic acid aldeh
trichloroacetic acid aldehyde
trichloromethyl chloroformate
trichlorophenoxyacetic acid
trichlorophenoxyacetic acid
tricho-
trick knee
trick of behavior
trick of eyesight
trick off
trick or treat
trick out
trick rider
trick score
trick up
trick valve
trick wheel
trick work
trick-o-the-loop
trick-or-treat
trick-or-treater
tricked out
trickle away
trickle charge
trickle charger
trickle-down theory
tricks of the trade
tricky spot
tricolor camera
tricot stitch
tricuspid insufficiency
tricuspid stenosis
tricuspid valve
tricyanic acid
tridarn cupboard
trident bat
trident-shaped
tridymite-trachyte
tried and true
tried-and-trueness
triethyl orthoformate
trifacial neuralgia
trifid foot
trifle away
trifle away time
trifle with
trifle with the truth
trifles light as air
trifling amount
trifling matter
trifoliate orange
trig loop
trig up
trigeminal nerve
trigeminal neuralgia
trigesimo-secundo
trigger a mine
trigger circuit
trigger finger
trigger guard
trigger hair
trigger man
trigger mechanism
trigger plant
trigger pulse
trigger tube
trigger-happy
trigger-men
triggering pulse
triggering signals
trigonal trisoctahedron
trigono-
trigonometric equation
trigonometric function
trihydric alcohol
trilatral symetry
trilby hat
trillium family
trim angle
trim by the head
trim by the stern
trim controls
trim rail
trim sail
trim ship
trim size
trim tab
trim tabs
trim to
trim up
trim your sails to the breeze
trim-ankled
trim-bearded
trim-bodiced
trim-bodied
trim-cut
trim-dressed
trim-hedged
trim-kept
trim-looking
trim-suited
trim-swept
trim-up
trim-waisted
trimetric projection
trimmer arch
trimmer beam
trimmer condenser
trimmer joist
trimmer signal
trimming capacitor
trimming hatch
trimming hole
trimming joist
trimming machine
trimming press
trimming punch
trimming store
trimming tab
trimming tank
trine immersion
trinetrop
trinity column
trinity field
trinity lily
trinity violet
trinkum-trankum
trinomial name
trio sonata
triode-heptode
trip catch
trip charter party
trip dial
trip die
trip dog
trip engine
trip gear
trip hammer
trip hook
trip line
trip money
trip over your own feet
trip over your tongue
trip piece
trip pin
trip rate
trip shaft
trip slip
trip system
trip the light fantastic
trip to Mars
trip to the moon
trip train
trip up
trip-free
trip-hammer
trip-madam
trip-toe
tripartite and pretty
tripe de roche
tripe dresser
tripe seller
tripe-de-roche
tripe-eating
tripe-selling
triphenylmethane color
triphenylmethane dye
triphosphoric acid
triple bond
triple counterpoint
triple crown
triple dresser
triple fugue
triple integral
triple jump
triple measure
triple play
triple plume
triple point
triple rhyme
triple rhythm
triple scalar product
triple superphosphate
triple tangent
triple tangent plane
triple threat
triple time
triple vaccine
triple-acting
triple-action
triple-ailed
triple-apsidal
triple-arched
triple-awned
triple-barbed
triple-barred
triple-bearded
triple-bodied
triple-bolted
triple-branched
triple-check
triple-chorded
triple-colored
triple-crested
triple-crowned
triple-cylinder
triple-deck
triple-decked
triple-decker
triple-dyed
triple-edged
triple-entry
triple-expansion
triple-expansion engine
triple-formed
triple-gemmed
triple-hatted
triple-headed
triple-header
triple-hearth
triple-ingrain
triple-line
triple-lived
triple-lock
triple-nerved
triple-piled
triple-pole
triple-rayed
triple-ribbed
triple-rivet
triple-roofed
triple-space
triple-stranded
triple-tailed
triple-terraced
triple-thread
triple-throated
triple-throw
triple-tiered
triple-tongue
triple-tongued
triple-tonguing
triple-toothed
triple-towered
triple-turned
triple-turreted
triple-veined
triple-wick
triplet lily
triplicate-pinnate
triplicate-ternate
triplo-
tripod camera
tripod of the Pythia
tripod puller
tripod table
tripped out
tripped up
tripping coil
tripping line
tripping link
tripping relay
tripping transformer
trippingly on the tongue
trismus cynicus
trisodium phosphate
tristimulus computer
tristimulus values
trit-trot
trite expression
trite joke
trite saying
trito-
triumph over
triumphal arch
trivalent carbon
trivet table
trivial affair
trivial name
trobar clus
trocar-shaped
trochlear nerve
trocho-
trodden flat
troilus butterfly
trois point
trojan horse
trojan war
troll plate
troll-drum
troll-madam	
trolley attendant
trolley block
trolley bracket
trolley bus
trolley car
trolley carrier
trolley catcher
trolley clip
trolley coach
trolley cord
trolley fork
trolley frog
trolley gong
trolley guard
trolley harp
trolley hoist
trolley insulator
trolley line
trolley locomotive
trolley maker
trolley pole
trolley rail
trolley retriever
trolley road
trolley shoe
trolley spring
trolley track
trolley tracking
trolley wagon
trolley wheel
trolley wire	
tromba marina
trombe marine						
trombone coil
trompe l'oeil
tron weight
troop carrier
troop duck
troop leader
troop school
troop train
troop transport
troop-lined
troop-thronged
troops of the line
troostite-martensite
troosto-martensite
tropo-
tropaecoln D
trope of comparison
tropeolin D
troph-
trophic level
tropho-
trophy cress
trophy money
trophy room
trophy tax
tropic bird
tropic of
tropic of Cancer
tropic of cancer
tropical aquarium
tropical bubo
tropical cycl
tropical cyclone
tropical fish
tropical heat
tropical medicine
tropical storm
tropical suit
tropical year
tropo-
trot along
trot out
troth ring
troth-contracted
troth-keeping
troth-plaint
troth-telling	rotter cases
trotting race
trou madame
trou-de-coup
trou-de-loup
troubadour fiddle
troubadour poem
trouble maker
trouble man
trouble shooter
trouble shooting
trouble spot
trouble you for
trouble your head about
trouble yourself
trouble-bringing
trouble-free
trouble-giving
trouble-haunted
trouble-house
trouble-mirth
trouble-saving
trouble-shooter
trouble-tossed
trouble-worn
troubled mind
troubled thought
troubled waters
trough battery
trough conveyor
trough gutter
trough iron
trough keel
trough line
trough roof
trough room
trough shape
trough-shaped
trouser press
trouser presser
trouser suit
trouser-press
trouper bass
trouper brook
trouper fishing
trouper fly
trouper lily
trouper perch
trouper shad
trouper stream
trouper-colored
trouper-famous
trouper-haunted
true fly
true fresco
true grit
true heading
true horizon
true inwardness
true jade
true laurel
true level
true lover's knot
true meaning
true north
true rib
true skin
true time
true to form
true to life
true to nature
true to reality
true to the facts
true to the letter
true to the spirit
true to type
true to your colors
true up
true vocal cord
true vocal cords
true-aimed
true-based
true-begotten
true-believing
true-blooded
true-blue
true-born
true-breasted
true-bred
true-dealing
true-derived
true-devoted
true-disposing
true-divining
true-eyed
true-false
true-false test
true-felt
true-grained
true-hearted
true-heartedness
true-heroic
true-life
true-love
true-love knot
true-lover's knot
ture-made
ture-mannered
ture-meaning
ture-meant
ture-noble
ture-paced
ture-ringing
ture-run
ture-seeming
ture-souled
ture-speaking
ture-spelling
ture-spirited
ture-spoken
ture-stamped
ture-strung
ture-sublime
ture-sweet
ture-thought
ture-to-lifeness
ture-toned
ture-tongued
true-love knot
trump and solemn heraldry
trump card
trump of doom
trump signal
trump up
trump up a charge
trump-poor
trumped-up
trumped-up charge
trumped-up story
trumpet animalcule
trumpet arch
trumpet ash
trumpet blare
trumpet blast
trumpet call
trumpet conch
trumpet creeper
trumpet daffodil
trumpet fish
trumpet flower
trumpet fly
trumpet forth
trumpet honey suckle
trumpet honeysuckle
trumpet hypha
trumpet lily
trumpet major
trumpet marine
trumpet milkweed
trumpet narcissus
trumpet of doom
trumpet plant
trumpet reed
trumpet seaweed
trumpet shell
trumpet sound
trumpet tree
trumpet turning
trumpet vine
trumpet-blowing
trumpet-creeper family
trumpet-hung
trumpet-leaf
trumpet-leaves
trumpet-loud
trumpet-shaped
trumpet-toned
trumpet-tongued
trumpet-tree
trumpet-voiced
trumpeter fish
trumpeter muscle
trumpeter perch
trumpeter swan
trumpeter whiting
truncated pyramid
trundle bed
trundle-bed
trundle-tail
trunk breeches
trunk buoy
trunk cabin
trunk call
trunk curl
trunk deck
trunk dial
trunk engine
trunk hatch
trunk hatchway
trunk hose
trunk line
trunk piston
trunk road
trunk room
trunk scald
trunk steamer
trunk turtle
trunk whale
trunk-breeches
trunk-decked vessel
trunk-fish
trunk-hose
trunk-maker
trunnion band
trunnion carriage
trunnion chain
trunnion cradle
trunnion hoop
trunnion jig
trunnion plate
truss beam
truss bow
truss bridge
truss hoop
truss rod
truss up
truss-bound
truss-galled
truss-hoop
trussed beam
trussed joist
trussing bed
trussing machine
trust account
trust agreement
trust beneficiary
trust buster
trust busting
trust certificate
trust company
trust corporation
trust deed
trust fund
trust implicitly
trust in
trust in God
trust indenture
trust institution
trust maker
trust mortgage
trust officer
trust receipt
trust territory
trust to
trust to chance
trust to luck
trust unto
trust upon
trust your word
trust-bolstering
trust-breaking
trust-controlled
trust-controlling
trust-ingly
trust-regulating
trust-ridden
trust-winning
trusted friend
trustee account
trustee bank
trustee in bankruptcy
trustee mortgage bond
trustee process
trustee savings bank
trustee security
trustee stock
trusting soul
trusty friend
trusty sword
truth claim
truth drug
truth in action
truth lover
truth or consequences
truth seeker
truth serum
truth set
truth speaker
truth table
truth to life
truth to nature
truth to the letter
truth-armed
truth-bearing
truth-cloaking
truth-cowed
truth-declaring
truth-denying
truth-desiring
truth-destroying
truth-dictated
truth-filled
truth-function
truth-functional
truth-functionally
truth-guarding
truth-instructed
truth-led
truth-loving
truth-mocking
truth-passing
truth-perplexing
truth-revealing
truth-seeking
truth-shod
truth-speaking
truth-telling
truth-tried
truth-value
truth-writ
try a case
try again
try and
try and make me
try and try
try and try again
try anything once
try cock
try conclusions
try conclusions with
try for
try for a miracle
try for point
try gun
try hard
try hole
try in all its phases
try it
try it for size
try it on
try on
try on for size
try one
try one another
try out
try out for
try plane
try square
try the chance
try the patience
try to
try to be in two places at once
try to bribe
try to catch the wind in a net
try to fetch water in a sieve
try to find
try to gather grapes from thorns
try to get blood from a turnip
try to get figs from thistles
try to make bricks from straw
try to make cheese of chalk
try to reach
try to recall
try to weave a rope of sand
try up
try you out
try your best
try your damndest
try your darndest
try your fortune
try your hand
try your luck
try your strength
try your utmost
try-
try-on
try-pot
tryer-out
trying for
trying plane
trypanflavine neut
trypan blue
trypan red
trysail gaff
trysail mast
trysting day
trysting place
tsetchem leshalom
tsetse fly
tsetse fly disease
tsutsugamushi disease
tsutsugamushi mite
tu quoque
tu-chung
tu-chung bark
tu-whit
tu-whit tu-whoo
tu-whoo
tuan muda
tub boat
tub butter
tub chair
tub desk
tub drubber
tub front
tub maker
tub of lard
tub preacher
tub preaching
tub thumper
tub thumping
tub wheel
tub-brained
tub-coopering
tub-fast
tub-keeping
tub-preach
tub-preacher
tub-shaped
tub-size
tub-sized
tub-t
tub-thump
tub-thumper
tubal pregnancy	ube brazer	ube casts	ube coral	ube counter	ube culture	ube door	ube drawer	ube foot	ube generator	ube mill	ube of electric force	ube of force
tube plate
tube railway
tube saw
tube set
tube sheet
tube shutter
tube spinner
tube transmitter
tube weaver
tube well
tube worm
tube wrench
tube-bearing
tube-curing
tube-drawing
tube-drilling
tube-eye
tube-eyed
tube-eyes
tube-fed
tube-filling
tube-nosed
tube-rolling
tube-scrapping
tube-shaped
tube-straightening
tube-weaving
tubeless tire
tubeless tyre
tuber aster
tuber fern
tuber indexing
tuber moth
tuber root	
tubercle bacillus
tubercul-
tuberculin test
tuberculo-
tuberculosis cutis
tuberculosis luposa
tuberculosis of the intestines
tuberculosis of the larynx
tuberculous arthritis
tuberculous meningitis
tuberculous rheumatism
tuberous root
tuberous-rooted
tufted-necked
tug at the heart
tug at the heartstrings
tug chain
tug iron
tug of war
tug the heartstrings	
tug-of-war
tug-of-warring	
tula metal
tule chicken
tule goose
tule hen
tule mint
tule perch
tule potato
tule root
tule wren
tulema arrow-root
tulip bed
tulip blight
tulip ear
tulip fancier
tulip fire
tulip grower
tulip mold
tulip oak
tulip orchid
tulip poplar
tulip poppy
tulip root
tulip shell
tulip tree
tulip-eared
tulip-fancying
tulip-grass
tulip-growing
tulip-shaped
tulip-tree
tulip-wood
tum out
tum-ti-tum
tum-tum
tumble car
tumble cart
tumble drier
tumble for
tumble grass
tumble home
tumble mustard
tumble on
tumble through the mind
tumble to
tumble-
tumble-down
tumbledown shack	
tumbler bearing
tumbler cart
tumbler cup
tumbler drier
tumbler gear
tumbler gearing
tumbler pigeon
tumbler switch	
tumbler-shaped
tumbling barrel
tumbling bay
tumbling box
tumbling rod
tumbling shaft
tumbling verse
tumbling-
tumbu fly	
tump-line	
tumulus scab
tun of flesh
tun pail
tun shell	
tun-bellied
tun-dish	
tuna cheese
tuna clipper
tuna fish	
tuna fish salad
tuna oil
tuna salad sandwich
tune down
tune in
tune off
tune out
tune up
tune your lyre	
tune-skilled
tune-up
tuned antenna
tuneful Nine
tuner-inner
tung oil
tung tree
tung-oil
tung-oil tree
tungsten lamp
tungsten ocher
tungsten steel
tungsten trioxide
tungstic acid	
tunic flower

tunica palmata
tuning bar
tuning capacitor
tuning coil
tuning condenser
tuning cone
tuning fork
tuning hammer
tuning hole
tuning horn
tuning key
tuning lever
tuning peg
tuning pin
tuning pipe
tuning slide
tuning wrench
tunking fit
tunna smjors
tunnel anemia
tunnel diode
tunnel disease
tunnel effect
tunnel head
tunnel kiln
tunnel miner
tunnel net
tunnel of love
tunnel of time
tunnel pit
tunnel right
tunnel shaft
tunnel sickness
tunnel stern
tunnel vault
tunnel vision
tunnel weaver
tunnel worm
tunnel-boring
tunnel-shaped
tunny oil
tuno gum
tup lamb
tup-headed
tupelo gum
tupi-guarani
tupi-guaranian
tuppenny-hapenny
turban buttercup
turban lily
turban sheep
turban squash
turban stone
turban toque
turban-crested
turban-crowned
turban-shaped
turbary hog
turbidity current
turbine centrifugal pump
turbine interrupter
turbine nozzle
turbine steamer
turbine ventilator
turbine-driven
turbine-engined
turbine-propelled
turbo-
turbo-electric
turbo-prop
turbo-propeller engine
turbo-propeller plane
turbo-ram-jet engine
turbo-ramjet engine
turbojet engine
turbojet propulsion
turboprop engine
turboprop-jet
turboprop-jet engine
turboram-jet
turboramjet engine
turbulent flow
turco-
turf accountant
turf ant
turf cake
turf hog
turf moss
turf out
turf webworm
turf-boring
turf-bound
turf-built
turf-clad
turf-covered
turf-cutting
turf-digging
turf-forming
turf-grown
turf-laid
turf-roofed
turf-spread
turf-walled
turfing daisy
turgor pressure
turk's cap
turk's head
turkey beard
turkey berry
turkey bird
turkey blossom
turkey bur
turkey buzzard
turkey call
turkey carpet
turkey claw
turkey cock
turkey corn
turkey fig
turkey foot
turkey gnat
turkey gobbler
turkey grape
turkey grass
turkey hen
turkey louse
turkey mullein
turkey oak
turkey pea
turkey pod
turkey red
turkey shoot
turkey stone
turkey trot
turkey vulture
turkey-cock
turkey-feather
turkey-feather fucus
turkey-foot
turkey-hen
turkey-trot
turkey-trotted
turkey-trotting
turkey-worked
turkish bath
turkish coffee
turkish delight
turkish tobacco
turkish towel
turmeric paper
turmeric root
turmeric tree
turn a blind eye
turn a blind eye to
turn a cold shoulder to
turn a cold shoulder upon
turn a corner
turn a deaf ear
turn a deaf ear to
turn a hair
turn a hand
turn a penny
turn a pirouette
turn a pot
turn a somersault
turn a willing ear
turn about
turn acid
turn against
turn an honest penny
turn and turn about
turn around
turn around your little finger
turn aside
turn aside from
turn aside provocation
turn ass over elbows
turn attention to
turn away
turn away from
turn awry
turn back
turn back the clock
turn bench
turn blue in the face
turn bolt
turn bottom side up
turn bridge
turn button
turn cloak
turn color
turn down
turn file
turn for
turn from
turn gray
turn green
turn head over heels
turn in
turn in an alarm
turn in your badge
turn in your uniform
turn indicator
turn informer
turn inside out
turn into
turn into money
turn into the opposite
turn inward
turn it off
turn king's evidence
turn loose
turn meter
turn of events
turn of expression
turn of mind
turn of phrase
turn of the cards
turn of the screw
turn of the table
turn of the tide
turn of the wheel
turn of thought
turn of work
turn off
turn off the juice
turn off the light
turn on
turn on a dime
turn on her heel
turn on the juice
turn on the light
turn on the offensive
turn on the tap
turn on to
turn on your heel
turn one's back on
turn one's back upon
turn out
turn out bag and baggage
turn out doors
turn out of doors
turn out of house and home
turn out that way
turn out to be
turn out well
turn over
turn over a new leaf
turn over in the mind
turn over the leaves
turn over your knees
turn pale
turn queen's
turn queen's evidence
turn red
turn round
turn sign
turn sour
turn state's evidence
turn stitch
turn swords into plowshares
turn tail
turn the back upon
turn the balance
turn the corner
turn the edge of
turn the eyes
turn the mind to
turn the other cheek
turn the point of
turn the scale
turn the scales
turn the shoulder
turn the stomach
turn the tables
turn the tables on
turn the tables upon
turn the thoughts to
turn the tide
turn the trick
turn thumbs down on
turn to
turn to a lake
turn to a sea
turn to account
turn to good account
turn to naught
turn to nothing
turn to profit
turn to stone
turn to the right-about
turn to the side
turn to use
turn to your advantage
turn topsy-turvy
turn traitor
turn turtle
turn under
turn up
turn up missing
turn up one's face
turn up trumps
turn up your nose at
turn up your toes
turn upon
turn upon your heel
turn upside down
turn west
turn white
turn yellow
turn you away
turn you on
turn your attention from
turn your back on
turn your back upon
turn your coat
turn your face to the wall
turn your hand to
turn your head
turn your stomach
turn your tail upon
turn your tracks to
turn-
turn-and-bank indicato
turn-and-bank indicator
turn-and-slip indicator
turn-buckle
turn-crowned
turn-down
turn-furrow
turn-hall
turn-in
turn-key
turn-key job
turn-out
turn-over
turn-penny
turn-round
turn-server
turn-serving
turn-sick
turn-sickness
turn-table
turn-to
turn-tree
turn-under
turn-up
turned around
turned comma
tumed on
tumed period
tumed-back
tumed-down
tumed-in
tumed-off
tumed-on
tumed-out
tumed-over
tumed-up
turner hall
turner harp
turner hood
turner-off
turning arbor
turning around
tuming away
tuming back
tuming backwards
tuming basin
tuming chisel
tuming circle
tuming down
turning engine
turning front to back
turning gouge
turning head over heels
turning inside out
turning into
turning inward
turning movement
turning on
turning out
turning over
turning over in the mind
turning pendant
turning piece
turning plow
turning point
turning rest
turning saw
turning side to side
turning spur
turning square
turning traitor
turning upside down
turning upside-down
turning value
tumip aphid
tumip bean
tumip cabbage
tumip flea
tumip flea beetle
tumip fly
tumip foot
tumip grass
tumip jack
tumip leaf miner
tumip louse
tumip maggot
tumip nigger
tumip parsnip
tumip radish
tumip sawfly
tumip shell
tumip tops
tumip-bearing
tumip-eating
tumip-fed
tumip-growing
tumip-headed
turnip-leaved
turnip-pate
turnip-pointed
turnip-rooted
turnip-rooted celery
turnip-shaped
turnip-sick
turnip-stemmed
turnip-tailed
turnip-yielding
turnover door
turnover hinge
turnover tax
turnpike bond
turnpike geranium
turnpike man
turnpike road
turntable ladder
turnup bed
turnup card
turpentine beetle
turpentine camphor
turpentine gum
turpentine moth
turpentine oil
turpentine orchard
turpentine pine
turpentine plant
turpentine shrub
turpentine substitute
turpentine sunflower
turpentine tree
turpeth mineral
turquoise blue
turquoise green
turquoise-blue
turquoise-colored
turquoise-encrusted
turquoise-hued
turquoise-studded
turquoise-tinted	urret angle-rack tool
turret captain
turret clock
turret crew
turret cutter
turret deck
turret drier
turret drill
turret gun
turret lathe
turret ship
turret slide tool
turret spider
turret steamer
turret taper tool
turret-deck vessel
turret-decked vessel
turret-shaped
turret-topped
turret-turning
turtle cowrie
turtle crawl
turtle deck
turtle grass
turtle green
turtle heart
turtle peg
turtle pegger
turtle pegging
turtle plate
turtle shell
turtle soup
turtle stone
turtle-back
turtle-back shooting
turtle-billing
turtle-dove
turtle-footed
turtle-haunted
turtle-mouthed
turtle-neck
turtle-winged
turtleback scale
turtleneck sweater
tusk shell
tusk tenon	ussah silk
tussock grass
tussock moth
tussock sedge
tussock-grass	ut money	ut-mouthed	ut-tut	ut-tutted
tut-tutting
tutelar genius
tutelar god
tutelar spirit
tutelary genius
tutelary god
tutelary spirit
tutor-sick
tutorial system
tutti passage
tutti-frutti
tuxedo coat
tuxedo jacket	uyere arch
tuyere box
tuyere notch
tw-
twae-three
twain cloud
twaite shad	wanging nerves
twattle-basket
tweak the devil's nose
tweak the nose
tweed-clad
tweed-covered
tweed-suited
tweedle-
tween-brain
tween-deck
tween-watch	tweet-tweet
tweeter-woofer	tweezer-case
twelfhynde man
twelfth day
twelfth man
twelfth night
twelfth-cake
twelfth-day
twelfth-night
twelfth-second
twelve dozen
twelve men in a box
twelve o'clock
twelve-acre
twelve-armed
twelve-banded
twelve-bore
twelve-button
twelve-candle
twelve-carat
twelve-cut
twelve-day
twelve-dram
twelve-feet
twelve-foot
twelve-footed
twelve-fruited
twelve-gated
twelve-gauge
twelve-gemmed
twelve-handed
twelve-hole
twelve-horsepower
twelve-hour
twelve-inch
twelve-labor
twelve-legged
twelve-line
twelve-mile
twelve-mile limit
twelve-minute
twelve-monthly
twelve-note row
twelve-o'clock
twelve-oared
twelve-ounce
twelve-part
twelve-pint
twelve-point
twelve-point sphere
twelve-pound
twelve-pounder
twelve-rayed
twelve-seated
twelve-shilling
twelve-sided
twelve-spoke
twelve-spotted
twelve-starred
twelve-stone
twelve-stranded
twelve-thread
twelve-tone
twelve-tone row
twelve-tone technique
twelve-towered
twelve-verse
twelve-wired
twelve-word
twelve-year
twelve-year-old
twelvheynde man
twentieth man
twentieht-century
twenty questions
twenty-acre
twenty-carat
twenty-centimeter
twenty-cubit
twenty-day
twenty-dollar
twenty-dollar bill
twenty-dollar gold piece
twenty-eight
twenty-eighth
twenty-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twenty-foot
twenty-four
twenty-four carat
twenty-four-hour
twenty-fourmo
twenty-fourmos
twenty-fourth
twenty-gauge
twenty-grain
twenty-gun
twenty-hour
twenty-inch
twenty-knot
twenty-line
twenty-man
twenty-mark
twenty-mesh
twenty-meter
twenty-mile
twenty-minute
twenty-nigger
twenty-nine
twice-adapted
twice-adjourned
twice-adjusted
twice-admitted
twice-adopted
twice-affirmed
twice-agreed
twice-alarmed
twice-alleged
twice-allied
twice-altered
twice-amended
twice-angered
twice-announced
twice-answered
twice-anticipated
twice-appealed
twice-appointed
twice-appropriated
twice-approved
twice-arbitrated
twice-arranged
twice-assaulted
twice-asserted
twice-assessed
twice-assigned
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorized
twice-avoided
twice-baked
twice-balanced
twice-bankrupt
twice-baptized
twice-barred
twice-bearing
twice-beaten
twice-begged
twice-begun
twice-beheld
twice-beloved
twice-bent
twice-bereaved
twice-bereft
twice-bested
twice-bestowed
twice-betrayed
twice-bid
twice-bit
twice-blamed
twice-blessed
twice-blooming
twice-blowing
twice-boiled
twice-born
twice-borrowed
twice-bought
twice-branded
twice-broken
twice-brought
twice-buried
twice-called
twice-canceled
twice-canvassed
twice-captured
twice-carried
twice-caught
twice-censured
twice-challenged
twice-changed
twice-charged
twice-cheated
twice-chosen
twice-cited
twice-claimed
twice-collected
twice-commenced
twice-commended
twice-committed
twice-competing
twice-completed
twice-compromised
twice-concealed
twice-conceded
twice-condemned
twice-conferred
twice-confessed
twice-confirmed
twice-conquered
twice-consenting
twice-considered
twice-consulted
twice-contested
twice-continued
twice-converted
twice-convicted
twice-copyrighted
twice-corrected
twice-counted
twice-cowed
twice-created
twice-crowned
twice-cured
twice-damaged
twice-dared
twice-darned
twice-dead
twice-dealt
twice-debated
twice-deceived
twice-declined
twice-decorated
twice-decreed
twice-deducted
twice-defaulting
twice-defeated
twice-deferred
twice-defied
twice-delayed
twice-delivered
twice-demanded
twice-denied
twice-depleted
twice-deserted
twice-deserved
twice-destroyed
twice-detained
twice-diminished
twice-dipped
twice-directed
twice-disabled
twice-disappointed
twice-discarded
twice-discharged
twice-discontinued
twice-discounted
twice-discovered
twice-disgraced
twice-dismissed
twice-dispatched
twice-divided
twice-divorced
twice-doubled
twice-doubted
twice-drafted

twice-drugged
twice-dyed
twice-earned
twice-effected
twice-elected
twice-enacted
twice-encountered
twice-endorsed
twice-engaged
twice-enlarged
twice-ennobled
twice-essayed
twice-evaded
twice-examined
twice-excelled
twice-excused
twice-exempted
twice-exiled
twice-exposed
twice-expressed
twice-extended
twice-fallen
twice-false
twice-favored
twice-felt
twice-filmed
twice-fined
twice-folded
twice-fooled
twice-forgiven
twice-forgotten
twice-forsaken
twice-fought
twice-foul
twice-fulfilled
twice-gained
twice-garbed
twice-given
twice-granted

twice-grieved
twice-guilty
twice-handicapped
twice-hazarded
twice-healed
twice-heard
twice-helped
twice-hidden
twice-hinted
twice-hit
twice-honored
twice-humbled
twice-hurt
twice-identified
twice-ignored
twice-imposed
twice-improved
twice-incensed
twice-increased
twice-indulged
twice-infected
twice-injured
twice-insulted
twice-insured
twice-invented
twice-invited
twice-issued
twice-jailed
twice-judged
twice-kidnaped
twice-knighted
twice-laid
twice-lamented
twice-leagued
twice-learned
twice-left
twice-lengthened
twice-levied
twice-liable
twice-listed
twice-loaned
twice-lost
twice-mad
twice-maintained
twice-marketed
twice-married
twice-mastered
twice-mated
twice-measured
twice-menaced
twice-mended
twice-mentioned
twice-merited
twice-met
twice-missed
twice-mistaken
twice-modified
twice-mortal
twice-mourned
twice-named
twice-necessitated
twice-needed
twice-negligent
twice-negotiated
twice-nominated
twice-noted
twice-notified
twice-numbered
twice-objected
twice-obligated
twice-occasioned
twice-occupied
twice-offended
twice-offered
twice-offset
twice-omitted
twice-opened
twice-opposed
twice-ordered
twice-originated
twice-orphaned
twice-overdue
twice-overtaken
twice-overthrown
twice-owned
twice-paid
twice-painted
twice-pardoned
twice-parted
twice-partitioned
twice-patched
twice-pensioned
twice-permitted
twice-persuaded
twice-perused
twice-petitioned
twice-pinnate
twice-placed
twice-planned
twice-pleased
twice-pledged
twice-poisoned
twice-pondered
twice-posed
twice-postponed
twice-praised
twice-predicted
twice-preferred
twice-prepaid
twice-prepared
twice-prescribed
twice-presented
twice-preserved
twice-pretended
twice-prevailing
twice-prevented
twice-printed
twice-procured
twice-professed
twice-prohibited
twice-promised
twice-promoted
twice-proposed
twice-prosecuted
twice-protected
twice-proven
twice-provided
twice-provoked
twice-published
twice-punished
twice-pursued
twice-qualified
twice-questioned
twice-quoted
twice-raided
twice-re-elected
twice-read
twice-realized
twice-rebuilt
twice-recognized
twice-reconciled
twice-reconsidered
twice-recovered
twice-redeemed
twice-refined
twice-reformed
twice-refused
twice-regained
twice-regretted
twice-rehearsed
twice-reimbursed
twice-reinstated
twice-rejected
twice-released
twice-relieved
twice-remedied
twice-remembered
twice-remitted
twice-removed
twice-rendered
twice-rented
twice-repaired
twice-repeated
twice-replaced
twice-reported
twice-reprinted
twice-requested
twice-required
twice-reread
twice-resented
twice-resisted
twice-restored
twice-restrained
twice-resumed
twice-revenged
twice-reversed
twice-revised
twice-revived
twice-revolted
twice-rewritten
twice-rich
twice-right
twice-risen
twice-roasted
twice-robbed
twice-roused
twice-ruined
twice-sacked
twice-sacrificed
twice-said
twice-salvaged
twice-sampled
twice-sanctioned
twice-saved
twice-scared
twice-scattered
twice-subdued
twice-subjected
twice-subscribed
twice-substituted
twice-sued
twice-suffered
twice-sufficient
twice-suggested
twice-summoned
twice-suppressed
twice-surprised
twice-surrendered
twice-suspected
twice-suspended
twice-sustained
twice-sworn
twice-tabled
twice-taken
twice-tamed
twice-taped
twice-tardy
twice-taught
twice-tempted
twice-tendered
twice-terminated
twice-tested
twice-thanked
twice-thought
twice-threatened
twice-thrown
twice-tied
twice-told
twice-told tale
twice-torn
twice-touched
twice-trained
twice-transferred
twice-translated
twice-transported
twice-treated
twice-tricked
twice-tryed
twice-trusted
twice-turned
twice-undertaken
twice-undone
twice-united
twice-unpaid
twilight arch
twilight blue
twilight home
twilight of the gods
twilight of your days
twilight parallel
twilight sleep
twilight state
twilight vision
twilight war
twilight zone
twilight-enfolded
twilight-hidden
twilight-hushed
twilight-loving
twilight-seeming
twilight-tinctured
twill weave
twin-float
twin-forked
twin-gun
twin-headed
twin-hued
twin-jet
twin-leaf
twin-leaved
twin-leaves
twin-lens
twin-lens camera
twin-lens reflex
twin-lens reflex camera
twin-light
twin-motor
twin-motored
twin-named
twin-peaked
twin-power
twin-prop
twin-roller
twin-screw
twin-set
twin-sister
twin-six
twin-spiked
twin-spired
twin-spot
twin-striped
twin-tailboom jet
twin-towered
twin-towned
twin-tractor
twin-wheeled
twin-wire
twine around
twine binder
twine braider
twine cutter
twine holder
twine polisher
twine reeler
twine spinner
twine-binding
twine-bound
twine-colored
twine-spinning
twine-toned
twine-twisting
twinge of conscience
twingle-twangle
twinkle of an eye
twinkling of an eye
twinning axis
twinning law
twinning machine
twist and turn
twist around your little finger
twist belting
twist bit
twist drill
twist grip
twist stitch
twist the knife
twist the law to your own ends
twist the lion's tail
twist the meaning
twist the meaning of
twist the words
twist your arm
twisted eglantine
twisted stomach worm
twisted-horn
twisted-stalk
twisting course
twisting machine
twisting pair
twisting path
twisting the lion's tail	wisty-wisty	wit-twat	witch grass	witch of conscience	witch road	wite finch	witter-twatter
twittle-twattle	wizzle-twig	wo bits	wo cents	wo dozen	wo estates	wo fifths	wo hundred	wo leg	two o'clock
two of a kind
two old
two old cat
two or three
two pair
two shakes
two shakes of a lamb's tail
two times
two weeks
two whoops and a holler
two-a-cat
two-alarm fire
two-along
two-and-a-half stripes
two-and-one-half striper
two-angle
two-arched
two-armed
two-aspect
two-barred
two-barreled
two-base
two-base hit
two-beat
two-bedded
two-bid
two-bill
two-bit
two-bit politician
two-blade
two-bladed
two-block
two-blocks
two-bodied
two-bodies
two-bodies problem
two-bond
two-bottle
two-bottom plow
two-branched
two-bristled
two-bushel
two-by-four
two-capsuled
two-celled
two-cent
two-centered
two-chamber
two-chambered
two-charge
two-charge rate
two-circle
two-circuit
two-circuit switch
two-cleft
two-coat
two-color
two-color press
two-color printing
two-colored
two-compartment vessel
two-component
two-course system
two-cycle
two-cylinder
two-day
two-deck
two-deck vessel
two-decker
two-dimensional
two-dimensional wave
two-dimensionality
two-dimensionally
two-dimensioned
two-dollar
two-dollar bill
two-dollar broker
two-dollar word
two-eared
two-edged
two-em
two-em dash
two-ended
two-eye
two-eyed
two-eyes
two-face
two-faced
two-facedly
two-facedness
two-factor
two-family
two-family house
two-feeder
two-field system
two-figure
two-fingered
two-fisted
two-fisted man
two-floor
two-flowered
two-fluid
two-fold
two-foot
two-footed
two-footed man
two-footed octave
two-footedness
two-footedness
two-footedness
two-gallon
two-grained
two-groove
two-grooved
two-guinea
two-gun
two-hand
two-handed
two-handed saw
two-handedly
two-handedness
two-handled
two-headed
two-high
two-hinged
two-horned
two-horse
two-horsepower
two-hour
two-humped
two-inch
two-leaf
two-leaved
two-legged
two-level
two-life
two-light
two-line
two-line octave
two-lined
two-lipped
two-lobed
two-pole
two-position
two-pot screamer
two-pound
two-principle
two-pronged
two-quart
two-rail
two-ranked
two-rate
two-rayed
two-revolution
two-roomed
two-row
two-rowed
two-seated
two-seater
two-seeded
two-shafted
two-shanked
two-shaped
two-sheave
two-shilling
two-shillingly
two-shillingness
two-shot
two-sided
two-sidedness
two-soused
two-speed
two-spined
two-spored
two-spot
two-spotted
two-stage rocket
two-stall
two-stalled
two-star
two-star general
two-step
two-step rocket
two-stepped
two-stepping
two-sticker
two-storied
two-story
two-stream
two-stringed
two-year-old
twofold tackle
twopenny grass
twopenny-halfpenny
twyhynde man
ty block
ty ing up
tylo-
tymp stick
tympan frame
tympan sheet
tympanic bone
tympanic cavity
tympanic membrane
tympano-
type A
type AB
type B
type O
type bar
ty p block
type body
type cabinet
type case
type caster
type characteristic
type class
type cutter
type cutting
type face
type founder
type founding
type foundry
type gauge
type genus
type lice
type locality
type matter
type measure
type metal
type mold
type object
type page
type part
type plate
type rack
type shank
type size
type sizes
type slug
type species
type specimen
type station
type stem
type style
type styles
type theory
type wash
type wheel
type-blackened
type-cast
type-caster
type-casting
type-cutting
type-distributing
type-dressing
type-high
types of
types of containers
types of languages
types of marks
types of photography
typesetting machine
typesetting machines
typewriter brush
typewriter cabinet
typewriter case
typewriter cover
typewriter desk
typewriter eraser
typewriter holder
typewriter key
typewriter mat
typewriter oil
typewriter pad
typewriter paper
typewriter ribbon
typewriter roller
typewriter stand
typewriter table
typewriter type
typewriting telegraph
typh fever
typhlo-
typhlo-ureterostomy
typho-
typhoid bacillus
typhoid carrier
typhoid fever
typhoid spine
typhus fever
typical case
typical example
typical man
typing machine
typing paper
typist's error
typo-
typographical error
tyrannize over
tyranny of the majority
tyrant bird
tyrant flycatcher
tyrant sparing none
tyrant wren
tyrant-bought
tyrant-hating
tyrant-quelling
tyrant-ridden
tyrant-scourging
tyrian purple
tyrolean hat
tyrolite green
tyrosine hydroxylase
tzetze fly
u hlan
u-boat
u-mm
u-o umlaut
ua mau ke ea o ka aina i ka pono
uberrima fides
ubi supra
ubussu palm
ucinate epilepsy
ugli fruit
ugly as hell
ugly as sin
ugly as the wrath of God
ugly customer
ugly duckling
ugly person
ugly thing
ugly wind
ugly-clouded
ugly-conditioned
ugly-eyed
ugly-faced
ugly-headed
ugly-looking
ugly-omened
ugly-tempered
ugly-visaged
uh-huh
ujamaa village
uji fly
ukiyo-e
ulcer diet
ulcerative colitis
ule tree
ulla grass
ullage rocket
ulnar nerve
ulnocondylar foramen
ulterior motive
ultima Thule
ultima ratio
ultima ratio regum
ultima thule
ultimate aim
ultimate analysis
ultimate cause
ultimate concern
ultimate constituent
ultimate load
ultimate purpose
ultimate strength
ultimate stress
ultimate truth
ultra vires
ultra-
ultra-Protestantism
ultra-abolitionism
ultra-abstract
ultra-academic
ultra-affected
ultra-aggressive
ultra-ambitious
ultra-angelic
ultra-apologetic
ultra-arbitrary
ultra-argumentative
ultra-atomic
ultra-auspicious
ultra-slow
ultra-ultra
ultrahigh frequency
ultrahigh-frequency
ultrahigh-frequency station
ultramannish bob
ultrashortwave diathermy
ultrasonic detector
ultrasonic diathermy
ultrasonic flow detection
ultrasonic flow detector
ultrasonic inspector
ultrasonic spectacles
ultrasonic speed
ultrasonic therapy
ultraviolet heat
ultraviolet lamp
ultraviolet light
ultraviolet microscope
ultraviolet ray
ultraviolet therapy
um suff
um-
um-hum
um-yum
umber bird
umber-black
umber-brown
umber-colored
umber-rufous
umbilical cord
umbilical hernia
umble pie
umbra tree
umbrella ant
umbrella bird
umbrella bush
umbrella catalpa
umbrella fern
umbrella fir
umbrella grass
umbrella leaf
umbrella maker
umbrella making
umbrella man
umbrella palm
umbrella pine
umbrella plant
umbrella pulley
umbrella sedge
umbrella shell
umbrella stand
umbrella step
umbrella tent
umbrella tree
umbrella-shaped
umbrella-topped
umbro-
umbo-rana
umpire assay
un w
un-
un-American
un-Americanism
un-Australian
un-Austrian
un-Brahminical
un-Christanise
un-Christianised
un-Christianising
un-Christianize
un-Christianized
un-Christianizing
un-Christianlike
un-Christianly
un-Christliness
un-Christly
un-Christmaslike
un-English
un-Eucharistic
un-Eucharistical
un-Eucharistically
un-European
un-French
un-German
un-Jesuitic
un-Jesuitical
un-Jesuitically
un-Latinised
un-Latinized
un-Negro
un-Scripturality
un-Victorian
un-american
un-co-operating
un-co-operative
un-co-ordinate
un-co-ordinated
un-come-at-able
un-come-at-ableness
un-come-at-ably
un-english
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-ableness
un-hunh
un-numbed
un-panic-stricken
un-preempted
un-reembodied
un-thought-of
una corda
una corda pedal
una voce
unable to
unable to believe your eyes
unable to believe your senses
unable to forget
unable to make ends meet
unable to meet your obligations
unable to pay your creditors
unable to say 'boo' to a goose
unable to say 'no'
unable to show your face
unabridged dictionary
unacceptable person
unaccommodated man
unaccounted-for
unaccustomed to
unacquaintance with evil
unacquainted with
unacquainted with evil
unadorned meaning
unadorned style
unaided eye
unalienable rights
unaligned nation
unalloyed happiness
unanalyzed mass
unanimously elected
unarmored scale
unasked-for
unassisted eye
unattended to
unauthorized absence
unavailable energy
unavoidable casualty
unaware of
unbalanced mind
unbiased observer
unblessed with
unblinking eye
unbloody sacrifice
unblush mg
unbosom yourself
unbroken chord
unbroken sleep
unbuckle your belt
unburden your conscience
unburden your heart
unburden your mind
unburdening yourself
unbuttoned ease
uncalled for
uncalled-for
uncared-for
uncertainty principle
uncertainty relation
unchaste man
unchaste person
unchaste woman
unchecked will
unciform process
uncinate process
uncle sam
unclean spirit
unco guid
uncollected accounts
uncome-at-able
uncommitted amplifier
uncommitted person
uncommitted voter
uncommonly like
uncommunicative person
uncomplimentary remark
unconditional convergence
unconditioned free will
unconditioned reflex
unconditioned response
unconfirmed report
unconscionable price
unconscious drive
unconscious knowledge
unconscious memory
unconscious mind
unconscious of
unconscious urge
uncontrolled growth
uncontrolled spin
unconversant with
uncover yourself
uncreated being
uncritical acceptance
uncross-examined
und so weiter
unda maris
undec-
undecided issue
undecided voter
undeclared war
undecylenic acid
undeniable fact
under a charm
under a cloud
under a spell
under a strain
under active consideration
under advisement
under an eclipse
under an error
under any other name
under arms
under arrest
under attack
under bare poles
under bevel
under canvas
under close arrest
under coercion
under compulsion
under consideration
under construction
under control
under cover
under cover of
under damping
under detention
under discipline
under dominant
under easy sail
under examination
under false colors
under fire
under forced draft
under full steam
under hand and seal
under handicap
under heaven
under house arrest
under investigation
under lock and key
under mediant
under nine
under no circumstances
under oath
under obligation
under one's breath
under one's wing
under pain of
under par
under part
under penalty of
under power
under press of
under press of canvas
under press of sail
under press of sail and steam
under press of steam
under pressure
under privilege
under probation
under protest
under restraint
under revision
under sail
under secretary
under security
under security restrictions
under siege
under steam
under surveillance
under suspicion
under the aegis of
under the auspices of
under the ban
under the ban of secrecy
under the breath
under the circumstances
under the cloak of
under the counter
under the eyes of
under the garb of
under the hammer
under the harrow
under the heel
under the heel of
under the impression
under the influence
under the knife
under the lash
under the lee
under the nose of
under the pretext of
under the protection of
under the rose
under the seal of secrecy
under the shadow of your wing
under the shield of
under the stars
under the sun
under the surface
under the table
under the weather
under the wind
under the wing of
under the wire
under tow
under way
under weigh
under wraps
under your belt
under your breath
under your care
under your command
under your control
under your eyes
under your hand
under your hat
under your jurisdiction
under your nose
under your orders
under your own power
under your thumb
under your very nose
under your wing
under-
under-action
under-body
under-breath
under-carriage
under-chap
under-covert
under-deck
under-dip
under-earth
under-estimate
under-frame
under-garment
under-glaze
under-jaw
under-king
under-mentioned
under-petticoat
under-round
under-runner
under-secretary
under-sized
under-skirt
under-steward
under-surface
under-the-counter
under-the-table
under-time
under-treasurer
undercover activity
undercover man
undercurrent relay
underdeck tonnage
underdeveloped nation
underfrequency relay
undergo a change
undergo an eclipse
undergo deprivation
undergo privation
undergo schooling
undergo treatment
underground activity
underground cable
underground fighter
underground film
underground literature
underground movie
underground railroad
underground railway
underground river
underground route
underground trolley
underground warfare
underhand bundler
underhand dealing
underhand stope
underheat brooder
underhung rudder
underload starter
underload switch
underlying level
underlying meaning
underlying reason
underlying structure
undermine your faith
undermine your reason
underpitch vault
underpower relay
underprivileged, the
undershot wheel
understand by
understand one another
understudy for
undertake operations
undertaker's establishment
undervaluing of self
underwater archaeologist
underwater archaeology
underwater craft
undesirable discharge
undesirable person
undigested securities
undistributed costs
undistributed middle
undivided attention
undivided profits
undreamed-of
undress uniform
undue excitability
undue liberty
undulant fever
undulatory theory
unduly neglected
undying fame
undying friendship
unearned income
unearned increment
uneducated speech
unemployed, the
unemployment benefit
unemployment compensation
unemployment insurance
unequal to
unequal treatment
unequal-lengthed
unequal-limbed
unequal-lobed
unequal-sided
unequal-tempered
unequal-valved
uneven-aged
uneven-carriaged
uneven-handed
uneven-numbered
uneven-priced
uneven-roofed
unexcused absence
unexempt from
unexpended balance
unexplored ground
unexplored territory
unfair competition
unfair discrimination
unfair list
unfair practice
unfairly neglected
unfallen state
unfamiliar with
unfathomed deeps
unfavorable balance of payments
unfavorable wind
unfeel mg
unfinished worsted
unfit for human consumption
unfit to live in
unfold a tale
unforeseen attack
unforgivable sin
unfortunate time
unfortunate woman
unfrozen hydrometeor
unfulfilled pledge
unfunded debt
unfurl a banner
unfurl a flag
unfurl an ensign
unfurl sail
unfurnished uninhabited
unget-at-able
ungka puti
ungrateful wretch
ungreenable black
unh-unh
unhappy about
unhappy lot
unhappy-eyed
unhappy-faced
unhappy-happy
unhappy-looking
unhappy-seeming
unhappy-witted
unharmonious relationship
unheard-of
unholy dread
unholy joy
unholy mess
unhoped for
unhoped-for
uni-
uni-univalent
unicameral legislature
unicellular animal
unicorn antelope
unicorn beetle
unicorn bird
unicorn fish
unicorn hawk moth
unicorn moth
unicorn plant
unicorn ram
unicorn root
unicorn shell
unicorn whale
unicorn-plant family
unidentified flying object
unidirectional current
unidirectional microphone
unidirectional signal
unified atomic mass unit
unified field theory
unified theory
uniflow engine
uniform convergence
uniform velocity
uniform with
uniform-proof
uniformly continuous function
unilateral trade
unimportant person
uninhabited region
uninitiated in
uninterrupted course
uninterrupted sequence
unintoxicated state
uninvited guest
unio-
union black
union blue
union bow
union card
union catalog
union catalogue
union color
union contract
union cord
union district
union down
union dye
union elbow
union flag
union grass
union house
union jack
union jet burner
union joint
union label
union language
union list
union local
union member
union nut
union officer
union orange
union organizer
union pipes
union school
union shop
union station
unit switch
unit tare
unit trust
unit vector
unit watermark
unit's place
unit-set
unitary government
unitary matrix
unite efforts
unite in
unite in holy wedlock
unite in marriage
unite in sexual intercourse
unite with
united action
united front
united nations day
united states
unitive life
units of force
units of mass
units of weight
unity of interest
unity stress
univalent chromosome
univalent vaccine
universal accord
universal affirmative
universal agreement
universal algebra
universal antenna
universal church
universal class
universal concept
universal conception
universal coupling
universal donor
universal ego
universal essence
universal gas constant
universal geometry
universal head
universal joint
universal language
universal law
universal life force
universal military training
universal motor
universal negative
universal plane
universal plate
universal quantifier
universal remedy
universal ruin
universal self
universal solvent
universal stage
universal suffrage
universal symbol
universal time
universal truth
universalistic hedonism
universally admitted
universally recognized
universe of discourse
universe vine
university college
university extension
university settlement
university-bred
university-conferred
university-going
university-sponsored
university-taught
university-trained
unjust legal disability
unjust representation
unknown depths
unknown quantity
unknown soldier
unknown, the
unlapsed state
unlawful assembly
unlawful entry
unlearned capacity
unleash destruction
unleash the hurricane
unleavened bread
unless that
unlicked cub
unlisted securities
unlonged-for
unlooked for
unlooked-for
unlucky day
unlucky hour
unlucky person
unmade-up
unmanned satellite
unmarried person
unmeasured in your praise
unmediated perception
unmindful of
unmistakable sign
unmoth-eaten
unmoved mover
unnarrow-minded
unnarrow-mindedly
unnarrow-mindedness
unnecessary repetition
unnnumbered bank account
uno saltu
unobstructed vision
unofficial wife
unorganized data
unorganized ferment
unorganized matter
unpaid accounts
unpaid-for
unpaid-letter
unpaid-letter stamp
unpardonable sin
unparliamentary language
unpath'd waters
unplanned t
unpleasant taste
unpolished rice
unpossessed of
unpracticed in
unprepared for
unprovoked assault
unquestioning belief
unreal hope
unreasonable behaviour
unreasoning impulse
unrefined flour
unrefined mineral
unregistered bank account
unregistered securities
unrelenting attention
unrepeatable expressions
unrestricted propellant
unrhymed poetry
unripe acceptation
unsanctioned behavior
unsaturated fat
unsavory reputation
unsecured bond
unsecured loan
unself-assertive
unself-centered
unself-centred
unself-changing
unself-confident
unself-conscious
unself-consciously
unself-consciousness
unself-denying
unself-determined
unself-evident
unself-indulgent
unself-knowing
unself-opinionated
unself-possessed
unself-reflecting
unself-righteous
unself-righteously
unself-righteousness
unself-sacrificial
unself-sacrifically
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
unself-willedness
unsent-for
unshakable nerves
unshaken confidence
unsheathe your weapon
unsighed-for
unskilled in
unskilled labor
unskilled laborer
unskillful person
unslaked lime
unsorted mass
unsound mind
unsoundness of mind
unsparing of self
unspoken accusation
unspoken consent
unstable as water
unsteady market
unstopper your ears
unsuccessful person
unsuitable time
unsupported by evidence
unsure of yourself
unswerving attention
unsymmetrical loading
untalked-of
unthinking response
unthought-of
unthought-on
unthought-out
untie the knot
untie the purse strings
untie your hands
until now
until the conclusion of
until then
until this time
until tomorrow
until we meet again
untimely end
unto the ends of the earth
unto yourself
untongue-tied
untouched by evil
untreated mineral
unup-braided
unused to
unutterable sin
unverified report
unverified supposition
unversed in
unwanted person
unwarranted demand
unwed condition
unwed state
unwedded to an opinion
unwelcome guest
unwell-intentioned
unwholesome joy
unwilling to accept
unwilling to forgive and forget
unwinking eye
unwise step
unwished-for
unwitting disclosure
unworm-eaten
unworthy of belief
unworthy of consideration
unworthy of one
unworthy of regard
unworthy person
unwritten constitution
unwritten law
up a stump
up a tree
up against
up against it
up ahead
up and about
up and around
up and at ’em
up and coming
up and die
up and do
up and doing
up and down
up and go
up attic
up for
up for discussion
up for grabs
up for hearing
up for investigation
up for sale
up helm
up in arms
up in the air
up in the world
up left
up north
up oars
up on
up on end
up quark
up right
up steps
up the creek
up the river
up the spout
up the wind
up till
up to
up to date
up to expectation
up to grade
up to now
up to par
up to scratch
up to snuff
up to standard
up to the ears
up to the elbows
up to the eyes
up to the hilt
up to the mark
up to the minute
up to the notch
up to the present
up to the time of
up to this time
up to your ears
up to your ears in
up to your ears in debt
up to your elbows
up to your elbows in
up to your neck in
up town
up your alley
up your pay
up your sleeve
up your street
up-
up-a-daisy
up-anchor
up-and
up-and-coming
up-and-comingness
up-and-doing
up-and-down
up-and-down dial
up-and-down indicator
up-and-downish
up-and-downishness
up-and-downness
up-and-downy
up-and-over
up-and-under
up-and-up
up-bow
up-bow sign
up-chuck
up-country
up-end
up-grade
up-market
up-over
up-page
up-patient
up-put
up-putting
up-see-daisy
up-sky
up-stream
up-stroke
up-to-date
up-to-dately
up-to-dateness
up-to-datish
up-to-datishness
up-to-the-minute
up-trending
up-wind
upas tree
upfeed system
uphill going
uphill work
upholsterer bee
upholsterer's needle
upland cotton
upland hickory
upland plover
uplift brassiere
upmost height
upon condition that
upon even terms
upon oath
upon pain of
upon presentation
upon shares
upon sight
upon something
upon the heels of
upon the hip
upon the point of
upon the whole
upon this bank and shoal of time
upon trust
upon which
upon your hands
upon your honor
upper air
upper arm
upper atmosphere
upper berth
upper bo
upper bound
upper bracket
upper case
upper chamber
upper circles
upper class
upper classes
upper classman
upper crust
upper cut
upper deck
upper extremity
upper frequencies
upper hand
upper house
upper leather
upper limit
upper middle class
upper mordent
upper partial tone
upper regions
upper school
upper semicontinuous function
upper side
upper spanker
upper story
upper ten
upper ten thousand
upper works
upper-case
upper-cased
upper-casing
upper-circle
upper-class
upper-cruster
upper-form
upper-grade
upper-school
uppermost height
uppers and lowers
upright drill
upright piano
upright shave
upright-growing
upright-grown
upright-hearted
upright-heartedness
upright-minded
upright-standing
upright-walking
ups and downs
ups and downs of life
upset one's applecart
upset price
upset stomach
upset the
upset the boat
upset your applecart
upsetting lever
upsetting moment
upsetting thermometer
upside down
upside downward
upside-down
upside-down cake
upside-down flag
upside-downism
upside-downness
upside-downwards
upsilon particle
upstairs and downstairs
upstairs maid
upswept hairdo
upsy-daisy
upsy-freesy
upsy-turvy
upward looking
upward mobility
upward mordent
upward motion
upward strabismus
upward system
upward-borne
upward-bound
upward-gazing
upward-looking
upward-pointed
upward-rushing
upward-shooting
upward-stirring
upward-striving
upward-turning
upwards of
ur washed
ur-
ural-altaic
uralite-gabbro
uralo-
uran-
uranite group
uranium 235
uranium 238
uranium dioxide
uranium glass
uranium lead
uranium nitrate
uranium oxide
uranium ray
uranium reactor
uranium red
uranium series
uranium trioxide
uranium yellow
uranium-radium series
urano-
uranoso-
uranosouranic oxide
uratic arthritis
urban blight
urban blues
urban center
urban complex
urban district
urban economy
urban guerrilla
urban market
urban planner
urban redevelopment
urban renewal
urban sociology
urban sprawl
urbi et orbi
urchin fish
urdor urd
ure-ox
urea ferment
urea formaldehyde
urea frost
urea-formaldehyde
urea-formaldehyde resin
uredo-fruit
ureido group
ureido radical
ureo-
uretero-
uretero-ureterostomy
uretero-uterine
urethr-
urethral arthritis
urethral fever
urethro-
ureylene group
ureylene radical
urge along
urge as a motive
urge on
urge on the mind
urge reasons for
urge upon
urgent need
uric acid
uric-acid
urim and thummim
urin-
urinal fever
urinalysis kit
urinary bladder
urinary calculus
urine analysis
uriniferous tubule
urino-
urinogenital disease
urinogenital ridge
urinogenital sinus
urn burial
urn field
urn moss
urn schemata
urn-buried
urn-cornered
urn-enclosing
urn-shaped
urn-topped
uro-
urogenital disease
urogenital system
urological surgery
uropygial gland
urradhus law
ursa major
ursa minor
ursine dasyure
ursine howler
urucu-rana
urucuri iba
usar grass
usara root
use a light hand
use a light rein
use advisedly
use an experimental sample
use as a doormat
use as a meal ticket
use badly
use district
use faulty grammar
use for your own ends
use force
use force upon
use hindsight
use ill
use inadmissible grammar
use inappropriate grammar
use informal speech
use informal style
use inheritance
use language
use loosely
use materials
use money
use of words
use one's head
use radar
use reason
use tax
use terror tactics
use terroristic tactics
use the gray matter
use the mails
use the mind
use the occasion
use the old bean
use time
use to advantage
use to the full
use tobacco
use unadvisedly
use up
use violence
use your endeavor
use your fine Italian hand
use your good offices
use your head
use your influence
use your option
use your palate
use your wits
use-money
used to
used to keep two parts separated
used up
used with the
used-car lot
used-up
useful consciousness
useful lift
useful load
usher in
usher into the world
usher-in
using up
using-ground
usque ad aras
usual, the
usurp the crown
usurp the mantle
usurp the throne
usus loquendi
ut infra
ut supra
uterine brother
uterine kin
uterine sister
utero-
uti possidetis
utile dulci
utility man
utility plane
utility player
vacation barrister
vacation church school
vacation school
vaccinal fever
vaccine lymph
vaccine point
vaccine rash
vaccine therapy
vaccino-syphilis
vachette clasp
vacuum boiler
vacuum bottle
vacuum brake
vacuum breaker
vacuum bulb
vacuum can
vacuum cleaner
vacuum cleaning
vacuum coffee maker
vacuum concrete
vacuum condenser
vacuum crystallizer
vacuum desiccator
vacuum distillation
vacuum drier
vacuum engine
vacuum evaporating
vacuum fan
vacuum filter
vacuum flask
vacuum gauge
vacuum hammer
vacuum induction furnace
vacuum jar
vacuum kettle
vacuum line
vacuum machine
vacuum oven
vacuum pack
vacuum pan
vacuum phototube
vacuum pump
vacuum separator
vacuum shunt
vacuum still
vacuum strainer
vacuum sweeper
vacuum tank
vacuum tar
vacuum tester
vacuum trap
vacuum tube
vacuum tube components
vacuum tube rectifier
vacuum valve
vacuum ventilation
vacuum vessel
vacuum-clean
vacuum-packed
vacuum-tube circuit
vacuum-tube electrometer
vacuum-tube hearing aid
vacuum-tube voltmeter
vade in pace
vade mecum
vade mecums
vade-mecum
vadium mortuum
vadium vivum
vae victis
vag-
vagabond green
vagino-
vagrant impulse
vague appearance
vague feeling
vague idea
vague memory
vague notion
vague supposition
vague-eyed
vague-ideaed
vague-looking
vague-menacing
vague-minded
vague-phrased
vague-shining
vague-worded
vain attempt
vain expectation
vain person
vain pretensions
vain show
vair en point
vale of tears
vale of years
valedictory address
valence electron
valence electrons
valence formula
valence isomerism
valence number
valence shell
valency electron
valent atoms and radicals
valentine day
valeric acid
valero-
valet de chambre
valet de pied
valet-de-chambre
valet-de-place
valiant knight
valid contract
vallary crown
vallate papilla
vallecular canal
valley board
valley breeze
valley flat
valley lily
valley mahogany
valley oak
valley of the shadow of death
valley partridge
valley quail
valley rafter
valley roof
valley tile
valley train
valley white oak
valley wind
valonia oak
valuable consideration
valuation account
valuation survey
value added
value added tax
value date
value judgment
value received
value stress
value system
value theory
value-added tax
valued at
valued policy
valued-policy law
valval view
valve body
valve box
valve cage
valve cap
valve casing
valve casting
valve chamber
valve chest
valve control
valve coupling
valve cup
valve diagram
valve ellipse
valve file
valve filter
valve fitting
valve gear
valve generator
valve grinder
valve handle
valve housing
valve indicator
valve key
valve line
valve motion
valve plate
valve ring
valve rod
valve seat
valve spring
valve stem
valve tool
valve travel
valve trombone
valve trumpet
valve view
valve washer
valve wrench
valve-grinding
valve-in-head engine
valve-shaped
valvular incompetence
valvular insufficiency
vamp up
vampire bat
van Eyck
van Gogh
van Ruisdael
van attendant
van boy
van builder
van de graaff generator
van der Rohe
van der Waals equation
van der Waals forces
van der Waals' forces
van der Weyden
van driver
van load
van loader
van owner
van't Hoff
van-courier
van-foss
van-john
van-winged hawk
vanadic acid
vanadium bronze
vanadium family
vanadium oxide
vanadium steel
vanadous oxide
vandyke brown
vanilla bean
vanilla chica
vanilla extract
vanilla grass
vanilla leaf
vanilla plant
vanilla pudding
vanille ice
vanillyl alcohol
vanish from sight
vanish into thin air
vanish like a dream
vanishing cream
vanishing fraction
vanishing line
vanishing point
vanishing trace
vanity bag
vanity box
vanity case
vanity fair
vanity lamp
vanity plate
vanity press
vanity unit
vanity-proof
vant-
vantage game
vantage ground
vantage point
vantage post
vantage-ground
vapor bath
vapor bathing
vapor burner
vapor cabinet
vapor cloud
vapor condenser
vapor density
vapor engine
vapor heating
vapor inhaler
vapor jacket
vapor lamp
vapor lock
vapor plane
vapor pressure
vapor regulator
vapor stove
vapor tension
vapor trail
vapor treatment
vapor tube
vapor valve
vapor volume
vapor-belted
vapor-braided
vapor-burdened
vapor-clouded
vapor-filled
vapor-headed
vapor-producing
vapor-sandalled
vaporer moth
vapour density
vapour lock
vapour pressure
vapour trail
vapour-bath
vare widgeon
vari-
vari-coloured
varia lectio
variable annuity
variable capacitor
variable condenser
variable cost
variable density system
variable error
variable field
variable star
variable time fuze
variable-mu tube
variable-reluctance microphone
variable-speed gear
variable-speed motor
variable-time fuse
variae lectiones
variance analysis
variant reading
variation chart
variation compass
variation factor
variation of parameters
variation range
varico-
varicose aneurysm
varicose vein
varicose veins
varied robin
varied thrush
variegated pattern
variegated-leaved
variety hybrid
variety meat
variety shop
variety show
variety store
varifocal lens
vario-
variola porcina
various-blossomed
various-colored
various-formed
various-leaved
variscite green
varix lymphaticus
varnish brush
varnish cleaner
varnish dryer
varnish filler
varnish gum
varnish maker
varnish remover
varnish renovator
varnish resins
varnish sumac
varnish thinner
varnish tree
varnish-drying
varnish-making
varnish-treated
varnish-treating
varnishing day
varsity socks
varsity student
varve-count
varying duty
varying hare
varying-speed motor
vas deferens
vas-
vasa deferentia
vasa murrhina
vasa parrot
vascular bundle
vascular cylinder
vascular hemophilia
vascular plant
vascular ray
vascular tissue
vase clock
vase painter
vase painting
vase rug
vase-shaped
vase-vine
vaso-
vaso-motor
vassal state
vast knowledge
vast-dimensioned
vector for
vector line
vector point function
vector potential
vector product
vector quantity
vector space
vector sum
vedette boat
vedette post
vee tail
veer around
veer off
veer short
veering wind
vegetable albumin
vegetable alkali
vegetable anatomy
vegetable bezoar
vegetable black
vegetable brimstone
vegetable butter
vegetable calomel
vegetable cheese
vegetable dye
vegetable earth
vegetable egg
vegetable ethiops
vegetable existence
vegetable fibrin
vegetable flannel
vegetable garden
vegetable gelatin
vegetable glue
vegetable gold
vegetable hair
vegetable ivory
vegetable jelly
vegetable kingdom
vegetable lamb
vegetable life
vegetable market
vegetable marrow
vegetable mold
vegetable naphtha
vegetable oil
vegetable oils
vegetable orange
vegetable oyster
vegetable parchment
vegetable pathology
vegetable physiology
vegetable plate
vegetable red
vegetable remedies
vegetable resins
vegetable satyr
vegetable sheep
vegetable silk
vegetable soup
vegetable spermaceti
vegetable sponge
vegetable stock
vegetable store
vegetable tallow
vegetable tanning
vegetable wax
vegetable wool
vegetable-eating
vegetable-feeding
vegetable-growing
vegetable-tallow tree
vegetal pole
vegetation daemon
vegetation daimon
vegetation demon
vegetation spirit
vegetation-proof
vegeto-
vehement action
vehicle tank
vehicular tunnel
veil of secrecy
veil-hid
veil-wearing
veiled accusation
veiled in darkness
veiled threat
veiled voice
vein claim
vein dike
vein islet
vein quartz
vein-bearing
vein-healing
vein-mining
vein-streaked
veining tool
velar-pharyngeal
veld cornet
veld sickness
veld sore
veld-kost
velic point
velleda moth
vellum binder
vellum binding
vellum cloth
vellum form
vellum paper
vellum-bound
vellum-covered
vellum-leaved
vellum-papered
vellum-written
velocity co-ordinate
velocity function
velocity head
velocity microphone
velocity modulation
velocity of circulation
velocity of money
velocity peak
velocity potential
velocity ratio
velocity screen
velocity stage
velt-marshall
velvet ant
velvet ash
velvet bean
velvet bent
velvet bur
velvet cap
velvet carpet
velvet cork
velvet darkness
velvet dock
velvet duck
velvet finish
velvet fish
velvet flower
velvet glove
velvet grass
velvet green
velvet groundsel
velvet head
velvet leaf
velvet leather jacket
velvet moss
velvet osier
velvet paper
velvet plant
velvet rug
velvet runner
velvet scoter
velvet sponge
velvet stout
velvet tree
velvet violet
velvet-banded
velvet-bearded
velvet-black
velvet-caped
velvet-clad
velvet-leaved
velvet-pile
velvet-suited
ven-
vena cava
vena contracta
venae contractae
vending machine
veneer grafting
veneer moth
venerable sir
venerable-looking
venereal appetite
venereal desire
venereal disease
venetian blind
venetian blind reflector
venetian glass
venetian red
venga lo que venga
vengeance-crying
vengeance-prompting
vengeance-sated
vengeance-scathed
vengeance-seeking
vengeance-taking
veni-
venial sin
venire de novo
venire facias
venire facias de novo
venom maker
venom-breathing
venom-breeding
venom-cold
venom-fanged
venom-hating
venom-mouthed
venom-spotted
venom-sputtering
venom-venting
venomous-hearted
venomous-looking
venomous-minded
venous blood
venous transfusion
vent drill
vent feather
vent punch
vent stack
vent tank
vent wire
vent your anger
vent your choler
vent your rancor
vent your spleen
vent-hole
vent-peg
ventilate inboard
ventilating apparatus
ventilating blower
ventilating brick
ventilating column
ventilating engineer
ventilating fan
ventilating grate
ventilating jack
ventilating millstone
ventilating shaft
ventilating skylight
ventilating system
ventilation engineer
ventr-
ventral airdome
ventral fin
ventral radome
ventri-
ventricular fibrillation
ventro-
venture a guess
venture capital
venture on
venture to
venture to say
venture upon
venturi tube
venus's-flytrap
veratr-
veratric acid
verb complex
verb phrase
verb sap
verbal adjective
verbal agreement
verbal amnesia
verbal auxiliary
verbal contest
verbal diarrhea
verbal engagement
verbal fallacy
verbal intercourse
verbal noun
verbal response
verbal thrust
verbal translation
verbatim et litteratim
verbena family
verbena oil
verbena violet
verbum sap
verbum sapienti
verbum sat
verd antique
verd gay
verd russe
verd-antique
verdant green
verde antico
verde antique
verdict of acquittal
verdict of guilty
verdict of not guilty
verdigris green
verditer blue
verditer green
verge escapement
verge on
verge paper
verge upon
verge watch
verge-board
verging on
verging upon
vermeil-cheeked
vermeil-dyed
vermeil-rimmed
vermeil-tinctured
vermeil-tinted
vermeil-veined
vermi-
vermiform appendix
vermiform process
vermilion rockfish
vermilion-colored
vermilion-dyed
vermilion-red
vermilion-spotted
vermilion-tawny
vermilion-veined
vermin-covered
vermin-destroying
vermin-eaten
vermin-footed
vermin-haunted
vermin-infested
vermin-ridden
vermin-spoiled
vermin-tenanted
vermouth cassis
vernacular language
vernacular speech
vernal equinox
vernal grass
vernal point
vernal-bearded
vernal-blooming
vernal-flowering
vernal-seeming
vernal-tinctured
verner's law
vernier caliper
vernier dial
vernier engine
vernier micrometer
vernier rocket
vernier scale
vernier telescope
vernix Martin
vernix caseosa
vernonia purple
verruc-
vers de societe
vers de societ
vers libre
vers librist
vers libriste
vers-librist
versatile digit computer
verse anthem
verse service
verse-colored
verse-commemorated
verse-prose
verse-writing
versed cosine
versed in
versed sine
version book
vert russe
vertebral arthritis
vertebral column
vertebro-
vertical amplifier
vertical angle
vertical angles
vertical circle
vertical combination
vertical combinationalness
vertical deflector
vertical distance
vertical engine
vertical envelopment
vertical file
vertical fin
vertical fire
vertical grouping
vertical height
vertical integration
vertical interference
vertical lift bridge
vertical mobility
vertical overlap
vertical radiator antenna
vertical rays
vertical saw
vertical stabilizer
vertical synchronizer
vertical synchronizing pulse
vertical union
vertical-grained
vertical-lift mower
vervain family
vervain hummingbird
vervain mallow
vervain sage
vervain thoroughwort
very beginning
very best
very good
very high frequency
very image
very important person
very light
very like
very likely
very low frequency
very many
very model
very much
very much alive
very picture
very pistol
very reverend
very same
very seldom
very thing
very top
very truth
very well
very-high-frequency
vesica piscis
vesicatory gas
vesico-
vesico-umbilical
vesico-urachal
vesico-ureteral
via-medialism
vials of hate
vials of wrath
viande de boucherie
vibration and stress analyzer
vibration massage
vibration meter
vibration number
vibration point
vibration treatment
vibration-proof
vibratory current
vibratory massage
vibrionic abortion
vibro-
vicar apostolic
vicar capitular
vicar choral
vicar forane
vicar general
vicar of christ
vicar-choralship
vicar-general
vicar-generalship
vicarage tithe
vicariate apostolic
vicariates apostolic
vicarious authority
vicars capitular
vicars choral
vicars forane
vicars-general
vice admiral
vice chancellor
vice presidency
vice president
vice squad
vice versa
vice-
vice-abbot
vice-admiral
vice-admirality
vice-admiralty
vice-admiralty court
vice-agent
vice-apostle
vice-apostolical
vice-marshal
vice-master
vice-ministerial
vice-nature
vice-palatine
vice-papacy
vice-patron
vice-patronage
vice-polluted
vice-pope
vice-porter
vice-postulator
vice-prefect
vice-premier
vice-pres
vice-presidency
vice-president
vice-presidential
vice-presidency
vice-priest
vice-principal
vice-principalship
vice-priory
vice-prone
vice-protector
vice-provost
vice-provostship
vice-punishing
vice-queen
vice-rebuking
vice-rector
vice-rectorship
vice-regal
vice-regalize
vice-regency
vice-regent
vice-reign
vice-residency
vice-resident
vice-secretary
vice-sheriff
vice-sick
vice-squandered
vice-stadtholder
vice-steward
vice-sultan
vice-taming
vice-tenace
vice-throne
vice-treasurer
vice-treasurership
vice-trustee
vice-upbraiding
vice-verger
vice-viceroy
vice-warden
vice-wardenry
vice-wardenship
vice-worn
viceregal assent
vichy water
vicious circle
vicious reasoning
vicissitudes of fortune
vicontiel rent
vicontiel writ
victoria cross
victoria plum
victory garden
victory girl
victory medal
victual rent
victualing bill
victualing house
victualing note
victualing office
victualing ship
victualing station
victualing yard
vida finch
vide ante
vide infra
vide post
vide supra
vide ut supra
video amplifier
video channel
video detector
video frequency
video game
video monitor
video signal
video static
video tape
video tape recorder
video transmitter
video truck
video-gazer
videotape recorder
vie against
vie for
vie with
vienna sausage
view angle
view as
view camera
view finder
view halloo
view hallooo
view in a new light
view in all its phases
view mark
view together
view with a jaundiced eye
view with a scornful eye
view with disfavor
view with favor
view with indulgence
view with the mind's eye
view-halloo
view-point
viewing audience
vigesimal quarto
vigesimal quartos
vigil light
vigilance committee
vigilance man
vigogne yarn
vile language
vile-born
vile-bred
vile-concluded
vile-fashioned
vile-looking
vile-natured
vile-proportioned
vile-smelling
vile-spirited
vile-spoken
vile-tasting
villa-dotted
villa-dwelling
villa-haunted
village cart
village college
village community
village economy
village green
village of the dead
village reserve
village soviet
village-born
village-dwelling
village-lit
villain d
villainous-looking
villainy-proof
villanous saltpetre
villein socage
vin du pays
vin mousseux
vin ordinaire
vin rose
vin rouge
vin-
vin-jaune
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matrimoni
vindicative a claim to
vindicate a right to
vindicate a title to
vine bamboo
vine bark louse
vine beetle
vine black
vine borer
vine bower
vine cactus
vine chafer
vine forester
vine fretter
vine hawk moth
vine hopper
vine leaf
vine leaf folder
vine leek
vine louse
vine maple
vine mesquite
vine mildew
vine misquite
vine moth
vine peach
vine pest
vine sawfly
vine scale
vine slug
vine snake
vine sorrel
vine sphinx
vine tie
vine turner
vine webworm
vine weevil
vine wilt
vine-bearing
vine-bordered
vine-clad
vine-covered
vine-crowned
vine-decked
vine-dresser
vine-encircled
vine-fed
vine-garlanded
vine-growing
vine-hung
vine-laced
vine-leafed
vine-leaved
vine-mantled
vine-planted
vine-producing
vine-robed
vine-shadowed
vine-sheltered
vine-wreathed
vinegar aspect
vinegar eel
vinegar essence
vinegar fly
vinegar lamp
vinegar maker
vinegar making
vinegar mother
vinegar plant
vinegar rot
vinegar tree
vinegar worm
vinegar-faced
vinegar-flavored
vinegar-generating
vinegar-hearted
vinegar-tart
vineyard plow
vingt-et-un
vinho verde
vini-
vino de pasto
vino-
vins ordinaires
vintage car
vintage wine
vintage year
vinyl acetate
vinyl alcohol
vinyl chloride
vinyl ether
vinyl group
vinyl plastic
vinyl polymer
vinyl radical
vinyl resin
vinylidene chloride
vinylidene group
vinylidene radical
vinylidene resin
viol block
viol d'amore
viol d'orchestre
viol da braccio
viol da gamba
viol da spalla
viol di bordone
viol di fagotto
viol family
viola alta
viola bastarda
viola clef
viola d'amore
viola d'amores
viola da braccio
viola da braccios
viola da gamba
viola da gambas
viola da spalla
viola damore
viola di bordone
viola di fagotto
viola pomposa
violate grammar
violate the law
violation of law
viole damour
violent blow
violent change
violent death
violent exercise
violent flow
violent person
violet carmine
violet cress
violet family
violet iris
violet prairie clover
violet ray
violet root
violet root rot
violet sage
violet shell
violet shift
violet tip
violet water
violet wood
violet wood sorrel
violet-black
violet-blind
violet-blindness
violet-bloom
violet-blue
violet-brown
violet-colored
violet-coloured
violet-crimson
violet-crowned
violet-dyed
violet-ear
violet-eared
violet-embroidered
violet-flowered
violet-garlanded
violet-gray
violet-green
violet-green swallow
violet-headed
violet-horned
violet-hued
violet-inwoven
violet-purple
violet-rayed
violet-red
violet-ringred
violet-scented
violet-shrouded
violet-stoled
violet-striped
violet-sweet
violet-tailed
violet-throated
violin bow
violin case
violin clef
violin diapason
violin piano
violin string
violin-shaped
violino piccolo
violoncello piccolo
viper broth
viper gourd
viper grass
viper lozenge
viper wine
viper's bugloss
viper's grass
viper-bit
viper-curved
viper-haunted
viper-headed
viper-mouthed
viper-nourished
vir et uxor
viral dysentery
virgin birth
virgin bower
virgin dip
virgin forest
virgin honey
virgin knot
virgin land
virgin mary
virgin moth
virgin parchment
virgin rosin
virgin scammony
virgin soil
virgin spawn
virgin state
virgin territory
virgin tree
virgin wax
virgin widow
virgin wool
virgin's bower
virgin's milk
virgin's-bower
virgin-born
virgin-eyed
virgin-minded
virgin-vested
virginia cowslip
virginia creeper
virginia fence
virginia reel
virginibus puerisque
virgo intacta
viridine green
viridine yellow
virola tallow
virtual focus
virtual image
virtual storage
virtue-armed
virtue-binding
virtue-loving
virtue-tempting
virtue-wise
virtute et armis
virus disease
virus pneumonia
virus warfare
vis comica
vis inertiae
vis major
vis mortua
vis vitae
vis vitalis
vis viva
vis-a-ns
vis-a-vis
vis-a-visness
viscera itch
visceral leishmaniasis
visceral rheumatism
viscero-
vise cap
vise chuck
vise coupling
visibility curve
visibility meter
visibility unlimited
visibility zero
visible balance
visible horizon
visible radiation
visible spectrum
visible speech
visible-speech data
vision-directed
vision-filled
vision-haunted
vision-seeing
vision-struck
visit at
visit upon
visit with
visitations of providence
visiting book
visiting card
visiting day
visiting fireman
visiting list
visiting nurse
visiting patrol
visiting professor
visiting teacher
visiting ticket
visitor-general
vista of time
visual acuity
visual aid
visual aids
visual arts
visual binary
visual display unit
visual examination
visual field
visual flight
visual flight rules
visual flying
visual humor
visual image
visual joke
visual magnitude
visual memory
visual organ
visual purple
visual range
visual sense
visual tracking station
visual violet
visual yellow
visual-aural radio range
visual-aural range
vita contemplativa
vita glass
vital body
vital capacity
vital center
vital concern
vital energy
vital flame
vital fluid
vital force
vital function
vital impulse
vital interest
vital principle
vital soul
vital spark
vital spirit
vital staining
vital statistics
vitam impendere vero
vitamin A
vitamin A1
vitamin A2
vitamin B
vitamin B complex
vitamin B1
vitamin B12
vitamin B2
vitamin B6
vitamin Be
vitamin C
vitiol chamber
vitiol stone
vitiolated tartar
vitiolized bone
vitro-
vitro-clarain
vitro-di-trina
vitular apoplexy
viva voce
viva voce examination
viva-voce
vivaciousness vivacity
vivacity of imagination
vive l'amour
vive la bagatelle
vive valeque
viverrine cat
viverrine otter
vivi-
vivid description
vivid image
vivid imagination
vizard maker
vizard making
vizard mask
vizard-faced
vizard-hid
vizard-mask
vizard-wearing
voa vanga
vocabulary entry
vocabulary test
vocal band
vocal bands
vocal chink
vocal cord
vocal cords
vocal fold
vocal folds
vocal fremitus
vocal lip
vocal minority
vocal music
vocal organ
vocal process
vocal processes
vocal resonance
vocal sac
vocal score
vocalic alliteration
vocational advisor
vocational council
vocational counselor
vocational director
vocational education
vocational guidance
vocational school
vocational therapy
vocational training
voce di petto
voce di testa
voce velata
vodka martini
vogue la galere
vogue word
voice box
voice coil
voice glide
voice glottis
voice key
voice leading
voice of conscience
voice of the tempter
voice part
voice placing
voice qualifier
voice quality
voice stop
voice tube
voice vote
voice-leading
voice-over
voiced breath
voiced sound
voiceless glide
voiceless sound
void end
void of
void of truth
void space
voided cross
voided lozenge
voir dire
voir en couleur de rose
voix celeste
voix celeste
vol-au-vent
volant piece
volar accessory ligament
volar carpal ligament
volatile alkali
volatile liniment
volatile oil
volatile salt
volcanic ash
volcanic bomb
volcanic cloud
volcanic cone
volcanic dust
volcanic glass
volcanic lake
volcanic pipe
volcanic plug
volcanic rock
volcanic tuff
volcanic water
volcanic wind
volcano fish
volitional tremor
volley fire
volt box
volt-ammeter
volt-ampere
volt-ampere-hour meter
volt-coulomb
volt-ohm meter
volt-ohm-milliammeter
volt-second
volta's pile
volta-
voltage amplification
voltage changer
voltage coil
voltage divider
voltage gradient
voltage indicator
voltage pulse
voltage ratio
voltage regulator
voltage relay
voltage saturation
voltage stabilizer
voltage transformer
voltage-reference tube
voltage-regulator tube
voltaic battery
voltaic cell
voltaic circuit
voltaic couple
voltaic current
voltaic electricity
voltaic pile
voltameter law
volte-face
voltmeter-milliammeter
voluble-tongued
volume color
volume control
volume density
volume displacement
volume engineer
volume indicator
volume integral
volume measure
volume measures
volume production
volume resistance
volume table
volume velocity
volume-produce
volume-produced
volumetric analysis
volumetric flask
volumetric solution
volumetric strain
voluntary affidavit
voluntary association
voluntary bankruptcy
voluntary conveyance
voluntary escape
voluntary hospital
voluntary improvement
voluntary inaction
voluntary jurisdiction
voluntary manslaughter
voluntary muscle
voluntary muscles
voluntary oath
voluntary poverty
voluntary resignation
voluntary school
voluntary waste
volunteer army
volunteer fireman
volunteer militia
volunteer navy
volunteer soldier
volunteers of america
volute centrifugal pump
volute compass
volute pump
volute spring
volutin granule
vomerine cartilage
vomic nut
vomit forth
vomit nut
vomit out
vomiting center
vomiting gas
vomito negro
von Braun
von Neumann
von Sternberg
vortex atom
vortex filament
vortex fringe
vortex line
vortex plate
vortex ring
vortex sheet
vortex theory
vortex tube
vortex wheel
vortical motion
votary candle
vote affirmatively
vote against
vote aye
vote checking
vote counter
vote down
vote for
vote in
vote in the negative
vote nay
vote negatively
vote-bringing
vote-buying
vote-casting
vote-catching
voter-preference survey
voting age
voting bond
voting booth
voting machine
voting paper
voting right
voting stock
voting trust
voting-right certificate
votive candle
votive mass
votive medal
votive offering
votive office
vouch for
vouched for
voucher check
voucher register
voucher system
vouchers payable
vousoir-shaped
vow-bound
vow-breaking
vow-keeping
vow-pledged
vowel flame
vowel gradation
vowel harmony
vowel mutation
vowel point
vowel quantity
vowel rhyme
vowel system
vows of poverty
vox angelica
vox barbara
vox caelestis
vox et praeterea nihil
vox humana
vox pop
vox populi
vox populi vox Dei
voyage policy
vrai reseau
vt fuze
vulcanite grinding wheel
vulcanite pavement
vulcanized fiber
vulcanized rubber
vulgar era
vulgar establishment
vulgar fellow
vulgar fraction
vulgar language
vulgar latin
vulgar person
vulgar purgation
vulgar substitution
vulgar taste
vulgar tongue
vulnerable place
vulnerable point
vulnerable to
vulnerant omnes ultima necat
vulpine opossum
vulture hock
vulture raven
vulture-beaked
vulture-gnawn
vulture-hocked
vulture-rent
vulture-torn
vulture-tortured
vulture-winged
vulturine eagle
vulturine guinea fowl
vulturine sea eagle
vulvo-
w will
wabble saw
waberan-leaf
wabert-leaf
wad hook
wad up
wade an
wade in
wade into
wade knee-deep in blood
wade through
wading bird
wading pool
wafer mel wadmol
wafer ash
wafer bread
wafer cake
wafer capsule
wafer cutter
wafer iron
wafer paper
wafer sheet
wafer stamp
wafer tong
wafer-sealed
wafer-thin
wafer-torn
waffle cloth
waffle ingot
waffle iron
waft on the ear
wag the tongue
wag-on-the-wall
wag-tongue
wage board
wage capital
wage contract
wage control
wage earner
wage earning
wage fixing
wage freeze
wage fund
wage labor
wage level
wage paying
wage peace
wage rate
wage reduction
wage rollback
wage scale
wage slave
wage slavery
wage system
wage war
wage-fund theory
wage-plug
wager policy
wagering contract
wages after deductions
wages after taxes
wages fund
wages plus fringe benefits
wages-man
waggish trick
wagon-headed
wagh down
waging board
wagon bed
wagon boiler
wagon boss
wagon box
wagon breast
wagon ceiling
wagon filler
wagon greaser
wagon gun
wagon hammer
wagon jobber
wagon lock
wagon master
wagon road
wagon roof
wagon seat
wagon shed
wagon shoe
wagon soldier
wagon table
wagon tent
wagon tongue
wagon top
wagon track
wagon trail
wagon train
wagon tree
wagon truck
wagon vault
wagon wheel
wagon yard
wagon-headed
wagon-lit
wagon-roofed
wagon-shaped
wagon-spring clock
wagon-vaulted
wagtail flycatcher
waifs and strays
waika chewstick
wail of woe
wailing wall
wainscot chair
wainscot oak
wainscot-faced
wainscot-joined
wainscot-paneled
waist anchor
waist belt
waist board
waist boat
waist boater
waist gun blister
waist strap
waist tree
waist-deep
waist-high
waist-pressing
waist-slip
wait a minute
wait a second
wait and see
wait and see policy
wait fee
wait for
wait for something to turn up
wait impatiently
wait it out
wait on
wait on hand and foot
wait out the market
wait service
wait table
wait to see how the cat jumps
wait to see how the wind blows
wait up
wait up for
wait upon
wait with bated breath
wait-a-bit
wait-awhile
waiter on Providence
waiter-on
waiting concealed
waiting for
waiting game
waiting it out
waiting list
waiting maid
waiting man
waiting period
waiting room
waiting woman
waiver of premium
wake current
wake dirge
wake up
wake-robin
wake-up
wakeless sleep
waking dream
waking time
waldorf salad
wale knot
wale shore
walk a middle path
walk all over
walk away
walk away with
walk clerk
walk hand in hand with
walk humbly with your God
walk in darkness
walk in the shoes of
walk in your sleep
walk into
walk of life
walk off
walk off with
walk off with the game
walk on air
walk on eggshells
walk on hot coals
walk out
walk out on
walk over
walk over the course
walk the earth
walk the plank
walk the straight path
walk the tracks
walk the waters
walk up
walk-around
walk-down
walk-in
walk-in apartment
walk-in closet
walk-on
walk-over
wall bed
wall bee
wall box
wall bracket
wall bugloss
wall cabbage
wall cabinet
wall card
wall clamp
wall crane
wall creeper
wall cress
wall engine
wall fern
wall frame
wall fruit
wall garden
wall gecko
wall germander
wall gillyflower
wall grass
wall green
wall grenade
wall hanging
wall hawkweed
wall hold
wall hook
wall in
wall iron
wall knot
wall link
wall lizard
wall molding
wall mustard
wall of secrecy
wall off
wall painting
wall pass
wall pellitory
wall penny grass
wall pennywort
wall pepper
wall pie
wall plate
wall plug
wall pocket
wall rock
wall rocket
wall rue
wall rue spleenwort
wall saltpeter
wall socket
wall speedwell
wall spleenwort
wall street
wall telephone
wall tent
wall tower
wall up
wall wasp
wall-bound
wall-cheeked
wall-climbing
wall-defended
wall-drilling
wall-encircled
wall-eyed
wall-fed
wall-fight
wall-girt
wall-hanging
wall-inhabiting
wall-knot
wall-less
wall-like
wall-loving
wall-piece
wall-piercing
wall-plat
wall-scaling
wall-shaking
wall-sided
wall-to-wall
wall-to-wall carpet
wallaby acacia
wallaby bush
wallaby grass
wallaby-proof
walled plain
walled-in
walled-up
walleye pollack
walleye pollock
walleyed pike
wallflower brown
walling crib
walling wax
walling-in
wallow in
wallow in ignorance
wallow in the mire
wallow in wealth
wallowing in wealth
walnut blight
walnut borer
walnut brown
walnut case-bearer
walnut caterpillar
walnut curculio
walnut family
walnut juice
walnut moth
walnut oil
walnut scale
walnut shell
walnut spanworm
walnut sphinx
walnut tree
walnut weevil
walnut worm
walnut-brown
walnut-finished
walnut-framed
walnut-inlaid
walnut-paneled
walnut-shell
walnut-stained
walnut-trimmed
walpurgis night
walrus bird
walrus moustache
walrus mustache
waltz Matilda
waltz measure
waltz off with
waltz song
waltz time
waltzing Matilda
waltzing mouse
wamble-cropped
wamper-jawed
wampum belt
wampum snake
wan-
wan-cheeked
wan-colored
wan-worn
wand bearer
wand of office
wand shoot
wand shooting
wand shot
wand-bearing
wand-shaped
wand-waving
wander from
wander from the subject
wander termite
wander-year
wandering Jew
wandering albatross
wandering ant
wandering cell
wandering course
wandering dervish
wandering dune
wandering electron
wandering jenny
wandering jew
wandering minstrel
wandering path
wandering scholar
wandering soul
wandering star
wandering tattler
wane cloud
wangle into
wangle out of
waning crescent moon
waning moon
wankel engine
want ad
want doing
want in
want in the worst way
want list
want to
want to know
want with all your heart
want-wit
wantage rod
wanted-right-hand
wanting to fly in the air
wanton cruelty
wanton ringlets wav'd
wanton-cruel
wanton-eyed
wanton-mad
wanton-sick
wanton-tongued
wanton-winged
wapper-eyed
wapper-jawed
war baby
war bag
war bird
war bond
war bonnet
war book
war boom
war boomerang
war bow
war bride
war cabinet
war cart
war cheat
war chest
war cloud
war clouds
war club
war college
war correspondent
war crime
war crimes
war criminal
war cross
war cry
war dance
war debt
war dog
war drum
war eagle
war economy
war flame
war footing
war galley
war game
war gas
war god
war goddess
war gods
war guilt
war hammer
war hat
war hawk
war head
war horse
war hound
war lord
war machine
war medal
war memorial
war neurosis
war of attrition
war of independence
war of movement
war of national liberation
war of nerves
war of position
war of the elements
war of words
war office
war paint
war party
war plans
war power
war proof
war rebel
war risk
war risk insurance
war rocket
war scare
war school
war scythe
war service chevron
war song
war spirit
war stamp
war surplus
war to end war
war traitor
war vessel
war whoop
war zone
war-appareled
war-blasted
war-breathing
war-breeding
war-broken
war-denouncing
war-dight
war-disabled
war-dreading
war-fain
war-famed
war-god
war-goddess
war-hawk
war-horse
war-savings certificate
war-savings stamp
war-tax stamp
war-time
war-weary
war-whoop
war-wolf
warble fly
warbler green
warbling vireo
ward heeler
ward hill
ward of the state
ward off
ward politics
ward-walk
warden court
warden pie
wardian case
warding file
wardmote court
wardmote quest
wardour-street
wardrobe bed
wardrobe case
wardrobe dealer
wardrobe trunk
ware cleaner
ware goose
ware grinder
ware sorter
warehouse bond
warehouse boy
warehouse clerk
warehouse foreman
warehouse receipt
warehouse sorter
warehouse truck
warlike spirit
warm as toast
warm assent
warm body
warm color
warm friend
warm friendship
warm front
warm heart
warm imagination
warm man
warm over
warm sector
warm spot
warm spring
warm temper
warm the bency
warm the blood
warm the cockles of the heart
warm the spirits
warm up
warm weather
warm welcome
warm work
warm-backed
warm-blooded
warm-breathed
warm-clad
warm-colored
warm-complexioned
warm-contested
warm-glowing
warm-headed
warm-hearted
warm-kept
warm-lying
warm-reeking
warm-sheltered
warm-tempered
warm-tinted
warm-up
warm-working
warm-wrapped
warmed over
warmed up
warmed-over
warmed-over cabbage
warrior ant
warrior bush
warsaw grouper
wart cress
wart disease
wart grass
wart hog
wart snake
wart spurge
warted gourd
warted grass
warted spurge
wartime footing
warts and all
warty egg
warty-faced honey eater
wary-eyed
wary-footed
wary-looking
wash and wear
wash ball
wash barrel
wash bear
wash boiler
wash boring
wash coat
wash down
wash drawing
wash gilding
wash goods
wash leather
wash mill
wash miller
wash oil
wash out
wash pitcher
wash sale
wash sales
wash strake
wash up
wash water
wash your dirty linen in public
wash your hands of
wash your sins away
wash-and-wear
wash-and-wear fabric
wash-bear
wash-colored
wash-hand
wash-house
wash-in
wash-leather
wash-mouth
wash-out
wash-pot
wash-up
wastable paint
washboard road
washed metal
washed out
washed sale
washed up
washed-out
washed-up
washing bear
washing bottle
washing crystal
washing engine
washing equipment
washing machine
washing maid
washing out
washing pot
washing powder
washing soda
washing tub
washing up
washing-up
washing-out
washington pie
washington's birthday
washout process
washrag gourd
wasp ant
wasp bee
wasp beetle
wasp fly
wasp nest
wasp spider
wasp waist
wasp's nest
wasp-barbed
wasp-minded
wasp-stung
wasp-waisted
wasp-waistedness
wassail bowl
watch and wait
watch and ward
watch bell
watch bracelet
watch cap
watch chain
watch cleaner
watch coat
watch crystal
watch fire
watch fob
watch for
watch for your moment
watch glass
watch guard
watch it
watch meeting
watch movement
watch night
watch officer
watch out
watch out for
watch over
watch pocket
watch repairer
watch screw thread
watch spring
watch tackle
watch television
watch your step
watch your weight
watch-glass
watch-making
watch-night service
watchet-colored
watchful eye
watchful waiting
watching and waiting
watching brief
watching for
watching rate
watchman beetle
watchman's clock
watchman's rattle
water adder
water agrimony
water aloe
water arum
water avens
water awlwort
water back
water bag
water ballet
water bath
water bear
water bearer
water bed
water beetle
water bench
water bewitched
water bird
water biscuit
water blister
water bloom
water blue
water boat
water boatman
water bog rush
water bomb
water bottle
water bouget
water boy
water brash
water breather
water budget
water buffalo
water bug
water butt
water caltrop
water cannon
water carrier
water channel
water chestnut
water chinquapin
water clock
water closet
water color
water conservation
water cooler
water crake
water cress
water crowfoot
water cure
water cycle
water diviner
water dog
water down
water dropwort
water farmer
water fern
water fever
water flag
water flea
water flow
water fountain
water foxtail
water frame
water frontage
water furrow
water gap
water gas
water gate
water gauge
water gilder
water gilding
water glass
water god
water gods
water grass
water gum
water gun
water hair grass
water hammer
water hawthorn
water heater
water hemlock
water hen
water hole
water holly
water horehound
water hyacinth
water ice
water jacket
water jump
water kelpie
water leaf
water lemon
water lettuce
water level
water light
water lily
water lily tulip
water line
water locust
water loss
water main
water marigold
water meadow
water meadow grass
water meter
water milfoil
water mill
water mink
water mint
water moccasin
water mold
water motor
water nymph
water oak
water oat
water oats
water of ayr
water of crystallization
water of hydration
water of life
water off a duck's back
water oleander
water opossum
water ouzel
water oven
water ox
water paint
water parting
water pepper
water pimpernel
water pipe
water pipit
water pistol
water plantain
water platter
water plug
water poa
water pocket
water polo
water poppy
water power
water pox
water pump
water pumper
water purslane
water rail
water rat
water reed
water rice
water right
water sapphire
water scorpion
water set
water shield
water shrew
water skater
water ski
water sky
water slide
water smoke
water snail
water snake
water snowflake
water softener
water soldier
water sound
water spaniel
water spider
water spirit
water spot
water sprite
water sprout
water starwort
water strider
water supply
water system
water table
water tare grass
water target
water telescope
water thrush
water ton
water tortoise
water torture
water tower
water trap
water travel
water treatment
water vapor
water vapour
water vole
water wagon
water wagtail
water wave
water wheel
water willow
water wings
water witch
water witcher
water witching
water works
water-bag
water-bailage
water-bailiff
water-base paint
water-bath
water-bearer
water-bearing
water-beaten
water-bed
water-bind
water-borne
water-bound
water-brain
water-break
water-breathing
water-broken
water-buck
water-butt
water-can
water-carriage
water-carrier
water-cart
water-caster
water-clock
water-closet
water-color
water-colored
water-colorist
water-colour
water-commanding
water-consolidated
water-cool
water-cooled
water-cress
water-cressy
water-cure
water-dog
water-drinker
water-drinking
water-drop
water-dwelling
water-engine
water-fast
water-fennel oil
water-finished
water-flood
water-flowing
water-free
water-front
water-fronter
water-furrow
water-gall
water-galled
water-gas
water-gas tar
water-gate
water-gild
water-girt
water-glass
water-glass painting
water-gray
water-growing
water-gruel
water-gruellish
water-hammer
water-hen
water-hole
water-horse
water-ice
water-inch
water-jacket
water-jacketing
water-jelly
water-jet
water-laid
water-lane
water-level
water-lily
water-lily family
water-lily tree
water-line
water-line model
water-lined
water-living
waterlogged
water-loving
water-mark
water-meadow
water-measure
water-melon
water-milfoil family
water-mill
water-mint
water-nut family
water-nymph
water-packed
water-pipe
water-plantain family
water-pot
water-power engineering
water-pumping
water-purpie
water-quenched
water-rat
water-repellant
water-repellent
water-resistant
water-ret
water-rolled
water-rot
water-seal
water-sealed
water-season
water-shield family
water-shot
water-sick
water-ski
water-skied
water-skiing
water-slaked lime
water-smoke
water-soak
water-soaked
water-soluble
water-souchy
water-spout
water-spring
water-standing
water-starwort family
water-stream
water-struck
water-supply
water-supply engineer
water-supply engineering
water-sweet
water-table
water-tube boiler
water-vascular
water-vascular system
water-wagtail
water-washed
water-wave
water-waved
water-waving
water-way
water-weed
water-wheel
water-white
water-witch
waterborne infection
watered fabric
watered silk
watered steel
watered stock
watered-down
waterglass painting
watering can
watering hole
watering place
watering pot
watering-place
watering-pot
watering-pot shell
waterless cooker
waterproofing salt
waters of Lethe
waters of bitterness
waters of oblivion
watertight integrity
watertube boiler
watery grave
watery-colored
watery-eyed
watery-headed
watt current
watt-hour
watt-hour meter
watt-second
wattle and dab
wattle and daub
wattle bark
wattle crow
wattled bee eater
wattled crow
wattled honey eater
wattled lapwing
wattled stare
wattless current
wave a flag
wave a wand
wave antenna
wave band
wave changer
wave cyclone
wave down
wave drag
wave equation
wave form
wave front
wave function
wave guide
wave mechanics
wave molding
wave motion
wave number
wave phenomenon
wave scroll
wave surface
wave system
wave telegraphy
wave telephony
wave the arms
wave the bloody shirt
wave the hand
wave the white flag
wave theory
wave top
wave train
wave trap
wave wheel
wave winding
wave-cut
wave-cut platform
wave-encircled
wave-form
wave-form theory
wave-green
wave-haired
wave-hollowed
wave-lashed
wave-laved
wave-like
wave-line
wave-making
wave-moist
wavering flame
wavering light
waving of the bloody shirt
wavy-coated
wavy-edged
wavy-grained
wavy-haired
wavy-leaved
wavy-toothed
waw consecutive
waw conversive
waw-waw
wax and wane
wax bean
wax bleacher
wax brown
wax candle
wax cloth
wax cluster
wax end
wax figure
wax flower
wax gland
wax gourd
wax insect
wax jack
wax light
wax modeler
wax modeling
wax moth
wax myrtle
wax palm
wax paper
wax pink
wax privet
wax tablet
wax tree
wax worm
wax-bearing
wax-billed
wax-chandler
wax-coated
wax-colored
wax-composed
wax-covered
wax-ended
wax-erected
wax-extracting
wax-featured
wax-finished
wax-forming
wax-headed
wax-jointed
wax-lighted
wax-polished
wax-producing
wax-red
wax-rubbed
wax-secreting
wax-shot
wax-stitched
wax-tipped
wax-topped
wax-white
wax-yellow
waxed paper
waxed tablet
waxing crescent moon
waxing moon
way back
way baggage
way beam
way bennet
way bent
way car
way chain
way enough
way freight
way in
way of dealing
way of escape
way of holding yourself
way of life
way of looking at things
way of putting
way of saying
way of seeing
way of speaking
way of the cross
way of thinking
way of understanding
way of walking
way off
way out
way passenger
way point
way shaft
way station
way thistle
way ticket
way train
way wire
way-beguiling
way-bill
way-clearing
way-down
way-god
way-haunting
way-off
way-out
way-up
way-weary
way-wise
way-wiser
way-worn
wayfaring tree
wayfaring-tree
waygoing crop
wayleave rent
ways and means
ways of the fathers
wayside cross
we happy few
we'll see you
we-all
we-group
we-ship
we-uns
weak accumulation poi
weak as a baby
weak as a chicken
weak as a child
weak as a drink of water
weak as a kitten
weak as a mouse
weak as a rained-on bee
weak as milk and water
weak as water
weak derived set
weak ego
weak ending
weak in the upper story
weak interaction
weak knees
weak link
weak market
weak personality
weak point
weak side
weak sister
weak soul
weak stress
weak tool
weak will
weak-ankled
weak-armed
weak-backed
weak-bodied
weak-built
weak-chested
weak-chined
weak-chinned
weak-eyed
weak-fibered
weak-headed
weak-headedly
weak-headedness
weak-hinged
weak-jawed
weak-kneed
weak-kneedly
weak-kneedness
weak-legged
weak-limbed
weak-lunged
weak-minded
weak-mindedly
weak-mindedness
weak-nerved
weak-pated
weak-spirited
weak-spiritedly
weak-spiritedness
weak-stemmed
weak-stomached
weak-toned
weak-voiced
weak-willed
weak-winged
weakengrow weak
weaker sex
weaker vessel
weakness comparisons
weakness of the flesh
wealth tax
wealth-encumbered
wealth-fraught
wealth-getting
wealth-yielding
wealthy man
wean from
wean your thoughts from
wean yourself from
weaning brash
weapons of mass destruction
wear a hairshirt
wear a mask
wear an earnest frown
wear and tear
wear away
wear back
wear blinkers
wear down
wear horns
wear iron
wear land
wear limit gauge
wear mourning
wear off
wear on
wear out
wear out your welcome
wear ragged
wear sackcloth
wear sackcloth and ashes
wear ship
wear short
wear the cloth
wear the crown
wear the horn
wear the look of
wear the pants
wear the uniform
wear thin
wear upon
wear upon one
wear well
wear you down
wear your heart on your sleeve
wear your heart upon your sleeve
wear-out
wearer of the cap and bells
weariness of life
wearing a hairshirt
wearing a sackcloth
wearing a sackcloth and ashes
wearing apparel
wearing arms
wearing away
wearing course
wearing down
wearisome sameness
wearisome trip
weary for
weary of life
weary to death
weary unto death
weary waste
weary-foot
weary-footed
weary-laden
weary-looking
weary-winged
weary-worn
weasel cat
weasel coot
weasel lemur
weasel out
weasel spider
weasel word
weasel words
weasel-faced
weasel-worded
weather anchor
weather back
weather balloon
weather bow
weather box
weather breeder
weather bureau
weather cast
weather caster
weather chart
weather cloth
weather deck
weather eye
weather forecast

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 15261
weather forecaster
weather front
weather gall
weather gauge
weather helm
weather house
weather instrument
weather joint
weather map
weather out
weather prophet
weather rail
weather reconnaissance
weather reconnaissance plane
weather report
weather roll
weather satellite
weather science
weather scientist
weather sheet
weather ship
weather side
weather signal
weather slating
weather stain
weather station
weather strip
weather stripping
weather tack
weather the storm
weather tide
weather vane
weather wheel
weather wisdom
weather-battered
weather-beaten
weather-bitt
weather-bitten
weather-bound
weather-breeding
weather-driven
weather-eaten
weather-eye
weather-fagged
weather-fast
weather-fend
weather-free
weather-glass
weather-going tide
weather-guard
weather-hardened
weather-headed
weather-reporting network
weather-scarred
weather-slated
weather-stayed
weather-strip
weather-stripped
weather-stripping
weather-tanned
weather-wasted
weather-wise
weatherboard house
weathered joint
weathered oak
weave bead
weave peace between
weave your way
weaver finch
weaver shell
weaver's hitch
weaver's knot
weazen-faced
web foot
web frame
web glazing
web lead
web maker
web member
web of intrigue
web perfecting press
web press
web printing
web saw
web spinner
web stiffener
web wheel
web-beam
web-fed
web-fed press
web-fingered
web-foot
web-footed
web-footedness
web-glazed
web-perfecting
wedged-tailed
wedging crib
wee bit
wee doch-an-dorrach
wee folk
wee tot
wee-wee
weed killer
weed out
weed tree
weed-choked
weed-cutting
weed-entwined
weed-fringed
weed-grown
weed-hidden
weed-hook
weed-hung
weed-killer
weed-killing
weed-ridden
weed-spoiled
weeded out
weeder clips
weeder hoe
weedy-bearded
weedy-haired
weedy-looking
week work
week-end
week-long
week-old
week-work
weekend bag
weekly newspaper
weekly payments
weeny-bopper
weep for
weep hole
weep over
weep with
weep with them that weep
weeping and gnashing of teeth
weeping ash
weeping beech
weeping cross
weeping eczema
weeping golden bell
weight down with
weight down with ornament
weight lifter
weight lifting
weight playing
weight voltmeter
weight watcher
weight-bearing
weight-carrying
weight-lifting
weight-measuring
weight-raising
weight-resisting
weight-watch
weight-watching
weighted down
weighting down
weir basin
weir box
weird sisters
weird-fixed
weird-looking
weird-set
weiss beer
welch plug
welcome as the roses in May
welcome mat
welcome release
welcome wagon
weld metal
welder's mask
welding blowpipe
welding engineer
welding powder
welding rod
welding torch
welfare aid
welfare capitalism
welfare cases
welfare client
welfare clients
welfare families
welfare payments
welfare program
welfare rolls
welfare state
welfare stater
welfare statism
welfare statist
welfare work
welfare worker
welkin eye
welkin-high
well I never
well I never!
well afford
well and good
well boat
well borer
well casing
well cress
well decker
well done
well driller
well drilling
well enough
well fern
well house
well in
well in hand
well log
well met
well off
well out
well out of
well over
well provided for
well rig
well room
well shrimp
well sinker
well smack
well staircase
well sweep
well to do in the world
well to live
well to pass
well tomb
well trap
well turned-out
well up on
well vessel
well water
well worship
well worth the money
well-able
well-abolished
well-abounding
well-absorbed
well-abused
well-accented
well-accentuated
well-accepted
well-accommodated
well-accompanied
well-accomplished
well-according
well-accoutered
well-accredited
well-accumulated
well-acquainted
well-acknowledged
well-acquired
well-acted
well-adapted
well-addicted
well-addressed
well-adjusted
well-administered
well-admitted
well-adopted
well-adorned
well-advanced
well-adventured
well-advertised
well-advertized
well-advised
well-advocated
well-affected
well-affectededness
well-affectioned
well-affirmed
well-afforded
well-aged
well-agreed
well-agreeing
well-aimed
well-aired
well-alleged
well-allied
well-allotted
well-allowed
well-alphabetized
well-altered
well-amended
well-amused
well-analysed
well-analyzed
well-ancestored
well-anchored
well-anear
well-ankled
well-annealed
well-annotated
well-announced
well-anointed
well-answered
well-anticipated
well-appareled
well-apparelled
well-appearing
well-applauded
well-applied
well-appointed
well-appointedly
well-appointedness
well-appreciated
well-approached
well-appropriated
well-approved
well-arbitrated
well-arched
well-argued
well-armed
well-armored
well-armoured
well-aroused
well-arranged
well-arrayed
well-articulated
well-ascertained
well-assembled
well-asserted
well-assessed
well-assigned
well-assimilated
well-assisted
well-associated
well-assorted
well-assumed
well-assured
well-attached
well-attained
well-attempered
well-attempted
well-attended
well-attending
well-attested
well-attired
well-attested
well-authorized
well-averaged
well-avoided
well-awakened
well-awarded
well-aware
well-baby clinic
well-backed
well-baked
well-balanced
well-balanced mind
well-baled
well-bandaged
well-bang
well-banked
well-barbered
well-bargained
well-base rim
well-based
well-bathed
well-batted
well-bearing
well-beaten
well-becoming
well-bedded
well-befitting
well-begotten
well-begun
well-behated
well-behaved
well-being
well-beknown
well-believed
well-believing
well-beloved
well-beneficed
well-bent
well-beseemingly
well-bespooken
well-bested
well-bestowed
well-blacked
well-blended
well-blent
well-blessed
well-blooded
well-blown
well-bodied
well-boding
well-boiled
well-bonded
well-boned
well-booted
well-bored
well-boring
well-born
well-borne
well-bottled
well-bottomed
well-bought
well-bound
well-bowled
well-boxed
well-braced
well-braided
well-branched
well-branded
well-branned
well-breasted
well-breathed
well-bred
well-bredness
well-brewed
well-bricked
well-bridged
well-broken
well-brooked
well-brought-up
well-browed
well-browned
well-brushed
well-built
well-buried
well-burned
well-burnished
well-burnt
well-bushed
well-busied
well-buttoned
well-caked
well-calculated
well-calculating
well-calked
well-called
well-calved
well-camouflaged
well-caned
well-canned
well-canvassed
well-cared-for
well-carpeted
well-carved
well-cased
well-cast
well-caught
well-cautioned
well-celebrated
well-cemented
well-censured
well-centered
well-centred
well-certified
well-chained
well-changed
well-chaperoned
well-characterized
well-charged
well-charted
well-chauffeured
well-checked
well-cheered
well-cherished
well-chested
well-chewed
well-chilled
well-choosing
well-chopped
well-chosen
well-chosen moment
well-churned
well-circularized
well-circulated
well-circumstanced
well-civilized
well-clad
well-classed
well-classified
well-cleansed
well-cleared
well-climaxed
well-cloaked
well-cloistered
well-closed
well-closing
well-clothed
well-coached
well-coated
well-coined
well-collected
well-colonized
well-colored
well-coloured
well-combed
well-combined
well-commanded
well-commenced
well-commended
well-committed
well-communicated
well-compactled
well-compared
well-compassed
well-compensated
well-compiled
well-completed
well-complexioned
well-composed
well-comprehended
well-concealed
well-conceded
well-conceived
well-concentrated
well-concerted
well-concluded
well-concocted
well-concorded
well-condensed
well-conditioned
well-conducted
well-conferred
well-confessed
well-confided
well-confirmed
well-connected
well-conned
well-consenting
well-conserved
well-considered
well-consoled
well-consoled
well-consorted
well-constituted
well-constricted
well-constructed
well-construed
well-contained
well-content
well-contented
well-contested
well-continued
well-contracted
well-contrasted
well-contrived
well-controlled
well-conveyed
well-convinced
well-cooked
well-cooled
well-coordinated
well-copied
well-corked
well-corrected
well-corseted
well-costumed
well-couched
well-counselled
well-counselled
well-counted
well-counterfeited
well-coupled
well-courted
well-covered
well-cowed
well-crammed
well-crated
well-credited
well-cress
well-crested
well-criticized
well-crocheted
well-cropped
well-crossed
well-crushed
well-cultivated
well-cultured
well-curbed
well-cured
well-curved
well-cushioned
well-cut
well-cutting
well-damped
well-danced
well-darkened
well-darned
well-dealing
well-dealt
well-debated
well-deceived
well-decided
well-deck
well-decked
well-declaimed
well-decorated
well-decreed
well-deeded
well-defended
well-deferred
well-defined
well-delayed
well-deliberated
well-delineated
well-delivered
well-demeaned
well-demonstrated
well-denied
well-depicted
well-derived
well-descended
well-described
well-deserved
well-deserved punishment
well-deservedly
well-deserver
well-deserving
well-deservingness
well-designated
well-designed
well-designing
well-desired
well-destroyed
well-developed
well-devised
well-diagnosed
well-diffused
well-digested
well-directed
well-disbursed
well-disciplined
well-discounted
well-discussed
well-disguised
well-dish
well-dispersed
well-displayed
well-disposed
well-disposedly
well-disposedness
well-dispositioned
well-disputed
well-dissected
well-dissembled
well-dissipated
well-distanced
well-distinguished
well-distributed
well-diversified
well-divided
well-divined
well-documented
well-doer
well-doing
well-domesticated
well-dominated
well-done
well-dosed
well-drafted
well-drain
well-drained
well-dramatized
well-drawn
well-executed
well-exemplified
well-exercised
well-exerted
well-exhibited
well-expended
well-experienced
well-explained
well-explicated
well-exploded
well-exposed
well-expressed
well-fabricated
well-faced
well-faded
well-famed
well-fancied
well-farmed
well-fashionable
well-fastened
well-fatted
well-favored
well-favorably
well-favoredness
well-favoured
well-favouredness
well-feasted
well-feathered
well-featured
well-fed
well-feed
well-feigned
well-felt
well-fenced
well-fended
well-fermented
well-fielded
well-filed
well-filled
well-filmed
well-filtered
well-financed
well-fined
well-finished
well-fitted
well-fitting
well-fixed
well-flanked
well-flattered
well-flavored
well-flavoured
well-fledged
well-fleeced
well-fleshed
well-flooded
well-floor
well-floured
well-flowered
well-flowering
well-focused
well-focussed
well-folded
well-followed
well-fooled
well-foreseen
well-forested
well-forewarned
well-forewarning
well-forged
well-forgotten
well-formed
well-formulated
well-fortified
well-fought
well-found
well-founded
well-foundedly
well-foundedness
well-framed
well-fraught
well-freckled
well-freighted
well-frequented
well-fried
well-friend
well-frightened
well-fruited
well-fueled
well-fuelled
well-functioning
well-furnished
well-furnishedness
well-fur
well-gained
well-gaited
well-garden

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 15280
well-garmented
well-garnished
well-gathered
well-geread
well-generated
well-gifted
well-girt
well-glossed
well-gloved
well-glued
well-going
well-gotten
well-governed
well-gowned
well-graced
well-graded
well-grained
well-grassed
well-gratified
well-graveled
well-gravelled
well-graven
well-greased
well-greaved
well-greeted
well-groomed
well-groomedness
well-grounded
well-grounded hope
well-grouped
well-grown
well-guaranteed
well-guarded
well-gussed
well-guided
well-guiding
well-guyed
well-hained
well-haired
well-hallowed
well-hammered
well-handicapped
well-handled
well-hardened
well-harnessed
well-hatched
well-havened
well-hazarded
well-head
well-headed
well-healed
well-heard
well-hearted
well-heated
well-hedged
well-heeled
well-helped
well-hemmed
well-hewn
well-hidden
well-hinged
well-hit
well-hoarded
well-hole
well-holed
well-hoofed
well-hooped
well-horned
well-horsed
well-housed
well-hued
well-humbled
well-humbugged
well-humored
well-humoured
well-hung
well-husbanded
well-iced
well-identified
well-ignored
well-illustrated
well-imagined
well-imitated
well-immersed
well-implied
well-imposed
well-impressed
well-improved
well-improvised
well-inaugurated
well-inclined
well-included
well-incurred
well-indexed
well-indicated
well-inferred
well-informed
well-inhabited
well-initiated
well-inscribed
well-inspected
well-installed
well-instanced
well-instituted
well-instructed
well-insulated
well-insured
well-integrated
well-intended
well-intentioned
well-interested
well-interpreted
well-interviewed
well-introduced
well-invented
well-invested
well-investigated
well-ironed
well-irrigated
well-itemized
well-joined
well-jointed
well-judged
well-judging
well-judgingly
well-justified
well-kempt
well-kenned
well-kent
well-kept
well-kindled
well-knit
well-knitted
well-knotted
well-knowing
well-knowledged
well-known
well-known fact
well-labeled
well-labored
well-laboring
well-laboured
well-laced
well-laden
well-laid
well-languaged
well-larded
well-launched
well-laundered
well-leaded
well-learned
well-leased
well-leaved
well-led
well-left
well-lent
well-less
well-lettered
well-leveled
well-levelled
well-levied
well-lighted
well-like
well-liked
well-liking
well-limbed
well-limited
well-limned
well-lined
well-lined purse
well-linked
well-lit
well-liveried
well-living
well-loaded
well-located
well-locked
well-lodged
well-lofted
well-looked
well-looking
well-lost
well-loved
well-lunged
well-made
well-made play
well-maintained
well-managed
well-manned
well-mannered
well-manufactured
well-manured
well-mapped
well-marked
well-marketed
well-married
well-marshalled
well-masked
well-mastered
well-matched
well-mated
well-matured
well-meaner
well-meaning
well-meaningly
well-meaningness
well-meant
well-measured
well-membered
well-mended
well-merited
well-met
well-metalled
well-methodized
well-mettled
well-milked
well-mingled
well-minted
well-mixed
well-modeled
well-modified
well-modulated
well-moduled
well-moneyed
well-moralized
well-motivated
well-motived
well-moulded
well-mounted
well-mouthed
well-named
well-narrated
well-natured
well-naturedness
well-navigated
well-near
well-necked
well-needed
well-negotiated
well-neighbored
well-nicknamed
well-nigh
well-nosed
well-noted
well-nourished
well-nursed
well-nurtured
well-oared
well-obeyed
well-observed
well-occupied
well-off
well-officered
well-oiled
well-omened
well-omitted
well-operated
well-opinioned
well-ordered
well-ordered set
well-ordering theorem
well-organised
well-organized
well-oriented
well-ornamented
well-ossified
well-outlined
well-overseen
well-packed
well-paid
well-painted
well-paired
well-paneled
well-paragraphed
well-parceled
well-parked
well-past
well-patched
well-patrolled
well-patronised
well-patronized
well-paved
well-paying
well-penned
well-pensioned
well-peopled
well-perceived
well-perfected
well-performed
well-persuaded
well-philosophized
well-photographed
well-picked
well-pictured
well-piloted
well-pitched
well-placed
well-planned
well-plant
well-played
well-plead
well-pleased
well-pleasedly
well-pleasedness
well-pleasing
well-pleasingness
well-plenished
well-plotted
well-plowed
well-plucked
well-plumaged
well-plumed
well-pointed
well-policed
well-policied
well-polished
well-polled
well-pondered
well-posed
well-positioned
well-possessed
well-posted
well-postponed
well-practiced
well-predicted
well-prepared
well-preserved
well-pressed
well-pretended
well-priced
well-primed
well-principled
well-printed
well-prized
well-professed
well-prolonged
well-pronounced
well-prophesied
well-proportioned
well-prosecuted
well-protected
well-proved
well-proven
well-provendered
well-provided
well-published
well-punished
well-pursed
well-pushed
well-put
well-puzzled
well-qualified
well-qualitied
well-quartered
well-quizzed
well-raised
well-ranged
well-rated
well-read
well-read in
well-readied
well-reared
well-reasoned
well-received
well-recited
well-reckoned
well-recognised
well-recognized
well-recommended
well-recorded
well-recovered
well-refereed
well-referred
well-refined
well-reflected
well-reformed
well-refreshed
well-refreshing
well-regarded
well-regulated
well-regulated mind
well-rehearsed
well-relished
well-relishing
well-remarked
well-remembered
well-rendered
well-rented
well-repaid
well-repaired
well-replaced
well-replenished
well-reported
well-represented
well-reprinted
well-reputed
well-requited
well-resolved
well-resounding
well-respected
well-rested
well-restored
well-revenged
well-reviewed
well-revised
well-rewarded
well-rhymed
well-ribbed
well-ridden
well-rigged
well-ringed
well-ripened
well-risen
well-risked
well-roasted
well-rode
well-rolled
well-roofed
well-rooted
well-roped
well-rotted
well-rounded
well-rounded periods
well-routed
well-rowed
well-rubbed
well-ruled
well-ruling
well-run
well-running
well-sacrificed
well-saffroned
well-sailing
well-salted
well-sanctioned
well-sanded
well-satisfied
well-saved
well-savoring
well-saying
well-scared
well-scattered
well-scented
well-scheduled
well-schemed
well-schooled
well-scolded
well-scorched
well-scored
well-screened
well-scrubbed
well-sealed
well-searched
well-seasoned
well-seated
well-secluded
well-secured
well-seeded
well-seeing
well-seeming
well-seen
well-selected
well-selling
well-sensed
well-separated
well-served
well-set
well-set-up
well-settled
well-sewn
well-shaded
well-shading
well-shafted
well-shaken
well-shaped
well-shapen
well-sharpened
well-shaved
well-shaven
well-sheltered
well-shod
well-shot
well-showered
well-shown
well-sifted
well-sighted
well-simulated
well-sinewed
well-sinking
well-situated
well-sized
well-sketched
well-skilled
well-skinned
well-smelling
well-smoked
well-soaked
well-sold
well-soled
well-solved
well-sorted
well-sounding
well-spaced
well-speaking
well-sped
well-spent
well-spiced
well-splitting
well-spoken
well-sprayed
well-spread
well-spring
well-spun
well-spurred
well-squared
well-stabilized
well-stacked
well-staffed
well-staged
well-stained
well-stamped
well-starred
well-stated
well-stationed
well-steered
well-stirred
well-stitched
well-stocked
well-stopped
well-stored
well-straightened
well-strained
well-strapped
well-stressed
well-stretched
well-striven
well-stroked
well-strung
well-studied
well-stuffed
well-styled
well-subscribed
well-succeeding
well-sufficing
well-sugared
well-suggested
well-suited
well-summarised
well-summarized
well-sunburned
well-sung
well-superintended
well-supervised
well-supplemented
well-supplied
well-supported
well-suppressed
well-sustained
well-swelled
well-swollen
well-systematised
well-systematized
well-tailored
well-taken
well-tamed
well-tanned
well-tasted
well-taught
well-taxed
well-tempered
well-tenanted
well-tended
well-terraced
well-tested
well-thewed
well-thought
well-thought-of
well-thought-out
well-thrashed
well-thriven
well-thrown
well-thumbed
well-tied
well-tilled
well-timbered
well-timed
well-timed opportunity
well-tinted
well-to-do
well-toasted
well-told
well-toned
well-tongued
well-toothed
well-tossed
well-traced
well-traded
well-trained
well-translated
well-trapped
well-traveled
well-travelled
well-treated
well-tricked
well-tried
well-trimmed
well-trod
well-trodden
well-trunked
well-trussed
well-trusted
well-tuned
well-turned
well-turned periods
well-turned-out
well-tutored
well-twisted
well-typed
well-umpired
well-understood
well-uniformed
well-united
well-upholstered
well-urged
well-used
well-utilized
well-valeted
well-varied
well-varnished
well-veiled
well-ventilated
well-ventured
well-verified
well-versed
well-visualised
well-visualized
well-voiced
well-vouched
well-walled
well-wared
well-warmed
well-warned
well-warranted
well-washed
well-watched
well-watered
well-weaponed
well-wearing
well-weaved
well-weaving
well-wedded
well-weighed
well-weighing
well-whipped
well-wigged
well-willed
well-willer
well-willing
well-winded
well-windowed
well-winged
well-winnowed
well-wired
well-wish
well-wisher
well-wishing
well-witnessed
well-witted
well-won
well-wooed
well-wooing
well-wooled
wet look
wet moon
wet nurse
wet pack
wet pleurisy
wet puddling
wet rot
wet season
wet snow
wet squib
wet strength
wet suit
wet to the skin
wet wash
wet weather
wet weathers
wet with sweat
wet your whistle
wet-air
wet-air pump
wet-and-dry-bulb thermometer
wet-blanket
wet-blanketing
wet-bulb
wet-bulb thermometer
wet-cell
wet-cheeked
wet-clean
wet-eyed
wet-footed
wet-lipped
wet-my-lip
wet-nurse
wet-nursed
wet-nursing
wet-pipe
wet-pipe system
wet-plate
wet-plate process
wet-process machine
wet-salt
wet-season
wet-shod
wet-worked
wether wool
wetlands conservation
wetness fraction
wetter-off
wetting agent
wetting down
wetting-out agent
wh-movement
whack down
whack off
whack up
whale barnacle
whale catcher
whale feed
whale fin
whale fisher
whale fisherman
whale fishery
whale fishing
whale food
whale iron
whale line
whale louse
whale of a difference
whale oil
whale shark
whale-backed
whale-built
whale-gig
whale-headed
whale-hunting
whale-mouthed
whale-tailed
whalebone tree
whalebone whale
whaling fleet
whaling gun
whaling master
whaling port
whaling rocket
whare-kura
whare-puni
whare-wananga
wharf boat
wharf dues
wharf duty
wharf end
wharf fee
wharf fish
wharf hand
wharf laborer
wharf lumpers
wharf monkey
wharf owner
wharf rat
wharf spike
wharf worker
what a life
what are the odds
what bodes
what boots it
what can be done
what can be seen
what can never be
what cannot be
what cannot happen
what do I care
what do you know
what do you know about that
what does it matter
what else is new
what for
what goes up must come down
what happens
what have you
what if
what in the world
what is coming to one
what is coming to you
what is comprised
what is condign
what is contained
what is destined
what is done
what is doomed
what is due
what is fated
what is in the books
what is included
what is merited
what is owing
what is possible
what is proper
what is revealed
what is right
what is to be
what is to come
what it is about
what it takes
what looms
what makes it tick
what makes you tick
what matter
what may be
what might be
what must not be
what of it
what on earth
what ought not be
what ought to be
what ought to be done
what should be
what should not be
what the hell
what time
what will be will be
what you are about
what you are doing
what you are responsible for
what you are worth
what you can call your own
what you can do
what you have coming
what you have earned
what you have to your name
what you may fairly call
what you may fitly call
what you may properly call
what you may well call
what you merit
what you will
what's happening
what's in
what's in it for one
what's it to you
what's its name
what's the diff
what's the difference
what's the odds
what's what
what's-her-name
what's-his-face
what's-his-name
what's-its-name
what-d'ye-call-'em
what-d'ye-call-it
what-d'you-call-it
what-do-you-call-it
what-eer
what-for
what-is-it
what-like
what-you-call-it
what-you-may call-it
what-you-may--call-it
what-you-may-call-'em
whatever comes
whatever may happen
whatever the cost
whats-her-name
whats-his-name
whats-it
whats-its-name
wheaf take-all
wheaf-head
wheat aphid
wheat aphis
wheat beetle
wheat belt
wheat berry
wheat bread
wheat bug
wheat bulb fly
wheat bulb worm
wheat cake
wheat chafer
wheat cutworm
wheat duck
wheat eel
wheat eelworm
wheat farmer
wheat field
wheat fly
wheat from the chaff
wheat gallfly
wheat germ
wheat grass
wheat jointworm
wheat louse
wheat maggot
wheat meal
wheat midge
wheat mildew
wheat mite
wheat mosaic
wheat moth
wheat pest
wheat pit
wheat plant louse
wheat rosette
wheat rust
wheat sawfly
wheat scab
wheat seed
wheat sheaf
wheat smut
wheat stem
wheat stem rust
wheat thief
wheat thrips
wheat weevil
wheat weigher
wheat-blossoming
wheat-colored
wheat-fed
wheat-growing
wheat-head army worm
wheat-hid
wheat-producing
wheat-raising
wheat-rich
wheat-stem maggot
wheat-stem sawfly
wheat-straw
wheat ear cockle
wheat sel bird
wheatstone bridge
wheel about
wheel and axle
wheel and deal
wheel animal
wheel animalcule
wheel around
wheel back
wheel barometer
wheel base
wheel bearer
wheel bug
wheel case
wheel chain
wheel chair
wheel colter
wheel control
wheel cowlings
wheel cross
wheel cultivator
wheel excavator
wheel fitter
wheel governor
wheel hoe
wheel horse
wheel lathe
wheel load
wheel load weigher
wheel lock
wheel maker
wheel man
wheel map
wheel money
wheel of chance
wheel of fortune
wheel ore
wheel organ
wheel parts
wheel pen
wheel pit
wheel plate
wheel plow
wheel rod
wheel rope
wheel scraper
wheel static
wheel stitch
wheel tracery
wheel trap
wheel tree
wheel trolley
wheel welder
wheel window
wheel-backed
wheel-barrower
wheel-broad
wheel-cut
wheel-cutting
wheel-footed
wheel-going
wheel-made
wheel-marked
wheel-mounted
wheel-resembling
wheel-shaped
wheel-smashed
wheel-spun
wheel-supported
wheel-track
wheel-turned
wheel-turning
wheel-worn
wheelbarrow race
wheeler and dealer
wheeler-dealer
wheeling and dealing
wheels within wheels
whelk tingle
whelk-shaped
when all is said and done
when as
when day is done
when hell freezes over
when in Rome do as the Romans do
when issued
when it is handy
when the chips are down
when the mood strikes
when the spirit moves
when you get around to it
when you have a minute to spare
when you have the time
when your ship comes in
when-issued
whenever you like
whenever you wish
where it's at
where the earth meets the sky
where the shoe pinches
where the sun beats
where the sun rises
where you are
where you live
where you reside
where you sit
where you stand
wherefore, the
wherever it may be
wherever you look
wherever you turn
whet slate
whet the appetite
whet the knife
whet the sword
whet your interest
whether or no
whether you will or not
whetstone slate
whetstone-shaped
whettle-bone
whew duck
whey bird
whey butter
whey cure
whey whig
whey-bearded
whey-blooded
whey-brained
whey-colored
whey-face
whey-faced
whi-Zbang
which is Not we
which is in us and all around us
which see
which way the wind blows
whidah bird
whidah finch
whiff of grapeshot
whiffle ball
while airborne
while away
while away the time
while life endures
while on the subject
while you draw breath
whim berry
whim gin
whim-proof
whim-wham
whim-whams
whin sparrow
whin-wrack
wing-ding
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whisky john
whisky liver
whisky mac
whisky poker
whisky sour
whisky-drinking
whisky-frisky
whisky-jack
whisky-sodden
whisper glide
whisper glottis
whisper in the ear
whisper sweet nothings
whisper-soft
whispered about
whispering campaign
whispering dome
whispering gallery
whispering office
whispering pectoriloquy
whispering voice
whist drive
whistle at
whistle duck
whistle for
whistle punk
whistle stop
whistle-blower
whistle-pig
whistle-stop
whistle-stop campaign
whistle-stopper
whistle-stopping
whistlebelly vengeance
whistling buoy
whistling duck
whistling jar
whistling swan
whit sunday
white Leghorn
white Mariposa
white Orpington
white Plymouth Rock
white Wyandotte
white acid
white admiral
white alert
white alkali
white ant
white area
white arsenic
white as a lily
white as a sheet
white as snow
white ash
white ash herb
white bass
white bay
white bear
white beet
white belt
white birch
white blood cell
white blood corpuscle
white book
white boy
white bread
white bronze
white bryony
white cake
white campion
white cast iron
white cedar
white chip
white clover
white coal
white comparisons
white cooper
white corpuscle
white crab
white crappie
white cross
white currant
white daisy
white damp
white dew
white dutch clover
white dwarf
white dwarf star
white eardrop
white elephant
white elephant sale
white ensign
white feather
white flag
white flax
white flint
white fox
white friar
white frost
white gas
white gasoline
white globe lily
white gold
white goldenrod
white goods
white gourd
white grape
white grease
white gum
white hairs
white hake
white heat
white hole
white hope
white horde
white horehound
white horse
white horses
white house
white hunter
white iron
white iron pyrites
white lead
white lead ore
white leather
white leg
white lie
white light
white lightning
white lime
white line
white liquor
white list
white liver
white livered
white lotus
white lupine
white magic
white mahogany
white man
white man's burden
white marlin
white matter
white meat
white melilot
white metal
white moss
white mulberry
white mule
white mustard
white noise
white oak
white oil
white paper
white paternoster
white pepper
white perch
white pine
white plague
white poplar
white potato
white pottery
white power
white primary
white pudding
white race
white rainbow
white rat
white room
white rose
white rose mallow
white rot
white russian
white rust
white sage
white sale
white salmon
white sandalwood
white sapote
white sapphire
white sauce
white sea bass
white shark
white sidewall tire
white slave
white slaver
white slavery
white snakeroot
white sour
white space
white spirit
white spiritual
white spruce
white squall
white staff
white stork
white stuff
white sturgeon
white supremacist
white supremacy
white swamp azalea
white tassel flower
white tie
white tie and tails
white titi
white turnip
white upland aster
white vitriol
white walnut
white water
white water lily
white wax
white way
white whale
white wine
white with age
white wolf
white wood aster
white-acre
white-alder
white-alder family
white-ankled
white-ant
white-anted
white-armed
white-ash
white-backed
white-barked
white-barred
white-beaked
white-bearded
white-bellied
white-berried
white-billed
white-blood
white-blooded
white-blue
white-bodied
white-bone
white-boned
white-bordered
white-bosomed
white-breasted
white-brick
white-browed
white-brown
white-burning
white-capped
white-cell
white-cell blood
white-cheeked
white-chinned
white-churned
white-clad
white-clothed
white-coated
white-collar
white-collar intellectual
white-collar thief
white-collar worker
white-colored
white-cotton
white-cotton tree
white-crested
white-cross
white-cross diatom
white-crossed
white-crowned
white-crowned sparrow
white-domed
white-dotted
white-dough
white-ear
white-eared
white-eye
white-eyed
white-eyed vireo
white-eyelid
white-eyelid monkey
white-eyes
white-faced
white-faced hornet
white-favored
white-feathered
white-featherism
white-felled
white-flanneled
white-flecked
white-fleshed
white-flower
white-flowered
white-flowing
white-foot
white-footed
white-footed mouse
white-frilled
white-fringed
white-frocked
white-fronted
white-fronted goose
white-fruited
white-girdled
white-glittering
white-gloved
white-gray
white-green
white-ground
white-haired
white-hairy
white-handed
white-hard
white-hatted
white-headed
white-heart
white-heart hickory
white-hoofed
white-hooved
white-horned
white-horsed
white-hot
white-jacketed
white-laced
white-leaf
white-leaved
white-legged
white-lie
white-lined
white-linen
white-lipped
white-list
white-listed
white-livered
white-liveredly
white-liveredness
white-loaf
white-looking
white-maned
white-mantled
white-marked
white-mooned
white-mottled
white-mouthed
white-mustard
white-mustard oil
white-necked
white-nosed
white-painted
white-paneled
white-petaled
white-pickle
white-pickle mosaic
white-pine
white-pine blister rust
white-pine rust
white-pine weevil
white-piped
white-plumed
white-rag
white-railed
white-rayed
white-red
white-ribbed
white-ribboned
white-ribboner
white-rinded
white-robed
white-roofed
white-ruffed
white-rumped
white-russet
white-salted
white-satin
white-set
white-sewing
white-shafted
white-sheeted
white-shouldered
white-sided
white-skin
white-skinned
white-slaver
white-slaving
white-sleeved
white-spored
white-spotted
white-stemmed
white-stoled
white-strawed
white-tail
white-tailed
white-tailed deer
white-tailed kit
white-tailed kite
white-tailed sea eagle
white-thighed
white-throated
white-throated sparrow
white-tinned
white-tipped
white-tomentose
white-tongued
white-tooth
white-toothed
white-topped
white-tufted
white-tusked
white-uniformed
white-veiled
white-veined
white-vented
white-waistcoated
white-walled
white-wanded
white-water
white-waving
white-way
white-whiskered
white-wig
white-wigged
white-winged
white-winged coot
white-winged dove
white-winged scoter
white-woolly
white-wristed
white-zoned
whitebark pine
whited sepulcher
whited sepulchre
whitening stone
whitetail deer
who feel great truths
who knows
who would have thought it
who's who
who-does-what
who-whoop
whole amount
whole attention
whole ball of wax
whole bit
whole blood
whole brother
whole bunch
whole caboodle
whole deal
whole gale
whole hog
whole kit and caboodle
whole kit and kaboodle
whole life insurance
whole megillah
whole mess
whole milk
whole note
whole number
whole offering
whole people
whole picture
whole rest
whole schmear
whole shebang
whole shooting match
whole show
whole shtick
whole slew
whole step
whole story, the
whole time
whole tone
whole wheat
whole wheat bread
whole wheat flour
whole wide world
whole works
whole-and-half
whole-and-half compass
whole-backed
whole-bodied
whole-bound
whole-cloth
whole-colored
whole-eared
whole-eyed
whole-feathered
whole-footed
whole-headed
whole-hearted
whole-hog
whole-hogger
whole-hoofed
whole-leaved
whole-length
whole-minded
whole-mouthed
whole-or-none
whole-sail
whole-seas
whole-skinned
whole-souled
whole-souledly
whole-souledness
whole-spirited
whole-step
whole-timer
whole-tone scale
whole-wheat
whole-witted
wholesale dealer
wholesale house
wholesale murder
wholesale price
whomp up
whoop and a holler
whoop it up
whoop it up about
whoop-de-do
whoop-de-doo
whoop-de-dos
whoop-up
whooppee cup
whooper swan
whooping cough
whooping crane
whooping-cough
whore's bird
whorl foot
wide-branching
wide-breasted
wide-brimmed
wide-cast
wide-chapped
wide-circling
wide-climbing
wide-consuming
wide-crested
wide-distant
wide-doored
wide-eared
wide-echoing
wide-elbowed
wide-expanded
wide-expanding
wide-extended
wide-extending
wide-eyed
wide-faced
wide-flung
wide-framed
wide-gaping
wide-gated
wide-girdled
wide-handed
wide-hipped
wide-honored
wide-imperial
wide-jointed
wide-kneed
wide-lamented
wide-leaved
wide-leaved
wide-lipped
wide-met
wide-minded
wide-mindedness
wide-mouthed
wide-necked
wide-nosed
wide-open
wide-open spaces
wide-open speed
wide-opened
wide-openly
wide-openness
wide-palmed
wide-patched
wide-permitted
wide-petaled
wide-pledged
wide-ranging
wide-reaching
wide-realmed
wide-resounding
wide-ribbed
wide-rimmed
wide-rolling
wide-roving
wide-row
wide-said
wide-sanctioned
wide-screen
wide-seen
wide-set
wide-shaped
wide-shown
wide-skirted
wide-sleeved
wide-sold
wide-soled
wide-sought
wide-spaced
wide-spanned
wide-spread
wide-spreaded
wide-spreadening
wide-straddling
wide-streeted
wide-stretched
wide-stretching
wide-throated
wide-toed
wide-toothed
wide-tracked
wide-veined
wide-wasting
wide-watered
wide-wayed
wide-where
wide-winding
wide-winged
wide-yawning
widely apart
widely known
widely read
widen the distance
widest dissemination
widgeon coot
widgeon grass
widow bird
widow duck
widow finch
widow fish
widow flower
widow lady
widow monkey
widow right
widow woman
widow's benefit
widow's cruse
widow's dower
widow's mite
widow's peak
widow's walk
widow's weeds
widow's-cross
widow-bench
widow-bird
widow-maker
widow-wail
widow-wail family
wie geht's
wield authority
wield the baton
wield the scepter
wield the sword
wiener roast
wiener schnitzel
wienie roast
wife in all but name
wife in name only
wife of your bosom
wife swapping
wife-awed
wife-beating
wife-bound
wife-hunting
wife-ridden
wife-to-be
wife-worn
wig block
wig sumac
wig tree
wig-wag
wiggen tree
wiggle nail
wiggle out of
wiggle the finger at
wiggle-tail
wiggle-tail cultivator
wiggle-waggle
wiggle-woggle
wiggly-waggly
wigwag flag
wigwag signal
wilcolored flowers
wild West
wild about
wild allspice
wild and woolly
wild animal
wild animals
wild ass
wild basil
wild bean
wild beast
wild beasts
wild bergamot
wild bleeding-heart
wild boar
wild brier
wild calla
wild carrot
wild cat
wild celery
wild cherry
wild chervil
wild clove
wild corn
wild date
wild deer
wild dog
wild duck
wild fig
wild flax
wild flower
wild for
wild fowl
wild geranium
wild ginger
wild goat
wild goose
wild goose chase
wild growth
wild guess
wild hollyhock
wild honeysuckle
wild horse
wild hyacinth
wild hyacin
wild hyacinth
ewild hydrangea
wild imagination
wild indigo
wild ipecac
wild land
wild lettuce
wild lily-of-the-valley
wild madder
wild man
wild marjoram
wild mulberry
wild mustard
wild oat
wild oats
wild oleander
wild oleaster
wild olive
wild orange
wild ox
wild pansy
wild parsley
wild parsnip
wild passion flower
wild pennyroyal
wild pink
wild pitch
wild potato
wild pumpkin
wild radish
wild rice
wild rose
wild rosemary
wild rubber
wild rye
wild sage
wild sarsaparilla
wild senna
wild service tree
wild sheep
wild shot
wild silk
wild spikenard
wild sunflower
wild sweet pea
wild sweet potato
wild sweet william
wild thyme
wild to
wild track
wild type
wild vanilla
wild west
wild wormwood
wild-acting
wild-aimed
wild-and-woolly
wild-ass
wild-billowing
wild-blooded
wild-booming
wild-born
wild-brained
wild-bred
wild-chosen
wild-eyed
wild-fire
wild-flying
wild-fought
wild-fowl
wild-fowler
wild-fowling
wild-goose
wild-goose chase
wild-goose plum
wild-grown
wild-haired
wild-headed
wild-headedness
wild-looking
wild-made
wild-notioned
wild-oat
wild-oat kicker
wild-phrased
wild-spirited
wild-staring
wild-warbling
wild-warring
wild-williams
wild-winged
wild-witted
wild-woven
wildcat bank
wildcat strike
wildcat well
wilderness area
wilderness preserve
wildest dream
wildest dreams
wildlife conservation
wildlife preserve
wile away
will and bequeath
will and pleasure
will and will not
will contest
will for power
will of Heaven
will of iron
will of your own
will power
will to
will to believe
will to power
will turn
will wonders never cease
will you
will-call
will-commanding
will-fraught
will-less
will-lessly
will-lessness
will-o'-the-wisp
will-o-the-wisp
will-strong
will-willet
will-with-the-wisp
will-worship
will-worshiper
willful disobedience
willful misconception
william tell
willie gow
willie hawkie
willie wagtail
willie wicket
willie-waucht
willie-waught
willing ear
willing heart
willing humor
willing mind
willing or unwilling
willingness to believe
willo’-the-wispish
willo’-the-wispy
willow acacia
willow amsonia
willow apple
willow beauty
willow beetle
willow borer
willow buffer
willow cactus
willow cat
willow catfish
willow chafer
willow charcoal
willow cottonwood
willow family
willow fly
willow gall
willow goldfinch
willow green
willow grouse
willow herb
willow lark
willow leaf
willow leaf beetle
willow louse
willow moth
willow myrtle
willow oak
willow pattern
willow peeler
willow poplar
willow ptarmigan
willow sawfly
willow shoot
willow slug
willow slug caterpillar
willow sparrow
willow thorn
willow thrush
willow tit
willow tree
willow wand
willow warbler
willow wren
willow-bordered
willow-colored
willow-cone
willow-cone gall
willow-fringed
willow-grown
willow-herb
willow-leaved
willow-leaved jasmine
willow-shaded
willow-skirted
willow-tree money
willow-tufted
willow-veiled
willow-wielder
willow-wood
willow-wort
willy wagtail
willy-mufty
willy-nilly
willy-waa
willy-wagtail
willy-waw
willy-wicket
willy-willies
willy-willy
wilt disease
wilting coefficient
wilting percentage
wilting point
wily device
win away
win back
win by a fluke
win by a neck
win easily
win freedom
win friends
win friends and influence people
win going away
win hands down
win in a canter
win in a walk
win in a waltz
win out
win over
win the affections of
win the battle
win the bays
win the day
win the laurels
win the love of
win the palm
win the prize
win the regard of
win the start
win through
win your heart
win your spurs
wince pit
wince pot
winch driver
wincing machine
wind and weather permitting
wind around your little finger
wind arrow
wind band
wind beam
wind belt
wind blast
wind box
wind brace
wind burn
wind catcher
wind chest
wind cloud
wind colic
wind component table
wind cone
wind contusion
wind cripple
wind cutter
wind direction
wind down
wind drift
wind dropsy
wind eddy
wind egg
wind engine
wind erosion
wind flapper
wind force
wind furnace
wind gap
wind gauge
wind god
wind gods
wind guard
wind gun
wind gust
wind harp
wind hawk
wind herb
wind house
wind in
wind in and out
wind indicator
wind instrument
wind load
wind machine
wind mantle
wind marker
wind motor
wind music
wind musician
wind part
wind plant
wind poppy
wind porch
wind power
wind propulsion
wind pump
wind resistance
wind ripple
wind rose
wind sail
wind scale
wind scoop
wind scorpion
wind shaft
wind shake
wind sheet
wind shelf
wind side
wind signal
wind slash
wind sleeve
wind sock
wind sound
wind sprint
wind stack
wind stacker
wind star
wind stop
wind sucking
wind supply
wind tee
wind the horn
wind throw
wind thrush
wind tie
wind trunk
wind tunnel
wind up
wind valley
wind vane
wind wheel
wind zone
wind-bag
wind-balanced
wind-balancing
wind-beaten
wind-bell
wind-bells
wind-blazing
wind-blown
wind-borne
wind-bound
wind-broken
wind-built
wind-changing
wind-chapped
wind-clipped
wind-cutter
wind-delayed
wind-dispersed
wind-dried
wind-driven
wind-egg
wind-equator
wind-exposed
wind-fanned
wind-fast
wind-fertilization
wind-fertilized
wind-flower
wind-flowing
wind-footed
wind-force
wind-gall
wind-god
wind-grass
wind-guage
wind-gun
wind-hungry
wind-instrument
wind-instrumental
wind-instrumentalist
wind-laid
wind-lashed
wind-making
wind-nodding
wind-obeying
wind-outspeeding
wind-parted
wind-pollinated
wind-pollination
wind-propelled
wind-puff
wind-puffed
wind-raising
wind-rent
wind-rode
wind-scattered
wind-screen
wind-shake
wind-shaken
wind-shift
wind-shift line
wind-speed indicator
wind-struck
wind-stuffed
wind-sucking
wind-swept
wind-swift
wind-swung
wind-taut
wind-toned
wind-up
wind-wandering
wind-waved
wind-waving
wind-whipped
wind-wing
wind-winged
wind-worn
windblown bob
winder rod
winder-on
windfall money
windfall profit
windflower gentian
winding engine
winding frame
winding number
winding pendant
winding sheet
winding staircase
winding stick
winding strip
winding tackle
winding-sheet
windlass bitt
windmill grass
windmill orchid
windmill palm
windmill pink
windmill plane
windmill plant
windmill tower
windmill-like
window back
window bar
window bay
window board
window bole
window box
window card
window case
window catch
window cleaner
window curtain
window decoration
window decorator
window display
window dresser
window dressing
window envelope
window fixture
window fly
window frame
window furniture
window gardening
window glass
window head
window lead
window martin
window mirror
window oyster
window rocket
window sash
window screen
window seat
window shade
window shell
window show
window shutter
window sill
window sole
window space
window stile
window stool
window stop
window swallow
window tax
window trim
window trimmer
window trimming
window work
window-breaking
window-broken
window-cleaning
window-dress
window-dresser
window-dressing
window-efficiency
window-efficiency ratio
window-opening
window-rattling
window-shop
window-shopper
window-shopping
window-smashing
window-ventilating
windowless monad
windpipe-slitting art
windscreen wiper
windshield wing
windshield wiper
windsor chair
windsor knot
windsor tie
windstorm insurance
windward ebb
windward flood
windward side
windward tide
windy-aisled
windy-blowing
windy-clear
windy-footed
windy-headed
windy-looking
windy-moutheed
windy-voiced
windy-worded
wine acid
wine and dine
wine apple
wine bag
wine bar
wine biscuit
wine black
wine bush
wine butt
wine card
wine cask
wine cellar
wine cooler
wine cooper
wine ferment
wine flask
wine fly
wine fountain
wine gallon
wine garden
wine grape
wine lees
wine maker
wine making
wine measure
wine merchant
wine palm
wine party
wine plant
wine press
wine presser
wine purple
wine red
wine seller
wine shop
wine steward
wine stone
wine table
wine taster
wine tester
wine thrush
wine tun
wine vault
wine vinegar
wine whey
wine yeast
wine yellow
wine-bright
wine-cask borer
wine-colored
wine-cooler
wine-crowned
wine-cup
wine-dark
wine-drabbed
wine-drinking
wine-driven
wine-drunk
wine-hardy
wine-heated
wine-house
wine-inspired
wine-laden
wine-merry
wine-press
wine-producing
wine-red
wine-selling
wine-shaken
wine-soaked
wine-stained
wine-stuffed
wine-swilling
wine-tinged
wine-wise
wine-yielding
wing and wing
wing axis
wing back formation
wing band
wing bar
wing bay
wing bearing
wing bit
wing bolt
wing bone
wing bow
wing car
wing case
wing cell
wing chair
wing clipper
wing clipping
wing collar
wing commander
wing compass
wing cover
wing covert
wing coverts
wing dam
wing deck
wing divider
wing dividers
wing drag
wing elm
wing feather
wing flap
wing flat
wing formation
wing game
wing gap
wing gudgeon
wing it
wing jam
wing load
wing loading
wing net
wing nut
wing out ballast
wing over
wing pad
wing passage
wing petal
wing plow
wing power
wing quill
wing radiator
wing rail
wing resistance
wing rib
wing root air intake
wing roots
wing sac
wing screw
wing sheath
wing shell
wing shooting
wing shot
wing skid
wing snail
wing stopper
wing tie
wing tip
wing top
wing tract
wing transom
wing truss
wing valve
wing wale
wing wall
wing your way
wing-borne
wing-broken
wing-case
wing-clipped
wing-ding
wing-footed
wing-hoofed
wing-leafed
wing-leaved
wing-limed
wing-loose
wing-maimed
wing-margined
wing-shaped
wing-slot
wing-swift
wing-tip
wing-tip flare
wing-tip float
wing-tipped
wing-wearily
wing-weariness
wing-weary
wing-wide
wingback formation
winged chair
winged elm
winged rocket
winged spindle tree
winged-footed
winged-heeled
winged-leaved
wink at
wink of sleep
winker braces
winking cartilage
winking muscle
winkle out
winkle-pickers
winner's circle
winning gallery
winning hazard
winning opening
winning post
winning streak
winning ways
winnow cloth
winnow out
winnow sheet
winnow the chaff from the wheat
winnow-corb
winnowed out
winnowing basket
winnowing fan
winnowing machine
winter aconite
winter annual
winter apple
winter barley
winter beer
winter blight
winter bonnet
winter brake
winter bud
winter bunting
winter cherry
winter clover
winter count
winter cress
winter crookneck
winter crop
winter daffodil
winter day
winter duck
winter egg
winter fallow
winter fat
winter fever
winter flounder
winter flower
winter garden
winter geranium
winter gillyflower
winter golf
winter grape
winter green
winter gull
winter hail
winter hawk
winter heath
winter hedge
winter heliotrope
winter hellebore
winter house
winter huckleberry
winter itch
winter jasmine
winter leaf
winter lettuce
winter melon
winter mew
winter midge
winter moth
winter oats
winter of your days
winter oil
winter pear
winter pink
winter plum
winter purslane
winter quarters
winter radish
winter rocket
winter rose
winter rye
winter savory
winter shad
winter sheldrake
winter skate
winter sleep
winter snipe
winter sol
winter solstice
winter spice
winter spore
winter sports
winter squash
winter strawberry
winter sucker
winter sunscald
winter sweet
winter teal
winter tire
winter vetch
winter wagtail
winter wheat
winter wind
winter wolfsbane
winter wren
winter yellowlegs
winter's bark
winter-beaten
winter-blasted
winter-blooming
winter-boding
winter-bound
winter-chilled
winter-clad
winter-damaged
winter-fattened
winter-fed
winter-felled
winter-flowering
winter-gladdening
winter-gray
winter-ground
winter-grown
winter-habited
winter-hardened
winter-hardy
winter-house
winter-kill
winter-long
winter-love
winter-loving
winter-made
winter-old
winter-proof
winter-proud
winter-pruned
winter-quarter
winter-reared
winter-rig
winter-ripening
winter-seeming
winter-shaken
winter-sown
winter-standing
winter-starved
winter-swollen
winter-thin
winter-verging
winter-visaged
winter-wasted
winter-withered
winter-worn
wintergreen barberry
wintergreen family
wintergreen oil
wintry weather
wintry wind
wipe away the tears
wipe away your tears
wipe break
wipe breaker
wipe joint
wipe off
wipe off old scores
wipe off the map
wipe out
wipe the floor with
wipe the slate clean
wipe the smile off your face
wipe up
wipe up the floor with
wipe-off
wiped away
wiped out
wiper shaft
wiper wheel
wiping contact
wiping out
wiping rod
wiping up
wire agency
wire basket
wire bender
wire bent
wire birch
wire bridge
wire brush
wire cartridge
wire chief
wire chisel
wire cloth
wire coat
wire communication
wire coverer
wire cutter
wire cutting
wire drawer
wire drawing
wire edge
wire entanglement
wire former
wire galvanizer
wire gauge
wire gauze
wire glass
wire grama
wire grass
wire grating
wire grub
wire gun
wire house
wire lath
wire line
wire ling
wire loop binding
wire mark
wire micrometer
wire money
wire nail
wire netting
wire nut
wire pack
wire plant
wire press
wire radio
wire recorder
wire recording
wire reducer
wire road
wire rod
wire roller
wire room
wire rope
wire ropeway
wire rush
wire saw
wire sculpture
wire service
wire sewer
wire side
wire silver
wire spooler
wire stem
wire stitch
wire stitcher
wire stitching
wire straightener
wire stranger
wire tapper
wire tapping
wire tester
wire tightener
wire tinner
wire vine
wire walker
wire wave communication
wire weaver
wire welder
wire wheel
wire winder
wire wool
wire-bending
wire-blocking
wire-borne
wire-bound
wire-brushing
wire-caged
wire-cloth
wire-coiling
wire-crimping
wire-cut
wire-draw
wire-drawer
wire-drawn
wire-edged
wire-feed
wire-feeding
wire-flattening
wire-galvanizing
wire-gauge
wire-grass
wire-guarded
wire-haired
wire-haired pointing griffon
wire-haired terrier
wire-hung
wire-insulating
wire-measuring
wire-mended
wire-netted
wire-pointing
wire-pull
wire-puller
wire-pulling
wire-record
wire-rolling
wire-safed
wire-sewed
wire-sewn
wire-shafted
wire-spun
wire-stitched
wire-straightening
wire-stranding
wire-stretching
wire-stringed
wire-strung
wire-tailed
wire-testing
wire-tightening
wire-tinning
wire-toothed
wire-wheeled
wire-winding
wire-worker
wire-wound
wire-wound resistor
wire-wove
wire-woven
wired glass
wired radio
wired television
wired wireless
wirehaired pointing griffon
wirehaired terrier
wireless apparatus
wireless beacon
wireless circuit
wireless communication
wireless compass
wireless operator
wireless set
wireless telegraph
wireless telegrapher
wireless telegraphist
wireless telegraphy
wireless telephone
wireless telephony
wirewound resistor
wiring die
wiring machine
wiring press
wiring punch
wiry-brown
wiry-coated
wiry-haired
wiry-leaved
wiry-looking
wiry-stemmed
wiry-voiced
wisdom literature
wisdom tooth
wisdom-bred
wisdom-given
wisdom-giving
wisdom-led
wisdom-loving
wisdom-seasoned
wisdom-seeking
wisdom-teaching
wisdom-working
wise as Solomon
wise as a serpent
wise as an owl
wise beyond your years
wise crack
wise expression
wise fool
wise guy
wise in the ways of the world
wise in your generation
wise in your own conceit
wise man
wishing bone
wishing cap
wishing stone
wishing well
wishy-washily
wishy-washiness
wishy-washy
wisp of smoke
wisteria blue
wisteria violet
wistful eye
wistful-eyed
wit tooth
wit's end
wit-abused
wit-assailing
wit-beaten
wit-cherishing
wit-crack
wit-cracker
wit-drawn
wit-foundered
wit-fraught
wit-gracing
wit-infusing
wit-loving
wit-masked
wit-offended
wit-oppressing
wit-pointed
wit-salted
wit-snapper
wit-starved
wit-stung
wit-worn
witch alder
witch baiter
witch baiting
witch ball
witch bird
witch broom
witch burner
witch burning
witch butter
witch cake
witch chick
witch doctor
witch doctoring
witch doctory
witch doctress
witch fire
witch flounder
witch for water
witch gowan
witch grass
witch hazel
witch hobble
witch hopple
witch hunt
witch hunter
witch knot
witch light
witch lock
witch mania
witch mark
witch master
witch meal
witch moth
witch of Agnesi
witch of Endor
witch sabbath
witch stick
witch stitch
witch tree
witch's mark
witch-charmed
witch-doctor
witch-elm
witch-finder
witch-finding
witch-hazel family
witch-held
witch-hunt
witch-hunter
witch-hunting
witch-ridden
witch-stricken
witch-struck
witch-woman
witches' Sabbath
witches' chorus
witches' coven
witches' meeting
witches' sabbath
witches'-besom
witches'-broom
witchetty grub
witching hour
witching hour of the night
witching stick
with a bad grace
with a bellyful
with a bump for
with a catch to it
with a cheerful heart
with a clear conscience
with a collar on
with a difference
with a firm hand
with a flair
with a free hand
with a good grace
with a grain of salt
with a guilty conscience
with a handful of thumbs
with a head on
with a heavy hand
with a heavy heart
with a high hand
with a joker to it
with a kick
with a kicker to it
with a liking for
with a long face
with a loud voice
with a memory like a sieve
with a mind like a sieve
with a new to
with a nose for
with a poker face
with a reservation
with a right to
with a rush
with a skinful
with a sneer
with a snootful
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a tight hand
with a touch of genius
with a vengeance
with a view to
with a weather eye open
with a whole skin
with a whoop and a hurrah
with a will
with a yellow streak
with abandon
with advantage
with affection
with agonizing slowness
with alacrity
with all due respect for
with all due respect to
with all haste
with all my heart
with all respect
with all speed
with all your heart
with all your love
with all your might
with an ear for
with an ear for music
with an exception
with an eye for
with an eye to
with an ill grace
with an interval
with an iron hand
with an unsparing hand
with arms akimbo
with attention
with authority
with bad grace
with bad intent
with bated breath
with bats in the belfry
with beat of drum
with beating heart
with bedroom eyes
with bells on
with both eyes closed
with both feet on the ground
with both hands
with breathless expectation
with brimming eyes
with care
with caution
with chattering teeth
with child
with clarity
with clean hands
with confidence
with constancy
with consummate skill
with contempt
with crossed bayonets
with crow's feet
with crystal clarity
with curling lip
with deliberation
with difficulty
with dignity
with dispatch
with distinction
with downcast eyes
with dragging feet
with dry eyes
with due deference
with due respect
with ears pricked up
with ears strained
with ease
with effort
with elan
with emphasis
with enough of
with enthusiasm
with everything against one
with everything against you
with everything that is in one
with everything that is in you
with exactitude
with eyes strained
with eyes suffused
with faith
with faltering steps
with fear and trembling
with feeling
with finesse
with flourish of trumpet
with flying colors
with folded hands
with foresight
with forethought
with full intent
with gaping mouth
with genius
with giant strides
with glistening eyes
with good cheer
with good faith
with good grace
with good right
with good will
with great care
with great haste
with great nicety
with gusto
with half a mind to
with halting steps
with haste
with head erect
with head held high
with heart beating high
with heart going pitapat
with heart going patter-patter
with heart in mouth
with honor
with impunity
with indifference
with intent
with intent to deceive
with interest
with intervals
with it
with joined hands
with leaping heart
with life and spirit
with love
with low resistance
with malice aforethought
with malice prepense
with many a flirt and flutter
with many others
with might and main
with much ado
with muscles tense
with news value
with no heart
with no nonsense
with no stomach
with no time to spare
with nose in air
with nose turned up
with nothing inside
with nothing on
with one accord
with one another
with one consent
with one foot in the grave
with one voice
with one wild yell
with open arms
with open eyes
with open hands
with over-measure
with overflowing eyes
with pep
with permission
with pleasure
with precision
with premeditation
with pride
with purpose
with qualifications
with rapid strides
with rapt attention
with reason
with reference to
with regard to
with relation to
with relish
with reservations
with resignation
with respect to
with right good will
with safety
with sails spread
with satisfaction
with set jaw
with skill
with some allowance
with speed
with steerageway
with sullen mouth
with swimming eyes
with taste
with tearful eyes
with tears in eyes
with tears in your eyes
with telling effect
with that
with the Lord
with the addition of
with the assistance of
with the beat
with the best
with the exception of
with the exception that
with the help of
with the intent that
with the lark
with the saints
with the speed of light
with the stipulation
with the strong arm
with the sun
with the understanding
with the view of
with the wind
with the wind abaft the beam
with the wind aft
with this
with this proviso
with time to spare
with tongue in cheek
with total dedication
with truth
with undivided attention
with us
with utter indifference
with verve
with vim
with voice
with voice and vote
with vote
with watery eyes
with way on
with wind abeam
with young
with your back to the wall
with your eyes open
with your eyes peeled
with your family
with your fill of
with your head in the clouds
with your own petard
with your permission
with your tail between your legs
with your tongue in your cheek
with zest
with zip
with-
with-drawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdrawing room
withe rod
wither away
wither-wrung
withered loins
withhold assent
withholding tax
within a stone's throw
within a styour throw
within a whoop and a holler
within an ace of
within an inch
within an inch of
within bounds
within call
within compass
within earreach
within earshot
within hail
within hearing
within means
within range
within range of
within reach
within reason
within reasonable limitations
within sight
within the bounds of possibility
within the bounds of reason
within the domain of possibility
within the frame of reference
within the framework
within the law
within the limits of reason
within the range of possibility
within the realm of possibility
within the reference system
within the scope of the law
within the universe of discourse
within these four walls
within two whoops and a holler
within your grasp
within-bound
within-door
within-named
without a break
without a change of menu
without a change of pace
without a change of scenery
without a clue
without a dissenting voice
without a minute to spare
without a name
without a nerve in your body
without a shadow of turning
without a sou
without a stitch
without a stitch on
without a stitch to one's name
without a stitch to your back
without a stitch to your name
without a tremor
without a will of your own
without any qualms
without any scruples
without any weight
without appeal
without basis
without being
without benefit of clergy
without body
without book
without bottom
without bound
without break
without care
without cease
without ceasing
without ceremony
without charge
without choice
without coercion
without compulsion
without compunction
without connection
without content
without contradiction
without date
without delay
without demur
without design
without difference
without difficulty
without distinction
without distraction
without door
without doors
without doubt
without end
without equal
without equivocation
without exception
without fail
without faith
without fear of contradiction
without fear of favor
without foundation
without further delay
without grounds
without hesitation
without hope
without intermission
without intimidation
without issue
without letup
without life
without limit
without looking back
without measure
without mercy
without nerves
without notice
without number
without omission
without parallel
without prejudice
without premeditation
without pressure
without price
without reason
without reference
without regard
without regard to
without regard to persons
without regret
without reluctance
without remorse
without reproach
without reserve
without respect to
without respect to persons
without restraint
without rhyme or reason
without shame
without sound basis
without stint
without stopping
without striking a blow
without strings
without success
without suspicion
without term
without the least delay
without the least doubt
without turning a hair
without unspotted
without vital functions
without warning
without wasting words
without willing
withy-bound
withy-woody
witloof chicory
witness box
witness corner
witness mark
witness stand
witness-box
witney nap
witty reply
witty retort
witty-brained
witty-conceited
witty-feigned
witty-pated
witty-pretty
witty-worded
wizard-woven
wizen-faced
wizen-hearted
woad vat
woad-leaved
woad-painted
wobble board
wobble pump
wobble saw
wobbling disk
woe is me
woe-begetting
woe-begone
woe-besee
woe-bested
woe-betrothed
woe-boding
woe-dejected
woe-delighted
woe-denouncing
woe-destined
woe-embroidered
woe-enwrapped
woe-exhausted
woe-foreboding
woe-fraught
woe-grim
woe-humbled
woe-illumed
woe-infirmed
woe-laden
woe-maddened
woe-revolving
woe-scorning
woe-sprung
woe-stricken
woe-stricken
woe-surcharged
woe-threatened
woe-tied
woe-wearied
woe-weary
woe-wedded
woe-whelmed
woe-wrinkled
woeful-wan
wold mouse
wolf at the door
wolf call
wolf cub
wolf dog
to
to eel
to fish
to fruit
to grape
to herring
in sheep's clothing
to in the stomach
to madness
to moth
to note
to pack
to snake
to spider
to tooth
to tree
to willow
to's-bane
to's-head
to-begotten
to-boy
to-child
to-children
to-colored
to-dog
to-eel
to-eyed
to-gray
to-haunted
to-headed
to-hound
to-hunting
to-man
to-moved
to-scaring
to-shaped
to-slaying
to-suckled
to-fian body
tofram lamp
tofram ocher
tofram steel
to chaser
to child
to movement
to of easy virtue
to of her word
woman of honor
woman of the house
woman of the street
woman of the streets
woman of the town
woman of the world
woman suffrage
woman's editor
woman's intuition
woman's rights
woman-bearing
woman-born
woman-bred
woman-built
woman-child
woman-churching
woman-conquered
woman-daunted
woman-degrading
woman-despising
woman-easy
woman-faced
woman-fair
woman-fashion
woman-flogging
woman-governed
woman-grown
woman-hater
woman-hating
woman-headed
woman-loving
woman-mad
woman-made
woman-man
woman-murdering
woman-proud
woman-ridden
woman-servant
woman-shy
woman-suffrage
woman-suffragist
woman-tended
woman-vested
woman-wary
womb-enclosed
womb-vested
womb-to-tomb security
women's clothing
women's hairdos
women's lib
women's libber
women's liberation
women's liberation activist
women's liberation adherent
women's liberation advocate
women's liberation movement
women's liberationist
women's magazine
women's rightist
women's rights
women's room
women's suffrage
women's chorus
won ton
won ton soup
wonder about
wonder drug
wonder drugs
wonder whether
wonder-beaming
wonder-bearing
wonder-charmed
wonder-dumb
wonder-exciting
wonder-fed
wonder-hiding
wonder-loving
wonder-mocking
wonder-promising
wonder-raising
wonder-seeking
wonder-sharing
wonder-smit
wonder-smitten
wonder-stirring
wonder-stricken
wonder-striking
wonder-struck
wonder-teeming
wonder-waiting
wonder-work
wonder-worker
wonder-working
wonder-wounded
wonder-writing
wonderful thing
wonders of the world
wondrous strange
wonga-wonga
wont-believer
wont-learn
wont-wait
wont-work
wood acid
wood alcohol
wood almond
wood anemone
wood ant
wood apple
wood aster
wood avens
wood awl
wood baboon
wood barker
wood bass
wood bedstraw
wood bender
wood betony
wood bison
wood block
wood boiler
wood borer
wood broom
wood brown
wood buffalo
wood bundle
wood calamint
wood calker
wood carpet
wood carver
wood carving
wood cell
wood cement
wood checker
wood chess
wood chopper
wood clamp
wood cleaner
wood cleaver
wood cloth
wood coal
wood collier
wood copper
wood corn
wood cudweed
wood culver
wood daffodil
wood distiller
wood dove
wood draftsman
wood drake
wood drawing
wood dresser
wood driller
wood duck
wood duster
wood dyer
wood enameler
wood engraver
wood engraving
wood evil
wood facer
wood fagoter
wood feller
wood fern
wood fiber
wood file
wood filler
wood finisher
wood flour
wood flower
wood fretter
wood fringe
wood frog
wood gas
wood gatherer
wood germander
wood grass
wood groundsel
wood grouse
wood grower
wood grubber
wood gum
wood hair grass
wood hen
wood hewer
wood honey
wood hoopoe
wood hyacinth
wood ibis
wood instrument
wood planer
wood plant
wood polisher
wood port
wood pulp
wood pussy
wood quail
wood quartet
wood quintet
wood rabbit
wood range
wood rat
wood ray
wood reed
wood reed grass
wood render
wood robin
wood rose
wood rosin
wood rot
wood rush
wood sage
wood sandpiper
wood saw
wood sawyer
wood scale
wood screw
wood sheldrake
wood shock
wood shrike
wood slave
wood snail
wood snipe
wood sorrel
wood spack
wood spear grass
wood spirit
wood splitter
wood spurge
wood stain
wood stainer
wood stamp
wood star
wood stork
wood stove
wood strawberry
wood sugar
wood swallow
wood tapper
wood tar
wood tenoner
wood terrapin
wood thrush
wood tick
wood tin
wood titmouse
wood tortoise
wood trimmer
wood turner
wood turning
wood turpentine
wood vetch
wood vetchling
wood vine
wood vinegar
wood violet
wood warbler
wood wasp
wood widgeon
wood willower
wood wind
wood wool
wood wren
wood-and-water joey
wood-apple gum
wood-block
wood-block printing
wood-boring
wood-born
wood-bred
wood-built
wood-carver
wood-cased
wood-crowned
wood-cutter
wood-dried
wood-dwelling
wood-eating
wood-embosomed
wood-embossing
wood-encumbered
wood-faced
wood-fibered
wood-fringed
wood-girt
wood-hen
wood-hewing
wood-hooped
wood-kern
wood-keyed
wood-lined
wood-louse
wood-mat
wood-nep
wood-note
wood-nymph
wood-oil-tree family
wood-paneled
wood-paved
wood-pigeon
wood-planing
wood-quest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-sear
wood-sheathed
wood-skirted
wood-sorrel family
wood-sour
wood-spirit
wood-stock
wood-swallow
wood-tar pitch
wood-turning
wood-turning lathe
wood-walled
wood-wind instrument
wood-wind quartet
wood-wind quintet
woodbine green
woodbine-clad
woodbine-covered
woodbine-wrought
woodchat shrike
woodchuck day
woodcock owl
woodcock pilot
woodcock shell
woodcock snipe
woodcock soil
wooden Indian
wooden basket
wooden horse
wooden indian
wooden kimono
wooden nickel
wooden overcoat
wooden shoe
wooden shoes
wooden spoon
wooden spoonist
wooden tongue
wooden wedge
wooden-barred
wooden-bottom
wooden-faced
wooden-featured
wooden-headed
wooden-headedness
wooden-hooped
wooden-hulled
wooden-legged
wooden-lined
wooden-pinned
wooden-posted
wooden-seated
wooden-shoed
wooden-sided
wooden-soled
wooden-tined
wooden-walled
wooden-wheeled
woodgate rust
woodland brown
woodland caribou
woodland goldenrod
woodland primrose
woodland star
woodland sunflower
woods and fields
woods colt
woods cranberry
woods phlox
woods run
woodwind choir
woodwind instrument
woodwind quartet
woodwind section
woodworking chisel
woodworking lathe
woody nightshade
woody-stemmed
wooer-bab
wool breaker
wool burler
wool card
wool carder
wool carding
wool classer
wool classing
wool clip
wool comb
wool comber
wool combing
wool crepe
wool driver
wool extract
wool extractor
wool fast dye
wool fat
wool feeder
wool fell
wool fiber
wool former
wool grade
wool grader
wool grading
wool grass
wool grease
wool green
wool hall
wool hardener
wool mill
wool moth
wool needle
wool oil
wool oiler
wool packer
wool powder
wool sampler
wool scour
wool spinner
wool spinning
wool sponge
wool staple
wool stapler
wool stripper
wool table
wool thistle
wool tree
wool waste
wool wax
wool-backed
wool-bearing
wool-bundling
wool-burring
wool-cleaning
wool-clipper
wool-coming
wool-drying
wool-dyed
wool-eating
wool-flock
wool-fringed
wool-gather
wool-gathering
wool-growing
wool-hetchel
wool-laden
wool-lined
wool-oerburdened
wool-pack
wool-packing
wool-pated
wool-picking
wool-producing
wool-rearing
wool-sorter's disease
wool-staple
wool-stapling
wool-white
wool-witted
wool-woofed
wool-work
woolen draper
woolen drapery
woolen mill
woolen-clad
woolen-frocked
woolen-stockinged
woollen-draaper
woolly aphid
woolly bear
woolly beard grass
woolly foot
woolly mammoth
woolly manzanita
woolly worm
woolly-butted
woolly-coated
woolly-haired
woolly-haried
woolly-head
woolly-headed
woolly-headedness
woolly-leaved
woolly-looking
woolly-minded
woolly-mindedness
woolly-pated
woolly-podded
woolly-tailed
woolly-white
woolly-witted
woolsorter's disease
woolsorters' disease
woolly-headed
wootz steel
worcester china
worcester porcelain
worcestershire sauce
word accent
word arrangement
word association
word association test
word blindness
word boundary
word by word
word class
word contest
word deafness
word for word
word form
word game
word history
word hoard
word in the ear
word letter
word list
word lore
word method
word music
word musician
word of advice
word of command
word of explanation
word of honor
word of mouth
word order
word painter
word painting
word picture
word processing
word processor
word salad
word sign
word square
word stress
word study
word symbol
word time
word to the wise
word value
word-beat
word-blind
word-book
word-bound
word-breaking
word-catcher
word-catching
word-charged
word-clad
word-coiner
word-compelling
word-conjuring
word-deaf
word-dearthing
word-driven
word-for-word
word-for-word translation
word-formation
word-group
word-hoard
word-jobber
word-juggling
word-keeping
word-lore
word-of
word-of-mouth
word-of-mouth evidence
word-of-mouth success
word-paint
word-painting
word-perfect
word-pity
word-seller
word-selling
word-slinger
word-slinging
word-splitting
word-stock
word-wounded
words in their best order
words of wisdom
work a change
work a cure
work against
work against time
work as
work as a team
work at
work away
work back
work basket
work both sides of the street
work camp
work clothes
work cure
work curve
work day and night
work double hours
work double tides
work evil
work farm
work for
work for wages
work force
work function
work hard
work horse
work in
work into
work late
work lead
work like a Trojan
work like a cart horse
work like a coal heaver
work like a dog
work like a galley slave
work like a horse
work like a horse
to
work like a machine
work like a slave
work load
work of Penelope
work of a master
work of a past master
work of an artist
work of art
work of fiction
work of reference
work off
work on
work out
work out a deal
work out beforehand
work over
work overtime
work release
work roller
work school
work sheet
work shift
work shoe
work shoes
work site
work socks
work song
work space
work spreading
work stock
work stone
work stoppage
work ticket
work to windward
work to your advantage
work to your will
work together
work toward
work train
work under pressure
work up
work up into a lather
work up into a passion
work up to
work upon
work week
work well
work wonders
work your fingers to the bone
work your head off
work your head to the bone
work your shift
work your way
work your way up
work yourself into a lather
work yourself into a stew
work yourself into a sweat
work yourself up
work-and-tumble
work-and-turn
work-and-twist
work-and-whirl
work-day
work-harden
work-hardened
work-hour
work-master
work-producing
work-seeking
work-shy
work-shyness
work-stained
work-stopper
work-study
work-study-play plan
work-study-play school
work-up
work-wan
work-weary
work-worn
worked out
worked up
worked up into a lather
worked-up
worker cell
worker comb
worker major
worker minor
worker of evil
worker of ill
worker-correspondent
worker-guard
worker-priest
workhouse sheeting
workhouse test
working asset
working beam
working capital
working card
working class
working day
working dog
working drawing
working face
working fit
working fluid
working force
working gauge
working girl
working hypothesis
working into a lather
working jib
working line
working load
working on
working order
working out a deal
working papers
working party
working pattern
working people
working person
working pit
working plan
working point
working principle
working proposition
working rail
working rod
working rule
working space
working stiff
working strength
working stress
working substance
working toward
working tube
working up
working week
working-capital fund
working-class
working-day
working-man
working-out
workings of the mind
workmen's compensation
workmen's compensation insurance
works committee
works council
works manager
works, the
world ash
world at large
world belt
world beyond the grave
world champion
world communion sunday
world concept
world day of prayer
world economy
world federalism
world federalist
world government
world ground
world island
world language
world line
world myth
world of fashion
world of finance
world of good
world of the dead
world point
world politics
world pound
world power
world premiere
world principle
world process
world series
world soul
world speech
world spirit
world state
world to come
world travel
world tree
world view
world war
world without end
world's oldest profession
world-abhorring
world-abiding
world-abstracted
world-accepted
world-acknowledged
world-adored
world-adorning
world-advancing
world-advertised
world-affecting
world-agitating
world-alarming
world-altering
world-amazing
world-amusing
world-animating
world-anticipated
world-applauded
world-appreciated
world-apprehended
world-approved
world-argued
world-arousing
world-arresting
world-assuring
world-astonishing
world-authorized
world-awed
world-barred
world-beater
world-beating
world-beheld
world-beloved
world-beset
world-borne
world-bound
world-braving
world-broken
world-bruised
world-building
world-burdened
world-busied
world-canvassed
world-captivating
world-celebrated
world-censored
world-censured
world-challenging
world-changing
world-charming
world-cheering
world-choking
world-chosen
world-circling
world-circulated
world-civilizing
world-classifying
world-cleansing
world-comforting
world-commanding
world-commended
world-compassing
world-compelling
world-condemned
world-confounding
world-connecting
world-conquering
world-conscious
world-consciousness
world-constituted
world-consuming
world-contemning
world-contracting
world-contrasting
world-controlling
world-converting
world-copied
world-corrupted
world-corrupting
world-covering
world-creating
world-credited
world-crippling
world-crowding
world-crushed
world-deaf
world-debated
world-deceiving
world-deep
world-defying
world-delighting
world-delivering
world-demanded
world-denying
world-depleting
world-depressing
world-describing
world-deserting
world-desired
world-desolation
world-despising
world-destroying
world-detached
world-detesting
world-devouring
world-diminishing
world-directing
world-disappointing
world-discovering
world-discussed
world-disgracing
world-dissolving
world-distributed
world-disturbing
world-divided
world-dividing
world-dominating
world-dreaded
world-dwelling
world-echoed
world-educating
world-embracing
world-eminent
world-encircling
world-ending
world-enlarging
world-enlightening
world-entangled
world-enveloping
world-envied
world-esteemed
world-excelling
world-exciting
world-famed
world-familiar
world-famous
world-favored
world-fearing
world-felt
world-forgetting
world-forgotten
world-forming
world-forsaken
world-forsaking
world-fretted
world-girdling
world-gladdening
world-governing
world-grasping
world-great
world-grieving
world-hailed
world-hardened
world-hating
world-heating
world-helping
world-honored
world-horrifying
world-humiliating
world-imagining
world-improving
world-infected
world-informing
world-involving
world-jaded
world-jeweled
world-joining
world-kindling
world-knowing
world-known
world-lamented
world-lasting
world-leading
world-leveling
world-lighting
world-line
world-linking
world-long
world-loving
world-mad
world-made
world-marked
world-mastering
world-melting
world-menacing
world-missed
world-mocking
world-mourned
world-moving
world-naming
world-needed
world-neglected
world-nigh
world-noised
world-noted
world-obligating
world-observed
world-occupying
world-offending
world-old
world-opposing
world-oppressing
world-ordering
world-organizing
world-outraging
world-overcoming
world-overthrowing
world-owned
world-paralyzing
world-pardoned
world-patriotic
world-peopling
world-perfecting
world-pestering
world-picked
world-pitied
world-plaguing
world-pleasing
world-poisoned
world-pondered
world-populating
world-portioning
world-possessing
world-power
world-practiced
world-preserving
world-prevalent
world-prized
world-producing
world-prohibited
world-protected
world-raising
world-rare
world-read
world-recognized
world-record holder
world-redeeming
world-reflected
world-regulating
world-rejected
world-rejoicing
world-relieving
world-remembered
world-renewing
world-renowned
world-resented
world-respected
world-restoring
world-revealing
world-reviving
world-revolving
world-ridden
world-round
world-rousing
world-roving
world-ruling
world-sacred
world-sacrificing
world-sanctioned
world-sated
world-saving
world-scarce
world-scattered
world-schooled
world-scouring
world-seasoned
world-self
world-serving
world-settling
world-shaking
world-sharing
world-shocking
world-sick
world-simplifying
world-sized
world-slandered
world-sobered
world-soiled
world-spoiled
world-spread
world-stained
world-startling
world-staying
world-stirring
world-strange
world-studded
world-subduing
world-sufficing
world-supplying
world-supporting
world-surrounding
world-surveying
world-sustaining
world-swallowing
world-taking
world-taming
world-taught
world-tempted
world-tested
world-thrilling
world-tired
world-tolerated
world-tossing
world-traveler
world-troubling
world-turning
world-uniting
world-used
world-valid
world-valued
world-venerated
world-view
world-waited
world-wandering
world-wanted
world-wasting
world-watched
world-wearied
world-wearily
world-weariness
world-weary
world-welcome
world-wept
world-wide
world-widely
world-wideness
world-winning
world-wise
world-without-end
world-witnessed
world-worn
world-wrecking
worldly minded
worldly wisdom
worldly-minded
worldly-mindedly
worm-destroying
crack
worm-driven
crack
worm-eat
crack
worm-eaten
worm-eatenness
worm-eater
worm-eating
worm-gear elevator
worm-geared
worm-gnawed
worm-gnawn
worm-killing
worm-nest
worm-pierced
worm-resembling
worm-reserved
worm-riddled
worm-ripe
worm-shaped
worm-spun
worm-tongued
worm-wheel
worm-wheel hob thread
worm-worn
worm-wrought
wormseed mustard
wormseed oil
wormwood oil
wormwood sage
worn away
worn clothes
worn down
worn out
worn ragged
worn thin
worn to a frazzle
worn to a shadow
worn to rags
worn to the bone
worn to the bones
worn to the stump
worn to threads
worn-down
worn-out
worn-outness
worried sick
worried stiff
worried to a frazzle
worries and cares
worry along
worry beads
worry shoe
worry your head about
worry yourself
worry yourself sick
worry-carl
worse and worse
worse off
worse-affected
worse-applied
worse-bodied
worse-born
worse-bred
worse-calculated
worse-conditioned
worse-disposed
worse-dispositioned
worse-executed
worse-faring
worse-governed
worse-handled
worse-informed
worse-lighted
worse-mannered
worse-mated
worse-named
worse-natured
worse-opinionated
worse-ordered
worse-paid
worse-performed
worse-printed
worse-rated
worse-rulled
worse-satisfied
worse-served
worse-spent
worse-succeeding
worse-taught
worse-tempered
worse-thoughted
worse-timed
worse-treated
worse-typed
worse-utilized
worse-wanted
worse-wrought
worship great store by
worship idols
worship mammon
worship the golden calf
worship the ground you walk on
worship-paying
worst-affected
worst-bred
worst-cast
worst-damaged
worst-deserving
worst-disposed
worst-fashioned
worst-formed
worst-governed
worst-informed
worst-managed
worst-manned
worst-paid
worst-printed
worst-rulled
worst-served
worst-taught
worst-timed
worst-treated
worst-used
worst-wanted
worsted-stocking knave
worth a great deal
worth a king's ransom
worth a pretty penny
worth having
worth its weight in gold
worth the money
worth your salt
worth your while
worth-while
worth-wheleness
worthless as tits on a boar
worthless fellow
worthy of
worthy of faith
wot not of
wot of
wou-wou
would as leave
would as lief
would as lief as not
would be glad of
would fain do
would fain have
would rather not
would-be
would-be gentleman
would-have-been
wound chevron
wound cork
wound fever
wound fungus
wound gall
wound parasite
wound rocket
wound shock
wound string
wound to the quick
wound up
wound-dressing
wound-fevered
wound-free
wound-inflicting
wound-marked
wound-plowed
wound-producing
wound-scarred
wound-secreted
wound-up
wound-worn
wounded pride
wounds immedicable
wove paper
woven-wire
wow-wow
wowie zowie
wr-
wrack and ruin
wrack grass
wrack the nerves
wrack up
wracked with age
wrangle over
wrap about
wrap around
wrap up
wrap yourself in
wrap-
wrap-around
wrap-rascal
wrap-round
wrap-up
wrapped in
wrapped in clouds
wrapped in mystery
wrapped in thought
wrapped in wonder
wrapped up
wrapped up in
wrapped up in yourself
wrapping paper
wrapping-gown
wrath-allaying
wrath-bewildered
wrath-consumed
wrath-faced
wrath-kindled
wrath-kindling
wrath-provoking
wrath-swollen
wrath-wreaking
wrathful-eyed
wreak havoc
wreak havoc on
wreak your vengeance
wreathe around
wreathed column
wreck buoy
wreck gun
wreck master
wreck of your former self
wreck-bestrewn
wreck-causing
wreck-devoted
wreck-free
wreck-raising
wreck-strewn
wreck-threatening
wrecking bar
wrecking car
wrecking crane
wrecking frog
wrecking pump
wren babbler
wren tit
wren warbler
wren-thrush
wren-tit
wrench fit
wrench forger
wrench from
wrench hammer
wrench head
wrest block
wrest from
wrest out
wrest pin
wrest plank
wrestling out
wrestle with
wrestling hold
wrestling match
wrestling meet
wrestling ring
wrestling school
wretched lot
wretched of the earth
wretched-fated
wretched-looking
wretched-witched
wriggle out of
wriggle yourself into
wring from
wring out
wring the heart
wring your hands
wring washer
wringing fit
wringing machine
wringing wet
wringing-wet
wrinkle-coated
wrinkle-faced
wrinkle-fronted
wrinkle-furrowed
wrinkle-making
wrinkle-scaled
wrinkled like a prune
wrinkled-browed
wrinkled-cheeked
wrinkled-leaved
wrinkled-old
wrinkled-shelled
wrinkled-visaged
wrist clonus
wrist drop
wrist joint
wrist pin
wrist plate
wrist shot
wrist watch
wrist-drop
writ of assistance
writ of certiorari
writ of election
writ of error
writ of execution
writ of extent
writ of habeas corpus
writ of privilege
writ of prohibition
writ of protection
writ of right
writ of summons
write a letter
write between the lines
write destination
write down
write home about
write in
write in prose
write into your will
write off
write out
write poetry
write prose
write to
write up
write up a report
write upon
write your own ticket
write yourself a man
write-down
write-in
write-in campaign
write-in vote
write-off
write-up
writer to the signet
writer's block
writer's cramp
writer's itch
writer's palsy
writer's spasm
writer-in-residence
writing board
writing brush
writing cabinet
writing case
writing desk
writing exercise
writing expert
writing fluid
writing frame
writing ink
writing lesson
writing machine
writing machines
writing master
writing material
writing materials
writing on the wall
writing pad
writing paper
writing reed
writing room
writing set
writing stamps
writing style
writing system
writing systems
writing table
writing tablet
writing telegraph
writing-table
writing paper
written character
written communication
written constitution
written down
written examination
written hand
written language
written law
written matter
written music
wrong conduct
wrong construction
wrong font
wrong foot
wrong fount
wrong impression
wrong linking
wrong move
wrong name
wrong number
wrong side
wrong side of your face
wrong side out
wrong step
wrong time
wrong use
wrong-directed
wrong-doer
wrong-ended
wrong-endedness
wrong-feigned
wrong-foot
wrong-gotten
wrong-grounded
wrong-headed
wrong-headedly
wrong-headedness
wrong-jawed
wrong-minded
wrong-mindedly
wrong-mindedness
wrong-ordered
wrong-principled
wrong-screwed
wrong-thinking
wrong-timed
wrong-voting
wrong-way
wrong-way around
wroth money
wroth penny
wroth silver
wrought iron
wrought iron casting
wrought out
wrought up
wrought up by
wrought-iron
wrought-up
wry face
wry mouth
wry-armed
wry-billed
wry-blown
wry-eyed
wry-faced
wry-formed
wry-guided
wry-legged
wry-looked
wry-mouthed
wry-necked
wry-neckedness
wry-nosed
wry-set
wry-tailed
wry-toothed
wu-su
wu-wei
wung-out
wych elm
wych-elm
wych-hazel
wye level
x chromosome
x height
x in
x number
x out
x ray
x rays
x-axis
x-disease
x-ed
x-height
x-high
x-ing
x-line
x-out
x-radiation
x-ray
x-ray astronomy
x-ray crystallography
x-ray photograph
x-ray photography
x-ray star
x-ray therapy
x-ray tube
x-shaped
x-stretcher
x-unit
xanth-
xanthd-
xanthene dye
xanthic acid
xantho-
xanthoproteic acid
xaverian brother
xen-
xenic acid
xeno-
xenon hexafluoride
xenon tetrafluoride
xer-
xero-
xeroderma pigmentosum
xi-particle
xiphi-
xiphoid process
xyl-
xylem parenchyma
xylem ray
xylene blue
xylic acid
xylite oil
xylo-
xyloglyphic artist
xylonic acid
y chromosome
y tile
y-
y-axes
y-axis
y-bake
y-blend
y-blenies
y-blenny
y-blent
y-cast
y-clept
y-end
y-painted
y-pointing
y-rapt
y-scalded
y-ssed
y-warn
ya-ta-ta
yaba bark
yacca gum
yacht berth
yacht builder
yacht chair
yacht club
yacht decorator
yacht designer
yacht engineer
yacht ensign
yacht gear
yacht propeller
yacht race
yacht racing
yacht rigging
yacht rope
yacht squadron
yacht-built
yachtman's anchor
yackety-yack
yackety-yak
yackety-yakked
yackety-yakkling
yak-yak
yakety-yak
yakety-yakked
yakety-yakkling
yakity-yak
yakkety-yak
yam bean
yam family
yam potato
yam stick
yam tree
yam-root
yammer yawp
yang-kin
yankee-doodle
yap at
yapp binding
yard boy
yard cleaner
yarn printer
yarn reel
yarn reeler
yarn remover
yarn sizer
yarn sorter
yarn spinner
yarn spinning
yarn spreader
yarn stretcher
yarn stripper
yarn tester
yarn twister
yarn warper
yarn washer
yarn waste
yarn weigher
yarn winder
yarn-boiling
yarn-cleaning
yarn-dye
yarn-dyed
yarn-measuring
yarn-mercerizing
yarn-spinning
yarn-testing
yate tree
yaw off
yaw shrub
yaw-haw
yaw-sighted
yaw-ways
yaw-yaw
yawl boat
yawl-rigged
yawning abyss
yawning chasm
yawning depths
yay big
ye do
ye-makimono
yea sayer
yea vote
yea-and-nay
yea-and-nayish
yea-nay
yea-sayer
yea-saying
yellow metal  
yellow mombin  
yellow ocher  
yellow pages  
yellow perch  
yellow peril  
yellow perilla  
yellow pikeperch  
yellow pine  
yellow pitcher pla  
yellow pitcher plant  
yellow poplar  
yellow prussiate of potash  
yellow puccoon  
yellow race  
yellow rust  
yellow skin  
yellow spot  
yellow star  
yellow stonecrop  
yellow streak  
yellow stuff  
yellow trillium  
yellow tuft  
yellow warbler  
yellow water lily  
yellow-aproned  
yellow-armed  
yellow-backed  
yellow-banded  
yellow-bark  
yellow-bark oak  
yellow-barked  
yellow-barred  
yellow-beaked  
yellow-bearded  
yellow-bellied  
yellow-bellied sapsucker  
yellow-bellied woodpecker  
yellow-belly  
yellow-billed  
yellow-billed cuckoo  
yellow-billed magpie  
yellow-black  
yellow-blossomed  
yellow-blotched  
yellow-bodied  
yellow-breasted
yellow-breasted chat
yellow-browed
yellow-brown
yellow-capped
yellow-centered
yellow-checked
yellow-checkered
yellow-chinned
yellow-collared
yellow-colored
yellow-complexioned
yellow-covered
yellow-crested
yellow-cross
yellow-cross liquid
yellow-crowned
yellow-crowned night heron
yellow-daisy
yellow-dog
yellow-dog contract
yellow-dotted
yellow-dun
yellow-dye
yellow-dye tree
yellow-dyed
yellow-eared
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
yellow-faced
yellow-feathered
yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
yellow-flagged
yellow-fleeced
yellow-fleshed
yellow-flowered
yellow-flowering
yellow-footed
yellow-fringed
yellow-fronted
yellow-fruitied
yellow-funneled
yellow-girted
yellow-gloved
yellow-green
yellow-green alga
yellow-haired
yellow-hammer
yellow-handed
yellow-headed
yellow-headed blackbird
yellow-hilted
yellow-horned
yellow-hosed
yellow-jerkined
yellow-labeled
yellow-leaved
yellow-legged
yellow-legger
yellow-legginged
yellow-lettered
yellow-lit
yellow-locked
yellow-lustered
yellow-maned
yellow-marked
yellow-necked
yellow-nosed
yellow-olive
yellow-orange
yellow-painted
yellow-papered
yellow-pinioned
yellow-pyed
yellow-rayed
yellow-red
yellow-ringged
yellow-ringleted
yellow-ripe
yellow-robed
yellow-rooted
yellow-rumped
yellow-sallow
yellow-seal
yellow-sealed
yellow-shafted
yellow-shafted flicker
yellow-shanked
yellow-shouldered
yellow-skinned
yellow-skirted
yellow-speckled
yellow-splotched
yellow-spotted
yellow-sprinkled
yellow-stained
yellow-starched
yellow-striped
yellow-tailed
yellow-throated
yellow-throated vireo
yellow-tinged
yellow-tinging
yellow-tinted
yellow-tipped
yellow-toed
yellow-tressed
yellow-tufted
yellow-vented
yellow-washed
yellow-white
yellow-winged
yellowfin tuna
yellowish-amber
yellowish-brown
yellowish-colored
yellowish-gold
yellowish-gray
yellowish-green
yellowish-green-yellow
yellowish-haired
yellowish-orange
yellowish-pink
yellowish-red
yellowish-red-yellow
yellowish-rose
yellowish-skinned
yellowish-tan
yellowish-white
yelly-hoo
yelly-hooing
yelp at
yen for
yeoman of the guard
yeoman service
yeoman's service
yeomen of the guard
yerba buena
yerba mansa
yerba mate
yerba reuma
yerba sagrada
yerba santa
yerba-mate
yerk out
yes indeed
yes indeedy
yes ma'am
yes man
yes sir
yes sirree
yes-and-no answer
yes-man
yes-no
yes-noer
yes-noism
yeshiva bocher
yester-
yester-year
yesterday and today and forever
yet again
yew berry
yew family
yew green
yew pine
yew tree
yew-besprinkled
yew-crested
yew-hedged
yew-leaved
yew-roofed
yew-shaded
yew-treed
yi tsing ware
yield a profit
yield again to
yield an aroma
yield an odor
yield assent
yield hope
yield point
yield strength
yield stress
yield the floor
yield the ghost
yield the palm
yield the spirit
yield to
yield to despair
yield to maturity
yield value
yield your breath
yielding a return
yielding prop
yill-caup
ylang-ylang
yo-heave-ho
yo-ho
yo-ho-ho
yo-kyoku
yo-yo
yoga trance
yohimbe bark
yoke bone
yoke devil
yoke elm
yoke front
yoke method
yoke riveter
yoke with
yoke-footed
yoke-toed
yolk bag
yolk boil
yolk cord
yolk duct
yolk gland
yolk nucleus
yolk plate
yolk plug
yolk sac
yolk stalk
yolk yellow
yom kippur
yom tob
yom tobs
yom tov
yom tovs
yomin tovim
yoo-hoo
york rite
yorkshire pudding
yorkshire terrier
you and me
you are mistaken
you are right
you are wrong
you bet
you bet your boots
you bet your life
you better believe it
you can bank on it
you can bet on it
you can bet your bottom dollar
you can just bet
you can make book on it
you can say that again
you can't go wrong
you don't say
you have another guess coming
you name it
you said a mouthful
you said it
you should live so long
you speak truly
you too
you're all wet
you're darn tootin'
you're not kidding
you're telling me
you're way off
you've got it
you've got me
you've got something there
you-all
you-be-damned
you-be-damnedness
you-know-what
you-know-who
you-uns
young animal
young bird
young blood
young buck
young cat
young chicken
young cow
young creature
young deer
young devil
young dog
young duck
young frog
young fry
young fustic
young generation
young goat
young goose
young hopeful
young horse
young hyson
young insect
young lady
young man
young one
young people
young person
young pig
young sheep
young thing
young turk
young whippersnapper
young woman
young-bladed
young-chinned
young-conscienced
young-counseled
young-eyed
young-headed
young-ladydom
young-ladyfied
young-ladyhood
young-ladyish
young-ladyism
young-ladylike
young-ladyship
young-looking
young-manhood
young-manlike
young-manliness
young-manly
young-mannish
young-mannishness
young-manship
young-old
young-winged
young-womanhood
young-womanish
young-womanishness
young-womanlike
young-womanly
young-womanship
young-yeared
younger generation
youngest-born
your adieus
your all
your ancestors
your applecart
your best
your best effort
your best endeavor
your betters
your blind side
your blood
your crowd
your cup of tea
your days are numbered
your doom is sealed
your due
your fathers
your grain
your head off
your hour
your hour is come
your last hour
your level best
your native ground
your native heath
your native place
your number is up
your own choice
your own discretion
your own initiative
your own level
your own man
your own will
your race is run
your ribs
your say
your set
your turn
your utmost
your worth
yours truly
youth club
youth group
youth hood
youth hostel
youth hosteler
youth market
youth offender
youth-bold
youth-consuming
youthful offender
youthful spirits
ytterbium metal
ytterbium oxide
yttrium metal
yttrium oxide
yttro-
yuan dollar
yucca borer
yucca cactus
yucca fertilizer
yucca moth
yucca palm
yucca pollenizer
yuk-yuk
yukon time
yule block
yule clog
yule log
yum-yum
z iron
z term
z-axes
z-axis
zB
zZt
za-zen
zacate limon
zanona palm
zante fustic
zapota gum
zeal-blind
zeal-consuming
zeal-inflamed
zeal-inspiring
zeal-pretending
zeal-quenching
zeal-scoffing
zeal-transported
zeal-worthy
zebra antelope
zebra bird
zebra caterpillar
zebra crossing
zebra finch
zebra fish
zebra grass
zebra opossum
zebra parakeet
zebra plant
zebra poison
zebra shark
zebra spider
zebra swallowtail
zebra wolf
zebra-back
zebra-plant
zebra-tailed
zebra-tailed lizard
zebrwood family
zebu cattle
zee bar
zeeman effect
zenaida dove
zend-avesta
zenith blue
zenith collimator
zenith distance
zenith point
zenith sector
zenith star
zenith telescope
zenith tube
zenith-pole
zenith-pole arc
zenith-star arc
zenithal projection
zephr worsted
zephyr cloth
zephyr flower
zephyr lily
zephyr shawl
zephyr shirting
zephyr worsted
zephyr yarn
zephyr-fanned
zephyr-haunted
zephyr-kissed
zero ablaut grade
zimocca sponge
zinc alkyl
zinc amide
zinc blende
zinc bloom
zinc bromide
zinc carbonate
zinc chloride
zinc chromate
zinc chrome
zinc crust
zinc dust
zinc engraving
zinc etching
zinc ethide
zinc ethyl
zinc fixer
zinc flowers
zinc gray
zinc green
zinc methide
zinc methyl
zinc ointment
zinc orange
zinc oxide
zinc phosphide
zinc sender
zinc spar
zinc spinel
zinc standard cell
zinc stearate
zinc sulfate
zinc sulfide
zinc sulphate
zinc sulphide
zinc vitriol
zinc white
zinc yellow
zinc-coated
zinc-etched
zinc-lined
zinc-roofed
zinc-sampler
zinco-
zinco-polar
zip code
zip fastener
zip gun
zip through
zip up
zircon lamp
zircon light
zircon-syenite
zirconium dioxide
zirconium oxide
zo-
zodiacal constellation
zodiacal light
zona pellucida
zonae pellucidae
zonal soil
zone axis
zone catalogue
zone fire
zone line
zone melting
zone of communications
zone of fire
zone of interior
zone of no signal
zone phenomenon
zone plate
zone refining
zone system
zone tariff
zone time
zone-confounding
zone-marked
zone-tailed
zoning act
zoning commission
zoning law
zoning laws
zoning ordinance
zonked out
zono-
zoo-
zoo-ecologist
zoo-ecology
zoogenic infection
zoological garden
zoom binoculars
zoom in
zoom lens
zoom shot
zoot suit
zoot-suiter
zwitter ion
zyg-
zygo-
zygomatic arch
zygomatic bone
zygomatic process
zym-
zymo-

Found in path(s):
No license file was found, but licenses were detected in source scan.

aa
aah
aahed
aahing
aahs
aal
aali
aaliis
aals
aardvark
aardvarks
aardwolf
aardwolves
aas
aasvogel
aasvogels
aba
abaca
abacas
abaci
aback
abacus
abacuses
abaft
abaka
abakas
abalone
abalones
abamp
abampere
abamperes
abamps
abandon
abandoned
abandoning
abandonment
abandonments
abandons
abas
abase
abased
abasedly
abasement
abasements
abaser
abasers
abases
abash
abashed
abashes
abashing
abasing
abatable
abate
abated
abatement
abatements
abater
abaters
abates
abating
abatis
abatises
abator
abators
abattis
abattises
abattoir
abattoirs
abaxial
abaxile
abbacies
abbacy
abbatial
abbe
abbes
abbess
abbesses
abbey
abbeys
abbot
abjuration
abjurations
abjure
abjured
abjurer
abjurers
abjures
abjuring
ablaze
able
ablegate
ablegates
abler
ables
ablest
ablings
ablins
abloom
abluent
ablunteers
ablush
abluted
ablution
ablutions
ably
abmho
abmhos
abnegate
abnegated
abnegates
abnegating
abnegation
abnegations
abnormal
abnormalities
abnormality
abnormally
abnormals
abo
aboard
abode
aboded
abodes
aboding
abohm
abohms
aboideau
aboideaus
aboideaux
aboil
aboiteau
aboiteaus
aboiteaux
abolish
abolished
abolishes
abolishing
abolition
abolitions
abolla
abollae
aboma
abomas
abomas
abomasa
abomasal
abomas
abomasum
abomasus
abominable
abominate
abominate
abominates
abominating
abomination
abominations
aboon
aboral
aborally
aboriginal
aborigine
aborigines
aborning
abort
aborted
aborter
aborters
abridgment
abridgments
abris
abroach
abroad
abrogate
abrogated
abrogates
abrogating
abrupt
abrupter
abruptest
abruptly
abscess
abscessed
abscesses
abscessing
abscise
abscised
abscises
abscisin
abscising
abscisins
abscissa
abscissae
abscissas
abscend
abscended
abscending
absconds
absence
absences
absent
absented
absentee
absentees
absenter
absenters
absenting
absently
absentminded
absentmindedly
absentmindedness
absentmindednesses
absents
absinth
absinthe
absinthes
abuts
abuttal
abuttals
abutted
abutter
abutters
abutting
abuzz
abvolt
abvolts
abwatt
abwatts
aby
abye
abyed
abyes
abying
abys
abysm
abysmal
abysmally
abysms
abyss
abyssal
abysses
acacia
acacias
academe
academes
academia
academias
academic
academically
academics
academies
academy
acajou
acajous
acaleph
acalephae
acalephe
acalephes
acalephs
acanthi
acanthus
acanthuses
acari
acarid
acceptees
accepter
accepters
accepting
acceptor
acceptors
accepts
access
accessed
accesses
accessibilities
accessibility
accessible
accessing
accession
acessions
accessories
accessory
accident
accidental
accidentally
accidentals
accidents
accidie
accidies
acclaim
acclaimed
acclaiming
acclams
acclamation
acclamations
acclimates
acclimated
acclimating
acclimation
acclimations
acclimatization
acclimatizations
acclimatize
acclimatizes
accolade
accolades
accommodate
accommodated
accommodates
accommodating
accommodation
acetifying
acetone
acetones
acetonic
acetose
acetous
acetoxyl
acetoxyls
acetum
acetyl
acetylene
acetylenes
acetylic
acetyl
ache
ached
achene
achenes
achenial
aches
achier
achiest
achievable
achieve
achieved
achievement
achievements
achiever
achievers
achieves
achieving
achiness
achinesses
aching
achingly
achiote
achiotes
achoo
achromat
achromats
achromatic
achy
acicula
aciculae
acicular
aciculas
acid
acidhead
acidheads
acidic
acidified
acidifies
acidify
acidifying
acidities
acidity
acidly
acidness
acidnesses
acidoses
acidosis
acidotic
acids
acyd
acrierate
acierated
acierates
acierating
aciform
acinar
acing
acini
acinic
acinose
acinous
acinus
acknowledge
acknowledged
acknowledgement
acknowledgements
acknowledges
acknowledging
acknowledgment
acknowledgments
aclinic
acmatic
acme
acmes
acmic
acne
acned
acnes
acnode
acnodes
acock
acold
adamancies
adamancy
adamant
adamanties
adamantly
adamants
adamsite
adamsites
adapt
adaptabilities
adaptability
adaptable
adaptation
adaptations
adapted
adapter
adapters
adapting
adaption
adaptons
adaptive
adaptor
adders
adapts
adaxial
add
addable
addax
addaxes
added
addedly
addend
addenda
addends
addendum
adder
adders
addible
addict
addicted
addicting
addiction
addictions
addictive
addicts
adding
addition
additional
aeronautically
aeronautics
aeronauts
aeronomies
aeronomy
aerosol
aerosols
aerospace
aerostat
aerostats
aerugo
aerugos
aery
aesthete
aesthetes
aesthetic
aesthetically
aesthetics
aestival
aether
aetheric
aethers
afar
afars
afeard
afeared
aff
affabilities
affability
affable
affably
affair
affaire
affaires
affairs
affect
affectation
affectations
affected
affectedly
affecter
affecters
affecting
affectingly
affection
affectionate
affectionately
affections
affects
afferent
affiance
affianced
affiances
affiancing
affiant
affiants
affiche
affiches
affidavit
affidavits
affiliate
affiliated
affiliates
affiliating
affiliation
affiliations
affine
affined
affinely
affines
affinities
affinity
affirm
affirmation
affirmations
affirmative
affirmatively
affirmatives
affirmed
affirmer
affirmers
affirming
affirms
affix
affixal
affixed
affixer
affixers
affixes
affixial
affixing
afflatus
afflatuses
afflict
afflicted
afflicting
agists
agitable
agitator
agitated
agitators
agitation
agitations
agitato
agitator
agitatators
agitprop
agitprops
aglare
agleam
aglee
aglet
aglets
agley
aglimmer
aglitter
aglow
agly
aglycon
aglycone
aglycones
aglycons
agma
agmas
agminate
agnail
agnails
agnate
agnates
agnatic
agnation
agnations
agnize
agnized
agnizes
agnizing
agnomen
agnomens
agnomina
agnostic
agnostic
agnostic
agnostic
agog
agon
agonal
agone
agones
agonic
agonies
agonise
agonised
agonises
agonising
agonist
agonists
agonize
agonized
agonizes
agonizing
agonizingly
agons
agony
agora
agorae
agoras
agorot
agoroth
agouti
agouties
agoutis
agouty
agrafe
agrafes
agraffe
agraffes
agraffe
agraffes
agrapha
agraphia
agraphias
agraphic
agrar
agrarism
agrarisms
agrarism
agree
agreeable
agreeableness
agreeableness
agreed
agreeing
agreement
agreements
airline
airliner
airliners
airlines
airmail
airmailed
airmailing
airmails
airman
airmen
airn
airs
airpark
airparks
airplane
airplanes
airport
airports
airpost
airposts
airproof
airproofed
airproofing
airproofs
airs
airscrew
airscrews
airship
airships
airsick
airspace
airspaces
airspeed
airspeeds
airstrip
airstrips
airstrip
airtight
airward
airwave
airwaves
airway
airways
airwise
airwoman
airwomen
airy
ais
aisle
aisled
aisles
aitez
ait
aitch
aitches
aits
aiver
aivers
ajar
ajee
ajiva
ajivas
ajowan
ajowans
akee
akees
akela
akelas
akene
akenes
akimbo
akin
akvavit
akvavits
ala
alabaster
alabasters
alack
alacrities
alacrity
alae
alamada
alamadas
alamo
alamode
alamodes
alamos
alan
aland
alands
alkalities
alkalinity
alkalis
alkalise
alkalised
alkalis
alkalising
alkalize
alkalized
alkalizes
alkalizing
alkaloid
alkaloids
alkane
alkanes
alkanet
alkanets
alkene
alkenes
alkine
alkines
alkoxy
alkyd
alkyds
alkyl
alkylate
alkylated
alkylates
alkylating
alkyllic
alkyls
alkyne
alkynes
all
allanite
allanites
allay
allayed
allayer
allayers
allaying
allays
allegation
allegations
allege
alleged
allegedly
alleger
amanuensis
amaranth
amaranth
amarelle
amarelles
amarna
amaryllis
amaryllises
amas
amass
amassed
amasser
amassers
amasses
amassing
amateur
amateurish
amateurism
amateurisms
amateurs
amative
amatol
amatols
amatory
amaze
amazed
amazedly
amazement
amazements
amazes
amazing
amazingly
amazon
amazonian
amazons
ambage
ambages
ambari
ambaries
ambaris
ambary
ambassador
ambassadorial
ambassadors
ambassadorship
ambassadorships
ambeer
ambeers
amber
ambergris
ambergrises
amberies
amberoid
amberoids
ambers
ambery
ambiance
ambiances
ambidextrous
ambidextrously
ambience
ambiences
ambient
ambients
ambiguities
ambiguity
ambiguous
ambit
ambition
ambitioned
ambitioning
ambitions
ambitious
ambitiously
ambits
ambivalence
ambivalences
ambivalent
ambivert
ambiverts
amble
ambled
ambler
amblers
ambles
ambling
ambo
amboina
amboinas
ambones
ambos
amboyna
amboynas
ambries
ambroid
ambroids
amie
amies
amiga
amigas
amigo
amigos
ami
amine
amines
aminic
aminities
aminity
amino
amins
amir
amirate
amirates
amirs
amis
amiss
amities
amitoses
amitosis
amitotic
amitrole
amitroles
amity
ammeter
ammeters
ammine
ammines
ammino
amino
ammo
ammocete
ammocetes
ammonal
ammonals
ammonia
ammoniac
ammoniacs
ammonias
amnonic
amnonified
amnonifies
amnonify
amnonifying
ammonite
ammonites
ammonium
ammoniums
ammonoid
ammonoids
ammos
ammunition
ammunitions
amnesia
amnesiac
amnesiacs
amnesias
amnesic
amnesics
amnestic
amnestied
amnesties
amnesty
amnestying
amnja
amnic
ammion
amnionic
amnions
amniote
amnionts
amniotic
amoeba
amoebae
amoeban
amoebas
amoebbean
amoebic
amoeboid
amok
amoks
amo1e
amo1es
among
amongst
amoral
amorally
amoretti
amoretto
amoretto
amoretto
amorini
amorino
amorist
amorists
amoroso
amorous
amorously
amorousness
amorousnesses
amorphous
amort
amortise
amortised
amortises
amortising
amortization
amortizations
amortize
amortized
amortizes
amortizing
amotion
amotions
amount
amounted
amounting
amounts
amour
amours
amp
amperage
amperages
ampere
amperes
ampersand
ampersands
amphibia
amphibian
amphibians
amphibious
amphioxi
amphipod
amphipods
amphitheater
amphitheaters
amphora
amphorae
amphoral
amphoras
ample
ampler
amplest
amplification
amplifications
amplified
amplifier
amplifiers
amplifies
amplify
amplifying
amplitude
amplitudes
amply
ampoule
ampoules
amps
ampul
ampule
ampules
ampulla
ampullae
ampullar
ampuls
amputate
amputated
amputates
amputating
amputation
amputations
amputee
amputees
amreeta
amreetas
amrita
amritas
amtrac
amtrack
amtracks
amtracs
amu
amuck
amucks
amulet
amulets
amus
amusable
amuse
amused
amusedly
amusement
anaesthesiology
anaesthetic
anaesthetics
anaglyph
anaglyphs
anagoge
anagoges
anagogic
anagogies
anagogy
anagram
anagrammed
anagramming
anagrams
anal
analcime
analcimes
analcite
analcites
analecta
analects
analemma
analemmas
analemmata
analgesic
analgesics
analgia
analgies
analities
anality
analyly
analog
analogic
analogical
analogically
analogies
analogously
analogs
analogue
analogues
analogy
analyse
analysed
analyser
analysers
analyses
analysing
analysis
anatoxin
anatoxins
anatto
anattos
ancestor
ancestors
ancestral
ancestress
ancestresses
ancestries
ancestry
anchor
anchorage
anchorages
anchored
anchoret
anchorets
anchoring
anchorman
anchormen
anchors
anchovies
anchovy
anchusa
anchusas
anchusin
anchusins
ancient
ancienter
ancientest
ancients
ancilla
ancillae
ancillary
ancillas
ancon
anconal
ancone
anconeal
ancones
anconoid
ancress
ancresses
and
andante
andantes
anded
andesite
andesites
andesyte
andesytes
andiron
andirons
androgen
andro gens
androgy nous
android
androids
ands
ane
anear
aneared
anearing
anears
anecdota
anecdotal
anecdote
anecdotes
anechoic
anele
aneled
aneles
aneling
anemia
anemias
anemic
anemone
anemones
anenst
ament
anergia
anergias
anergic
anergies
anergy
aneroid
aneroids
anes
anesthesia
anesthesias
anesthetic
anesthetics
anesthetist
anesthetists
anesthetize
anesthetized
anesthetizes
anesthetizing
anestri
anestrus
anethol
anethole
anetholes
anethols
aneurism
aneurisms
aneurysm
aneurysms
anew
anga
angaria
angarias
angaries
angary
angas
angel
angelic
angelica
angelical
angelically
angelicas
angels
angelus
angeluses
anger
angered
angering
angerly
angers
angina
anginal
anginas
anginose
anginous
angioma
angiomas
angiomata
angle
angled
anglepod
anglepods
angler
anglers
angles
angleworm
angleworms
anglice
angling
anglings
angora
angoras
angrier
angriest
angrily
angry
angst
angstrom
angstroms
angsts
anguine
anguish
anguished
anguishes
anguishing
angular
angularities
angularity
angulate
angulated
angulates
angulating
angulose
angulous
anhinga
anhingas
ani
anil
anile
anilin
aniline
anilines
anilins
anilities
anility
anils
anima
animal
animally
animals
animas
animate
animated
ankylose
ankylosed
ankyloses
ankylosing
anlase
anlases
anlage
anlagen
anlages
anlas
anlases
anna
annal
annalist
annalists
annals
annas
annates
annatto
annattos
anneal
annealed
annealer
annealers
annealing
anneals
annelid
annelids
annex
annexation
annexations
annexe
annexed
annexes
annexing
annihilate
annihilated
annihilates
annihilating
annihilation
annihilations
anniversaries
anniversary
annotate
annotated
annotates
annotating
annotation
anodized
anodizes
anodizing
anodyne
anodynes
anodynic
anoint
anointed
anointer
anointers
anointing
anointment
anointments
anoints
anole
anoles
anolyte
anolytes
anomalies
anomalous
anomaly
anomic
anomie
anomies
anomy
anon
anonym
anonymities
anonymity
anonymous
anonymously
anonyms
anoopsia
anoopsias
anopia
anopias
anopsia
anopsias
anorak
anoraks
anoretic
anorexia
anorexias
anorexies
anorexy
anorthic
anosmia
anosmias
anosmic
another
anoxemia
anoxemias
anoxic
anoxias
ansa
ansae
ansate
ansated
anserine
anserines
anserous
answer
answerable
answered
answerer
answerers
answering
answers
ant
anta
antacid
antacids
antae
antagonism
antagonisms
antagonist
antagonistic
antagonists
antagonize
antagonized
antagonizes
antagonizing
antalgic
antalgics
antarctic
antas
ante
anteater
anteaters
antebellum
antecede
anteceded
antecedent
antecedents
anthoid
anthologies
anthology
anthraces
anthracite
anthracites
anthrax
anthropoid
anthropological
anthropologist
anthropologists
anthropology
anti
antiabortion
antiacademic
antiadministration
antiaggression
antiaggressive
antiaircraft
antialien
antianarchic
antianarchist
antiannexation
antiapartheid
antiar
antiarin
antiarins
antiaristocrat
antiaristocratic
antiars
antiatheism
antiatheist
antiauthoritarian
antibacterial
antibiotic
antibiotics
antiblack
antibodies
antibody
antibourgeois
antiboxing
antiboycott
antibureaucratic
antiburglar
antiburglary
antibusiness
antic
anticancer
anticapitalism
anticapitalist
anticapitalistic
anticensorship
antichurch
anticigarette
anticipate
anticipated
anticipates
anticipating
anticipation
anticipations
anticipatory
antick
anticked
anticking
anticks
anticlerical
anticlimactic
anticlimax
anticlimaxes
anticly
anticollision
anticolonial
anticommunism
anticommunist
anticonservation
anticonservationist
anticonservative
anticonsumer
anticonventional
anticorrosive
anticorruption
anticrime
anticruelty
antics
anticultural
antidandruff
antidemocratic
antidiscrimination
antidote
antidotes
antidumping
anteavesdropping
antiemetic
antiemetics
antiestablishment
antievolution
antievolutionary
antifanatic
antifascism
antifascist
antifat
antifatigue
antifemale
antifeminine
antifeminism
antifeminist
antifertility
antiforeign
antiforeigner
antifraud
antifreeze
antifreezes
antifungus
antigambling
antigen
antigene
antigenes
antigens
antiglare
antigonorrheal
antigovernment
antigraft
antiguerilla
antihero
antiheroes
antihijack
antihistamine
antihistamines
antihomosexual
antihuman
antihumanism
antihumanistic
antihumanity
antihunting
antijamming
antiking
antikings
antilabor
antiliberal
antiliberalism
antilitter
antilittering
antilog
antilogies
antilogs
antilogy
antilyching
antimanagement
antimask
antimasks
antimaterialism
antimaterialistic
antimere
antimeres
antimicrobial
antimilitarism
antimilitarist
antimilitaristic
antimilitary
antimiscegenation
antimonies
antimonopolist
antimonopoly
antimony
antimosquito
anting
antings
antinode
antinodes
antinoise
antinomies
antinomy
antiobesity
antipapal
antipathies
antipathy
antipersonnel
antiphon
antiphons
antipode
antipodes
antipole
antipoles
antipolice
antipollution
antipope
antipopes
antipornographic
antipornography
antipoverty
antiprofiteering
antiprogressive
antiprostitution
antipyic
antipyics
antipyretic
antiquarian
antiquarianism
antiquarians
antiquaries
antiquary
antiquated
antique
antiqued
antiquer
antiquers
antiques
antiquing
antiquities
antiquity
antirabies
antiracing
antiracketeering
antiradical
antirealism
antirealistic
antirecession
antireform
antireligious
antirepublican
antirevolutionary
antirobbery
antiromantic
antirust
antirusts
antis
antisegregation
antiseptic
antiseptically
antiseptics
antisera
antisexist
antisexual
antishoplifting
antiskid
antislavery
antismog
antismoking
antismuggling
antispending
antistrike
antistudent
antisubmarine
antisubversion
antisubversive
antisuicide
antisyphilis
antitank
antitax
antitechnological
antitechnology
antiterrorism
antiterrorist
antitheft
antitheses
antithesis
antitobacco
antitotalitarian
antitoxin
antitrade
antitrust
antituberculosis
antitumor
antitype
antitypes
antityphoid
antiulcer
antiunemployment
antiunion
antiuniversity
anturban
antivandalism
antiviolence
antiviral
antivivisection
antiwar
antiwhite
antiwiretapping
antiwoman
antler
antlered
antlers
antlike
antlion
antlions
antonym
antonymies
antonyms
aorists
aorta
aortae
aortal
aortas
aortic
aoudad
aoudads
apace
apache
apaches
apagoge
apagoges
apagogic
apanage
apanages
aparejo
aparejos
apart
apartheid
apartheids
apatetic
apathetic
apathetically
apathies
apathy
apatite
apatites
ape
apeak
aped
apeek
apelike
aper
apercu
apercus
aperient
aperients
aperies
aperitif
aperitifs
apers
aperture
apertures
apery
apes
apetalies
apetaly
apex
apexes
aphagia
aphagias
aphanite
aphanites
aphasia
aphasiac
aphasiacs
aphasias
aphasic
aphasics
aphelia
aphelian
aphelion
apheses
aphesis
aphetic
aphid
aphides
aphidian
aphidians
aphids
aphis
apholate
apholates
aphonia
aphonias
aphonic
aphonics
aphorise
aphorised
aphorises
aphorising
aphorism
aphorisms
aphorist
aphoristic
aphorists
aphorize
aphorized
aphorizes
aphorizing
aphotic
aphrodisiac
aphtha
aphthae
aphthous
aphyllies
aphylly
apian
apiarian
apiarians
apiaries
apiarist
apiarists
apiary
apical
apically
apices
apiculi
apiculus
apiece
apimania
apimanias
aping
apiologies
apiology
apish
apishly
aplasia
aplasiast
apatric
aplastic
apleny
aplite
aplites
aplitic
aplomb
aplombs
apnea
apneal
apneas
apneic
apnoea
apnoeal
apnoeas
apnoelic
apocalyptic
apocalyptic
apocarp
apocarpies
apocarps
apocarpy
apocene
apostacies
apostacy
apostasies
apostasy
apostate
apostates
apostil
apostils
apostle
apostles
apostleship
apostolic
apostrophe
apostrophes
apothecaries
apothecary
apothece
apotheces
apotheigm
apotheigms
apothem
apothemes
appal
appall
appalled
appalling
appalls
apps
appanage
appanages
apparat
apparats
apparatus
apparatuses
apparel
appareled
appareling
apparelled
apparelled
apparelling
apparels
apparent
apparently
apparition
apparitions
appeal
appealed
appealer
appealers
apter
apteral
apterous
apteryx
apteryxes
aptest
aptitude
aptitudes
aptly
aptness
aptnesses
apyrase
apyrases
apyretic
aqua
aquacade
aquacades
aqua
aquamarine
aquamarines
aquanaut
aquanauts
aquaria
aquarial
aquarian
aquarians
aquarist
aquarists
aquarium
aquariums
aquas
aquatic
aquatics
aquatint
aquatinted
aquatinting
aquatints
aquatone
aquatones
aquavit
aquavits
aqueduct
aqueducts
aqueous
aquifer
aquifers
aquiline
aquiver
ar
arabesk
arabesks
arabesque
arabesques
arabize
arabized
arabizes
arabizing
arable
arables
araceous
arachnid
arachnids
arak
arak
araneid
araneids
arapaima
arapaimas
araroba
ararobas
arbalest
arbalests
arbalist
arbalists
arbiter
arbiter
arbiter
arbiteral
arbitrarily
arbitrariness
arbitrarinesses
arbitrary
arbitrate
arbitrated
arbitrates
arbitrating
arbitration
arbitrations
arbiter
arbiter
arbiter
arbor
arboreal
arbored
arbores
arboretum
arboretum
arboretums
archaiize
archaiized
archaiizes
archaiizing
archangel
archangels
archbishop
archbishops
archbishops
archbishopric
archbishoprics
archduke
archdukes
arched
arched
archologies
archeologies
archeology
archer
archeries
archers
archery
arches
archetype
archetypes
archil
archils
archine
archines
arching
archings
archipelago
archipelagos
architect
architects
architectural
architecture
architectures
archival
archive
archived
archives
archiving
archly
archlyness
archlinesses
archon
archons
archway
areoles
areologies
areology
ares
arete
aretes
arethusa
arethussa
arf
argal
argali
argalis
argals
argent
argentals
argentals
argentums
argil
argils
arginase
arginases
arginine
arginines
argle
argled
argles
argling
argol
argols
argon
argon
argonauts
argons
argosies
argosy
argot
argotic
argots
arguable
arguably
argue
argued
arguer
arguers
argues
argufied
argufier
arguiers
argufies
argufy
argufying
arguing
argument
argumentative
arguments
argus
arguses
argyle
argyles
argyll
argylls
arhat
arhats
aria
arias
arid
arider
aridest
aridities
aridity
aridly
aridness
aridnesses
ariel
ariels
arietta
ariettas
ariette
ariettes
aright
aril
ariled
arillate
arillode
arillodes
arilloid
arils
ariose
ariosi
arioso
ariosos
arise
arisen
arises
aspersed
asperser
aspersers
asperses
aspersing
aspersion
aspersions
aspersor
aspersors
asphalt
asphalted
asphaltic
asphalting
asphalts
asphaltum
asphaltums
aspheric
asphodel
asphodels
asphyxia
asphyxias
asphyxiate
asphyxiated
asphyxiates
asphyxiating
asphyxiation
asphyxiations
asphyxies
asphyxy
aspic
aspics
aspirant
aspirants
aspirata
aspiratae
aspirate
aspirated
aspirates
aspirating
aspiration
aspirations
aspire
aspired
aspirer
aspirers
aspires
aspirin
aspiring
aspirins
aspis
aspises
aspish
asps
asquint
asrama
asramas
ass
assagai
assagaied
assagaiing
assagais
assai
assail
assailable
assailant
assailants
assailed
assailer
assailers
assailing
assails
assais
assassin
assassinate
assassinated
assassinates
assassinating
assassination
assassinations
assassins
assault
assaulted
assaulting
assaults
assay
assayed
assayer
assayers
assaying
assays
assegai
assegaied
assegaing
assegais
assemble
assembled
assembles
assemblies
assembling
assembly
assemblyman
assemblymen
assemblywoman
assemblywomen
assent
assented
assenter
assenters
assenting
assentor
assentors
assents
assert
asserted
asserter
asserters
asserting
assertion
assertions
assertive
assertiveness
assertivenesses
assertor
assertors
asserts
asses
assess
assessed
assesses
assessing
assessment
assessments
assessor
assessors
asset
assets
assiduiities
assiduiity
assiduous
assiduously
assiduousness
assiduousnesses
assign
assignable
asternal
asteroid
asteroidal
asteroids
asters
asthenia
asthenias
asthenic
asthenics
asthenies
astheny
asthma
asthmas
astigmatic
astigmatism
astigmatisms
astir
astomous
astonied
astonies
astonish
astonished
astonishes
astonishing
astonishingly
astonishment
astonishments
astony
astonying
astound
astounded
astounding
astoundingly
astounds
astraddle
astragal
astragals
astral
astrally
astrals
astray
astRICT
astRICTed
astRICTing
astRICTs
astride
astringe
astringed
atones
atonic
atonicity
atonics
atonies
atoning
atony
atop
atopic
atopies
atopy
atrazine
atrazines
atremble
atresia
atresias
atra
atrial
atrip
atrium
atriums
atrocious
atrociously
atrociousness
atrociousnesses
atrocities
atrocity
atrophia
atrophias
atrophic
atrophied
atrophies
atrophy
atrophying
atropin
atropine
atropines
atropins
atropism
atropisms
attach
attache
attached
attacher
attachers
attaches
attaching
attachment
attributable
attribute
attributed
attributes
attributing
attribution
attributions
attrite
attrited
attune
attuned
attunes
attuning
atwain
atween
atwitter
atypic
atypical
aubade
aubades
auberge
auberges
auburn
auburns
auction
auctioned
auctioneer
auctioneers
auctioning
auctions
audacious
audacities
audacity
audad
audads
audible
audibles
audibly
audience
audiences
audient
audients
audile
audiles
auding
audings
audio
audiogram
audiograms
audios
audit
audited
auditing
audition
auditioned
auditioning
auditions
auditive
auditives
auditor
auditories
auditorium
auditoriums
auditors
auditory
audits
augend
augends
auger
augers
aught
aughts
augite
augites
augitic
augment
augmentation
augmentations
augmented
augmenting
augments
augur
augural
augured
augurer
augurers
auguries
auguring
augurs
augury
august
auguster
augustest
augustly
auk
auklet
aurochses
aurora
aurorae
auroral
auroras
aurorean
aurous
aurum
aurums
auscultation
auscultations
auspex
auspice
auspices
auspicious
austere
austerer
austerest
austerities
austerity
austral
autacoid
autacoids
autarchies
autarchy
autarkic
autarkies
autarkik
autarky
autecism
autecisms
authentic
authentically
authenticate
authenticated
authenticates
authenticating
authentication
authentications
authenticities
authenticity
author
authored
authoress
authoresses
authoring
authoritarian
authoritative
authoritatively
authorities
authority
authorization
authorizations
authorize
authorized
authorizes
authorizing
authors
authorship
authorships
autism
autisms
autistic
auto
autobahn
autobahnen
autobahns
autobiographer
autobiographers
autobiographical
autobiographies
autobiography
autobus
autobuses
autobusses
autocade
autocades
autocoid
autocoids
autocracies
autocracy
autocrat
autocratic
autocratically
autocrats
autodyne
autodynes
autoed
autogamies
autogamy
autogenies
autogeny
autogiro
autogiros
autograph
autographed
auxesis
auxetic
auxetics
auxiliaries
auxiliary
auxin
auxinic
auxins
ava
avail
availabilities
availability
available
availed
availing
avails
avalanche
avalanches
avarice
avarices
avast
avatar
avatars
avaunt
ave
avellan
avellane
avenge
avenged
avenger
avengers
avenges
avenging
avens
avenses
aventail
aventails
avenue
avenues
aver
average
averaged
averages
averaging
averment
averments
averred
averring
awful
awfuller
awfullest
awfully
awhile
awhirl
awing
awkward
awkwarder
awkwardest
awkwardly
awkwardness
awkwardnesses
awl
awless
awls
awlwort
awlworts
awmous
awn
awned
awning
awninged
awnings
awnless
awns
awny
awoke
awoken
awol
awols
awry
axal
axe
axed
axel
axels
axeman
axemen
axenic
axes
axial
axialities
axiality
axially
axil
axile
axilla
axillae
axillar
axillaries
axillars
axillary
axillas
axils
axing
axiologies
axiology
axiom
axiomatic
axioms
axis
axised
axeses
axite
axites
axle
axed
axles
axletree
axletrees
axlike
axman
axmen
axolotl
axolotls
axon
axonal
axone
axones
axonic
axons
axoplasm
axoplasms
axseed
axseeds
ay
ayah
ayahs
aye
eyes
ayin
ayins
aus
azalea
azaleas
baal
baalim
baalism
baalisms
baals
baas
baba
babas
babassu
babassus
babbitt
babbitted
babbitting
babbitts
babble
babbled
babbler
babblers
babbles
babbling
babblings
babbool
babbools
babe
babel
babels
babes
babesia
babesias
babiche
babiches
babied
babies
babirusa
babirusas
babka
babkas
baboo
babool
babools
baboon
baboons
baboos
babu
babul
babuls
babus
babushka
backbone
backbones
backdoor
backdrop
backdrops
backed
backer
backers
backfill
backfilled
backfilling
backfills
backfire
backfired
backfires
backfiring
backgammon
backgammons
background
backgrounds
backhand
backhanded
backhanding
backhands
backhoe
backhoes
backing
backings
backlash
backlashed
backlasher
backlashers
backlashes
backlashing
backless
backlist
backlists
backlit
backlog
backlogged
backlogging
backlogs
backmost
backout
backouts
backpack
backpacked
backpacker
backpacking
backpacks
backrest
backrests
backs
backsaw
backsaws
backseat
backseats
backset
backsets
backside
backsides
backslap
backslapped
backslapping
backslaps
backslash
backs slashes
backslid
backslide
backslided
backslider
backs liders
backs lides
backs liding
backs liding
backspace
backspaced
backspaces
backspacing
backspin
backspins
backstay
backstays
backstop
backstopped
backstopping
backstops
backup
backups
backward
backwardness
backwardnesses
backwards
backwash
backwashed
backwashing
backwood
backwoods
backyard
backyards
bacon
bacons
bacteria
bacterial
bacterin
bacterins
bacteriologic
bacteriological
bacteriologies
bacteriologist
bacteriologists
bacteriology
bacterium
baculine
bad
baddie
baddies
baddy
bade
badge
badged
badger
badgered
badgering
badgerly
badgers
badges
badging
badinage
badinaged
badinages
badinaging
badland
badlands
badly
badman
badmen
badminton
badmintoned
badmouthing
badmouthed
badmouths
badness
baldhead
baldheads
balding
baldish
baldly
baldness
baldnesses
baldpate
baldpates
baldric
baldrick
baldricks
baldrics
balds
bale
baled
baleen
baleens
balefire
balefires
baleful
baler
balers
bales
baling
balisaur
balisaurus
balk
balked
balker
balkers
balkier
balkiest
balkily
balking
balkline
balklines
balks
balky
ball
ballad
ballade
ballades
balladic
balladries
balladry
ballads
ballast
ballasted
ballasting
ballasts
balled
baller
ballerina
ballerinas
ballers
ballet
balletic
ballets
balling
ballista
ballistae
ballistic
ballistics
ballon
ballonet
ballonets
ballonne
ballonnes
ballons
balloon
ballooned
ballooning
balloonist
balloonists
balloons
ballot
balloted
balloter
balloters
balloting
ballots
ballroom
ballrooms
balls
bally
ballyhoo
ballyhooed
ballyhooing
ballyhoos
ballyrag
ballyragged
ballyragging
ballyrags
balm
balmier
balmiest
balmily
balminess
balminesses
balmlike
balmoral
balmorals
balms
balmy
balneal
baloney
baloneys
bals
balsa
balsam
balsamed
balsamic
balsaming
balsams
balsas
baltimore
baluster
balusters
balustrade
balustrades
bambini
bambino
bambinos
bamboo
bamboos
bamboozle
bamboozled
bamboozles
bamboozling
ban
banal
banalities
banality
banally
banana
bananas
banausic
bancos
band
bandage
bandaged
bandager
bankrupting
bankrupts
banks
banksia
banksias
bankside
banksides
banned
banner
bannertet
bannerets
bannorol
bannorols
banners
bannet
bannets
banning
bannock
bannocks
bans
banquet
banqueted
banqueting
banquets
banshee
banshees
banshie
banshies
bantam
bantams
banter
bantered
banterer
banterers
bantering
banterers
bantling
bantlings
banyan
banyans
banzai
banzais
baobab
baobabs
baptise
baptised
baptises
barflies
barfly
barfs
bargain
bargained
bargaining
bargains
barge
 barged
bargee
bargees
bargeman
bargemen
barges
 barghest
barghests
barging
barguest
barguests
barhop
barhopped
barhopping
barhops
baric
barilla
barillas
baring
barite
barites
baritone
baritones
barium
bariums
bark
barked
barkeep
barkeeps
barker
barkers
barker
barkier
barkiest
barking
barkless
barks
barky
barleduc
barleducs
barless
barley
barleys
barlow
barlows
barm
barmaid
barmaid
barman
barmen
barmie
barmier
barmiest
barns
barny
barn
barnacle
barnacles
barnier
barniest
barns
barnstorm
barnstorms
barny
barnyard
barnyards
barogram
barograms
barometer
barometers
barometric
barometrical
baron
baronage
baronages
baroness
baronesse
baronet
baronetcies
baronetcy
baronets
barong
barongs
baronial
baronies
baronne
baronnes
barons
barony
baroque
baroques
barouche
barouches
barque
barques
barrable
barrack
barracked
barracking
barracks
barracuda
barracudas
barrage
barraged
barrages
barraging
barranca
barrancas
barranco
barrancos
barrater
barraters
barrator
barrators
barraties
barraty
barre
barred
barrel
barreled
barreling
barrelled
barrelling
barrels
barren
barrener
barrenest
barrenly
barrenness
barrennesses
barrens
barres
barret
barretor
barretors
barretties
barretry
beatified
beatifies
beatify
beatifying
beating
beatings
beatless
beatnik
beatniks
beats
beau
beauish
beaus
beaut
beautefully
beauties
beautification
beautifications
beautified
beautifies
beautiful
beautifully
beautify
beautifying
beauts
beauty
beaux
beaver
beavered
beaveriing
beavers
bebeeru
bebeerus
beblood
beblooded
beblooding
bebloods
bebop
bebopper
beboppers
bebops
becalm
becalmed
becalming
becalms
became
becap
becapped
beelogs
beclote
beclothed
beclotethes
beclotething
becloud
beclouded
beclouding
beclouds
beclown
beclowned
beclowning
beclowns
become
becomes
becoming
becomingly
becomings
becoward
becowarded
becowarding
becowards
becrawl
becrawled
becrawling
becrawls
becrime
becrimed
becrimes
becriming
becrowd
becrowded
becrowding
becrowds
becrust
becrusted
becrusting
becrusts
becudgel
becudged
becudgelung
becudgelled
becudgelling
becudgels
becurse
becursed
becurses
becursing
becurst
bed
bedable
bedabbled
bedabbles
bedabbling
bedamn
bedamned
bedamning
bedamns
bedarken
bedarkened
bedarkening
bedarkens
bedaub
bedaubed
bedaubing
bedaubs
bedazzle
bedazzled
bedazzles
bedazzling
bedbug
bedbugs
bedchair
bedchairs
bedclothes
bedcover
bedcovers
bedded
bedder
bedders
bedding
beddings
bedeafen
bedeafened
bedeafening
bedeafens
bedeck
bedecked
bedecking
bedecks
bedel
bedell
bedells
bedels
bedeman
bedemen
bedesman
bedesmen
bedevil
bedeviled
bedeviling
bedevilled
bedevilling
bedevils
bedew
bedewed
bedewing
bedews
bedfast
bedframe
bedframes
bedgown
bedgowns
bediaper
bediapered
bediapering
bediapers
bedight
bedighted
bedighting
bedights
bedim
bedimmed
bedimming
bedimple
bedimpled
bedimples
bedimpling
bedims
bedirtied
bedirties
bedirty
bedirtying
bedizen
bedizened
bedizening
bedizens
bedlam
bedlamp
bedlamps
bedlams
bedless
bedlike
bedmaker
bedsore
bedsores
bedspread
bedspreads
bedstand
bedstands
bedstead
bedsteads
bedstraw
bedstraws
bedtick
bedticks
bedtime
bedtimes
beduin
beduins
bedumb
bedumbed
bedumbing
bedumbs
bedunce
bedunced
bedunces
beduncing
bedward
bedwards
bedwarf
bedwarfed
bedwarfing
bedwarfs
bee
beeee
beeeees
beebread
beebreads
beech
beechen
beeches
beechier
beechiest
beechnut
beechnuts
beechy
beef
beefcake
beefcakes
beefed
beefier
befringed
befringes
befringing
befuddle
befuddled
befuddles
befuddling
beg
begall
begalled
begalling
begalls
began
begat
begaze
begazed
begazes
begazing
beget
begets
begetter
begetters
begetting
began
beggared
beggaries
beggaring
beggarily
beggars
beggary
begged
begging
begin
beginner
beginners
beginning
beginnings
begins
begird
begirded
begirding
begirdle
begirdled
begirdles
begirdling
begirds
begirt
beglad
bellboy
bellboys
belle
belled
belleek
belleeks
belles
bellhop
bellhops
bellicose
bellicosities
bellicosity
bellied
bellies
belligerence
belligerences
belligerencies
belligerency
belligerent
belligerents
belling
bellman
bellmen
bellow
bellowed
blower
blowers
bellowing
bells
bellpull
bellpulls
bellow
bellowed
bellower
bellowers
bellowing
bells
bell pull
bell pulls
bells
bellwether
bellweather
bellweathers
bellwort
bellworts
belly
bellyache
bellyached
bellyaches
bellyaching
bellyful
bellyfuls
bellying
belong
belonged
belonging
belongings
benders
bending
bends
bendways
bendwise
bendy
bendys
bene
beneath
benedick
benedicks
benedict
benediction
benedictions
benevolved
benedicts
benefaction
benefactions
benefactor
benefactors
benefactress
benefactresses
benefic
benefice
beneficed
beneficence
beneficences
beneficent
benefices
beneficial
beneficially
beneficiaries
beneficiary
beneficing
benefit
benefited
benefitting
benefits
benefitted
benefitting
benempt
benempted
bene
benevolence
benevolences
benevolent
benign
benignities
benignity
benignly
benison
benisons
benjamin
benjamins
benne
bennes
bennet
bennets
benni
bennies
bennis
benny
bens
bent
benthal
benthic
benthos
benthoses
bents
bentwood
bentwoods
benumb
benumbed
benumbing
benumbs
benzal
benzene
benzenes
benzidin
benzidins
benzin
benzine
benzines
benzins
benzoate
benzoates
benzoic
benzoin
benzoins
benzol
benzole
benzoles
benzols
benzoyl
benzoyls
benzyl
benzylic
berhyme
berhymed
berhymes
berhyming
beriber
beribers
berime
berimed
berimes
beriming
beringed
berlin
berline
berlines
berlins
berm
berme
bermes
berms
bernicle
bernicles
bernstein
berobed
berouged
berretta
berrettas
berried
berries
berry
berrying
berseem
berseems
berserk
berserks
berth
bertha
berthas
berthed
berthing
berths
bery
beryl
beryls
bersorh
bersorched
bersorches
bersorching
bersour
betterment
betterments
betters
betting
bettor
bettors
between
betwixt
buncleled
bevatron
bevatrons
bevel
beveled
beveler
bevelers
beveling
bevelled
beveller
bevellers
bevelling
bevels
beverage
beverages
bevies
bevomit
bevomited
bevomiting
bevomits
bevor
bevors
bevy
bewail
bewailed
bewailer
bewailers
bewailing
bewails
beware
bewared
bewares
bewaring
bewearied
bewearies
beweary
bewearying
beweep
beweeping
beweeps
bewept
bewig
bewigged
bewigging
bewigs
bewilder
bewildered
bewildering
bewilderment
bewilderments
bewilders
bewinged
bewitch
bewitched
bewitches
bewitching
beworn
bewormed
beworming
beworms
beworried
beworries
beworry
beworrying
bewrap
bewrapped
bewrapping
bewraps
bewrapt
bewray
bewrayed
bewrayer
bewrayers
bewraying
bewrays
bey
beylic
beylics
beylik
beyliks
beyond
beyonds
beys
bezant
bezants
bezel
bezels
bezil
biennia
biennial
biennially
biennials
biennium
bienniums
bier
biers
bifacial
biff
biffed
biffies
biffin
biffing
biffins
biffs
biffy
bifid
bifidities
bifidity
bifidly
bifilar
biflex
bifocal
bifocals
bifold
biforate
biforked
biform
biformed
bifunctional
big
bigamies
bigamist
bigamists
bigamous
bigamy
bigaroon
bigaroons
bigeminies
bigeminy
bigeye
bigeyes
bigger
biggest
biggety
biggie
biggies
billfishes
billfold
billfolds
billhead
billheads
billhook
billhooks
billiard
billiards
billie
billies
billing
billings
billion
billions
billionth
billionths
billion
billons
billow
billowed
billower
billowiest
billowing
billows
billowy
bills
billy
billycan
billycans
bilobate
bilobed
bilsted
bilsteds
biltong
biltongs
bima
bimah
bimahs
bimanous
bimanual
bimas
bimensal
bimester
bimesters
bimetal
bimetallic
bimetals
biolytic
biomass
biomasses
biome
biomedical
biomes
biometrics
biometry
bionic
bionics
bionomic
bionomies
bionomy
biont
biontastic
biophysical
biophysicist
biophysicists
biophysics
bioplasm
bioplasms
biopsic
biopsies
biopsy
bioptic
bios
bioscope
bioscopes
bioscopies
bioscopy
biota
biotas
biotic
biotical
biotics
biotin
biotins
biotite
biotites
biotitic
biotope
biotopes
biotron
biotrons
biotype
biotypes
biotypic
biovular
bipack
bipacks
biparental
biparous
biparted
bipartisan
biparty
biped
bipedal
bipeds
biphenyl
biphenyls
biplane
biplanes
bipod
bipods
bipolar
biracial
biracially
biradial
biramous
birch
birched
birchen
birches
birching
bird
birdbath
birdbaths
birdbrained
birdcage
birdcages
birdcall
birdcalls
birded
birder
birders
birdfarm
birdfarms
birdhouse
birdhouses
birdie
birdied
birdieing
birdies
birding
bitcheries
bitchery
bitches
bitchier
bitchiest
bitchily
bitching
bitchy
bite
biteable
biter
biters
bites
bitewing
bitewings
biting
bitingly
bits
bitstock
bitstocks
bitsy
bitt
bitted
bitten
biter
bittered
bitterer
bitterest
bittering
bitterly
bittern
bitterness
bitternesses
bitterns
bitters
bittier
bittiest
biting
bittings
bittock
bittocks
bits
bitty
bitumen
bitumens
bituminous
bivalent
bivalents
bleariest
blearily
blearing
blears
bleary
bleat
bleated
bleater
bleaters
bleating
bleats
bleb
blebby
blebs
bled
bleed
bleeder
bleeders
bleeding
bleedings
bleeds
blellum
blellums
blemish
blemished
blemishes
blemishing
blench
blenchched
blencher
blenchers
blenches
blenching
blend
blende
blended
blender
blenders
blendes
blending
blends
blennies
blenny
blent
bleomycin
blesbok
blesboks
blesbuck
blesbucks
bless
blessed
blesseder
blessedest
blessedness
blessednesses
blesser
blessers
blesses
blessing
blessings
blest
blet
blether
blethered
blethering
blethers
blets
blew
blight
blighted
blighter
blighters
blighties
blighting
blights
blightly
blimey
blimp
blimpish
blimps
blimy
blin
blind
blindage
blindages
blinded
blinder
blinders
blindest
blindfold
blindfolded
blindfolding
blindfolds
blindly
blindness
blindnesses
blinds
blini
blinis
blink
blinkard
blinkards
blinked
blinker
blinkered
blinkering
blinkers
blinking
blinks
blintz
blintze
blintzes
blip
blipped
blipping
blips
bliss
blisses
blissful
blissfully
blister
blistered
blistering
blisters
blistery
blite
blites
blithe
blithely
blither
blithered
blithering
blithers
blithesome
blithesome
blitest
blitz
blitzed
blitzes
blitzing
blizzard
blizzards
bloat
bloateds
bloodings
bloodless
bloodmobile
bloodmobiles
bloodred
bloods
bloodshed
bloodsheds
bloodstain
bloodstained
bloodstains
bloodsucker
bloodsuckers
bloodsucking
bloodsuckings
bloodthirstily
bloodthirstiness
bloodthirstinesses
bloodthirsty
bloody
bloodying
bloom
bloomed
bloomer
bloomeries
bloomers
bloomery
bloomier
bloomiest
blooming
blooms
bloomy
bloop
blooped
blooper
bloopers
blooping
bloops
blossom
blossomed
blossoming
blossoms
blossomy
blot
blotch
blotched
blotches
blotchier
blurts
blush
blushed
blusher
blushers
blushes
blushful
blushing
bluster
blustered
blustering
blusters
blushery
blype
blypes
bo
boa
boar
board
boarded
boarder
boarders
boarding
boardings
boardman
boardmen
boards
boardwalk
boardwalks
boarfish
boarfishes
boarish
boars
boart
boarts
boas
boast
boasted
boaster
boasters
boastful
boastfully
boasting
boasts
boat
boatable
boatbill
boatbills
boated
boatel
boatels
boater
boaters
boating
boatings
boatload
boatloads
boatman
boatmen
boats
boatsman
boatsmen
boatswain
boatswains
boatyard
boatyards
bob
bobbed
bobber
bobberies
bobbers
robbery
bobbies
bobbin
bobbinet
bobbinets
bobbing
bobbins
bobble
bobbled
bobbles
bobbling
bobby
bobcat
bobcats
bobecher
bobeches
bobolink
bobolinks
bobs
bobsled
bobsledded
bobsleding
bobsleds
bobstay
bobstays
boll
bollard
bollards
bolled
bolling
bollix
bollixed
bollixes
bollixing
bollox
bolloxed
bolloxes
bolloxing
bolls
bollworm
bollworms
bolo
bologna
bolognas
boloney
boloneyys
bolos
bolshevik
bolson
bolsons
bolster
bolstered
bolstering
bolsters
bolt
bolted
bolter
bolters
bolthead
boltheadys
bolting
boltonia
boltonias
boltrope
boltopes
bolts
bolus
boluses
bomb
bombard
bombarded
bombardier
bombardiers
bombarding
bombardment
bombardments
bombards
bombast
bombastic
bombasts
bombe
bombed
bomber
bombers
bombes
bombing
bombload
bombloads
bombproof
bombs
bombshell
bombshells
bombycid
bombycids
bombyx
bombyxes
bonaci
bonacis
bonanza
bonanzas
bonbon
bonbons
bond
bondable
bondage
bondages
bonded
bonder
bonders
bondholder
bondholders
bonding
bondmaid
bondmaids
bondman
bondmen
bonds
bondsman
bondsmen
bonduc
bonducs
boomier
boomiest
booming
boomkin
boomkins
boomlet
boomlets
booms
boomtown
boomtowns
boomy
boon
boondocks
boonies
boons
boor
boorish
boors
boos
boost
boosted
booster
boosterers
boosting
boosts
boot
booted
bootee
bootees
booteries
bootery
booth
booths
bootie
booties
booting
bootjack
bootjacks
bootlace
boots
bootstrap
bootleg
bootlegged
bootlegger
bootleggers
bootlegging
bootlegs
bootless
bootlick
bosun
bosuns
bot
botanic
botanical
botanies
botanise
botanised
botanises
botanising
botanist
botanists
botanize
botanized
botanizes
botanizing
botany
botch
botched
botcher
botcheries
botchers
botchery
botches
botchier
botchiest
botchily
botching
botchy
botel
botels
botflies
botfly
both
bother
bothered
bothering
bothers
bothersome
botonee
botonnee
botryoid
botryose
bots
bott
bottle
bottled
bottleneck
bottlenecks
bottler
bottlers
bottles
bottling
bottom
bottomed
bottomer
bottomers
bottoming
bottomless
bottomries
bottomry
bottoms
botts
botulin
botulins
botulism
botulisms
boucle
boucles
boudoir
boudoirs
bouffant
bouffants
bouffe
bouffes
bough
boughed
boughpot
boughpots
boughs
bought
boughten
bougie
bougies
bouillon
bouillons
boulder
boulders
bouldery
boule
boules
boullle
boullles
bounce
bounced
bouncer
bowknots
bowl
bowlder
bowlders
bowled
bowleg
bowlegs
bowler
bowlers
bowless
bowlful
bowlfuls
bowlike
bowline
bowlines
bowling
bowlings
bowllike
bows
bowman
bowmen
bowpot
bowpots
bows
bowse
bowsed
bowses
bowshot
bowshots
bowsing
bowsprit
bowsprits
bowwow
bowwows
bowyer
bowyers
box
boxberries
boxberry
boxcar
boxcars
boxed
boxer
boxers
boxes
boxfish
boxfishes
boxful
boxfuls
boxhaul
boxhauled
boxhauling
boxhauls
boxier
boxiest
boxiness
boxinesses
boxing
boxings
boxlike
boxthorn
boxthorns
boxwood
boxwoods
boxy
boy
boyar
boyard
boyards
boyarism
boyarisms
boyars
boycott
boycotted
boycotting
boycotts
boyhood
boyhoods
boyish
boyishly
boyishness
boyishnesses
boyla
boylas
boyo
boyos
boys
bozo
bozos
bra
brabble
brabbled
brabbler
brabblers
brabbles
brabbling
brewage
brewages
brewed
brewer
breweries
brewers
brewery
brewing
brewings
brewis
brewises
brews
briar
briard
briards
briars
briary
bribable
bribe
bribed
briber
briberies
bribers
bribery
bribes
bribing
brick
brickbat
brickbats
bricked
brickier
brickiest
bricking
bricklayer
bricklayers
bricklaying
bricklayings
brickle
bricks
bricky
bricole
bricoles
bridal
bridally
bridals
bride
bridegroom
bridegrooms
britt
brittle
brittled
brittlert
brittler
brittles
brittlest
brittling
britts
britzka
britzkas
britzskas
broach
broached
broacher
broachers
broaches
broaching
broad
broadax
broadaxe
broadaxes
broadcast
broadcasted
broadcaster
broadcasters
broadcasting
broadcasts
broadcloth
broadcloths
broaden
broadened
broadening
broadens
broader
broader
broads
broader
broads
broadside
broadsides
brocade
brocaded
brocades
brocading
brocatal
brocatels
broccoli
brocolis
broche
brochure
brochures
brock
brockage
brockages
brocket
brockets
brocks
brocoli
brocolis
brogan
brogans
brogue
brogueries
broguery
brogues
broguish
broider
broidered
broideries
broidering
broiders
broidery
broil
broiled
broiler
broilers
broiling
broils
brokage
brokages
broke
broken
brokenhearted
brokenly
broker
brokerage
brokerages
brokers
brollies
brolly
bromal
brut
brutal
brutalities
brutality
brutalize
brutalized
brutalizes
brutalizing
brutally
brute
bruted
brutely
brutes
brutified
brutifies
brutify
brutifying
bruting
brutish
brutism
brutisms
bruxism
bruxisms
bryologies
bryology
bryonies
bryony
bryozoan
bryozoans
bub
bubal
bubale
bubales
bubaline
bubalis
bubalisë
bubalisës
bubals
bubbles
buby
bubbed
bubbler
bubblers
bubbles
bublier
bublies
bubbliest
bubbling
bubbly
buckramps
buckras
bucks
bucksaw
bucksaws
buckshee
buckshees
buckshot
buckshots
buckskin
buckskins
bucktail
bucktails
bucktooth
bucktooths
buckwheat
buckwheats
bucolic
bucolics
bud
budded
budder
budders
buddies
budding
buddle
buddleia
buddleias
buddles
buddy
budge
budged
budger
budgers
budges
budget
budgetary
budgeted
budgeter
budgeters
budgeting
budgets
budgie
budgies
budging
budless
budlike
buds
bumpkin
bumpkins
bumps
bumpy
bums
bun
bunch
bunched
bunches
bunchier
bunchiest
bunchily
bunching
bunchy
bunco
buncoed
buncoing
buncombe
buncombes
buncos
bund
bundist
bundists
bundle
bundled
bundler
bundlers
bundles
bundling
bundlings
bunds
bung
bungalow
bungalows
bunged
bunghole
bungholes
bunging
bungle
bungled
bungler
bunglers
bungles
bungling
bunglings
bungs
bunion
bunions
bunk
bunked
bunker
bunkered
bunkering
bunkers
bunking
bunkmate
bunkmates
bunko
bunkoed
bunkoing
bunkos
bunks
bunkum
bunkums
bunky
bunn
bunnies
bunns
bunny
buns
bunt
bunted
bunter
bunters
bunting
buntings
buntline
buntlines
bunts
bunya
bunyas
buoy
buoyage
buoyages
buoyance
buoyances
buoyancies
buoyancy
buoyant
buoyed
buoying
buoys
buqsha
buqshas
bur
bura
bury
burrying
bus
busbies
busboy
busboys
busby
bused
buses
bush
bushbuck
bushbucks
bushed
bushel
busheled
busheleer
bushelers
busheiling
busheelled
busheelling
busheels
busher
busheers
bushes
bushfire
bushfires
bushgoat
bushgoats
bushido
bushidos
bushier
bushiest
bushily
bushing
bushings
bushted
bushted
bushlen
bushlands
bushless
bushlike
bushman
bushmen
bushtit
bushtits
bushby
busied
busier
busies
busiest
buyable
buyer
buyers
buying
buys
buzz
buzzard
buzzards
buzzed
buzzers
buzzes
buzzing
buzzwig
buzzwigs
buzzword
buzzwords
buzzy
bwana
bwanas
by
bye
byelaw
byelaws
byes
bygone
bygones
bylaw
bylaws
byline
bylined
byliner
byliners
bylines
bylining
byname
bynames
bypass
bypassed
bypasses
bypassing
bypast
hypath
hypaths
byplay
byplays
byre
byres
cabbalah
cabbage

cabbalas
cabbies
cabby

caber
cabers
cabesto
cabestros
cabezon
cabezons
cabezone

cabezones
cabildo
cabildos
cabin
cabined

cabinet
cabinetmaker
cabinetmakers
cabinetmaking
cabinetmakings
cabinets
cabinetwork
cabinetworks
cabining
cabins

cable
cabled

cablegram
cablegrams
cables
cablet

cablets
cableway
cableways

cabling
cabman
cabmen
cabob
cabobs

caboched
cabochon
cabochons

caboodle
caboodles

caboose
cadges
cadging
cadgy
cadi
cadis
cadmic
cadmium
cadmiums
cadre
cadres
cads
caducean
caducei
caduceus
caducities
caducity
caducous
ceca
caecal
caecally
caecum
caeoma
caeomas
caesium
caesiums
caestus
caestuses
caesura
caesurae
caesural
caesuras
caesuric
cafe
cafes
cafeteria
cafeterias
caffein
caffeine
caffeines
caffeins
cafтан
cafтанs
cage
caged
cageling
cagelings
cager
cages
cake
caked
cakes
cakewalk
cakewalked
cakewalking
cakewalks
caking
calabash
calabashes
caladium
caladiums
calar
calamaries
calamars
calamary
calami
calamine
calamined
calamines
calamining
calamint
calamints
calamite
calamites
calamities
calamitous
calamitously
calamitousness
calamitousnesses
calamity
calamus
calando
calash
calashes
calathii
calathos
calathus
calcanea
calcanei
calcar
calcaria
calcars
calceate
calcees
calcic
calciific
calcification
cancans
cancel
canceled
canceler
cancelers
canceling
cancellation
cancellations
cancelled
cancelling
cancels
cancer
cancerlog
cancerous
cancerously
cancers
cancha
canchas
cancroid
cancroids
candela
candelabra
candelabras
candelabrum
candelas
candent
candid
candida
candidacies
candidacy
candidas
candidate
candidates
candider
candidest
candidly
candidness
candidnesses
candids
candied
candies
candle
candled
candlelight
candlelights
candler
candlers
candles
candlestick
candlesticks
candling
candor
candors
candour
candours
candy
candying
cane
caned
canella
canellas
caner
caners
canes
caneware
canewares
canfield
canfields
canful
canfuls
cangue
cangues
canikin
canikins
canine
canines
caning
canities
caninity
canister
canisters
canities
canker
canker
canker
canker
cankerous
cankers
canna
cannab
cannab
cannabin
cannabin
cannabis
cannabin
cannabis
cannabises
cannas
canned
cannel
cannelon
cannelons
cannels
canner
canneries
canners
cannery
cannibal
cannibalism
cannibalisms
cannibalistic
cannibalize
cannibalized
cannibalizes
cannibalizing
cannibals
cannie
cannier
canniest
cannikin
cannikins
cannily
canniness
canninesses
canning
cannings
cannon
cannonade
cannonaded
cannonades
cannonading
cannonball
cannonballs
cannoned
cannoneer
cannoneers
cannoning
cannonries
cannonry
cannons
cannot
cannula
cannulae
cannular
cannulas
canny
canoe
canoed
canted
canteen
canteens
canter
cantered
cantering
canters
canthal
canthi
canthus
cantic
canticle
canticles
cantilever
cantilevers
cantina
cantinas
canting
cantile
cantiles
canto
canton
cantonal
cantoned
cantoning
cantons
cantor
cantors
cantos
cantraip
cantraips
cantrap
cantraps
cantrip
cantrips
cants
cantus
canty
canula
canulae
canulas
canulate
canulated
canulates
canulating
canvas
canvased
canvaser
capon
caporal
caporals
capos
capote
capotes
capouch
capouches
capped
capper
cappers
capping
cappings
capric
capricci
caprice
caprices
capricious
capriff
capriffs
caprine
capriole
caprioled
caprioles
caprioling
caps
capsicin
capsicins
capsicum
capsicums
capsid
capsidal
capsids
capsize
capsized
capsizes
capsizing
capstan
capstans
capstone
capstones
capsular
capsulate
capsulated
capsule
capsuled
capsules
capsuling
carl
carle
carles
carless
carlin
carline
carlines
carling
carlings
carlins
carlish
carload
carloads
carls
carmaker
carmakers
carman
carmen
carmine
carmines
carn
carnage
carnages
carnal
carnalities
carnality
carnally
carnation
carnations
carnauba
carnaubas
carney
carneys
carnie
carnies
carnified
carnifies
carnify
carnifying
carnival
carnivals
carnivore
carnivores
carnivorous
carnivoriously
carnivorousness
carnivorousnesses
carns
carny
caroach
caroaches
carob
carobs
caroch
caroche
caroches
carol
caroled
caroler
carolers
caroli
caroling
carolled
caroller
carollers
carolling
carols
carolus
caroluses
carom
caromed
caroming
caroms
carotene
carotenes
carotid
carotids
carotin
carotins
carousal
carousals
carouse
caroused
carousel
carousels
carouser
carousers
carouses
carousing
carp
carpal
carpale
carpalia
carpals
carped
carpel
carpels
carpenter
carpentered
carpentering
carpenters
carpentries
carpentry
carper
carpers
carpet
carpeted
carpeting
carpets
carpi
carpings
carpings
carport
carports
carps
carpus
carrack
carracks
carrel
carrell
carrells
carrels
carriage
carriages
carried
carrier
carriers
carries
carriole
carrioles
carrion
carrions
carritch
carritches
carroch
carroches
carrom
carromed
carroming
carroms
carrot
carrotier
carrotiest
carrotin
carrotins
carrots
carrotty
carousel
carousels
carry
carryall
carryalls
carrying
carryon
carryons
carryout
carryouts
cars
carse
carses
carsick
cart
cartable
cartage
cartages
carte
carted
cartel
cartels
carter
carters
cartes
cartilage
cartilages
cartilaginous
carting
cartload
cartloads
cartographer
cartographers
cartographies
cartography
carton
cartoned
cartoning
cartons
cartoon
cartooned
cartooning
cartoonist
cartoonists
cartoons
catenates
catenating
catenoid
catenoids
cater
cateran
caterans
catercorner
catered
caterer
caterers
cateress
cateresses
catering
caterpillar
caterpillars
caters
caterwaul
caterwauled
caterwauling
caterwauls
cates
catface
catfaces
catfall
catfalls
catfish
catfishes
catgut
catguts
catharses
catharsis
cathartic
cathead
catheads
cathect
cathected
cathecting
cathects
cathedra
cathedrae
cathedral
cathedrals
cathedras
catheter
catheterization
catheters
cathexes
causal
causaless
causality
causally
causals
causation
causations
causative
cause
cauised
cauer
cauerie
caueries
cauers
causes
causeway
causewayed
causewaying
causeways
causey
causes
causing
caucic
caucists
cautoeries
cauterization
cauterizations
cauterize
cauterized
cauterizes
cauterizing
cautery
caution
cautionary
cauioned
cautioning
cautions
cautious
cautiously
cautiousness
cautiousnesses
cavalcade
cavalcades
cavalero
cavaleros
cavalier
cavaliered
cavaliering
cavalierly
cavalierliness
cavalierlinesses
cavaliers
cavalla
cavallas
cavallies
cavally
cavalries
cavalry
cavalryman
cavalrymen
cavatina
cavatinas
cavatine
cave
caveat
caveator
caveators
caveats
caved
cavefish
cavefishes
cavelike
caveman
cavemen
caver
cavern
caverned
caverning
cavernous
cavernously
caverns
cavers
caves
cavetti
cavetto
cavettos
caviar
caviare
caviarees
caviars

cavicorn
cavie
cavies
cavil
caviled
caviler
celeries
celerities
celerity
celery
celesta
celestas
celeste
celestes
celestial
celiac
celibacies
celibacy
celibate
celibates
cell
cella
cellae
cellar
cellared
cellarer
cellarers
cellaret
cellarets
cellaring
cellars
celled
celli
celling
cellist
cellists
cello
cellophane
cellophanes
cellos
cells
cellular
cellule
cellules
cellulose
celluloses
celom
celomata
celoms
celt
celts
cembali
cembalo
cembalos
centralizers
centralizes
centralizing
centrally
centrals
centre
centred
centres
centric
centrifugal
centrifugally
centrifuge
centrifuges
center
centrings
centripetal
centripetally
centrism
centrisms
centrist
centrists
centroid
centroids
centrum
centrums
cents
centum
centums
centuple
centupled
centuples
centupling
centuries
centurion
centurions
century
ceorl
ceorlish
ceorls
cephalad
cephalic
cephalin
cephals
ceramal
ceramals
ceramic
ceramics
ceramist
ceramists
cerastes
cerate
cerated
cerates
ceratin
ceratins
ceratoid
cercaria
cercariae
cercarias
cerci
cercis
cercises
cercus
cere
cereal
cereals
cerebella
cerebellar
cerebellum
cerebellums
cerebra
cerebral
cerebrals
cerebrate
cerebrated
cerebrates
cerebrating
cerebration
cerebrations
cerebric
cerebrospinal
cerebrum
cerebrums
cered
cerement
cerements
ceremonial
ceremonies
ceremonious
ceremony
ceres
cereus
cereuses
ceria
cerias
ceric
cervelats
cervical
cervices
cervine
cervix
cervixes
cesarean
cesareans
cesarian
cesarians
cesium
cesiums
cess
cessation
cessations
cessed
cesses
cessing
cession
cessions
cesspit
cesspits
cesspool
cesspools
cesta
cestas
cesti
cestode
cestodes
cestoi
cestoid
cestoids
cestos
cestus
cestuses
cesura
cesurae
cesuras
cetacean
cetaceans
cetane
cetanes
cete
cetes
cetologies
cetology
chabouk
chabouks
challies
challis
challises
challot
chaloth
chally
chalone
chalones
chalot
chaloth
chalutz
chalutzim
cham
chamade
chamades
chamber
chambered
chambering
chambermaid
chambermaids
chambers
chambray
chambrays
chameleon
chameleons
chamfer
chamfered
chamfering
chamfers
chamfron
chamfrons
chamise
chamises
chamiso
chamisos
chammied
chammies
chammy
chammying
chamois
chamoised
chamoises
chamoising
chamoix
champ
champac
champacs
champagne
chattily
chatting
chatty
chauffer
chaufers
chauffer
chauffers
chauffeur
chauffeured
chauffeuring
chauffeurs
chaunt
chaunted
chaunter
chaunters
chaunting
chaunts
chausses
chauvinism
chauvinisms
chauvinist
chauvinistic
chauvinists
chaw
chawed
chawer
chawers
chawing
chaws
chayote
chayotes
chazan
chazanim
chazans
chazzen
chazzenim
chazzens
cheap
cheapen
cheapened
cheapening
cheapens
cheaper
cheapest
cheapie
cheapies
cheapish
cheaply
cheapness
cheapnesses
cheaps
cheapskate
cheapskates
cheat
cheated
cheater
cheaters
cheating
cheats
chebec
chebecs
chechako
chechakos
check
checked
checker
checkerboard
checkerboards
checkered
checkering
checkers
checking
checklist
checklists
checkmate
checkmated
checkmates
checkmating
checkoff
checkoffs
checkout
checkouts
checkpoint
checkpoints
checkrow
checkrowed
checkrowing
checkrows
checks
checkup
checkups
cheddar
cheddars
cheddite
cheddites
cheder
chicaner
chicaneries
chicaners
chicanery
chicanes
chicaning
chicories
chicory
chichi
chichis
chick
chickadee
chickadees
chicken
chickened
chickening
chickens
chickpea
chickpeas
chicks
chicle
chicles
chicly
chicness
chicnesses
chico
 chicories
chicory
chicos
chics
chid
chidden
chide
chided
chider
chiders
chides
chiding
chief
chiefdom
chiefdoms
chiefer
chiefest
chiefly
chiefs
chieftain
chieftaincies
chieftaincy
chiliasts
chilies
chill
chilled
chiller
chillers
chillest
chilli
chillier
chillies
chilliest
chillily
chilliness
chillinesses
chilling
chills
chillum
chillums
chilly
chilopod
chilopods
chimaera
chimaeras
chimar
chimars
chimb
chimbley
chimbleys
chimblies
chimbly
chimbs
chime
chimed
chimer
chimera
chimeras
chimere
chimeres
chimeric
chimerical
chimers
chimes
chiming
chimla
chimlas
chimley
chimleys
chimney
chimneys
chimp
chimpanzee
chimpanzees
chimps
chin
china
chinas
chinbone
chinbones
chinch
chinchies
chinchier
chinchiest
chinchilla
chinchillas
chinchy
chine
chined
chines
chining
chink
chinked
chinkier
chinkiest
chinking
chinks
chinky
chinless
chinned
chinning
chino
chinone
chinones
chinook
chinooks
chinos
chins
chints
chintses
chintz
chintzes
chintzier
chintziest
chintzy
chip
chipmuck
chipmucks
chipmunk
chipmunks
chipped
chipper
chippered
chippering
chippers
chippie
chippies
chipping
chippy
chips
chirk
chirked
chirker
chirkest
chirking
chirks
chimp
chirmed
chirming
chirms
chiro
chiroprodies
chiroprodist
chiroprodists
chiroprody
chiropractic
chiropractics
chiropractor
chiropractors
chiros
chirp
chirped
chirper
chirpers
chirpier
chirpiest
chirpily
chirping
chirps
chirpy
chirr
chirre
chirred
chirres
chirring
chirrs
chivariing
chivaris
chive
chives
chived
chivies
chivvied
chivvies
chivvy
chivvying
chivy
chivy
chiried
chiries
chirried
chirries
chirr
chirrying
chirying
chlamydes
chlamys
chlamyses
chloral
chlorals
chlorambucil
chlorate
chlorates
chloridan
chloridans
chloric
chlorid
chloride
chlorides
chlorids
chlorin
chlorinate
chlorinated
chlorinates
chlorinating
chlorination
chlorinations
chlorinator
chlorinators
chlorine
chlorines
chlorins
chlorite
chlorites
chlorite
chloroform
chloroformed
chloroforming
chloroforms
chlorophyll
chlorophylls
chlorous
chock
chocked
chockfull
chocking
chocks
chocolate
chocolates
choice
 choisely
choicer
choices
choicest
choir
choirboy
choirboys
choired
choiring
choirmaster
choirmasters
choirs
choke
choked
choker
chokers
chokes
chokey
chokier
chokiest
choking
choky
cholate
cholates
choler
cholera
choleras
choleric
cholers
cholesterol
cholesterols
choline
cholines
cholla
chollas
chomp
chomped
chomping
chomps
chon
chromas
chromate
chromates
chromatic
chrome
chromed
chromes
chronic
chronic chromes
chronicides
chronizing
chronom
chronos
chronosomal
chronosome
chromosomes
chronous
chronyl
chronaxies
chronaxy
chronic
chronicle
chronicled
chronicler
chroniclers
chronicles
chronicling
chronics
chronologic
chronological
chronologically
chronologies
chronology
chronometer
chronometers
chronon
chronons
chrysalides
chrysalises
chrysanthemum
chrysanthemums
chthonic
chub
chubasco
chubascos
chubbier
chubbliest
chubbily
chubbiness
chubbinesses
chubby
chubs
chuck
chucked
chuckies
chucking
chuckle
chuckled
chuckler
chucklers
chuckles
chuckling
chucks
chucky
chuddah
chuddahs
chuddar
chuddars
chudder
chudders
chufa
chufas
chuff
chuffed
chuffer
chuffest
chuffier
chuffiest
chuffing
chuffs
chuffy
chug
chugged
chugger
chuggers
chugging
chugs
churchyard
churchyards
churl
churlish
churls
churn
churned
churner
churners
churning
churnings
churns
churr
churred
churring
churrs
chute
chuted
chutes
chuting
chutist
chutists
chutnee
chutnees
chutney
chutneys
chutzpa
chutzpah
chutzpahs
chutzpas
chyle
chyles
chylous
chyme
chymes
chymic
chymics
chymist
chymists
chymosin
chymosins
chymous
ciao
cibol
cibols
ciboria
ciborium
ciboule
ciboules
cicada
cicadae
cicadas
cicala
cicalas
cicale
cicatrices
cicatrix
cicelies
cicely
cicero
cicerone
cicerones
ciceroni
ciceros
cichlid
cichlidae
cichlids
cicisbei
cicisbeo
cicoree
cicorees
cider
ciders
cigar
cigaret
cigaret
cigaretts
cigarettes
cigars
cilantro
cilantros
cilia
ciliary
ciliate
ciliated
ciliates
cilice
cilices
cilium
cimex
cimices
cinch
cinched
cinches
cinching
cinchona
cinchonas
cincture
cinctured
cinctures
cincturing
cinder
cindered
cindering
cinders
cindery
cine
cineast
cineaste
cineastes
cineasts
cinema
cinemas
cinematic
cineol
cineole
cineoles
cineols
cinerary
cinerin
cinerins
cines
cingula
cingulum
cinnabar
cinnabars
cinnamic
cinnamon
cinnamons
cinnamyl
cinnamyls
cinquain
cinquains
cinque
cinques
cion
cions
cipher
ciphered
ciphering
ciphers
ciphonies
ciphony
cipolin
citrus
citruses
citern
citterns
city
cityfied
cityward
civet
civets
civic
civicism
civicisms
civics
civie
civies
civil
civilian
civilians
civilise
civilised
civilises
civilising
civilities
civility
civilization
civilizations
civilize
civilized
civilizes
civilizing
civilly
civism
civisms
civvies
civvy
clabber
clabbered
clabbering
clabbers
clash
clachan
clachans
clachs
clack
clacked
clacker
clackers
clacking
claquers
claques
claqueur
claqueurs
clarence
clarences
claret
clarets
claries
clarification
clarifications
clarified
clarifies
clarify
clarifying
clarinet
clarinetist
clarinetists
clarinets
clarinettist
clarinettists
clarion
clarioned
clarioning
clarions
clarities
clarity
clarkia
clarkias
claro
claroes
claros
clary
clash
clashed
clasher
clashers
clashes
clashing
clasp
clasped
clasper
claspers
clasping
clasps
claspt
class
classed
classer
classers
classes
classic
classical
classically
classicism
classisms
classicist
classicists
classics
classier
classiest
classification
classifications
classified
classifies
classify
classifying
classily
classing
classis
classless
classmate
classmates
classroom
classrooms
classy
clast
clastic
clastics
clasts
clatter
clattered
clattering
clatters
clattery
claucht
claught
claughted
claughting
claughts
clausal
clauses
claustrophobia
claustrophobias
clavate
cleanness
cleannesses
cleans
cleanse
cleansed
cleanser
cleansers
cleanses
cleansing
cleanup
cleanup
clear
clearance
clearances
cleared
clearer
clearers
clearest
clearing
clearings
clearly
clearness
clearnesses
clears
cleat
cleated
cleating
cleat

clevage
clevages
cleave
cleaved
cleaver
cleavers
cleaves
cleaving
clek

cleeked
cleeking
cleeks
clef
clefs
cleft
clefts
clematis
clematises
clemencies
clemency
coalbins
ccoalbox
ccoalboxes
ccoaled
ccoaler
ccoalers
ccoalesce
ccoalesced
ccoalescent
ccoalesces
ccoalescing
ccoalfield
ccoalfields
ccoalfish
ccoalishes
ccoalhole
ccoalholes
ccoalified
ccoalifies
ccoalify
ccoalifying
ccoaling
ccoalition
ccoalitions
ccoalless
ccoalpit
ccoalpits
ccoals
ccoal sack
ccoal sacks
ccoal shed
ccoal sheds
ccoalyard
ccoalyards
ccoaming
ccoamings
ccoannex
ccoannexed
ccoannexes
ccoannexing
ccoappear
ccoappeared
ccoappearing
ccoappears
ccoapt
ccoaped
ccoapting
ccoapts
coarse
coarsely
coarsen
coarsened
coarseness
coarsenesses
coarsening
coarsens
coarser
coarcest
coassist
coassisted
coassisting
coassists
coassume
coassumed
coassumes
coassuming
coast
coastal
coasted
coaster
coasters
coasting
coastings
coastline
coastlines
coasts
coat
coated
coatee
coatees
coater
coaters
coati
coating
coatings
coatis
coatless
coatrack
coatracks
coatroom
coatrooms
coats
coattail
coattails
coattend
coattended
cobweb
cobwebbed
cobwebbier
cobwebbiest
cobwebbing
cobwebby
cobwebs
coca
cocain
cocaine
cocaines
cocains
cocaptain
cocaptains
cocas
coccal
cocci
coccic
coccid
coccidia
coccids
coccoid
coccoids
coccus
coccus
cochair
cochaired
cochairing
cochairman
cochairmen
cochairs
cochampion
cochampions
cochin
cochins
cochlea
cochleae
cochlear
cochleas
cocinera
cocineras
cock
cockade
cockaded
cockades
cockatoo
cockatoos
cockbill
cockbilled
cockbilling
cockbills
cockboat
cockboats
cockcrow
cockcrows
cocked
cocker
cockered
cockerel
cockerels
cockering
cockers
cockeye
cockeyed
cockeyes
cockfight
cockfights
cocker
cockiest
cockily
cockiness
cockinesses
cocking
cockish
cockle
cockled
cockles
cocklike
cockling
cockloft
cocklofts
cockney
cockneys
cockpit
cockpits
cockroach
cockroaches
cocks
cockshies
cockshut
cockshuts
cockshy
cockspur
cockspurs
cocksure
cocktail
cocktailed
cocktailing
cocktails
cockup
cockups
coky
coco
cocoa
cocoanut
cocoanuts
cocoas
cocobola
cocobolas
cocobolo
cocobolos
cocomat
cocomats
cocomposer
cocomposers
coconspirator
coconspirators
coconut
coconuts
cocoon
cocooned
cocooning
cocoons
cocos
cocotte
cocottes
cocreate
cocreated
cocreates
cocreating
cocreator
cocreators
cod
coda
codable
codas
codder
codders
coddle
coddled
coddler
codifies
codify
codifying
coding
codirector
codirectors
codiscoverer
codiscoverers
codlin
codling
codlings
codlins
codon
codons
codpiece
codpieces
cods
coed
coeditor
coeditors
coeds
coeducation
coeducational
coeducations
coeffect
coeffects
coefficient
coefficients
coelectric
coelectricity
coelectricities
coelectricly
coelectricly
coembodied
coembodies
coembody
coembodying
coemploy
coemployed
coemploying
coemploys
coempt
coempted
coempting
coempts
coenact
coexistences
coeexistent
coeexisting
coexists
coeextend
coeextended
coeextending
coeextends
cofactor
cofactors
cofeature
cofeatures
coff
coffee
coffeehouse
coffeehouses
coffeepot
coffeepots
coffees
coffer
cofferer
coffering
coffers
coffin
coffined
coffing
coffining
coffins
coffle
coffled
coffles
coffling
coffret
coffrets
coffs
cofinance
cofinanced
cofinances
cofinancing
cofounder
cofounders
coft
cog
cogencies
cogency
cogent
cogently
cogged
cogging
cogitate
cogitated
cogitates
cogitating
cogitation
cogitations
cogitative
cogito
cogitos
cognac
cognacs
cognate
cognates
cognise
cognised
cognises
cognising
cognition
cognitions
cognitive
cognizable
cognizance
cognizances
cognizant
cognize
cognized
cognizer
cognizers
cognizes
cognizing
cognomen
cognomens
cognomina
cognovit
cognovits
cogon
cogens
cogs
cogway
cogways
cogweel
cogweels
cohabit
cohabitation
cohabitations
cohabited
cohabiting
collisions
collogue
collogued
collogues
colloguing
colloid
colloidal
colloids
collop
collops
colloquial
colloquialism
colloquialisms
colloquies
colloquy
collude
colluded
colluder
colluders
colludes
colluding
collusion
collusions
colluvia
colly
collying
collyria
colocate
colocated
colocates
colocating
colog
cologne
cologned
colognes
cologs
colon
colonel
colonels
colones
coloni
colonial
colonials
colonic
colonies
colonise
colonised
colonises
commercializing
commercially
commercial
commercials
commericing
commie
commies
commiserate
commiserated
commiserates
commiserating
commiseration
commiserations
commissaries
commissary
commission
commissioned
commissioner
commissioners
commissioning
commissions
commit
commitment
commitments
commits
committal
committals
committed
committee
committees
committing
commix
commixed
commixes
commixing
commixt
commode
commodes
commodious
commodities
commodity
commodore
commodores
common
commoner
commoners
commonest
commonly
commonplace
composites
composition
compositions
compost
composted
composting
composts
composure
compote
compotes
compound
compounded
compounding
compounds
comprehend
comprehended
comprehending
comprehends
comprehensible
comprehension
comprehensions
comprehensive
comprehensiveness
comprehensivenesses
compress
compressed
compresses
compressing
compression
compressions
compressor
compressors
comprise
comprised
comprises
comprising
comprize
comprized
comprizes
comprizing
compromise
compromised
compromised
compromises
compromising
comps
compt
compted
compting
concord
cordance
concordances
concordant
cords
concrete
concreted
concretes
concreting
concretion
concretions
concubine
concubines
concur
conceded
concurrent
concurrently
concurring
concs
concuss
concussed
concusses
concussing
concussion
condemn
condemnation
condemnations
condemned
condemning
condemns
condensation
condensations
condense
condensed
condenses
condensing
condescend
condescended
condescending
condescends
condescension
condescensions
condign
condiment
condiments
confidants
confide
confided
confidence
confidences
confident
confidential
confidentiality
confider
confiders
confides
confiding
configuration
configurations
configure
configured
configures
configuring
confine
confined
confinement
confinements
confiner
confiners
confines
confining
confirm
confirmation
confirmations
confirmed
confirming
confirms
confiscate
confiscated
confiscates
confiscating
confiscation
confiscations
conflagration
conflagrations
conflate
conflated
conflates
conflating
conflict
conflicted
conflicting
conflicts
conflux
confluxes
confocal
conform
conformed
conforming
conformities
conformity
conforms
confound
confounded
confounding
confounds
confre
confres
confront
confrontation
confrontations
confronted
confronting
confronts
confuse
confused
confuses
confusing
confusion
confusions
confute
confuted
confuter
confuters
confutes
confuting
conga
congaed
congaing
congas
conge
congeal
congealed
congealing
congeals
congee
congeed
congeeing
congees
congener
congeners
congenial
congenialities
congeniality
congenital
conger
congers
conges
congest
congested
congesting
congestion
congestions
congestive
congests
congii
congius
conglobe
conglobed
conglobes
conglobing
conglomerate
conglomerated
conglomerates
conglomerating
conglomeration
conglomerations
congo
congoes
congos
congou
congous
congratulate
congratulated
congratulates
congratulating
congratulation
congratulations
congratulatory
congregate
congregated
congregates
congregating
congregation
congregational
congregations
congresional
congress
congressed
conjugates
conjugating
conjugation
conjugations
conjunct
conjunction
conjunctions
conjunctive
conjunctivitis
conjunct
conjure
conjured
conjuror
conjurors
conjures
conjuring
conjurer
conkers
conking
conks
conky
conn
connate
connect
connected
connecting
connection
connections
connective
connector
connectors
connects
conned
conned
conner
conners
conning
connivance
connivances
connive
connived
conniver
connivers
connives
conniving
consensus
consensuses
consent
consented
consenting
consents
consequence
consequences
consequent
consequential
consequently
consequents
conservation
conservationist
conservationists
conservations
conservatism
conservatisms
conservative
conservatives
conservatories
conservatory
conserve
conserved
conserves
conserving
consider
considerable
considerably
considerate
considerately
considerateness
consideratenesses
consideration
considerations
considered
considering
considers
consign
consigned
consignee
consignees
consigning
consignment
consignments
consignor
consignors
consigns
constabularies
constabulary
constancies
constancy
constant
constantly
constants
constellation
constellations
consternation
consternations
constipate
constipated
constipates
constipating
constipation
constipations
constituent
constituents
constitute
constituted
constitutes
constituting
constitution
constitutional
constitutionality
constrain
constrained
constraining
constrains
constraint
constraints
constriction
constrictions
constrictive
construct
constructed
constructing
construction
constructions
constructive
constructs
construe
construed
construes
construing
consul
consular
contraceptions
contraceptive
contraceptives
contract
contracted
contracting
contraction
contractions
contractor
contractors
contracts
contractual
contradict
contradicted
contradicting
contradiction
contradictions
contradictory
contradicts
contrail
contrails
contraindicate
contraindicated
contraindicates
contraindicating
contraption
contraptions
contraries
contrarily
contrariwise
contrary
contrast
contrasted
contrasting
contrasts
contravene
contravened
contravenes
contravening
contribute
contributed
contributes
contributing
contribution
contributions
contributor
contributors
contributory
convected
convecting
convection
conventional
convections
convective
convects
convene
convened
convener
conveners
convenes
convenience
conveniences
convenient
conveniently
convening
convent
convented
conventing
convention
conventional
conventionally
conventions
convents
converge
converged
convergence
convergences
convergencies
convergency
convergent
converges
converging
conversant
conversation
conversational
conversations
converse
conversed
conversely
converses
conversing
conversion
conversions
convert
converted
converter
copens
copepod
copepods
coper
copers
copes
copied
copier
copiers
copies
copihue
copihues
copilot
copilots
coping
copings
copious
copiously
copiousness
copiousnesses
coplanar
coplot
coplots
coplotted
coplotting
copped
copper
copperah
copperahs
copperas
copperases
coppered
copperhead
copperheads
coppering
coppers
coppery
coppice
coppiced
coppices
copping
coppra
coppras
copra
coprah
coprahs
copras
copremia
copulatives

copy
copybook
copybooks
copyboy
copyboys
copycat
copycats
copycatted
copycatting
copydesk
copydesks
copyhold
copyholds
copying
copyist
copyists
copyright
copyrighted
copyrighting
copyrights
coquet
coquetries
coquetry
coquets
coquette
coquetted
coquettes
coquetting
coquille
coquilles
coquina
coquinas
cquito
coquitos
coracle
coracles
coracoid
coracoids
coral
corals
coranto
corantoes
corantos
corban
corbans
corbeil
corbeils
cormorants
cormous
corms
corn
cornball
cornballs
corncake
corncakes
corncob
corncobs
corncrib
corncribs
cornea
corneal
corneas
corned
cornel
cornels
corneous
corner
cornered
cornering
corners
cornerstone
cornerstones
cornet
corneties
cornetcy
cornets
cornfed
cornhusk
cornhusks
corice
corniced
cornices
corniche
corniches
cornicing
cornicle
cornicles
cornier
corniest
cornily
corning
cornmeal
cornmeals
corns
cornstalk
cornstalks
cornstarch
cornstarches
cornu
cornua
cornual
cornucopia
cornucopias
cornus
cornuses
cornute
cornuted
cornuto
cornutos
corny
corodies
corody
corolla
corollaries
corollary
corollas
corona
coronach
coronachs
coronae
coronals
coronaries
coronal
coronaries
coronary
coronaries
coronations
coronel
coronels
coroner
coroners
coronet
coronets
corotate
corotated
corotates
corotating
corpora
corporal
corporals
corporate
corporation
corporations
corporeal
corporeally
corps
corpse
corpses
corpsman
corpsmen
corpulence
corpulences
corpulencies
corpulency
corpulent
corpus
corpuscle
corpuscles
corrade
corraded
corrades
corrading
corral
corralled
corralling
corralled
correls
correct
corrected
correcter
correctest
correcting
correction
corrections
corrective
correctly
correctness
correctnesses
corrects
correlate
correlated
correlates
correlating
correlation
correlations
correlative
correlatives
correspond
corresponded
correspondence
correspondences
correspondent
corselet
corselets
corses
corset
corseted
corseting
corsets
corset
corsets
cortege
corteges
cortex
cortexes
cortical
cortices
cortin
cortins
cortisol
cortisols
cortisone
cortisones
corundum
corundums
corvee
corvees
corves
corvet
corvets
corvette
corvettes
corvina
corvinas
corvine
corymb
corymbed
coryombs
coryphee
coryphees
coryza
coryzal
coryzas
cos
cosec
cosecant
cosecants
cosecs
coses
coset
cosets
cosey
coseys
cosh
coshed
coshed

coshers
coshes
coshing
cosie
cosier
cosies
cosiest
cosign
cosignatories
cosignatory
cosigned
cosigner
cosigners
cosigning
cosigns
cosily
cosine
cosines
cosiness
cosinesses
cosmetic
cosmetics
cosmic
cosmical
cosmism
cosmisms
cosmist
cosmists
cosmonaut
cosmonauts
cosmopolitan
cosmopolitans

cosmos
cosmoses
cosponsor
cosponsors
coss
cossack
cossacks
cosset
counterpoints
counterpower
counterpowers
counterpressure
counterpressures
counterpropagation
counterpropagations
counterproposal
counterproposals
counterprotest
counterprotests
counterquestion
counterquestions
counterraids
counterraids
counterrallies
counterrally
counterrebuttal
counterrebuttals
counterreform
counterreforms
counterresponse
counterresponses
counterretaliation
counterretaliations
counterrevolution
counterrevolutions
counters
countersign
countersigns
counterstrategies
counterstrategy
counterstyle
counterstyles
countersue
countersued
countersues
countersuggestion
countersuggestions
countersuing
countersuit
countersuits
countertendencies
countertendency
counterterror
counterterrorisms
counterterrorist
crag
cragged
craggier
craggiest
craggily
craggy
crags
cragsman
cragsmen
crake
crakes
cram
crambe
crambes
crambo
cramboes
crambos
crammed
crammer
crammers
cramming
cramoisies
cramoisy
cramp
cramped
cramping
crampit
crampits
crampon
crampons
crampoon
crampoons
cramps
crams
cranberries
cranberry
cranch
cranched
cranches
cranching
crane
craned
cranes
crania
cranial
craniate
craniates
craning
crashers
crashes
crashing
crisis
crass
crasser
crassest
crassly
cratch
cratches
crate
crated
crater
cratered
cratering
craters
crates
crating
craton
cratonic
cratons
craunch
craunched
craunches
craunching
cravat
cravats
crave
craved
craven
cravened
cravening
cravenly
cravens
craver
cravers
craves
craving
cravings
craw
crawdad
crawdads
crawfish
crawfished
crawfishes
crawfishing
crawl
crawled
crawler
crawlers
crawlier
crawliest
crawling
crawls
crawlway
crawlways
crawly
craws
crayfish
crayishes
crayon
crayoned
crayoning
crayons
craze
crazed
cazes
crazier
craziest
crazily
craziness
crazinesses
crazing
crazy
creak
creaked
creakier
creakiest
creakily
creaking
creaks
creaky
cream
creamed
creamer
creameries
creamers
creamery
creamier
creamiest
creamily
creaming
creams
creamy
crease
creas
credos
credulities
credularity
credulous
creed
creedal
creeds
creek
creeks
creel
creels
creep
creepage
creepages
creeper
creepers
creepie
creepier
creepies
creepiest
creepily
creeping
creeps
creepy
creese
creeses
creesh
creeshed
creeshes
creeshing
cremains
cremate
cremated
cremates
cremating
cremation
cremations
cremator
cremators
crematory
creme
cremes
crenate
crenated
crenel
creneled
creneling
crenelle
crenelled
crenelles
crenelling
crenels
creodont
creodonts
creole
creoles
cresol
creosols
creosote
creosoted
creosotes
creosoting
crepe
creped
crepes
crepy
crepier
crepiest
creping
crept
crepy
crescendo
crescendos
crescent
crescents
cresive
cresol
cresols
cress
cresses
cresset
cressets
crest
crestal
crested
crestfallen
crestfallens
cresting
crestings
crests
cresyl
cresylic
cresyls
cretic
cretics
cretin
crossarms
crossbar
crossbarred
crossbarring
crossbars
crossbow
crossbows
crossbreed
crossbreded
crossbreeding
crossbreeds
crosscut
crosscuts
crosscutting
crosse
crossed
crosser
crossers
crosses
crossest
crossing
crossings
crosslet
crosslets
crossly
crossover
crossovers
crossroads
crosstie
crosssties
crosswalk
crosswalks
crossway
crossways
crosswise
crotch
crotched
crotches
crotchlet

crotchets
crotchety
croton
crotons
crouch
crouched
crouches
crouching
croup
culets
culex
culices
culicid
culicids
culicine
culicines
culinary
cull
cullay
cullays
culled
culler
cullers
cullet
cullets
culled
cullies
culling
cullion
cullions
cullis
cullises
culls
cully
culying
culm
culmed
culminatation
culminatations
culminate
culminated
culminates
culminating
culming
culms
culotte
culottes
culpa
culpable
culpably
culpae
culpit
culprits
cult
cultch
cultches
culti
cumquats
cumshaw
cumshaws
cumulate
cumulated
cumulates
cumulating
cumulative
cumuli
cumulous
cumulus
cundum
cundums
cuneal
cuneate
cuneated
cuneatic
cuniform
cuniforms
cunner
cunners
cunning
cunninger
cunningest
cunningly
cunnings
cunt
cunts
cup
cupboard
cupboards
cupcake
cupcakes
cupel
cupeled
cupeler
cupelers
cupeling
cupelled
cupeller
cupellers
cupelling
cupels
cupful
cupfuls
cupid
cupidities
cupidity
cupids
cuplike
cupola
cupolaed
cupolaing
cupolas
cuppa
cuppas
cupped
cupper
cuppers
cuppier
cuppiest
cupping
cuppings
cuppy
cupreous
cupric
cuprite
cuprites
cuprous
cuprum
cuprums
cups
cupsful
cupula
cupulae
cupular
cupulate
cupule
cupules
cur
curable
curably
curacao
curacaos
curacies
curacoa
curacoas
curacy
curagh
curaghs
curara
curaras
curare
curares
curari
curarine
curets
curette
curetted
curettes
curetting
curf
curfew
curfew
curfew
curs
curia
curiae
curial
curie
curies
curing
curio
curios
curiosa
curiosities
curiosity
curious
curiouser
curiousest
curite
curites
curium
curiums
curl
curled
curler
curlers
curlew
curlews
curlicue
curlicued
curlicues
curlicuing
curlier
curliest
curlily
curling
curlings
curls
curly
curlycue
curlycues
curmudgeon
curmudgeons
cycled
cycler
cyclers
cycles
cyclic
cyclical
cycliely
cycling
cyclings
eyelist
cylist
cyclists
cyclitol
cyclitols
cyclize
cyclized
cyclizes
cyclizing
cyclo
cycloid
cycloids
cyclonal
cyclone
cyclones
cyclonic
cyclopaedia
cyclopaedias
cyclopaedia
cyclopedias
cyclophosphamide
cyclophosphamides
cyclops
cyclorama
cycloramas
cyclos
cycloses
cyclosis
cyder
cyders
eyeses
eyesis
cygnet
cygnets
cyllices
cylinder
cylndered
cylndering
cylnders
cyllix
dangerous
dangerously
dangers
danging
dangle
dangled
dangler
danglers
dangles
dangling
dangs
danio
danios
dank
danker
dankest
dankly
dankness
danknesses
danseur
danseurs
danseuse
danseuses
dap
daphne
daphnes
daphnia
daphnias
dapped
dapper
dapperer
dapperest
dapperly
dapping
dapple
dappled
dapples
dappling
daps
darb
darbies
darbs
dare
dared
daredevil
daredevils
dareful
darer
dearies
dearly
dearness
dearnesses
dears
dearth
dearths
deary
deash
deashed
deashes
deashing
deasil
death
deathbed
deathbeds
deathcup
deathcups
deathful
deathless
deathly
deaths
deathy
deave
deaved
deaves
deaving
de
deacle
deacles
debar
debar
debar
debar
debrane
debraking
debraks
debarred
debarring
debars
debase
debar
debration
debrations
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrung
debrug
debatable
debate
debated
debater
debaters
debates
debating
debauch
debauched
debaucherries
debauchery
debauches
debauching
debilitate
debilitated
debilitates
debilitating
debilities
debility
debit
debited
debiting
debits
debonair
debone
deboned
deboner
deboners
debones
deboning
debouch
debouche
debouched
debouches
debouching
debrief
debriefed
debriefing
debriefs
deris
debruise
debruised
debriuses
debruising
deds
debt
debtless
debtor
decentering
decenters
decentest
decently
decentralization
decentre
decentred
decentres
decentring
decception
dechions
dechetively
decern
decerned
decerning
decerns
deciare
deciare
decibel
decibels
decide
decided
decidedly
decider
deciders
decides
deciding
decidua
deciduae
decidual
deciduas
deciduous
decigram
decigrams
decile
deciles
decimal
decimally
decimals
decimate
decimated
decimates
decimating
decipher
decipherable
deciphered
deciphering
deciphers
decision
decisions
decisive
decisively
decisiveness
decisivenesses
deck
decked
deckel
deckels
decker
deckers
deckhand
deckhands
decking
deckings
deckle
deckles
decks
declaim
declaimed
declaiming
declares
declares
declaring
declass
declasses
declassing
declimension
declimensions
declimination
decliminations
decline
declined
decliner
decliners
declines
declining
decoct
decocted
decocting
decocts
decode
decoded
decoder
decoders
decodes
decoding
decolor
decolored
decoloring
decoloring
decolour
decoloured
decolouring
decolours
decompose
decomposed
decomposes
decomposing
decomposition
decompositions
degestionant
degestionants
decor
decorate
decorated
decorates
decorating
decoration
decorations
decorative
decorator
decorators
decorous
decorously
decorousness
decorousnesses
decors
decorum
decorums
decoy
decoyed
decoyer
decoyers
decoying
decoys
decrease
decreased
decreases
decreasing
decree
decreed
decreeing
decreeer
decreers
decrees
decrept
decrescendo
decretal
decretals
decrial
decrials
decried
decrier
decriers
decries
decrown
decrowned
decrowning
decrowns
decry
decrying
decrypt
decrypted
decrypting
decrypts
decuman
decuple
decupled
decuples
decupling
decuries
decurion
decurions
decurve
decurved
decurves
decurving
decury
dedal
dedans
dedicate
dedicated
dedicates
dedicating
dedication
dedications
dedicator
deduce
deduced
deduces
deducible
deducing
deduct
deducted
deductible
deducting
deduction
deductions
deductive
deducts
dee
deed
deeded
deedier
deediest
deeding
deedless
deeds
deedy
deejay
deejays
deem
deemed
deeming
deems
deemster
deemsters
deep
deepen
deepened
deepener
deepeners
deepening
deepens
deeper
deepest
deeply
deepness
deepnesses
deepe
deer
deerflies
deerfly
deers
deerskin
deerskins
deerweed
deerweeds
deerweeds
deerweeds
deeryard
deeryards
dee
deewan
deeuwans
deface
defaced
defacement
defacments
defacer
defacers
defaces
defacing
defamation
defamations
defamatory
defame
defamed
defamer
defamers
defames
defaming

defat
defats
defatted
defatting
default
defaulted

defaulting
defaults
defeat
defeated
defeater
defeaters
defeating
defeats
defecate

defecated
defecates
defecating
defecation
defecations
defect
defected
defecting
defection
defections
defective
defectives
defector
defectors
defects
defence
defences
defend
defendant
defendants
defended
defender
defenders
defending
defends
defense
defended
defenseless
defenses
defensible
defensing
defensive
defer
deference
defrences
deferent
deferential
deferents
deferment
deferments
deferrable
deferral
deferrals
defered
deferrer
deferrers
deferring
defers
defi
defiance
defiances
defiant
deficiencies
deficiency
deficient
deficit
deficits
defied
defier
defiers
defies
defilade
defiladed
defilades
defilading
defile
defiled
defilement
defilements
defiler
defilers
defiles
defiling
definable
definably
define
defined
definer
definers
defines
defining
definite
definitely
definition
definitions
definitive
defis
deflate
deflated
deflates
deflating
deflation
deflations
deflator
deflators
deflea
defleaed
defleaing
deflea
deflect
deflected
deflecting
deflection
deflections
deflects
deflexed
deflower
deflowered
deflowering
deflowers
defoam
defoamed
defoamer
defoamers
defoaming
defoams
defog
defogged
defogger
defoggers
defogging
defogs
defoliant
defoliants
defoliates
defoliating
defoliations
deforce
deforced
deforces
deforcing
deforest
deforested
deforesting
deforests
deform
deformation
deformations
defformed
defomer
defomers
deforming
demarcation
demarcations
demarche
demarches
demark
demarked
demarking
demarks
demast
demasted
demasting
demasts
deme
demean
demeaned
demeaning
demeanor
demeanors
demeans
dement
demented
dementia
dementias
dementing
dements
demert
demerited
demeriting
demeriting
demertis
demes
demesne
demesnes
demies
demigod
demigods
demijohn
demijohns
demilune
demilunes
demirep
demireps
demise
demised
demises
demising
demit
demitasse
demitasses
demits
demitted
demitting
demiurge
demiurges
demivolt
demivolts
demo
dembob
demobbed
demobbing
demobilization
demobilizations
demobilize
demobilized
demobilizes
demobilizing
demobs
democracies
democracy
democrat
democratic
democratize
democratized
democratizes
democratizing
democrats
demode
demoded
demographic
demography
demolish
demolished
demolishes
demolishing
demolition
demolitions
demon
demoness
demonesses
demoniac
demoniacs
demonian
demonic
demonise
demonised
demonises
demonising
demurred
demurrer
demurrers
demurring
demurs
demy
den
denarii
denarius
denary
denature
denatured
denatures
denaturing
denazified
denazifies
denazify
denazifying
dendrite
dendrites
dendroid
dendron
dendrons
dene
denes
dengue
dengues
deniable
deniably
denial
denials
denied
denier
deniers
denies
denim
denims
denizen
denizened
denizening
denizens
denned
denning
denomination
denominational
denominations
denominator
denominators
dentistries
dentistry
dentists
dentition
dentitions
dentoid
dents
dentural
denture
dentures
denudate
denudated
denudates
denudating
denude
denued
denuder
denuders
denudes
denuding
denunciation
denunciations
deny
denying
deodand
deodands
deodar
deodara
deodaras
deodars
deodorant
deodorants
deodorize
deodorized
deodorizes
deodorizing
depaint
depainted
depainting
depaints
depart
departed
departing
department
departmental
departments
departs
departure
deposits
depot
depots
depravation
depravations
deprave
depraved
depraver
depravers
depraves
depraving
depravities
depravity
deprecate
deprecated
deprecates
deprecating
deprecation
deprecations
deprecatory
depreciate
depreciated
depreciates
depreciating
depreciation
depreciations
depredation
depredations
depress
depressant
depressants
depressed
depresses
depressing
depression
depressions
depressive
depressor
depressors
deprival
deprivals
deprive
deprived
depriver
depivers
deprives
depriving
depside
derider
deriders
derides
deriding
deringer
deringers
derision
derisions
derisive
derisory
derindrome
derisms
dermal
dermas
dermatitis
dermatologies
dermatologist
dermatologists
dermatology
dermic
dermis
dermises
dermoid
derms
dernier
derogate
derogated
derogates
derogating
derogatory
derrick
derricks
derriere
derrieres
derries
derris
derrises
derry
dervish
dervishes
des
desalt
desalted
desalter
desalters
desalting
desalts
desand
desanded
desanding
desands
descant
descanted
descanting
descants
descend
descendant
descendants
descended
descendent
descendents
descending
descends
descent
descents
describable
describably
describe
described
describes
describing
descried
descrider
descriers
descries
description
descriptions
descriptive
descriptor
descriptors
descry
descrying
desecrate
desecrated
desecrates
desecrating
desecration
desecrations
desegregate
desegregated
desegregates
desegregating
desegregation
desegregations
deselect
deselected
deselecting
deselects
desert
deserted
deserter
deserters
desertic
deserting
deserts
deserve
deserved
deserver
deservers
deserves
deserving
desex
desexed
desexes
desexing
desiccate
desiccated
desiccates
desiccating
desiccation
desiccations
design
designate
designated
designates
designating
designation
designations
designed
designee
designees
designer
designers
designing
designs
desilver
desilvered
desilvering
desilvers
desinent
desirabilities
desirability
desirable
desire
desired
desirer
desirers
desires
desiring
desiious
desist
desisted
desisting
desists
desk
deskmans
deskmen
desk
desmans
desmid
desmids
desmoid
desmoids
desolate
desolated
desolates
desolating
desolation
desolations
desorb
desorbed
desorbing
desorbs
despair
despaired
despairing
despairs
despatch
despatched
detract
detracted
detracting
detraction
detractions
detractor
detractors
detracts
detrain
detrained
detraining
detrains
detriment
detrimental
detrimentally
detriments
detrital
detritus
detrude
detruded
detrudes
detruding
deuce
deated
decidedly
duces
duating
deuteric
deuteron
deuterons
deutzias
deutzias
dev
deva
devaluation
devaluations
devalue
devalued
devalues
devaluating
devas
devastate
devastated
devastates
devastating
devastation
devastations
devein
deveined
deveining
deveins
devel
develed
develing
develop
develope
developed
developer
developers
developes
developing
development
developmental
developments
develops
devels
devest
devested
devesting
devests
deviance
deviances
deviancies
deviancy
deviants
deviates
deviating
deviation
deviations
devisor
devisors
device
devices
devis

devel

deveiled

develing

devilish

devilkin
devilkins
devilled

devilling
devilries

devilry
devils
deviltries
deviltry
devious
devisal
devisals
devise
devised
devisee
devisees
deviser
devisers
devises
devising
devisor
devisors
devoice
devoiced
devoices
devoicing
devoid
devoir
devoirs
devoke
devolved
devolves
devolving
devon
devons
devote
devoted
devotee
devotees
devotes
devoicing
devotion
devotional
devotions
devour
devoured
devourer
devourers
devouring
devours
devout
devoutly
devoutness
devoutnesses
dextran
dextrin
dextrine
dextrines
dextrins
dextro
dextrose
dextroses
dextrous
dey
deys
dezinc
dezinced
dezincing
dezincked
dezincking
dezincs
dhak
dhaks
dharma
dharmas
dharmic
dharna
dharnas
hole
dholes
hoolies
hooly
hoora
hooras
hooti
hootie
hooties
hootis
hoti
hotis
houri
houri
hurna
hurnas
huti
hurstis
diabase
diabases
diabasic
diabetes
diamonded
diamonding
diamonds
dianthus
dianthuses
diapason
diapasons
diapause
diapased
diapases
diapausing
diaper
diapered
diapering
diapers
diphone
diaphones
diaphonies
diaphony
diaphragm
diaphragmatic
diaphragms
diapir
diapiric
diapirs
diapsid
diarchic
diarchies
diarchy
diaries
diarist
diarists
diarrhea
diarrheas
diarrhoea
diarrhoeas
diary
diaspora
diasporas
diaspore
diaspores
diastase
diastases
diastema
diastemata
diaster
diasters
diastole
diastoles
diastral
diatom
diatomic
diatoms
diatonic
diatribes
diazepam
diazepams
diazin
diazine
diazines
diazins
diazo
diazele
diazoles
dib
dibasic
dibbed
dibber
dibbers
dibbing
dibble
dibbled
dibbler
dibblers
dibbles
dibling
dibuk
dibukim
dibuks
dibs
dicast
dicastic
dicasts
dice
diced
dicenta
dicentras
dicer
dicers
dices
dicey
dichasia
dichotic
dichroic
dicier
didactyl
didapper
didappers
diddle
diddled
diddler
diddlers
diddles
diddling
didies
dido
didoes
didos
didst
didy
didymium
didymiums
didymous
didynamies
didynamo
die
dieback
diebacks
diecious
died
diehard
diehards
dieing
diel
dieldrin
dieldrins
diemaker
diemakers
diene
dienes
diereses
dieresis
dieretic
dies
diesel
diesels
dieses
desis
diester
diesters
diestock
diestocks
diestrum
din
dinar
dinars
dindle
dindled
dindles
dindling
dine
dined
diner
dineric
dinero
dineros
diners
dines
dinette
dinettes
ding
dingbat
dingbats
dingdong
dingdonged
dingdonging
dingdongs
dinged
dingey
dingeys
dinghies
dinghy
dingier
dingies
dingiest
dingily
dinginess
dinginesses
dinging
dingle
dingles
dingo
dingoes
dings
dingus
dinguses
dingy
dining
dink
dinked
dinkey
dinkeys
dinkier
dinkies
dinkiest
dinking
dinkly
dinks
dinkum
dinky
dinned
dinner
dinners
dinning
dinosaur
dinosaurs
dins
dint
dinted
dinting
dints
diobol
diobolon
diobolons
diobols
diocesan
diocesans
dioce
dioces
diose
dioceses
diode
diodes
dioecism
dioecisms
dioicous
diol
diolefin
diolefins
diols
diopside
diopsides
dioptase
dioptases
diopter
diopters
dioptral
dioptre
dioptres
dioptic
diorama
diplosis
dipnoan
dipnoans
dipodic
dipodies
dipody
dipolar
dipole
dipoles
dippable
dipped
dipper
dippers
dipper
dippiest
dipping
dippy
dips
dipsades
dipssas
dipstick
dipsticks
dipt
diptera
dipteral
dipteran
dipterans
dipteron
diptheria
diptherias
diptyca
diptycas
diptych
diptychs
diquat
diquats
dirdum
dirdums
dire
direct
directed
director
directest
directing
direction
directional
directions
directive
disabling
disabuse
disabused
disabuses
disabusing
disadvantage
disadvantageous
disadvantages
disaffect
disaffected
disaffecting
disaffection
disaffections
disaffects
disagree
disagreeable
disagreeables
disagreed
disagreeing
disagreement
disagreements
disagrees
disallow
disallowed
disallowing
disallows
disannul
disannulled
disannulling
disannuls
disappear
disappearance
disappearances
disappeared
disappearing
disappears
disappoint
disappointed
disappointing
disappointment
disappointments
disappoints
disapproval
disapprovals
disapprove
disapproved
disapproves
disapproving
disbowel
disboweled
disboweling
disbowelled
disbowelling
disbowels
disbud
disbudded
disbudding
disbuds
disburse
disbursed
disbursement
disbursements
disburses
disbursing
disc
discant
discanted
discanting
discants
discard
discarded
discarding
discards
disease
discased
diseases
discasing
disced
discept
discepted
discepting
discepts
discern
discerned
discernible
discerning
discernment
discernments
discerns
discharge
discharged
discharges
discharging
disci
discing
disciple
disciplined
disciples
disciplinarian
disciplinarians
disciplinary
discipline
disciplined
disciplines
discipling
disciplining
disclaim
disclaimed
disclaiming
disclaims
disclaim
disclosed
disclosed
discloses
disclosing
disclosure
disclosures
disco
discoid
disco
discoids
discolor
discoloration
discolorations
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disco
disc
discontented
discontents
discontinuance
discontinuances
discontinuation
discontinue
discontinued
discontinues
discontinuing
discord
discordant
discorded
discording
discords
discos
discount
discounted
discounting
discounts
discourage
discouraged
discouragement
discouragements
discourages
discouraging
discourteous
discourteously
discourtesies
discourtesy
discover
discovered
discoverer
discoverers
discoveries
discovering
discovers
discovery
discredit
discreditable
discredited
discrediting
discredits
discreet
discreeter
discreetest
discreetly
discrepancies
discrepancy
disenchantments
disenchants
disendow
disendowed
disendowing
disendows
disentangle
disentangled
disentangles
disentangling
disease
diseases
disfavor
disfavored
disfavoring
disfavors
disfigure
disfigured
disfigurement
disfigurements
disfigures
disfiguring
disfranchise
disfranchised
disfranchisement
disfranchisements
disfranchises
disfranchising
disfrock
disfrocked
disfrocking
disfrocks
disgorged
disgorges
disgorging
disgrace
disgraced
disgraceful
disgracefully
disgraces
disgracing
disguise
disguised
disguises
disguising
disgust
disgusted
dishrag
dishrags
dishware
dishwares
dishwasher
dishwashers
dishwater
dishwaters
dishy
disillusion
disillusioned
disillusioning
disillusionment
disillusionments
disillusions
disinclination
disinclinations
disincline
disinclined
disinclines
disinclining
disinfect
disinfectant
disinfectants
disinfectcd
disinfecting
disinfection
disinfections
disinfects
disinherit
disinherited
disinheriting
disinherits
disintegrate
disintegrated
disintegrates
disintegrating
disintegration
disintegrations
disinter
disinterested
disinterestedness
disinterestednesses
disinterred
disinterring
disinters
disject
disjected
dismantling
dismast
dismasted
dismasting
dismasts
dismay
dismayed
dismaying
dismays
disme
dismember
dismembered
dismembering
dismemberment
dismemberments
dismembers
dismes
diss
diss

dissimual
dissimulations
dissimulated
dissimulating
dissimulates
dissimulating

disobedience
disobediences
disobedient
disobey
disobeyed
disobeying
disobeys
disomic
disorder
disordered
disordering
disorderliness
disorderlinesses
disorderly
disorders
disorganization
disorganizations
disorganize
disorganized
disorganizes
disorganizing
disown
disowned
disowning
disowns
disparage
disparaged
disparagement
disparagements
disparages
disparaging
disparate
disparities
disparity
dispart
disparted
disparting
disparts
dispersion
dispersionate
dispensations
dispatch
dispatched
dispatcher
dispatchers
dispatches
dispatching
dispel
dispelled
dispelling
dispels
dispense
dispended
dispending
dispends
dispensable
dispensaries
dispensary
dispensation
dispensations
dispense
dispensed
dispenser
dispensers
dispenses
dispensing
dispersal
dispersals
disperse
dispersed
disperses
dispersing
dispersion
dispersions
dispirit
dispirited
dispirit ing
dispirits
displace
displaced
displacement
displacements
displaces
displacing
displant
displanted
displanting
displants
display
displayed
displaying
displays
displease
displeased
displeases
displeasing
displeasure
displeasures
displode
disploded
displodes
disploding
displume
displumed
displumes
displuming
disport
disported
disporting
disports
disposable
disposable
disposals
dispose
disposed
disposer
disposers
disposes
disposing
disposition
dispositions
dispossess
dispossessed
dispossesses
dispossessing
dispossession
dispossessions
dispread
dispreading
dispreads
disprize
disprized
disprizes
disprizing
disproof
disproofs
disproportion
disproportionate
disproportions
disprove
disproved
disproves
disproving
disputable
disputably
disputation
disputations
dispute
disputed
disputer
disputers
disputes
disputing
disqualification
disqualifications
disqualified
disqualifies
disqualify
disqualifying
disquiet
disquieted
disquieting
disquiets
disrate
disrated
disrates
disrating
disregard
disregarded
disregarding
disregards
disrepair
disrepairs
disreputable
disrepute
disreputes
disrespect
disrespectful
disrespects
disrobe
disrobed
disrober
disrobers
disrobes
disrobing
disroot
disrooted
disrooting
disroots
disrupt
disrupted
disrupting
disruption
disruptions
disruptive
disrupts
dissatisfaction
dissatisfactions
dissatisfies
dissatisfy
dissave
dissaved
dissaves
dissaving
disseat
disseated
disseating
disseats
dissect
dissected
dissecting
dissection
dissections
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>dissect</td>
<td>disseise</td>
<td>disseised</td>
<td>disseises</td>
<td>disseising</td>
<td>disseize</td>
<td>disseized</td>
<td>disseizes</td>
<td>disseizing</td>
<td>dissemble</td>
<td>dissembled</td>
<td>dissembler</td>
<td>dissemblers</td>
<td>dissembles</td>
</tr>
<tr>
<td>disseminate</td>
<td>disseminated</td>
<td>disseminates</td>
<td>disseminating</td>
<td>dissemination</td>
<td>dissent</td>
<td>dissented</td>
<td>dissenter</td>
<td>dissenters</td>
<td>dissentient</td>
<td>dissentients</td>
<td>dissenting</td>
<td>dissention</td>
<td>dissentions</td>
</tr>
</tbody>
</table>
distastes
distasting
distaves
distemper
distempers
distend
distended
distending
distends
distension
distensions
distent
distention
distentions
distich
distichs
distil
distill
distillate
distillates
distillation
distillations
distilled
distiller
distilleries
distillers
distillery
distilling
distills
distils
distinct
distincer
distinctest
distinction
distinctions
distinctive
distinctively
distinctiveness
distinctivenesses
distinctly
distinctness
distinctnesses
distinguish
distinguishable
distinguished
distinguishes
distinguishing
distome
ditties
ditto
dittoed
dittoing
dittos
ditty
diureses
diuresis
diuretic
diuretics
diurnal
diurnals
diuron
diurons
diva
divagate
divagated
divagates
divagating
divalent
divan
divans
divas
dive
dived
diver
diverge
diverged
divergence
divergences
divergent
diverges
diverging
divers
diverse
diversification
diversifications
diversify
diversion
diverisons
diversities
diversity
diver
diverted
diverter
diverters
diverting
diverts
dives
divest
divested
divesting
divests
divide
divided
dividend
dividends
divider
divers
divides
dividing
dividual
divination
divinations
divine
divined
divinely
diviner
diviners
divines
divinest
diving
divining
divinise
divinised
divinises
divinising
divinities
divinity
divinize
divinized
divinizes
divinizing
divisibilities
divisibility
divisible
division
divisional
divisions
divisive
divisor
divisors
divorce
divorced
divorcee
divorcees
divorcer
divorcers
divorces
divorcing
divot
divots
divulge
divulged
divulger
divulgars
divulges
divulging
divvied
divvies
divy
divvying
diwan
diwans
dixit
dixits
dizen
dizened
dizening
dizens
dizygous
dizzied
dizzier
dizzies
dizziest
dizzily
dizziness
dizzy
dizzying
djebel
djebels
djellaba
djellabas
djin
djinn
djinni
djinns
djinnys
djins
do
doable
doat
doated
doating
dogging
doggish
doggo
doggone
doggoned
doggoneder
doggonedest
doggoner
doggones
doggonest
dogging
dogrel
doggrels
doggy
doghouse
doghouses
dogie
dogies
dogleg
doglegged
doglegging
doglegs
doglike
dogma
dogmas
dogmata
dogmatic
dogmatism
dogmatisms
dognap
dognaped
dognaper
dognapers
dognaping
dognapped
dognapping
dognaps
dogs
dogsbodies
dogsbody
dogsled
dogsleds
dogteeth
dogtooth
dogtrot
dogrots
dogtrotted
dogtrotting
dogvane
dogvanes
dogwatch
dogwatches
dogwood
dogwoods
dogy
doiled
dolies
doily
doing
doings
doit
doited
doits
dojo
dojos
dol
dolce
dolci
doldrums
dole
doled
doleful
dolefuller
dolefullest
dolefully
dolerite
dolerites
doles
dolesome
doing
doll
dollar
dollars
dolled
dollied
dollies
dolling
dollish
dollop
dollops
dolls
dolly
dollying
dolman
dolmans
dolmen
donkeys
donna
donnas
donne
donned
donnee
donnees
donnerd
donnered
donnet
donning
donnish

 donor

 donors
dons
donie
donsy
donut
donuts
donzel
donzels
doodad
doodads
doodle
doodled

doodler

doodlers

doodles
doodling

doolee

doolees

doolie

doolies

dooly
don

 doomed
doomed

 doomful

 dooming

dooms
doomsday
doomsdays

doomster
doomsters
door
doorbell
doorbells

doorjamb
doorjambs
dorados
dorbug
dorbugs
dorhawk
dorhawks
dories
dorm
dormancies
dormancy
dormant
dormer
dormers
dormice
dormie
dormient
dormin
dormins
dormitories
dormitory
dormouse
dorms
dormy
dorneck
dornecks
dornick
dornicks
dornock
dornocks
dorp
dorper
dorpers
dorps
dorr
dors
dors
dorsa
dorsad
dorsal
dorsally
dorsals
dorser
dorsers
dorsum
dorty
dory
dos
dosage
dosages
dotterel
doterels
dotters
dottier
dottiest
dottily
dotting
dottle
dottles
dottrel
dottrels
dotty
doty
double
doublecross
doublecrossed
doublecrosses
doublecrossing
doubled
doubler
doublets
doubler
doubler
doubles
doublet
doublets
doubling
doubloon
doubloons
doublure
doublures
doubly
doctor
doubted
doubter
doubters
doubtful
doubtfully
doubting
doubtless
doubts
douche
doucely
douceur
douceurs
douche
douched
douches
douching
dough
doughboy
doughboys
doughier
doughiest
doughnut
doughnuts
doughs
dought
doughtier
doughtiest
doughty
doughy
douma
doumas
dour
doura
dourah
dourahs
douras
dourer
dourest
dourine
dourines
dourly
dourness
dournesses
douse
doused
douser
dousers
douses
dousing
douzeper
douzepers
dove
dovecot
dovecote
dovecotes
dovecots
dovekey
dovekeys
dovekie
dovekies
dovelike
doven
dovened
dovening
dovens
doves
dovetail
dovetailed
dovetailing
dovetails
dovish
dow
dowable
dowager
dowagers
dowdier
dowdies
dowdiest
dowdily
dowdy
dowdyish
dowed
dowel
doweled
doweling
dowelled
dowelling
dowels
dower
dowered
doweries
dowering
dowers
dowery
dowie
dowing
down
downbeat
downbeats
downcast
downcasts
downcome
downcomes
downed
downer
downers
downfall
downfallen
downfalls
downgrade
downgraded
downgrades
downgrading
downhaul
downhauls
downhearted
downhill
downhills
downier
downiest
downing
downplay
downplayed
downplaying
downplays
downpour
downpours
downright
downs
downstairs
downtime
downtimes
downtown
downtowns
downtrod
downtrodden
downturn
downturns
downward
downwards
downwind
downy
dowries
dowry
dows
dowsabel
dowsabels
dowse
dowsed
dowser
dowsers
dowses
dowsing
doxie
doxies
doxologies
doxology
doxorubicin
doxy
doyen
doyenne
dragooning
dragoons
dragrope
dragropes
drags
dragster
dragsters
drail
drails
drain
drainage
drainages
drained
drainer
drainers
draining
drainpipe
drainpipes
drains
drake
drakes
dram
drama
dramas
dramatic
dramatically
dramatist
dramatists
dramatization
dramatizations
dramatize
drammed
dramming
drammock
drammocks
drams
dramshop
dramshops
drank
drapable
drape
draped
draper
draperies
drapers
drapery
drapes
draping
dreggy
dregs
dreich
dreidel
dreidels
dreidl
dreidls
dreigh
drek
dreks
drench
drenched
drencher
drenchers
drenches
drenching
dress
dressage
dressages
dressed
dresser
dressers
dresses
dressier
dressiest
dressily
dressing
dressings
dressmaker
dressmakers
dressmaking
dressmakings
dressy
drest
drew
drib
dribbed
dribbing
dribble
dribbled
dribbler
dribblers
dribbles
dribblet
dribblets
dribbling
driblet
driblets
drongos
droning
dronish
drool
drooled
drooling
drools
droop
drooped
droopier
droopiest
droopily
drooping
droops
droopy
drop
drophead
dropheads
dropkick
dropkicks
droplet
droplets
dropout
dropouts
dropped
dropper
droppers
dropping
droppings
drops
dropshot
dropshots
dropsied
dropsies
dropsy
dropt
dropwort
dropworts
drosera
droseras
droshkies
droshky
droskies
drosky
dross
drosses
drossier
drossiest
drossy
drought
droughtier
droughtiest
droughts
droughty
drouk
drouked
drouking
drouks
drout
drouthier
drouthiest
drouths
drouthy
drove
droved
drover
drovers
droves
droging
drown
drownnd
drowneded
drowneding
drownnds
drowned
downer
downers
downing
downs
drowse
drowsed
drowses
drowsier
drowsiest
drowsily
drowing
drowsy
drub
dubbed
dubber
dubbers
dubbing
dubbings
drubs
drudge
drugged
drug
drugget
druggets
drugging
drug
drugged
druggets
drugging
druggist
druggists
drugs
drugstore
drugstores
druid
druidess
druidesses
druidic
druidism
druidisms
druids
drum
drumbeat
drumbeats
drumble
drumbled
drumbles
drumbling
drumfire
drumfires
drumfish
drumfishes
drumhead
drumheads
drumlier
drumliest
drumlike
drumlin
drumlins
drumly
drummed
drummer
drummers
drumming
drumroll
drumrolls
drums
drumstick
drumsticks
drunk
drunkard
drunkards
drunken
drunkenly
drunkenness
drunkennesses
drunker
drunkest
drunks
drupe
drupelet
drupelets
drupes
druse
druses
druthers
dry
dryable
dryad
dryades
dryadic
dryads
dryer
dryers
dryest
drying
drylot
drylots
dryly
drynness
drynnesses
drypoint
drypoints
drys
duad
duads
dual
dualism
dualisms
dualist
dualists
dualities
duality
dualize
duckpins
ducks
ducktail
ducktails
duckweed
duckweeds
ducky
ducs
duct
ducted
ductile
ductilities
ductility
ducting
ductings
ductless
ducts
ductule
ductules
dud
duddie
duddy
dude
dudeen
dudeens
dudes
dudgeon
dudgeons
dudish
dudishly
duds
due
duecento
duecentos
duel
dueled
dueler
duelers
dueling
duelist
duelists
duelled
dueller
duelers
duelli
duelling
duellist
duellists
dummied
dummies
dummkopf
dummkopfs
dummy
dummying
dump
dumpcart
dumpcarts
dumped
dumper
dumpers
dumpier
dumpiest
dumpily
dumping
dumpings
dumpish
dumpling
dumplings
dumps
dumpy
dun
dunce
dunces
dunch
dunches
duncical
duncish
dune
duneland
dunelands
dunelike
dunes
dung
dungaree
dungarees
dunged
dungeon
dungeons
dunghill
dunghills
dungier
dungiest
dunging
dungs
dungy
dunite
dwindling
dwine
dwined
dwines
dwining
dyable
dyad
dyadic
dyadics
dyads
dyarchic
dyarchies
dyarchy
dybbuk
dybbukim
dybbuks
dye
dyeable
dyed
dyeing
dyeings
dyer
dyers
dyes
dyestuff
dyestuffs
dyeweed
dyeweeds
dyewood
dyeweeds
dying
dyings
dyke
dyked
dyker
dykes
dyking
dynamic
dynamics
dynamism
dynamisms
dynamist
dynamists
dynamite
dynamited
dynamites
dynamiting
dynamo
dynamos
dynast
dynastic
dynasties
dynasts
dynasty
dynatron
dynatrons
dyne
dynes
dynode
dynodes
dysautonomia
dysenteries
dysentry
dysfunction
dysfunctions
dysgenic
dyslexia
dyslexias
dyslexic
dyspepsia
dyspepsias
dyspepsies
dyspepsy
dyspeptic
dysphagia
dyspnea
dyspneal
dyspneas
dyspneic
dyspnoea
dyspnoeas
dyspnoic
dystaxia
dystaxias
dystocia
dystocias
dystonia
dystonias
dystopia
dystopias
dystrophies
dystrophy
dysuria
dysurias
dysuric
dyvour
easy
easygoing
eat
eatable
eatables
eaten
eater
eateries
eaters
eaty
eath
eating
eatings
eats
eau
eaux
eave
eaved
eaves
eavesdrop
eavesdropped
eavesdropper
eavesdroppers
eavesdropping
eavesdrops
ebb
ebbed
ebbet
ebbets
ebbing
ebbbs
ebon
ebonies
ebonise
ebonised
ebonises
ebonising
ebonite
ebonites
ebonize
ebonized
ebonizes
ebonizing
ebons
ebony
ebullient
ecarte
ecartes
echoing
echoism
echoisms
echoless
eclaire
eclairs
eclat
eclats
eclectic
eclectics
eclipse
eclipsed
eclipses
eclipsing
eclipsis
eclipsises
ecliptic
ecliptics
ecligite
eclogites
ecllogue
eclogues
eclision
eclisions
ecole
ecoles
ecolic
ecolological
ecolologically
ecologies
ecologist
ecologists
ecoly
economics
economical
economically
economies
economist
economists
economize
economized
economizes
economizing
economy
ecotone
ecotones
ecotype
ectypes
ecotypic
ecraseur
ecraseurs
ecru
ecrus
ecstasies
ecstasy
ecstatic
ecstatically
ecstatics
ectases
ectasis
ectatic
ecthyma
ecthymata
ectoderm
ectoderms
ectomere
ectomeres
ectopia
ectopias
ectopic
ectosarc
ectosarcs
ectoza
ectozoan
ectozoans
ectozoon
ectypal
ectype
ectypes
ecu
ecumenic
ecus
eczema
eczemas
edacious
edacities
edacity
edaphic
edied
eddies
edo
eddoes
eddy
eddying
eerier
eeriest
eerily
eeriness
eerinesses
eery
ef
eff
effable
efface
effaced
effacement
effacements
effacer
effacers
effaces
effacing
effect
effecte
effector
effecters
effecting
effectful
effectually
effectual
effectualness
effectualnesses
effeminacies
effeminacy
effeminate
effendi
effendis
efferent
efferents
effervesce
effervesced
effervescence
effervescences
effervescent
effervescently
effervesces
effervescing
effete
ejective
ejectives
ejector
ejectors
ejects
eke
eked
ekes
eking
ekistic
ekistics
ektexine
ektexines
el
elaborate
elaborated
elaborately
elaborateness
elaboratenesses
elaborates
elaborating
elaboration
elaborations
elain
elains
elan
eland
elands
elans
elaphine
elapid
elapids
elapine
elapse
elapsed
elapses
elapsing
elastase
elastases
elastic
elasticities
elasticity
elastics
elastin
elastins
elate
elated
elatedly
eliciting
elicitor
elicitors
elicits
elide
elided
elides
elidable
eliding
eligibilities
eligibility
eligible
eligibles
eligibly
eliminate
eliminated
eliminates
eliminating
elimination
eliminations
elision
elisions
elite
elites
elitism
elitisms
elitist
elitists
elixir
elixirs
elk
elkhound
elkhounds
elks
ell
ellipse
ellipses
ellipsis
elliptic
elliptical
ells
elm
elmier
elmiest
elms
elmy
elocution
elocutions
emancipation
emancipations
emancipate
emancipated
emancipates
emancipating
emancipation
emancipations
emasculatation
emasculatations
emasculate
emasculated
emasculates
emasculating
embalm
embalmed
embalmer
embalmers
embalming
embalms
embank
embanked
embanking
embankment
embankments
embanks
embr
embargo
embargoed
embargoing
embargos
embark
embarkation
embarkations
embarked
embarking
embarks
embarrass
embarrassed
embarrasses
embarrassing
embarrassment
embarrassments
embraced
embracing
embraces
embassies
embassy
embattled
embattles
embattling
embay
embayed
embaying
embays
embed
embedded
embedding
embeds
embellish
embellished
embellishes
embellishing
embellishment
embellishments
ember
embers
embezzle
embezzled
embezzlement
embezzlements
embezzler
embezzlers
embezzles
embezzling
embetter
embittered
embittering
embitters
emblaze
emblazed
emblazer
emblazers
emblazes
emblazing
emblazon
emblazoned
emblazoning
emblazons
emblem
emblematic
emblemed
embleming
emblems
embodied
emendation
emendations
emended
emender
emenders
emending
emends
emerald
emeralds
emerge
emerged
emergence
emergences
emergencies
emergency
emergent
emergents
emerges
emerging
emeries
emerita
emeriti
emeritus
emerod
emerods
emeroid
emeroids
emersed
emersion
emersions
emony
emes
emeses
emesis
emetic
emetics
emetin
emetine
emetines
emetins
emeu
emeus
emeute
emeutes
emigrant
emigrants
emigrate
emigrated
emigrates
emigrating
emigration
emigrations
emigre
emigres
eminence
eminences
eminencies
emincency
eminent
eminently
emir
emirate
emirates
emirs
emissaries
emissary
emission
emissions
emissive
emit
emits
emitted
emitter
emitters
emitting
emer
emmers
emmet
emmetes
emodin
emodins
emolument
emoluments
emote
emoted
emoter
emoters
emotes
emoting
emotion
emotional
emotionally
emotions
emotive
empale
empaled
enamelled
enamelling
enamels
ename
enameine
enameines
enamor
enamored
enamoring
enamors
enamour
enamoured
enamouring
enamours
enate
enates
enatic
enation
enations
encaenia
encage
encaged
encages
encaging
encamp
encamped
encamping
encampment
encampments
encamps
encase
encased
encases
encash
encashed
encashes
encashing
encasing
enceinte
enceintes
encephalitides
encephalitis
enchain
enchaened
enchaining
enchained
enchains
enchant
enchanted
enchanter
enchanters
enchanting
enchantment
enchantments
enchantress
enchantresses
enchants
enche
enchased
encher
enchasers
enches
enching
enchoric
encina
encinal
encinas
encipher
enciphered
enciphering
enciphers
encircle
encircled
encircles
encircling
enclasp
enclasped
enclasping
enclasp
enclaves
enclitic
enclitics
enclose
enclosed
encloser
enclosers
encloses
enclosing
enclosure
enclosures
encode
encoded
encoder
encoders
encodes
encoding
encomia
encomium
encomiums
encompass
encompassed
encompasses
encompassing
encore
encoded
encores
encoring
encounter
encountered
encountering
encounters
encourage
encouraged
encouragement
encouragements
encourages
encouraging
encroach
encroached
encroaches
encroaching
encroachment
encroachments
encrust
encrusted
encrusting
encrusts
encrypt
encrypted
encrypting
encrypts
encumber
encumberance
encumberances
encumbered
encumbering
encumbers
encyclical
encychicals
encyclics
encyclopedia
encyclopedias
encyclopedic
encyst
encysted
encysting
encysts
end
endamage
endamaged
endamages
endamaging
endameba
endamebae
endamebas
endanger
endangered
endangering
endangers
endarch
endarchies
endarchy
endbrain
endbrains
endear
endeared
endearing
endearment
endearments
endears
endeavor
endeavored
endeavoring
endeavors
ended
endemial
endemic
endemics
endemism
endemisms
ender
endermic
enders
endexine
endexines
ending
endings
endite
endited
endites
enditing
endive
endives
endleaf
endleaves
endless
endlessly
endlong
endmost
endocarp
endocarps
endocrine
endoderm
endoderms
endogamies
endogamy
endogen
endogenies
endogens
endogeny
endopod
endopods
endorse
endorsed
endorsee
endorsees
endorsement
endorsements
endorser
endorsers
endorses
endorsing
endorser
endorsors
endosarc
endosarcs
endosmos
endosmoses
endosome
endosomes
endostea
endow
endowed
endower
endowers
endowing
endowment
endowments
endows
endozoic
enfranchised
enfranchisement
enfranchisements
enfranchises
enfranchising
eng
engage
engaged
engagement
engagements
engager
engagers
engages
engaging
engender
engendered
engendering
engenders
engild
engilded
engilding
engilds
engine
engined
engineer
engineered
engineering
engineerings
engineers
engineries
enginery
engines
engining
enginous
engird
engirded
engirding
engirdle
engirdled
engirdles
engirdling
engirds
engirt
english
englished
englishes
englishing
englut
engluts
englutted
englutting
engorge
engorged
engorges
engorging
engraft
engrafted
engrafting
engrafts
enrail
enrailed
enrailing
enrails
enrain
enfrained
enfraining
enfrains
engram
engramme
engrammes
engrams
engrave
engraved
engraver
engravers
engraves
engraving
engravings
engross
engrossed
engrosses
engrossing
engs
engulf
engulfed
engulfing
engulfs
enhalo
enhaloed
enhaloes
enhaloing
enhance
enhanced
enhancement
enhancements
enhancer
enlightenments
enlightens
enlist
enlisted
enlistee
enlistees
enlister
enlisters
enlisting
enlistment
enlistments
enlists
enliven
enlivened
enlivening
enlivens
enmesh
enmeshed
enmeshes
enmeshing
enmities
enmity
ennead
enneadic
enneads
enneagon
enneagons
ennoble
ennobled
ennobler
ennoblers
ennobles
ennobling
ennui
ennuis
ennuye
ennuyee
enol
enolase
enolases
enolic
enologies
enology
enols
enorm
enormities
enormity
enormous
ensilage
ensilaged
ensilages
ensilaging
ensile
ensiled
ensiles
ensiling
enskied
enskies
ensky
enskyed
enskying
enslave
enslaved
enslavement
enslavements
enslaver
enslavers
enslaves
enslavings
ensnare
ensnared
ensnarer
ensnarers
ensnares
ensnarings
ensnarls
ensnarled
ensnarling
ensnarls
ensorcel
ensorceled
ensorcecling
ensorcels
ensoul
ensouled
ensouling
ensouls
ensphere
ensphered
enspheres
ensophering
ensue
ensued
ensues
ensuing
ensure
ensured
ensurer
ensurers
ensures
ensuring
enswathe
enswathed
enswathes
enswathing
entail
entailed
entailer
entailers
entailing
entails
entameba
entamebae
entamebas
entangle
entangled
entanglement
entanglements
entangles
entangling
entases
entasia
entasias
entasis
entastic
entellus
entelluses
entente
ententes
enter
entera
enteral
entered
enterer
enterers
enteric
entering
enteron
enterons
enterprise
enterprises
enters
entertain
entertained
entoderm
entoderms
entoil
entooled
entoloing
entoils
entomb
entombed
entombing
entombs
entomological
entomologies
entomologist
entomologists
entomology
entopic
entourage
entourages
entozoa
entozoal
entozoan
entozoans
entozoic
entozoon
entrails
entrain
entrained
entraining
entrains
entrance
entranced
entrances
entrancing
entrant
entrants
entrap
entrapment
entrapments
entrapped
entraping
entraps
entreat
entreated
entreaties
entreating
entreats
entreaty
entree
entrees
entrench
entrenched
entrenches
entrenching
entrenchment
entrenchments
entrepot
entrepots
entrepreneur
entrepreneurs
entresol
entresols
entries
entropies
entropy
entrust
entrusted
entrusting
entrusts
entry
entryway
entryways
entwine
entwined
entwines
entwining
entwist
entwisted
entwisting
entwists
enumerate
enumerated
enumerates
enumerating
enumeration
enumerations
enunciate
enunciated
enunciates
enunciating
enunciation
enunciations
enure
enured
enures
enuresis
enuresises
enuretic
enuring
envelop
envelope
enveloped
envelopes
enveloping
envelopment
envelopments
envelops
envenom
envenomed
envenoming
envenoms
enviable
enviably
envied
envier
enviers
envies
envious
environ
environed
environing
environment
environmental
environmentalist
environmentalists
environments
environ
envisage
envisaged
envisages
envisaging
envision
envisioned
envisioning
envisions
envoi
envois
envoy
envoys
envy
envying
enwheel
enwheeled
enwheeling
enwheels
epaulets
epee
epeest
epees
epeic
epergne
epergnes
epha
ephah
ephahs
epeas
ephbe
ephbes
ephbi
ephbic
epheboi
ephbos
ephebus
ephedra
ephedras
ephedrin
ephedrins
ephemera
ephemerae
ephemeras
ephod
ephods
ephor
ephoral
ephorate
ephorates
ephori
ephors
epiblast
epiblasts
epibolic
epibolies
epiboly
epic
epical
epically
epicalyces
epicalyx
epicalyxes
epicarp
epicarps
epicedia
epileptic
epileptics
epiolog
epiologs
epilogue
epiologued
epiologues
epiologuing
epimer
epimere
epimeres
epimeric
epimers
epimysia
epinaoi
epinaos
epinasties
epinasty
ephelanes
epifany
epiphany
epiphyte
epiphytes
episcia
episcias
episcopal
episcopes
episode
episodes
episodic
episomal
episome
episomes
epistases
epistasy
epistaxis
epistle
epistler
epistlers
epistles
epistyle
epistyles
epitaph
epitaphs
epitases
epitaxis
epitaxy
estops
estovers
estragon
estragons
estral
estrange
estranged
estrangement
estrangements
estranges
estranging
estray
estrayed
estraying
estrayes
estreat
estreated
estreating
estreats
estrin
estrins
estriol
estriols
estrogen
estrogens
estrone
estrones
estrous
estrual
estrum
estrumes
estrus
estruses
estuaries
estuary
esurient
et
eta
etagere
etageres
etamin
etamine
etamines
etamins
etape
etapes
etas
etatism
etatisms
etatist
etatists
etcetera
etceteras
etch
etched
etcher
etchers
etches
etching
etchings
eternal
eternally
eternals
eternize
eternized
eternizes
eternizing
etesian
etesians
eth
ethane
ethanes
ethanol
ethanols
ethene
ethenes
ether
etheral
etheric
etherified
etherifies
etherify
etherifying
etherish
etherize
etherized
etherizes
etherizing
ethers
 ethic
 ethical
 ethically
 ethicals
 ethician
 ethicians
 ethicist
 ethicists
 ethicize
 ethicized
 ethicizes
 ethicizing
 ethics
 ethinyl
 ethinyls
 ethion
 ethions
 ethmoid
 ethmoids
 ethnarch
 ethnarchs
 ethnic
 ethnical
 ethnicities
 ethnicity
 ethnics
 ethnologic
 ethnological
 ethnologies
 ethnology
 ethnos
 ethnoses
 ethnologies
 ethology
 ethos
 ethoses
 ethoxy
 ethoxyl
 ethoxyls
 eths
 ethyl
 ethylate
 ethylated
 ethylates
 ethylating
 ethylene
 ethylenes
 ethylic
euphonic
euphonies
euphonious
euphony
euphoria
euphorias
euphoric
euphotic
euphrasies
euphrasy
euphroe
euphroes
euphuism
euphuisms
euphuist
euphuists
euploid
euploidies
euploids
euploidy
eupnea
eupneas
eupneic
eupnoea
eupnoeas
eupnoeic
eureka
euripi
euripus
euro
europium
europiums
euros
eurythmies
eurythmy
eustacies
eustacy
eustatic
eustele
eusteles
eutaxies
eutaxy
eutectic
eutectics
euthanasia
euthanasias
eutrophies
eutrophy
euxenite
euxenites
evacuant
evacuants
evacuate
evacuated
evacuates
evacuating
evacuation
evacuations
evacuee
evacuees
evadable
 evade
 evaded
 evader
 evaders
 evades
 evadible
 evading
 evaluable
 evaluate
 evaluated
 evaluates
 evaluating
 evaluation
 evaluations
 evaluator
 evaluators
 evanesce
 evanesced
 evanesces
 evanescing
 evangel
 evangelical
 evangelism
 evangelisms
 evangelist
 evangelistic
 evangelists
 evangels
 evanish
 evanished
 evanishes
 evanishing
 evaporate
 evaporates
excusers
excuses
excusing
exeat
exec
execrate
execrated
execrates
execrating
execs
executable
execute
executed
executer
executers
executes
executing
execution
executioner
executioners
executions
executive
executives
executor
executors
executrix
executrixes
exedra
exedrae
exegeses
exegesis
exegete
exegetes
exegetic
exempla
exemplar
exemplars
exemplary
exemplification
exemplifications
exemplified
exemplifies
exemplify
exemplifying
exemplum
exempt
exempted
exempting
exhilarate
exhilarated
exhilarates
exhilarating
exhilaration
exhilarations
exhort
exhortation
exhortations
exhorted
exhorter
exhorters
exhorting
exhorts
exhumation
exhumations
exhume
exhumed
exhumer
exhumers
exhumes
exhuming
exigence
exigences
exigencies
exigency
exigent
exigible
exiguities
exiguity
exiguous
exile
exiled
exiles
exilian
exilic
exiling
eximious
exine
exines
exist
existed
existence
existences
existent
existents
existing
exists
exit
exited
exiting
exits
exocarp
exocarps
exocrine
exoclines
exoderm
exoderms
exodoi
exodos
exodus
exoduses
exoergic
exogamic
exogamies
exogamy
exogen
exogens
exonerase
exonerated
exoneration
exonerating
exoneration
exonerations
exorable
exorbitant
exorcise
exorcised
exorcises
exorcising
exorcism
exorcisms
exorcist
exorcists
exorcize
exorcized
exorcizes
exorcizing
exordia
exordial
exordium
exordiums
exosmic
exosmose
exosmose
exospore
exospores
exoteric
exotic
exotica
exotically
exoticism
exoticisms
exotics
exotism
exotisms
exotoxic
exotoxin
exotoxins
expand
expanded
expander
expanders
expanding
expands
expanses
expansion
expansions
expansive
expansively
expansiveness
expansivenesses
expatriate
expatriated
expatriates
expatriating
expect
expectancies
expectancy
expectant
expectantly
expectation
expectations
expected
expecting
expects
expedient
expedients
expedious
expedite
expedited
expediter
expediters
expiable
expiate
expiated
expiates
expiating
expiation
expiations
expiator
expiators
expiration
expiration
expire
expired
expirer
expirers
expires
expiries
expiring
expiry
explain
explainable
explained
explaining
explains
explanation
explanations
explanatory
explant
explanted
explanting
explants
expletive
expletives
explicable
explicably
explicit
explicitly
explicitness
explicitnesses
explicits
explode
exploded
exploder
exploders
explodes
exploding
exploit
exploitation
expound
expounded
expounding
expounds
express
expressed
expresses
expressible
expressibly
expressing
expression
expressionless
expressions
expressive
expressiveness
expressivenesses
expressly
expressway
expressways
expulse
expulsed
expulses
expulsing
expulsion
expulsions
expunge
expunged
expunger
expungers
expunges
expunging
expurgate
expurgated
expurgates
expurgating
expurgation
expurgations
exquisite
exscind
exscinded
exscinding
exscinds
exsecant
exsecants
exsect
exsected
exsecting
exsects
exert
exerted
exerting
exerts
extant
extemporaneous
extemporaneously
extend
extendable
extended
extender
extenders
extendible
extending
extends
extension
extensions
extensive
extensively
extensor
extensors
extent
extents
extenuate
extenuated
extenuates
extenuating
extenuation
extenuations
exterior
exteriors
exterminate
exterminated
exterminates
exterminating
extermination
exterminations
exterminator
exterminators
extern
external
externally
externals
externe
externes
externs
extinct
extincted
exuviae
exuvial
exuviate
exuviated
exuviates
exuviating
exuvium
eyas
eyases
eye
eyeable
eyeball
eyeballed
eyeballing
eyeballs
eyebeam
eyebeams
eyebolt
eyebolts
eyebrow
eyebrows
eyecup
eyecups
eyed
eyedness
eyednesses
eyedropper
eyedroppers
eyeful
eyefuls
eyeglass
eyeglasses
eyehole
eyeholes
eyehook
eyehooks
eyeing
eyelash
eyelashes
eyeless
eyelet
eyelets
eyeletted
eyeletting
eyelid
eyelids
eyelike
eyeliner
fabler
fablers
fables
fabliau
fabliaux
fabling
fabric
fabricate
fabricated
fabricates
fabricating
fabrication
fabrications
fabrics
fabular
fabulist
fabulists
fabulous
fabulously
facade
facades
face
faceable
faced
facedown
faceless
facelessness
facelessnesses
facer
facers
faces
facesheet
facesheets
facet
facete
faceted
facetely
facetiae
faceting
facetious
facetiously
facets
facetted
facetting
faceup
facia
facial
facially
faddier
faddiest
faddish
faddism
faddisms
faddist
faddists
faddy
fade
fadeaway
fadeaways
faded
fadedly
fadeless
fader
faders
fades
fade
fadged
fadges
fadging
fading
fadings
fado
fados
fads
faecal
faeces
faena
faenas
faerie
faeries
faery
fag
fagged
fagging
faggot
faggoted
faggoting
faggots
fagin
fagins
fagot
fagoted
fagoter
fagoters
fagoting
fagotings
fagots
gags
fahlband
fahlbands
fahrenheit
faience
faiences
fail
failed
failing
failings
faille
failles
fails
failure
failures
fain
faineant
faineants
fainer
fainest
faint
fainted
fainter
fainters
faintest
fainthearted
fainting
faintish
faintly
faintness
faintnesses
faints
fair
faired
fairer
fairest
fairground
fairgrounds
fairies
fairing
fairings
fairish
fairlead
fairleads
fairly
fairness
fairesses
fairs
fairway
fairways
fairy
fairyism
fairyisms
fairyland
fairylands
faith
faithed
faithful
faithfully
faithfulness
faithfulnesses
faithfuls
faithing
faithless
faithlessly
faithlessness
faithlessnesses
faiths
faitour
faitours
fake
faked
fakeer
fakeers
faker
fakeries
fakers
fakery
fakes
faking
fakir
fakirs
falbala
falbalas
falcate
falcated
falchion
falchions
falcon
falconer
falconers
falconet
falconets
falconries
falconry
fanciest
fanciful
fancifully
fancily
fancy
fancying
fandango
fandangos
fandom
fandoms
fane
fanega
fanegada
fanegadas
fanegas
fanes
fanfare
fanfares
fanfaron
fanfaron
fanfaron
fanfold
fanfolds
fang
fanga
fangas
fanged
fangless
fanglike
fangs
fanion
fanions
fanjet
fanjets
fanlight
fanlights
fanlike
fanned
fanner
fannies
fanning
fanny
fano
fanon
fanons
fanos
fans
fantail
fantails
fasting
fastings
fastness
fastnesses
fants
fastuous
fat
fatal
fatalism
fatalisms
fatalist
fatalistic
fatalists
fatalities
fatality
fatally
fatback
fatbacks
fatbird
fatbirds
fate
fated
fateful
fathead
fatheads
father
fathered
fatherhood
fatherhoods
fathering
fatherland
fatherlands
fatherless
fatherly
fathers
fathom
fathomable
fathomed
fathoming
fathomless
fathoms
fatidic
fatigue
fatigued
fatigues
fatiguing
fating
fatless
fatlike
fatling
fatlings
fatly
fatness
fatnesses
fats
fatso
fatsoes
fatsos
fatstock
fatstocks
fatted
fatten
fattened
fattener
fatteners
fattening
fattens
fatter
fattest
fattier
fatties
fattiest
fattily
fatting
fattish
fatty
fatilities
fatuity
fatuity
fatuious
fatuously
fatuousness
fatuousnesses
faubourg
faubourgs
faucal
faucals
fauces
faucet
faucets
faucial
faugh
fauld
faulds
fault
faulted
faultfinder
faultfinders
faultfinding
faultfindings
faultier
faultiest
faultily
faulting
faultless
faultlessly
faults
faulty
faun
fauna
faunae
faunal
faunally
faunas
faunlike
fauns
fauteuil
fauteuils
fauve
fauves
fauvism
fauvisms
fauvist
fauvists
favela
favelas
favonian
favor
favorable
favorably
favored
favorer
favorers
favoring
favorite
favorites
favoritism
favoritisms
favors
favour
favoured
favourer
favourers
favouring
favours
favus
favuses
fawn
fawned
fawner
fawners
fawnier
fawniest
fawning
fawnlike
fawns
fawny
fax
faxed
faxes
faxing
fay
fayalite
fayalites
fayed
faying
fays
faze
fazed
fazenda
fazendas
fazes
fazing
feal
fealties
fealty
fear
feared
fearer
fearers
fearful
fearfuller
fearfullest
fearfully
fearing
fearless
fearlessly
fearlessness
fearlessnesses
fears
fearsome
feasance
feasances
fease
feased
feases
feasibilities
feasibility
feasible
feasibly
feasing
feast
feasted
feaster
feasters
feastful
feasting
feasts
feat
feater
featest
feather
feathered
featherier
featheriest
feathering
featherless
feathers
feathery
featlier
featiest
featly
feats
feature
featured
featureless
features
featuring
feaze
feazed
feazes
feazing
febrific
febrile
fecal
feces
fecial
fecials
feck
feckless
feckly
fecks
fecula
feculae
feculent
fecund
fecundities
fecundity
fed
fedayee
fedayeen
federacies
federacy
federal
federalism
federalisms
federalist
federalists
federally
federals
federate
federated
federates
federating
federation
federations
fedora
fedoras
feds
fee
feeble
feebleminded
feeblemindedness
feeblemindednesses
feebleness
feeblenesses
feeblener
feeblest
feeblish
feebly
feed
feedable
feedback
feedbacks
feedbag
feedbags
feedbox
feedboxes
feeder
feeders
feeding
feedlot
feedlots
feeds
feeling
feel
feeler
feelers
feelless
feelings
feels
fees
feet
feetless
feeze
feezed
feezes
feezing
feign
feigned
feigner
feigners
feigning
feigns
feint
feinted
feinting
feints
feirie
feist
feistier
feistiest
feists
feisty
feldspar
feldspars
felicitate
felicitated
felicitates
felicitating
felicitation
felicitations
felicities
felicitous
felsites
felsitic
felspar
felspars
felstone
felstones
felt
feltered
felting
feltings
felts
felucca
feluccas
felwort
felworts
female
females
feme
fames
feminacies
feminacy
feminie
feminine
feminines
femininities
femininity
feminise
feminised
feminises
feminising
feminism
feminisms
feminist
feminists
feminities
feminity
feminization
feminizations
feminize
feminized
feminizes
feminizing
femme
femmes
femora
femoral
femur
femurs
ferbams
fere
feres
feretories
feretory
feria
feriae
ferial
ferias
ferine
ferities
ferity
ferlie
ferlies
ferly
fermata
fermatas
fermate
ferment
fermentation
fermentations
fermented
fermenting
ferments
fermi
fermion
fermions
fermis
fermium
fermiums
ferm
ferneries
femery
femier
femiest
femless
femlike
fems
femy
ferocious
ferociously
ferociousness
ferociousnesses
ferocities
ferocity
ferrate
ferrates
ferrel
ferulae
ferulas
ferule
feruled
ferules
feruling
fervencies
fervency
fervent
fervently
fervid
fervidly
fervor
fervors
fervour
fervours
fescue
fescues
fess
fesse
fessed
fesses
fessing
fesswise
festal
festally
fester
festered
festered
festering
festers
festival
festivals
festeve
festively
festivities
festivity
festoon
festooned
festooning
festoons
fet
feta
fetal
fetas
fetation
fetations
fetch
fetched
fetcher
fetchers
fetches
fetching
fetchingly
fete
feted
feterita
feteritas
fetes
fetial
fetales
fetialis
fetials
fetich
fetiches
feticide
feticides
fetid
fetidly
feting
fetish
fetishes
fetlock
fetlocks
fetologies
fetology
fetor
fetors
fets
fetted
fetter
fettered
fetterer
fetterers
fettering
fetters
fetting
fettle
fettle
fettle
fettings
fettlings
fetus
fetuses
feu
feuar
feuars
feud
feudal
feudalism
feudalistic
feudally
feudaries
feudary
feuded
feuding
feudist
feudists
feuds
feued
feuing
feus
fever
fevered
feverfew
feverfews
fevering
feverish
feverous
fevers
few
fewer
fewest
fewness
fewnesses
fewtrils
fey
feyer
feyst
feyness
feynesses
fez
fezes
fezzed
fezzes
fiacre
fiacres
fiance
fiancée
fiancées
fiances
fiar
fiars
fiaschi
fiasco
fiascoes
fiascos
fiat
fiats
fib
fibbed
fibber
fibbers
fibbing
fiber
fiberboard
fiberboards
fibered
fiberglass
fiberglasses
fiberize
fiberized
fiberizes
fiberizing
fibers
fibre
fibres
fibril
fibrilla
fibrillae
fibrillate
fibrillated
fibrillates
fibrillating
fibrillation
fibrillations
fibrils
fibrin
fibrins
fibrocystic
fibroid
fibroids
fibroin
fibroins
fibroma
fibromas
fibromata
fibroses
fibrosis
fibrotic
fibrous
fibs
fibula
fingerlings
fingermail
g fingerprint
fingerprints
fingers
fingertip
fingertips
finial
finialed
finials
finical
finickier
finickiest
finickin
finicky
finikin
finiking
fining
finings
finis
finises
finish
finished
finisher
finishers
finishes
finishing
finite
finitely
finites
finitude
finitudes
fink
finked
finking
finks
finky
finless
finlike
finmark
finmarks
finned
finnickier
finnickiest
finnicky
finnier
finniest
finning
firefly
firehall
firehalls
fireless
firelock
firelocks
fireman
firemen
firepan
firepans
firepink
firepinks
fireplace
fireplaces
fireplug
fireplugs
fireproof
fireproofed
fireproofing
fireproofs
firer
fireroom
firerooms
firers
fires
fireside
firesides
firetrap
firetraps
fireweed
fireweeds
firewood
firewoods
firework
fireworks
fireworm
fireworms
firing
firings
firkin
firkins
firm
firmament
firmaments
firman
firmans
firmed
firmer
fishless
fishlike
fishline
fishlines
fishmeal
fishmeals
fishnet
fishnets
fishpole
fishpoles
fishpond
fishponds
fishtail
fishtailed
fishtailing
fishtails
fishway
fishways
fishwife
fishwives
fishy
fissate
fissile
fission
fissionable
fissional
fissioned
fissioning
fissions
fissiped
fissipeds
fissure
fissured
fissures
fissuring
fist
fisted
fistful
fistfuls
fistic
fisticuffs
fisting
fistnote
fistnotes
fists
fistula
fistulae
fistular
fixer
fixers
fixes
fixing
fixings
fixities
fixity
fixt
fixture
fixtures
fixure
fixures
fiz
fizgig
fizgigs
fizz
fizzed
fizzer
fizzers
fizzes
fizzier
fizziest
fizzing
fizzle
fizzled
fizzes
fizzling
fizzy
fjeld
fjelds
fjord
fjords
flab
flabbergast
flabbergasted
flabbergasting
flabbergasts
flabbier
flabbiest
flabbily
flabbiness
flabbinesses
flabby
flabella
flabs
flaccid
flack
flacks
flakily
flaking
flaky
flam
flambe
flambeau
flambeaus
flambeaux
flambee
flambeed
flambeing
flambes
flamboyance
flamboyances
flamboyant
flamboyantly
flame
flamed
flamen
flamenco
flamencos
flamens
flameout
flameouts
flamer
flamers
flames
flamier
flamiest
flamines
flaming
flamingo
flamingoes
flamingos
flammable
flammed
flamming
flams
flamy
flan
flancard
flancards
flanerie
flaneries
flanes
flaneur
flaneurs
flange
flashlight
flashlights
flashy
flask
flasket
flasks
flat
flatbed
flatbeds
flatboat
flatboats
flatcap
flatcaps
flatcar
flatcars
flatfeet
flatfish
flatfishes
flatfoot
flatfooted
flatfooting
flatfoots
flatheads
flatiron
flatirons
flatland
flatlands
flatlet
flatlets
flatling
flatly
flatness
flatnesses
flats
flatted
flatten
flattened
flattening
flattens
flatter
flattered
flatterer
flatteries
flattering
flatters
flattery
flattest
flatting
flattish
flattop
flattops
flatulence
flatulences
flatulent
flatus
flatuses
flatware
flatwares
flatwash
flatwashes
flatways
flatwise
flatwork
flatworks
flatworm
flatworms
flaunt
flaunted
flaunter
flaunters
flauntier
flauntiest
flaunting
flaunts
flaunty
flautist
flautists
flavin
flavine
flavines
flavins
flavone
flavones
flavonol
flavonols
flavor
flavored
flavorer
flavorers
flavorful
flavoring
flavorings
flavors
flavorsome
flavory
flavour
flavoured
flavouring
flavours
flavoury
flaw
flawed
flawier
flawiest
flawing
flawless
flaws
flawy
flax
flaxen
flaxes
flaxier
flaxiest
flaxseed
flaxseeds
flaxy
flay
flayed
flayer
flayers
flaying
flays
flea
fleabag
fleabags
fleabane
fleabanes
fleabite
fleabites
fleam
fleams
fleas
fleawort
fleaworts
fleche
fleches
fleck
flecked
flecking
flecks
flecky
flection
flections  
fled  
fledge  
fledged  
fledges  
fledgier  
fledgiest  
fledging  
fledgling  
fledglings  
flegy  
flee  
fleece  
fleeced  
fleecer  
fleecers  
fleeces  
fleech  
fleeched  
fleeches  
fleeching  
fleecier  
fleeciest  
fleecily  
fleecing  
fleecy  
fleecing  
fleer  
fleered  
fleering  
fleers  
flees  
fleet  
fleeted  
fleeter  
fleetest  
fleetling  
fleetness  
fleetnesses  
fleets  
fleishig  
flemish  
flemished  
flemishes  
flemishing  
flench  
flenched  
flenches
flenching
flense
flensed
flenser
flensers
flenses
flensing
flesh
fleshed
flesher
fleshers
fleshes
fleshier
fleshiest
fleshing
fleshings
fleshier
fleshliest
fleshly
fleshpot
fleshpots
fleshy
fletch
fletched
fletcher
fletchers
fletches
fletching
fleury
flew
flewts
flex
flexed
flexes
flexibilities
flexibility
flexible
flexibly
flexile
flexing
flexion
flexions
flexor
flexors
flexuose
flexuous
flexural
flexure
flongs
flood
flooded
flooder
flooders
flooding
floodlit
floods
floodwater
floodwaters
floodway
floodways
flo OECD
floor
floorage
floorages
floorboard
floorboards
floored
floorer
floorers
flooring
floorings
floors
floosies
floosy
floozie
floozies
floozy
flop
flopover
flopovers
flopped
flopper
floppers
floppier
floppiest
floppily
flopping
floppy
flops
flora
flora e
floral
florally
floras
florence
florences
flummeries
flummery
flummox
flummoxed
flummoxes
flummoxing
flump
flumped
flumping
flumps
flung
flunk
flunked
flunker
flunkers
flunkey
flunkeys
flunkies
flunking
flunks
flunky
fluor
fluorene
fluorenes
fluoresce
fluoresced
fluorescence
fluorescences
fluorescent
fluoresces
fluorescing
fluoric
fluorid
fluoridate
fluoridated
fluoridates
fluoridating
fluoridation
fluoridations
fluoride
fluorides
fluorids
fluorin
fluorine
fluorines
fluorins
fluorite
fluorites
fluorocarbon
fluorocarbons
fluoroscope
fluoroscopes
fluoroscopic
fluoroscopies
fluoroscopist
fluoroscopists
fluoroscopy
fluors
flurried
flurries
flurry
flurrying
flus
flush
flushed
flusher
flushers
flushes
flushest
flushing
fluster
flustered
flusterer
flusters
flute
fluted
fluter
fluters
flutes
flutier
flutiest
fluting
flutings
flutist
flutists
flutter
fluttered
fluttering
flutterer
fluttering
flutterer
fluvial
flux
fluxed
fluxes
fluxing
foil
foilable
foiled
foiling
foils
foilsman
foilsmen
foin
foined
foining
foins
foison
foisons
foist
foisted
foisting
foists
folacin
folacins
folate
folates
fold
foldable
foldaway
foldboat
foldboats
folded
folder
folderol
folderols
folders
folding
foldout
foldouts
folds
folia
foliage
foliaged
foliages
foliar
foliate
foliated
foliates
foliating
folic
folio
folioed
folioing
forecasters
forecasting
forecastle
forecastles
forecasts
foreclose
foreclosed
forecloses
foreclosing
foreclosure
foreclosures
foredate
foredated
foredates
foredating
foredeck
foredecks
foredid
foredo
foredoes
foredoing
foredone
foredoom
foredoomed
foredooming
foredooms
foreface
forefaces
forefather
forefathers
forefeel
forefeeling
forefeels
forefeet
forefelt
forefend
forefended
forefending
forefends
forefinger
forefingers
forefoot
forefront
forefronts
foregather
foregathered
foregathering
foregathers
forensic
forensics
foreordain
foreordained
foreordaining
foreordains
forepart
foreparts
forepast
forepaw
forepaws
forepeak
forepeaks
foreplay
foreplays
forequarter
forequarters
foreran
forerank
foreranks
forerun
forerunner
forerunners
forerunning
foreruns
fores
foresaid
foresail
foresails
foresaw
foresee
foreseeable
foreseeing
foreseen
foreseer
foreseers
foresees
foreshadow
foreshadowed
foreshadowing
foreshadows
foreshow
foreshowed
foreshowing
foreshown
foreshows
foreside
foresides
formals
formant
formants
format
formate
formates
formation
formations
formative
formats
formatted
formatting
forme
formed
formeé
former
formerly
formers
formes
formful
formic
formidable
formidably
forming
formless
formol
formols
forms
formula
formulae
formulas
formulate
formulated
formulates
formulating
formulation
formulations
formyl
formyls
fornical
fornicate
fornicated
fornicates
fornicating
fornication
fornicator
fornicators
fornices
fornix
forrader
forrit
forsake
forsaken
forsaker
forsakers
forsakes
forsaking
forsook
forsooth
forspent
forswear
forswearing
forswears
forswore
forsworn
forsythia
forsythias
fort
forte
fortes
forth
forthcoming
forthright
forthrightness
forthrightnesses
forthwith
forties
fortieth
fortieths
fortification
fortifications
fortified
fortifies
fortify
fortifying
fortis
fortitude
fortitudes
fornight
fornightly
fornights
fortress
fortressed
fortresses
fortressing
forts
fourteens
fourteenth
fourteenths
fourth
fourthly
fourths
fovea
foveae
foveal
foveate
foveated
foveola
foveolae
fovealar
foveolas
foveole
foveoles
foveolet
foveolets
fowl
fowled
fowler
fowlers
fowling
fowlings
fowlpox
fowlpoxes
fowls
fox
foxed
foxes
foxfire
foxfires
foxfish
foxfishes
foxglove
foxgloves
foxhole
foxholes
foxhound
foxhounds
foxier
foxiest
foxily
foxiness
foxinesses
foxing
foxings
frankincense
frankincenses
franking
franklin
franklins
frankly
frankness
franknesses
franks
frantic
frantically
frantically
frap
frappe
frapped
frappes
frapping
fraps
frat
frater
fraternal
fraternally
fraternities
fraternity
fraternization
fraternizations
fraternize
fraternized
fraternizes
fraternizing
fraters
fratricidal
fratricide
fratricides
frats
fraud
frauds
fraudulent
fraudulently
fraught
fraughted
fraughting
fraughts
fraulein
frauleins
fray
frayed
fraying
frayings
frays
frazzle
frazzled
frazzles
frazzling
freak
freaked
freakier
freakiest
freakily
freaking
freakish
freakout
freakouts
freaks
freaky
freckle
freckled
freckles
frecklier
freckliest
freckling
freckly
free
freebee
freebees
freebie
freebies
freeboot
freebooted
freebooter
freebooters
freebooting
freeboots
freeborn
freed
freedman
freedmen
freedom
freedoms
freeform
freehand
freehold
freeholds
freeing
freeloading
freelading
frenzy
frenzying
frequencies
frequency
frequent
frequented
frequenter
frequenters
frequentest
frequenting
frequently
frequents
freer
frees
fresco
frescoed
frescoer
frescoers
frescoes
frescoing
frescos
fresh
freshed
freshen
freshened
freshening
freshens
freshener
freshes
freshest
freshet
freshets
freshing
freshly
freshman
freshmen
freshness
freshnesses
freshwater
fresnel
fresnels
fret
fretful
fretfully
fretfulness
fretfulnesses
fretless
frets
frieze
friezes
frig
frigate
frigates
frigged
frigging
fright
frighted
frighten
frightened
frightening
frightens
rightful
rightfully
frightfulness
frightfulnesses
frighting
frights
frigid
frigidities
frigidity
frigidly
frigs
frijol
frijole
frijoles
frill
frilled
friller
frillers
frillier
frilliest
frilling
frillings
frills
frilly
fringe
fringed
fringes
fringier
fringiest
fringing
fringy
fripperies
frippery
frise
frises
frisette
frisettes
friseur
friseurs
frisk
frisked
frisker
friskers
frisket
friskets
friskier
friskiest
friskily
friskiness
friskinesses
frisking
frisks
frisky
frisson
frissons
frit
frith
friths
frits
fritt
fitted
fritter
frittered
frittering
fritters
fritting
fritts
frivol
frivoled
frivoler
frivolers
frivoling
frivolities
frivolity
frivolled
frivolling
frivolous
frivolously
frivols
friz
frized
frizer
frizers
frolicky
frolics
frolicsome
from
fromage
fromages
fromenties
fromenty
frond
froned
frondeur
frondeurs
frondose
fronds
frons
front
frontage
frontages
frontal
frontals
fronted
froner
frontes
frontier
frontiers
frontiersman
frontiersmen
fronting
frontispiece
frontispieces
frontlet
frontlets
fronton
frontons
fronts
fore
frosh
frost
frostbit
frostbite
frostbites
frostbitten
frosted
frosteds
frostier
frostiest
frostily
frosting
furfures
furibund
furies
furioso
furious
furiously
furl
furlable
furled
furler
furlers
furless
furling
furlong
furlongs
furlough
furloughed
furloughing
furloughs
furls
furmenties
furmenty
furmetics
furmetry
furmites
furmitie
furmities
furmity
furnace
furnaced
furnaces
furnacing
furnish
furnished
furnishes
furnishing
furnishings
furniture
furnitures
furor
furore
furores
furors
furred
furrier
furrieries
furriers
furriery
furriest
furrily
fusil
fusile
fusileer
fusileers
fusilier
fusiliers
fusillade
fusillades
fusils
fusing
fusion
fusions
fuss
fussbudget
fussbudgets
fussed
fusser
fussers
fusses
fussier
fussiest
fussily
fussiness
fussinesses
fussing
fusspot
fusspots
fussy
fustian
fustians
fustic
fustics
fustier
fustiest
fustily
fusty
futharc
futharcs
futhark
futharks
futhorc
futhorcs
futhork
futhorks
futile
futilely
futilities
futility
gadid
gadids
gadis
gadoid
gadoids
gadroon
gadroons
gads
gadwall
gadwalls
gadzooks
gae
gaed
gagen
gaes
gaff
gaffle
gaffed
gaffer
gaffers
gaffes
gaffing
gaffs
gag
gaga
gage
gaged
gager
gagers
gages
gagged
gagger
gaggers
gagging
gaggle
gaggled
gaggles
gaggling
gaging
gagman
gagmen
gags
gagster
gagsters
gahnite
gahnites
gaieties
gaiety
galbanum
galbanums
gale
galea
galeae
galeas
galeate
galeated
galena
galenas
galenic
galenite
galenites
galere
galeres
gales
galiee
galiees
galiot
galiots
galipot
galipots
galivant
galivanted
galivanting
galivants
gall
gallant
gallanted
gallanting
gallantly
gallantries
gallantry
gallants
gallate
gallates
gallbladder
gallbladders
galleass
galleasses
galled
gallein
galleins
galleon
galleons
galleried
galleries
gallery
gangland
ganglands
ganglia
ganglial
gangliar
ganglier
gangliest
gangling
ganglion
ganglionic
ganglions
gangly
gangplank
gangplanks
gangplow
gangplows
gangrel
gangrels
gangrene
gangrened
gangrenes
gangrenening
gangrenous
gangs
gangster
gangsters
gangue
gangues
gangway
gangways
ganister
ganisters
ganja
ganjas
gannet
gannets
ganof
ganofs
ganoid
ganoids
gantlet
gantleted
gantletting
gantlets
gantline
gantlines
gantlope
gantlopes
gantries
gantry
ganymede
ganymedes
gaol
gaoled
gaoler
gaolers
gaoling
gaols
gap
gape
gaped
gaper
gapers
gapes
gapeseed
gapeseeds
gapeworm
gapeworms
gaping
gapingly
gaposises
gapped
gappier
gappiest
gapping
gappy
gaps
gapy
gar
garage
garaged
garages
garaging
garb
garbage
garbages
garbanzo
garbanzos
garbed
garbing
garble
garbled
garbler
garblers
garbles
garbless
garbling
garboard
garboards
garboil
garboils
garbs
garcon
garcons
gardant
garden
gardened
gardener
gardeners
gardenia
gardenias
gardening
gardens
gardyloo
garfish
garfishes
garganey
garganeys
gargantuan
garget
gargets
gargety
gargle
gargled
gargler
garglers
gargles
gargling
gargoyle
gargoyle(s)
garish
garishly
garland
garlanded
garlanding
garlands
garlic
garlicky
garlics
garment
garmented
garmenting
garments
garrulities

garrulity

garrulous

garrulously

garrulousness

garrulousnesses

gars

garter

gartered

gartering

garters

garth

garths

garvey

garveys

gas

gasalier

gasaliers

gasbag

gasbags

gascon

gascons

gaselier

gaseliers

gaseous

gases

gash

gashed

gasher

gashes

gashest

gashing

gashouse

gashouses

gasified

gasifier

gasifiers

gasifies

gasiform

gasify

gasifying

gasket

gaskets

gaskin

gasking

gaskings

gaskins

gasless
gauffers
 gauge
 gauged
 gauger
 gaugers
 gauges
 gauging
 gault
 gaults
 gaum
 gaumed
 gauming
 gaums
 gaun
 gaunt
 gaunter
 gauntest
 gauntlet
 gauntleted
 gauntleting
 gauntlets
 gauntly
 gauntness
 gauntnesses
 gauntries
 gauntry
 gaur
 gaurs
 gauss
 gausses
 gauze
 gauzes
 gauzier
 gauziest
 gauzy
 gavage
 gavages
 gave
 gavel
 gaveled
 gaveling
 gavelled
 gavelling
 gavelock
 gavelocks
 gavels
 gavial
 gavials
gazetteer
gazetteers
gazettes
gazetting
gazing
gazogene
gazogenes
gazpacho
gazpachos
gear
gearbox
gearboxes
gearcase
gearcases
gleared
gearing
gearings
gearless
gears
gearshift
gearshifts
g Heck
g cecked
g ecking
g ecko
g ecko
ewes
g ekos
g eks
g ed
g eds
g ee
g eed
g eegaw
g eegaws
g eeing
g eek
g eeks
g eepound
g eepounds
g ees
g eese
g eest
g eests
g eezer
g eezers
g eisha
g eishas
g el
gentlewoman
gentlewomen
gentling
gently
gentrice
gentrices
gentries
gentry
gents
genu
genua
genu
genuflect
genuflected
genuflecting
genuflection
genuflections
genuflects
genuine
genuinely
genuineness
genuinences
genuses
genuses
geode
geodes
geodesic
geodesics
geodesies
geodesy
gedetic
gedic
geduck
geducks
gedognosies
gedognosy
gedorapher
gedoraphers
gedoraphic
gedoraphical
gedoraphically
gedoraphies
gedoraphy
gedoid
gedoidal
g edoids
g edoids
g edologer
g edologers
g edologic
girosols
girsh
girshes
girt
girted
girth
girthed
girthing
girths
girting
girts
gisarme
gisarmes
gismo
gismos
gist
gists
git
gitano
gitanos
gitern
gitterns
give
giveable
giveaway
giveaways
given
givens
giver
givers
gives
giving
gizmo
gizmos
gizzard
gizzards
gjetost
gjetosts
glabella
glabellae
glabrate
glabrous
glace
glaceed
glaceing
glaces
glacial
glacially
glaciate
 glaciated
 glaciates
 glaciating
 glacier
 glaciers
 glacis
 glacises
 glad
 gladded
 gladden
 gladdened
 gladdening
 gladdens
 gladder
 gladdest
 gladding
 glade
 glades
 gladiate
 gladiator
 gladiatorial
 gladiators
 gladier
 gladiest
 gladiola
 gladiolas
 gladioli
 gladiolus
 gladlier
 gladliest
 gladly
 gladness
 gladnesses
 glads
 gladsome
 gladsomer
 gladsomest
 glady
 glaiket
 glaikit
 glair
 glaire
 glaired
 glaires
 glairier
 glairiest
 glairing
gleds
glee
gleed
gleeds
gleeful
glek
gleeked
gleeking
gleeks
gleeman
gleemen
glees
gleesome
gleet
gleeted
gleetier
gleetiest
gleting
gleets
gleety
gleg
glegly
glegness
glegnesses
glen
glenlike
glenoid
glens
gley
gleys
gliadin
gliadine
gliadines
gliadins
glial
glib
glibber
glibbest
glibly
glibness
glibnesses
glide
gliced
glider
gliders
glides
gliding
gliff
gloated
gloater
gloaters
gloat

groat

glowing

glove

gloved

gloves

globin

globing

glob

global

globally

globate

globated

globe

globed

globes

globin

globing

globins

globoid

globoids

globose

globous

globs

globular

globule

globules

globulin

globulins

glochid

glochids

glockenspiel

glockenspiels

glogg

gloggs

glom

glomera

glommed

glomming

gloms

glomus

gloom

gloomed

gloomful

gloomier

gloomiest

gloomily

gloominess

gloominesses

gloomings
glooms
gloomy
glop
glops
gloria
glorias
gloried
glories
glorification
glorifications
glorified
glorifies
glorify
glorifying
gloriole
glorioles
glorious
gloriously
glory
glorying
gloss
glossa
glossae
glossal
glossarial
glossaries
glossary
glossas
glossed
glosseme
glossemes
glosser
glossers
glosses
glossier
glossies
glossiest
glossily
glossina
glossinas
glossiness
glossinesses
glossing
glossy
glost
glost
glottal
glottic
gluest
gluily
gluing
glum
glume
glumes
glumly
glummer
glumnest
glumness
glumnesses
glumpier
glumpiest
glumpily
glumpy
glunch
glunched
glunches
glunching
glut
gluteal
glutei
glutelin
glutelins
gluten
glutens
gluteus
glutinous
gluts
glutted
glutting
glutton
gluttonies
gluttonous
gluttons
gluttony
glycan
glycans
glyceric
glycerin
glycerine
glycerines
glycerins
glycerol
glycerols
glyceryl
glyceryls
glycin
glycine
glycines
glycins
glycogen
glycogens
glycol
glycolic
glycols
glyconic
glyconics
glycosyl
glycosyls
glycyl
glycyls
glyph
glyphic
glyphs
glyptic
glyptics
gnar
gnarl
gnarled
gnarlier
gnarliest
gnarling
gnarls
gnarly
gnarr
gnarred
gnarring
gnarrs
gnars
gnash
gnashed
gnashes
gnashing
gnat
gnathal
gnathic
gnathion
gnathions
gnathite
gnathites
gnatlike
gnats
gnattier
gnattiest
gnatty
gnaw
gnawable
gnawed
gnawer
gnawers
gnawing
gnawings
gnawn
gnaws
gneiss
gneisses
gneissic
gnocchi
gnome
gnomes
gnomic
gnomical
gnomish
gnomist
gnomists
gnomon
gnomonic
gnomons
gnoses
gnosis
gnostic
gnu
gnus
go
goa
goad
goaded
goading
goadlike
goads
goal
goaled
goalie
goalies
goaling
goalkeeper
goalkeepers
goalless
goalpost
goalposts
goals
goas
goat
goatee
goateed
goatees
goatfish
goatfishes
goatherd
goatherds
goatish
goatlike
goats
goatskin
goatskins
gob
goban
gobang
gobangs
gobans
gobbed
gobbet
gobbets
gobbing
gobble
gobbled
gobbledegook
gobbledegooks
gobbledygook
gobbledygooks
gobbler
gobblers
gobbles
gobbling
gobies
gobio
goboids
goblet
goblets
goblin
goblins
gobo
goboe
gobonee
gobony
gobos
gobs
goby
god
godchild
godchildren
goldfinch
goldfinches
goldfish
goldfishes
golds
goldsmith
goldstein
goldurn
goldURNS
golem
golems
golf
golfed
golfer
golfers
golfing
golfings
golfs
golgotha
golgothas
goliard
goliards
golliwog
golliwogs
golly
golosh
goloshes
gombo
gombos
gomboON
gomboONS
gomeral
gomerals
gomerel
gomerels
gomeril
gomerils
gomuti
gomutis
gonad
gonadal
gonadial
gonadic
gonads
gondola
gondolas
gondolier
gondoliers
gone
goneness
gonenesses
goner
goners
gonfalon
gonfalons
gonfanon
gonfanons
gong
gonged
gonging
gonglike
gongs
gonia
gonidia
gonidial
gonidic
gonidium
gonif
gonifs
gonion
gonium
gonocyte
gonocytes
gonof
gonofs
gonoph
gonophs
gonopore
gonopores
gonorrhrea
gonorrhreal
gonorrhreas
goo
goober
goobers
good
goodby
goodbye
goodbyes
goodbys
goodies
goodish
goodlier
goodliest
goodly
goodman
goosed
gooseflesh
goosefleshes
gooses
goosey
goosier
goosiest
goosing
goosy
gopher
gophers
gor
goral
gorals
gorbellies
gorbelly
gorblimy
gorcock
gorcocks
gore
gored
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
go
gormand
gradable
gradate
gradated
gradates
gradating
grade
graded
grader
graders
grades
gradient
gradients
gradin
gradine
gradines
grading
gradins
grads
gradual
gradually
graduals
graduand
graduands
graduate
graduated
graduates
graduating
graduation
graduations
gradus
graduses
graecize
graecized
graecizes
graecizing
graffiti
graffito
graft
graftage
graftages
grafted
grafter
grafters
grafting
grafts
graham
grail
grails
granddaughters
grandee
grandees
grander
grandest
grandeur
grandeurs
grandfather
grandfathers
grandiose
grandiosely
grandly
grandma
grandmas
grandmother
grandmothers
grandness
grandnesses
grandpa
grandparent
grandparents
grandpas
grands
grandsir
grandsirs
grandson
grandsons
grandstand
grandstands
grange
granger
grangers
granges
granite
granites
granitic
grannie
grannies
granny
grant
granted
grantee
grantees
granter
granters
granting
grantor
grantors
grants
granular
granularities
granularity
granulate
granulated
granulates
granulating
granulation
granulations
granule
granules
granum
grape
graperies
grapery
grapes
grapevine
grapevines
graph
graphed
grapheme
graphemes
graphic
graphically
graphics
graphing
graphite
graphites
graphs
grapier
grapiest
graplin
grapline
graplines
graplins
grapnel
grapnels
grappa
grappas
grapple
grappled
grappler
grapplers
grapples
grappling
grapy
grasp
greyness
greynesses
greys
gribble
gribbles
grid
gridle
giddled
giddles
giddling
gride
grided
grides
griding
gridiron
gridirons
grids
grief
griefs
grievance
grievances
grievant
grievants
grieve
grieved
griever
grievers
gieves
grieving
grievous
grievedly
griff
griiffe
griiffes
griffin
griffins
griffon
griffons
griffs
grift
grifted
grifter
grifters
grifting
grifts
grig
grigri
grigris
grigs
grill
grillade
grillades
grillage
grillages
grille
grilled
griller
grillers
grilles
grilling
grills
grillwork
grillworks
grilse
grilses
grim
grimace
grimaced
grimacer
grimacers
grimaces
grimacing
grime
grimed
grimes
grimier
grimiest
grimily
griming
grimly
grimmer
grimnest
grimness
grimnesses
grimy
grin
grind
grinded
grinder
grinderies
grinders
grindery
grinding
grinds
grindstone
grindstones
gros
groshop
groshops
groin
groined
groining
groins
grommet
grommets
gromwell
gromwells
groom
groomed
groomer
groomers
grooming
grooms
groove
grooved
groover
groovers
grooves
groovier
grooviest
grooving
groovy
grope
groped
groper
gropers
gropes
groping
grosbeak
grosbeaks
grosschen
gross
grossed
grosser
grossers
grosses
grossest
grossing
grossly
grossness
grossnesses
grosz
groszy

grot
grouting
grots
grouthy
grove
groved
grovel
groveled
groveler
grovelers
grovelling
grovelling
grovels
groves
grow
growable
grower
growers
growing
growl
growled
growler
growlers
growlier
growliest
growling
growls
growly
grown
grownup
grownups
grows
growth
growths
groyne
groynes
grub
grubbed
grubber
grubbers
grubbier
grubbier
grubbies
grubbiness
grubbinesses
grubbing
grubby
grubs
grubstake
grubstakes
grubworm
grubworms
grudge
grudged
grudger
grudgers
grudges
grudging
gruel
gruelled
grueler
gruelers
grueling
gruelings
gruelled
grueller
gruellers
gruelling
gruellings
gruels
gruesome
grueller
gruellers
gruelling
gruellings
gruels
gruesome
gruesomer
gruesomest
gruff
gruffed
gruffer
gruffest
gruffier
gruviest
gruffily
gruffling
gruffish
graffily
gruffs
gruffy
grugru
grugrus
grum
grumble
grumbled
grumbler
grumblers
grumbles
grumblings
grumblily
grume
grumes
gummer
grummest
grummet
grummets
grumose
grumous
grump
grupped
grunphie
grunphies
grunphy
grunpier
grunpiest
grunpily
grumping
grumpish
grumps
grumpy
grunion
grunions
grunt
grunted
grunter
grunters
grunting
gruntle
gruntled
gruntles
gruntling
grunts
grushie
grutch
grutched
grutches
grutching
grutten
gryphon
gryphons
guacharo
guacharoes
guacharos
guaco
guacos
guaiac
guaiacol
guaiacs
guaiacs
gum
gumbo
gumboil
gumboils
gumbos
gumbotil
gumbotils
gumdrop
gumdrops
gumless
gumlike
gumma
gummas
gummatha
gummed
gummer
gummers
gumnier
gummiest
gumming
gummite
gummites
gummose
gummoses
gummosis
gummos
gummy
gumption
gumptions
gums
gumshoe
gumshoed
gumshoeing
gumshoe
gumtree
gumtrees
gumweed
gumweeds
gumwood
gumwoods
gun
gunboat
gunboats
gundog
gundogs
gunfight
gunfighter
gunfighters
gustatory
gusted
gustier
guestiest
gustily
gusting
gustless
gusto
gustoess
gusts
gusty
gut
gutless
gutlike
guts
gutsier
gutsiest
gutsy
gutta
guttae
guttate
guttated
gutted
gutter
guttered
guttering
gutters
guttery
guttier
guttiest
gutting
guttle
guttled
guttler
guttlers
guttles
guttling
guttural
gutturals
gutty
guy
guyed
guyer
guying
guyot
guyots
guys
guzzle
guzzled
guzzler
guzzlers
guzzles
guzzling
gweduc
gweduck
gweducks
gweducks
gybe
gybed
gyber
gybes
gybing
gym
gymkhana
gymkhanas
gymnasia
gymnasium
gymnasiums
gymnast
gymnastic
gymnastics
gynnasts
gyms
gynaecaea
gynaecia
gynandries
gynandry
gynarchies
gynarchy
yneca
gynecic
gynecium
gynecoid
gynecologic
gynecological
gynecologies
gynecologist
gynecologists
gynecology
gynecomastia
gynecomasty
gyniatries
gyniatry
gynoezia
gyp
gypped
hailed
hailer
hailers
hailing
hails
hailstone
hailstones
hailstorm
hailstorms
haily
hair
hairball
hairballs
hairband
hairbands
hairbreath
hairbreathes
hairbrush
hairbrushes
haircap
haircaps
haircut
haircuts
hairdo
hairdos
hairdresser
hairdressers
haired
hairier
hairiest
hairiness
hairinesses
hairless
hairlike
hairline
hairlines
hairlock
hairlocks
hairpiece
hairpieces
hairpin
hairpins
hairs
hairsbreadth
hairsbreathes
hairstyle
hairstyles
hairstyling
hairstylings
hairstylist
hairstylists
hairwork
hairworks
hairworm
hairworms
hairy
haj
hajes
haji
hajis
hajj
hajjes
hajji
hajjis
hajjs
hake
hakeem
hakeems
hakes
hakim
hakims
halakah
halakahs
halakic
halakist
halakists
halakoth
halala
halalah
halalahs
halalas
halation
halations
halavah
halavahs
halazone
halazones
halberd
halberds
halbert
halberts
halcyon
halcyons
hale
haled
haleness
hallmark
hallmarked
hallmarking
hallmarks
hallo
halloa
halloaed
halloaing
halloas
halloed
halloes
halloing
halloo
hallooed
hallooing
halloos
hallos
hallot
halloth
hallow
hallowed
hallower
hallowers
hallowing
hallows
halls
halluces
hallucinate
hallucinated
hallucinates
hallucinating
hallucination
hallucinations
hallucinative
hallucinatory
hallucinogen
hallucinogenic
hallucinogens
hallux
hallway
hallways
halm
halms
halo
haloed
halogen
halogens
haloid
handing
handiwork
handiworks
handkerchief
handkerchiefs
handle
handled
handler
handlers
handles
handless
handlike
handling
handlings
handlist
handlists
handloom
handlooms
handmade
handmaid
handmaiden
handmaidens
handmaids
handoff
handoffs
handout
handouts
handpick
handpicked
handpicking
handpicks
handrail
handrails
hands
handsaw
handsaws
handsel
handseled
handseling
handselled
handselling
handsels
handset
handsets
handsewn
handsful
handshake
handshakes
handsome
handsomely
handsomeness
handsomenesses
handsomer
handsomest
handspring
handsprings
handstand
handstands
handwork
handworks
handwoven
handwrit
handwriting
handwritings
handwritten
handy
handyman
handymen
hang
hangable
hangar
hangared
hangaring
hangars
hangbird
hangbirds
hangdog
hangdogs
hanged
hanger
hangers
hangfire
hangfires
hanging
hangings
hangman
hangmen
hangnail
hangnails
hagnest
hangnests
hangout
hangouts
hangover
hangovers
hangs
hangtag
hangtags
hangup
hangups
hank
hanked
hanker
hankerer
hankerers
hankering
hankers
hankie
hankies
hanking
hanks
hanky
hanse
hansel
hanseled
hanseling
hanselled
hanselling
hansels
hanses
hansom
hansoms
hant
hanted
hanting
hantle
hantles
hants
hanuman
hanumans
haole
haoles
hap
hapax
hapaxes
hapazard
hapazardly
hapless
haplessly
haplessness
haplessnesses
haplite
haplites
haploid
haploidies
haploids
haploidy
haplont
haplonts
haplopia
haplopias
haploses
haplosis
haply
happed
happen
happened
happening
happenings
happens
happier
happiest
happily
happiness
happing
happy
haps
hapten
haptene
haptenes
haptenic
haptons
haptic
haptical
harangue
harangued
haranguer
haranguers
harangues
haranguing
harass
harassed
harasser
harassers
harasses
harassing
harassness
harassnesses
harbinger
harbingers
harbor
harpies
harpin
harping
harpings
harpins
harpist
harpists
harpoon
harpoooned
harpoooner
harpoooners
harpoooning
harpools
harps
harpsichord
harpsichords
harp
harridan
harridans
harried
harrier
harriers
harries
harrow
harrowed
harrower
harrowers
harrowing
harrows
harrumph
harrumphed
harrumphing
harrumphs
harry
harrying
harsh
harshen
harshened
harshening
harshens
harsher
harshest
harshly
harshness
harshnesses
harslet
harslets
hart
hartal
hartals
harts
haruspex
haruspices
harvest
harvested
harvester
harvesters
harvesting
harvests
has
hash
hashed
hasheesh
hasheeshes
hashes
hashing
hashish
hashishes
haslet
haslets
hasp
hasped
hasping
hasps
hassel
hassels
hassle
hassled
hassles
hassling
hassock
hassocks
hast
hastate
haste
hasted
hasteful
hasten
hastened
hastener
hasteners
hastening
hastens
hastes
hastier
hastiest
hatrack
hatracks
hatred
hatreds
hats
hatsful
hatted
hatter
hatteria
hatterias
hatters
hatting
hauberker
hauberks
haugh
haughs
haughtier
haughtiest
haughtily
haughtiness
haughtinesses
haughty
haul
haulage
haulages
hauled
hauler
haulers
haulier
hauliers
hauling
haulf
haulfier
haulfiest
haulfies
haulmy
haul
haulyard
haulyards
haunch
haunched
haunches
haunt
haunted
haunter
haunters
haunting
hauntingly
haunts
hausen
hausens
hausfrau
hausfrauen
hausfraus
hautbois
hautboy
hautboys
hauteur
hauteurs
havdalah
havdalas
have
havelock
havelocks
haven
havened
havening
havens
haver
havered
haverel
haverels
havering
havers
haves
having
havior
haviors
haviour
haviours
havoc
havocked
havocker
havockers
havocking
havocs
haw
hawed
hawfinch
hawfinches
hawing
hawk
hawkbill
hawkbills
hawked
hawker
headdress
headdresses
headed
header
headers
headfirst
headgate
headgates
headgear
headgears
headhunt
headhunted
headhunting
headhunts
headier
headiest
headily
heading
headings
headlamp
headlamps
headland
headlands
headless
headlight
headlights
headline
headlined
headlines
headlining
headlock
headlocks
headlong
headman
headmaster
headmasters
headmen
headmistress
headmistresses
headmost
headnote
headnotes
headphone
headphones
headpin
headpins
headquarter
headquartered
heelball
heelballs
heeled
heeler
heelers
heeling
heelings
heelless
heelpost
heelposts
heels
heeltap
heeltaps
heeze
heezed
heezes
heezing
heft
hefted
hefter
hefters
heftier
heftiest
heftily
hefting
hefts
hefty
hegari
hegaris
hegemonies
hegemony
hegira
hegiras
hegumen
hegumene
hegumenes
hegumenies
hegumens
hegumeny
heifer
heifers
heigh
height
heighten
heightened
heightening
heightens
heighth
helicopt
helicopted
helicopter
helicopters
helicopting
helicopts
helio
helios
heliotrope
helipad
helipads
heliport
heliports
helistop
helistops
helium
heliums
helix
helixes
hell
hellbent
hellbox
hellboxes
hellcat
hellcats
helled
heller
helleri
helleries
hellers
hellery
hellfire
hellfires
hellgrammite
hellgrammites
hellhole
hellholes
helling
hellion
hellions
hellish
hellkite
hellkites
hello
helloed
helloes
helloing
hellos
hells
helluva
helm
helmed
helmet
helmeted
helmeting
helmets
helming
helminth
helminths
helmless
helms
helmsman
helmsmen
helot
helotage
helotages
helotism
helotisms
helotries
helotry
helots
help
helpable
helped
helper
helpers
helpful
helpfully
helpfulness
helpfulnesses
helping
helpings
helpless
helplessly
helplessness
helplessnesses
helpmate
helpmates
helpmeet
helpmeets
helps
helve
helved
helves
helving
hem
hemagog
hemagogs
hemal
hematal
hematein
hemateins
hematic
hematics
hematin
hematine
hematines
hematins
hematite
hematites
hematocrit
hematoid
hematologic
hematological
hematologies
hematologist
hematologists
hematology
hematoma
hematomas
hematomata
hematopenia
hematuria
heme
hemes
hemic
hemin
hemins
hemiola
hemiolas
hemipter
hemipters
hemisphere
hemispheres
hemispheric
hemispherical
hemline
hemlines
hemlock
hemlocks
hemmed
hemmer
hemmers
hemming
hermaphrodite
hermaphrodites
hermaphroditic
hermetic
hermetically
hermit
hermitic
hermitries
hermitry
hermits
herms
hern
hernia
herniae
hernial
hernias
herniate
herniated
herniates
herniating
herniation
herniations
herns
hero
heroes
heroic
heroical
heroics
heroin
heroine
heroines
heroins
heroism
heroisms
heroize
heroized
heroizes
heroizing
heron
heronries
heronry
herons
heros
herpes
herpeses
herpetic
herpetologic
herpetological
highboys
highbred
highbrow
highbrows
highbush
highchair
highchairs
higher
highest
highjack
highjacked
highjacking
highjacks
highland
highlander
highlanders
highlands
highlight
highlighted
highlighting
highlights
highly
highness
highnesses
highroad
highroads
highs
hight
hightail
hightailed
hightailing
hightails
highted
highth
highths
highting
highs
highway
highwayman
highwaymen
highways
hijack
hijacked
hijacker
hijackers
hijacking
hijacks
hijinks
hitcher
hitchers
hitches
hitchhike
hitchhiked
hitchhiker
hitchhikers
hitchhikes
hitchhiking
hitching
hither
hitherto
hitless
hits
hitter
hitters
hitting
hive
hived
hiveless
hiver
hives
hiving
ho
hoactzin
hoactzines
hoactzins
hoagie
hoagies
hoagy
hoar
hoard
hoarded
hoarder
hoarders
hoarding
hoardings
hoards
hoarfrost
hoarfrosts
hoarier
hoariest
hoarily
hoariness
hoarinesses
hoars
hoarse
hoarsely
hoarsen
hoarsened
hoarseness
hoarsenesses
hoarsening
hoarsens
hoarser
hoarhest
hoary
hoatzin
hoatzines
hoatzins
hoax
hoaxed
hoaxer
hoaxers
hoaxes
hoaxing
hob
hobbed
hobbies
hobbing
hobble
hobbled
hobbler
hobbler
hobbler
hobbles
hobbling
hobby
hobbyist
hobbyists
hobgoblin
hobgoblins
hoblike
hobnail
hobnailed
hobnails
hobnob
hobnobbed
hobnobbing
hobnobs
hobo
hoboed
hoboes
hoboing
hoboism
hoboisms
hobos
hogg
hogged
hogger
hoggers
hogging
hoggish
hogs
hoglike
hogmanay
hogmanays
hogmane
hogmanes
hogmenay
hogmenays
hognose
hognoses
hognut
hognuts
hogs
hogshead
hogsheads
hogtie
hogtied
hogticing
hogties
hogtying
hogwash
hogwashes
hogweed
hogweeds
hoick
hoicked
hoicking
hoicks
hoiden
hoidened
hoidening
hoidens
hoise
hoised
hoises
hoising
hoist
hoisted
hoister
hoisters
hoisting
hoists
holiness
holinesses
holing
holism
holisms
holist
holistic
holists
holk
holked
holking
holks
holla
hollaed
hollaing
holland
hollands
hollas
holler
hollered
hollering
hollers
hollies
hollo
holloa
holloaed
holloaing
holloas
holloed
holloes
holloing
holloo
hollooed
hollooing
holloos
hollos
hollow
hollowed
hollower
hollowest
hollowing
hollowly
hollowness
hollownesses
hollows
holly
hollyhock
hollyhocks
homeness
hominesses
homing
hominian
hominians
hominid
hominids
hominies
hominine
hominoid
hominoids
homy
hommock
hommocks
homo
homogamies
homogamy
homogeneities
homogeneity
homogeneous
homogeneously
homogeneousness
homogeneousnesses
homogenies
homogenize
homogenized
homogenizer
homogenizers
homogenizes
homogenizing
homogeny
homogonies
homogony
homograph
homographs
homolog
homologies
homologs
homology
homonym
homonymies
homonyms
homonymy
homophone
homophones
hmos
homosexual
homosexuals
homy
honan
honans
honcho
honchos
honda
hondas
hondle
hondled
hondling
hone
honed
honer
honers
hones
honest
honester
honestest
honesties
honestly
honesty
honewort
honeworts
honey
honeybee
honeybees
honeybun
honeybuns
honeycomb
honeycombed
honeycombing
honeycombs
honeydew
honeydews
honeyed
honeyful
honeying
honeymoon
honeymooned
honeymooning
honeymoons
honeys
honeysuckle
honeysuckles
hong
hongs
honied
honing
honk
honked
honker
honkers
honkey
honkeys
honkie
honkies
honking
honks
honky
honor
honorable
honorably
honorand
honorands
honoraries
honorarily
honorary
honored
honoree
honorees
honorer
honorers
honoring
honors
honour
honoured
honourer
honourers
honouring
honours
hooch
hooches
hood
hooded
hoodie
hoodies
hooding
hoodless
hoodlike
hoodlum
hoodlums
hoodoo
hoodooed
hoodooing
hoodoos
hoods
hopelessness
hopelessnesses
hoper
hopers
hopes
hophead
hopheads
hoping
hoplite
hoplites
hoplritic
hopped
hopper
hoppers
hopping
hopple
hoppled
hopplies
hoppling
hops
hopsack
hopsacks
hoptoad
hoptoads
hora
horah
horahs
horal
horary
horas
horde
horded
hordein
hordeins
hordes
hording
horehound
horehounds
horizon
horizons
horizontal
horizontally
hormonal
hormone
hormones
hormonic
horn
hornbeam
hornbeams
hornbill
hornbills
hornbook
hornbooks
horned
hornet
horns
hornier
horniest
hornily
horning
hornito
hornitos
hornless
hornlike
hornpipe
hornpipes
hornpout
hornpouts
horns
horntail
horntails
hornworm
hornworms
hornwort
hornworts
horney
horologe
horologes
horological
horologies
horologist
horologists
horology
horoscope
horoscopes
horrendous
horrent
horrible
horribleness
horriblenesses
horribles
horribly
horrid
horridly
horrific
horrified
horrifies
horrify
horrifying
horror
horrors
horse
horseback
horsebacks
horsecar
horsecars
horset
horseflies
horsefly
horsehair
horsehairs
horsehide
horsehides
horseless
horseman
horsemanship
horsemanship
horsemen
horseplay
horseplays
horsepower
horsepowers
horseradish
horseradishes
horses
horseshoe
horseshoes
horsewoman
horsewomen
horsey
horsier
horsiest
horsily
horsing
horst
horste
horstes
horsts
horsy
hortatory
horticultural
horticulture
horticultures
horticulturist
horticulturists
hosanna
hosannaed
hosannaing
hosannas
hose
hosed
hosel
hosels
hosen
hoses
hosier
hosieries
hosiers
hosiery
hosing
hospice
hospices
hospital
hospitalabilities
hospitality
hospitalization
hospitalizations
hospitalize
hospitalized
hospitalizes
hospitalizing
hospitals
hospitia
hospodar
hospodars
host
hostage
hostages
hosted
hostel
hosteled
hosteler
hostelers
hosteling
hostelries
hostelry
hostels
hostess
hostessed
hostesses
hostessing
hostile
hostily
hostiles
hostilities
hostility
hosting
hostler
hostlers
hostly
hosts
hot
hotbed
hotbeds
hotblood
hotbloods
hotbox
hotboxes
hotcake
hotcakes
hotch
hotched
hotches
hotching
hotchpot
hotchpots
hotdog
hotdogged
hotdogging
hotdogs
hotel
hotelier
hoteliers
hotelman
hotelmen
hotels
hoofoot
hoofooted
hoofooting
hoofots
hothead
hotheaded
hotheadedly
hotheadedness
hotheadednesses
hotheads
hothouse
hovelling
hovels
hover
hovered
hoverer
hoverers
hovering
hovers
how
howbeit
howdah
howdahs
howdie
howdies
howdy
howe
howes
however
howf
howff
howffs
howfs
howitzer
howitzers
howk
howked
howking
howks
hawl
howled
howler
howlers
howlet
howlets
howling
howls
hows
hoy
hoyden
hoydened
hoydening
hoydens
hoyle
hoyles
hoys
huarache
huaraches
huarachos
huarachos
hub
hubbies
hubbub
hubbubs
hubby
hubcap
hubcaps
hubris
hubrises
hubs
huck
huckle
huckleberries
huckleberry
huckles
hucks
huckster
huckstered
huckstering
hucksters
huddle
huddled
huddler
huddlers
huddles
huddling
hue
hued
hueless
hues
huff
huffed
huffier
huffiest
huffily
huffing
huffish
huffs
huffy
hug
huge
hugely
hugeness
hugenesses
hugeous
huger
hugest
humanist
humanistic
humanists
humanitarian
humanitarianism
humanitarianisms
humanitarians
humanities
humanity
humanization
humanizations
humanize
humanized
humanizes
humanizing
humankind
humankinds
humanly
humanness
humannesses
humanoid
humanoids
humans
humate
humates
humble
humbled
humbleness
humblenesses
humblener
humblers
humbles
humblest
humbling
humbly
hunbug
hunbugged
hunbugging
hunbugs
humdrum
humdrums
humeral
humerals
humeri
humerus
humic
humid
humidification
humidifications
humidified
humidifier
humidifiers
humidifies
humidity
humidly
humidor
humidors
humified
humiliate
humiliated
humiliates
humiliating
humiliatingly
humiliation
humiliations
humilities
humility
hummable
hummed
hummer
hummers
humming
hummingbird
hummingbirds
hummock
hummocks
hummocky
humor
humoral
humored
humorful
humoring
humorist
humorists
humorless
humorlessly
humorlessness
humorous
humorously
humorousness
humorosities
humors
hurricanes
hurried
hurrier
hurriers
hurries
hurry
hurrying
hurt
hurter
hurters
hurtful
hurting
hurtle
hurtled
hurtles
hurtless
hurtling
hurts
husband
husbanded
husbanding
husbandries
husbandry
husbands
hush
hushaby
hushed
hushedly
hushes
hushful
hushing
husk
husked
husker
huskers
huskier
huskies
huskiest
huskily
huskiness
huskinesses
husking
huskings
husklike
husks
husky
hussar
hussars
hydrochloride
hydroelectric
hydroelectrically
hydroelectricities
hydroelectricity
hydrogel
hydrogels
hydrogen
hydrogenous
hydrogens
hydroid
hyroids
hydromel
hydromels
hydronic
hydrophobia
hydrophobias
hydropic
hydroplane
hydroplanes
hydrops
hydropses
hydropsies
hydropsy
hydros
hydrosol
hydrosols
hydrous
hydroxy
hydroxyl
hydroxyls
hydroxyurea
hyena
hyenas
hyenic
hyenine
hyenoid
hyetal
hygeist
hygeists
hygieist
hygieists
hygiene
hygienes
hygienic
hygienically
hygrometer
hygrometers
hygrometries
hygrometry
hying
hyla
hylas
hylozoic
hymen
hymenal
hymeneal
hymeneals
hymenia
hymenial
hymenium
hymeniums
hymens
hymn
hymnal
hymnals
hymnaries
hymnary
hymnbook
hymnbooks
hymned
hymning
hymnist
hymnists
hymnless
hymnlike
hymnodies
hymnody
hymns
hyoid
hyoidal
hyoidean
hyoids
hyoscine
hyoscines
hyp
hype
hyperacid
hyperacidities
hyperacidity
hyperactive
hyperacute
hyperadrenalism
hyperaggressive
hyperaggressiveness
hyperaggressivenesses
hyperanxious
hyperbole
hyperboles
hypercalcemia
hypercalcemias
hypercautious
hyperclean
hyperconscientious
hypercorrect
hypercritical
hyperemotional
hyperenergetic
hyperexcitable
hyperfastidious
hypergol
hypergols
hyperintense
hypermasculine
hypermilitant
hypermoralistic
hypernationalistic
hyperon
hyperons
hyperope
hyperopes
hyperreactive
hyperrealistic
hyperromantic
hypersensitive
hypersensitiveness
hypersensitivenesses
hypersensitivities
hypersensitivty
hypersexual
hypersusceptible
hypersuspicious
hypesensitive
hypertense
hypertension
hypertensions
hypertensive
hypertensives
hyperthermia
hyperthyroidism
hyperuricemia
hypervigilant
hyphes
hypha
hyphae
hyphal
hyphemia
hyphemias
hyphen
hyphenate
hyphenated
hyphenates
hyphenating
hyphenation
hyphenations
hyphened
hyphenening
hyphens
hypnic
hypnoid
hypnoses
hypnosis
hypnotic
hypnotically
hypnotics
hypnotism
hypnotisms
hypnotizable
hypnotize
hypnotized
hypnotizes
hypnotizing
hypo
hypoacid
hypocalcemia
hypochondria
hypochondriac
hypochondriacs
hypochondrias
hypocrisies
hypocrisy
hypocrite
hypocrites
hypocritical
hypocritically
hypoderm
hypodermic
hypodermeric
hypoderemics
hypoderms
hypoed
hypogea
hypogean
hypogene
hypogeum
hypogynies
hypogyny
hypoing
hypokalemia
hyponea
hyponeas
hyponoia
hyponoias
hypopneas
hypopnea
hypopneas
hypopyon
hypopyons
hypos
hypotension
hypotensions
hypotenuse
hypotenuses
hypothee
hypothees
hypotheses
hypothesis
hypothetical
hypothetically
hypothyroidism
hypoxia
hypoxias
hypoxic
hyps
hyraces
hyracoid
hyracoids
hyrax
hyraxes
hyson
hysons
hyssop
hyssops
hysterectomies
hysterectomize
hysterectomized
hysterectomizes
hysterectomizing
hysterectomy
hysteria
hysterias
hysteric
idiocies
idiocy
idiolect
idiolects
idiom
idiomatic
idiomatically
idioms
idiosyncrasies
idiosyncrasy
idiosyncratic
idiot
idiotic
idiotically
idiotism
idiotisms
idiots
idle
idled
idleness
idlenesses
idler
idlers
idles
idlesse
idlesses
idlest
idling
idly
idocrase
idocrases
idol
idolater
idolaters
idolatries
idolatrous
idolatry
idolise
idolised
idoliser
idolisers
idolises
idolising
idolism
idolisms
idolize
idolized
idolizer
idolizers
idolizes
idolizing
idols
idoneities
idoneity
idoneous
ids
idyl
idyll
idylic
idylist
idylists
idyll
idyllist
idyllists
idylls
idyls
if
iffier
iffiest
iffiness
iffinesses
iffy
ifs
igloo
igloos
iglu
iglus
ignatia
ignatias
igneous
ignified
ignifies
ignify
ignifying
ignite
ignited
igniter
igniters
ignites
igniting
ignition
ignitions
ignitor
ignitors
ignitron
ignitrons
ignoble
illumined
illumines
illuming
illumining
illusion
illusions
illusory
illustrate
illustrated
illustrates
illustrating
illustration
illustrations
illustrative
illustratively
illustrator
illustrators
illustrious
illustriousness
illustriousnesses
illuvia
illuvial
illuvium
illuviums
illy
ilmenite
ilmenites
image
imaged
imageries
imagery
images
imaginable
imaginably
imaginal
imaginary
imagination
imagination
imagine
imagined
imaginer
imaginers
imagines
imaging
imagining
imagism
imagisms
imagist
imagists
imago
imagoes
imam
imamate
imamates
imams
imaret
imarets
imaum
imaums
imbalance
imbalances
imbalm
imbalmed
imbalmer
imbalmers
imbalming
imbalms
imbark
imbarked
imbarking
imbarks
imbecile
imbeciles
imbecilic
imbecilities
imbecility
imbed
imbedded
imbedding
imbeds
imbibe
imbibed
imbiber
imbibers
imbibes
imbibing
imbitter
imbittered
imbittering
imbitters
imblaze
imblazed
imblazes
imblazing
imbodied
imbodies
imbody
imbodying
imbolden
imboldened
imboldening
imboldens
imbosom
imbosomed
imbosoming
imbosoms
imbower
imbowered
imbowering
imbowers
imbroglio
imbroglios
imbrown
imbrowned
imbrowning
imbrowns
imtrue
imbrued
imbrues
imbruining
imbrute
imbruted
imbrutes
imbruting
imbue
imbued
imbues
imbuing
imid
imide
imides
imidic
imidic
imids
imine
imines
imino
imitable
imitate
imitated
imitates
imitating
imitation
imitations
imitator
imitators
immaculate
immaculately
immane
immanent
immaterial
immaterialities
immateriality
immature
immatures
immaturities
immaturity
immeasurable
immeasurably
immediacies
immediacy
immediate
immediately
immemorial
immense
immensely
immenser
immensest
immensities
immensity
immmerge
immmerge
immersed
immerses
immersing
immersion
immersions
immesh
immeshed
immeshes
immeshing
immies
immigrant
immigrants
immigrate
immigrated
immigrates
immigrating
immigration
immigrations
imminence
imminences
imminent
imminently
immingle
immingled
immingles
immingling
immix
immixed
immixes
immixing
immobile
immobilities
immobility
immobilize
immobilized
immobilizes
immobilizing
immoderacies
immoderacy
immoderate
immoderately
immobilize
immobilized
immobilizes
immobilizing
immoderacies
immoderacy
immoderate
immoderately
immobilize
immobilized
immobilizes
immobilizing
immoral
immoralities
immorality
immorally
immortal
immortalities
immortality
immortalize
immortalized
immortalizes
immortalizing
immortals
inmotile
immovabilities
immovability
immovable
immovably
immune
immunes
immunise
immunised
immunises
immunising
immunities
immunity
immunization
immunizations
immunize
immunized
immunizes
immunizing
immunologic
immunological
immunologies
immunologist
immunologists
immunology
immure
immured
immures
immuring
immutabilities
immutability
immutable
immutably
immy
imp
impact
impacted
impacter
impacters
impacting
impactor
impactors
impacts
impaint
impaint
impainting
impaints
impassivity
impaste
impasted
impastes
impasting
impasto
impastos
impatience
impatiences
impatiens
impatient
impatiently
impavid
impawn
impawned
impawning
impawns
impeach
impeached
impeaches
impeaching
impeachment
impeachments
impearl
impearled
impearling
impearls
impeccable
impeccably
impecunious
impecuniousness
impecuniousnesses
imped
impedance
impedances
impede
impeded
impeder
impedes
impediment
impediments
impeding
impel
impelled
impeller
impellers
impelling
implausibilities
implausibility
implausible
implead
impleaded
impleading
impleads
impledge
implegged
implegedged
implegges
implegging
implement
implementation
implementations
implemented
implementing
implements
implicate
implicated
implicates
implicating
implication
implications
implicit
implicitly
implied
implies
implode
imploded
implodes
imploding
impleore
impleored
implorer
implorers
impleores
imploring
implosion
implosions
implosive
imply
implying
impolicies
impolicy
impolite
impolitic
imponderable
imponderables
impotencies
impotency
impotent
impotently
impotents
impound
impounded
impounding
impoundment
impoundments
impounds
impoverish
impoverished
impoverishes
impoverishing
impoverishment
impoverishments
impower
impowered
impowering
impowers
impracticable
impractical
imprecise
imprecisely
impreciseness
imprecisenesses
imprecision
impregabilities
impregability
impregable
impregn
impregnate
impregnated
impregnates
impregnating
impregnation
impregnations
impregned
impregnig
impregnns
impresa
impresario
impresarios
impresas
imprese
impreses
impress
inapparent
inapplicable
inapposite
inappositely
inappositeness
inappositenesses
inappreciable
inappreciably
inappreciative
inapproachable
inappropriate
inappropriately
inappropriateness
inappropriatenesses
inapt
inaptly
inerable
inarch
inarched
inarches
inarching
inaugurable
inaugurant
inaugurant
inaugurating
inaugurations
inaugurations
inauspicious
inauspicious
inauthentic
inbeing
inbeings
inboard
inboards
inborn
inbound
inbounds
inbred
inbreed
inbreeding
inbreedings
inbreeds
inbuilt
inburst
inbursts
inby
inbye
incage
incaged
incages
incaging
incalculable
incalculably
incandescence
incandescences
incandescent
incantation
incantations
incapabilities
incapability
incapable
incapacitate
incapacitated
incapacitates
incapacitating
incapacities
incapacity
incarcerate
incarcerated
incarcerates
incarcerating
incarceration
incarcerations
incarnation
incarnations
incase
incased
incases
incasing
incations
incautious
incising
incision
incisions
incisive
incisively
incisor
incisors
incisory
incisure
incisures
incitant
incitants
incite
incited
incitement
incitements
inciter
inciters
incites
inciting
incivil
incivilities
incivility
inclasped
inclasping
inclasps
inlemencies
inlemency
inclement
inclination
inclinations
incline
inclined
incliner
inliners
inlines
inclining
inclip
inclipped
inclipping
inclips
inclose
inclosed
incloser
inclosers
incloses
inclosing
incongruous
incongruously
inconnu
inconnus
inconsecutive
inconsequence
inconsequences
inconsequential
inconsequentially
inconsiderable
inconsiderate
inconsiderately
inconsiderateness
inconsideratenesses
inconsistencies
inconsistency
inconsistent
inconsistently
inconsolable
inconsolably
inconspicuous
inconspicuously
inconstancies
inconstancy
inconstant
inconstantly
inconsumable
incontestable
incontestably
incontinence
incontinences
inconvenience
inconvenienced
inconveniences
inconveniencing
inconvenient
inconveniently
incony
incorporate
incorporated
incorporates
incorporating
incorporation
incorporations
incorporeal
incorporeally
incorpse
incorpsed
incubations
incubator
incubators
incubi
incubus
incubuses
incudal
incudate
incudes
inculcate
inculcated
inculcates
inculcating
inculcation
inculcations
inculpable
incult
incumbencies
incumbency
incumbent
incumbents
incumber
incumbered
incumbering
incumbers
incur
incurable
incurious
incurred
incurring
incurs
incursion
incursions
incurve
incurved
incures
incurving
incus
incuse
incused
incuses
incusing
indaba
indabas
indagate
indagated
indagates
indagating
indicium
indiciums
indict
indictable
indicted
indictee
indictees
indicter
indicters
indiciting
indictment
indictments
indictor
indictors
indicts
indifference
indifferences
indifferent
indifferently
indigen
indigence
indigences
indigene
indigenes
indigenous
indigens
indigent
indigents
indigestible
indigestion
indigestions
indign
indignant
indignantly
indignation
indignations
indignities
indignity
indignly
indigo
indigoes
indigoid
indigoids
indigos
indirect
indirection
indications
indirectly
indirectness
indirectnesses
indiscernible
indiscreet
indiscretion
indiscretions
indiscriminate
indiscriminately
indispensabilities
indispensability
indispensable
indispensables
indispensably
indisposed
indisposition
indispositions
indisputable
indisputably
indissoluble
indistinct
indistinctly
indistinctness
indistinctnesses
indistinguishable
indite
indited
inditer
inditers
indites
inditing
indium
indiums
individual
individualities
individuality
individualize
individualized
individualizes
individualizing
individually
individuals
indivisibility
indivisible
indocile
indoctrinate
indoctrinated
indoctrinates
indoctrinating
indwell
indwelling
indwells
indwelt
inearth
inearthed
inearthed
inearthing
inearths
inebriate
inebriated
inebriates
inebriating
inebriation
inebriations
inedible
inedita
inedited
ineducable
ineffable
ineffably
ineffective
ineffectively
ineffectiveness
ineffectivenesses
ineffectual
ineffectually
ineffectualness
ineffectualnesses
inefficiency
inefficient
inefficiently
inelastic
inelasticities
inelasticity
inelegance
inelegances
inelegant
ineligibility
ineligible
inept
ineptitude
ineptitudes
ineptly
ineptness
ineptnesses
inequalities
inequality
inequities
inequity
ineradicable
inerrant
inert
inertia
inertiae
inertial
inertias
inertly
inertness
inertnesses
inerts
inescapable
inescapably
inessential
inestimable
inestimably
inevitabilities
inevitable
inevitably
inexact
inexcusable
inexcusably
inexhaustible
inexhaustibly
inexorable
inexorably
inexpedient
inexpensive
inexperience
inexperienced
inexperiences
inexpert
inexpertly
inexpertness
inexpertnesses
inexperts
inexplicable
inexplicit
inexplicably
inexplicably
inexpressible
inexpressibly
inextinguishable
inextricable
inextricably
infallibility
infallible
infinite
infinitely
infinities
infinitesimal
infinitesimally
infinites
infinitive
infinitives
infinitude
infinitudes
infinity
infirm
infirmary
infirmaries
infirmed
infirming
infirmities
infirmity
infirmlly
infrms
infixed
infixes
infixing
infixion
infixions
inflame
inflamed
inflamer
inflamers
inflames
inflaming
inflammable
inflammation
inflammations
inflammatory
inflatable
inflate
inflated
inflater
inflaters
inflates
inflating
inflation
inflationary
inflator
inflators
inflct
inflected
inflecting
inflection
inflectional
inflections
inflicts
inflected
inflexibilities
inflexibility
inflexible
inflexibly
inflict
inflicted
inflicting
infliction
inflictions
inflicts
inflight
inflow
inflows
influence
influences
influent
influential
influents
influenza
influenzas
influx
influxes
info
infold
infolded
infolder
infolders
infolding
infolds
inform
informal
informalities
informality
informally
informant
informants
information
informational
informations
informative
informed
informer
informers
informing
informs
infos
infra
infract
infracted
infracting
infraction
infractions
infracts
infrared
infrareds
infrequent
infrequently
infringe
infringed
infringement
infringements
infringes
infringing
infrugal
infuriate
infuriated
infuriates
infuriating
infuriatingly
infuse
infused
infuser
infusers
infuses
infusing
infusion
infusions
infusive
ingate
ingates
ingather
ingathered
ingathering
ingathers
ingenious
ingeniously
ingeniousness
ingeniousnesses
ingenue
injudicious
injudiciously
injudiciousness
injudiciousnesses
injunction
injunctions
injure
injured
injuror
injurers
injures
injuries
injuring
injurious
injury
ink
inkberries
inkberry
inkblot
inkblots
inked
inker
inkers
inkhorn
inkhorns
inkier
inkiest
inkiness
inkinesses
inking
inkle
inkles
inkless
inklike
inkling
inklings
inkpot
inkpots
inks
inkstand
inkstands
inkwell
inkwells
inkwood
inkwoods
inky
inlace
inlaced
inpours
input
inputs
inputted
inputting
inquest
inquests
inquiet
inquieted
inquieting
inquiets
inquire
inquired
inquirer
inquirers
inquires
inquiries
inquiring
inquiringly
inquiry
inquisition
inquisitions
inquisitive
inquisitively
inquisitiveness
inquisitivenesses
inquisitor
inquisitorial
inquisitors
inroad
inroads
inrush
inrushes
ins
insalubrious
insane
insanely
insaner
insanest
insanities
insanity
insatiable
insatiate
inscribe
inscribed
inscribes
inscribing
inscription
instead
instep
insteps
instigate
instigated
instigates
instigating
instigations
instigator
instigators
instil
instill
instilled
instilling
instills
instils
instinct
instinctive
instinctively
instincts
institute
institutes
institution
institutional
institutionalize
institutionally
institutions
intransitive
instroke
instrokes
instruct
instructed
instructing
instruction
instructional
instructions
instructive
instructor
instructors
instructorship
instructorships
instructs
instrument
instrumental
instrumentalist
instrumentalists
instrumentalities
intellectual
intellectualism
intellectualisms
intellectually
intellectuals
intelligence
intelligent
intelligently
intelligibilities
intelligibility
intelligible
intelligibly
intemperance
intemperances
intemperate
intemperateness
intemperatenesses
intend
intended
intendeds
intender
intenders
intending
intends
intense
intensely
intenser
intensest
intensification
intensifications
intensified
intensifies
intensify
intensifying
intensities
intensity
intensive
intensively
intent
intention
intentional
intentionally
intentions
intently
intentness
intentnesses
intents
inter
interact
interacted
interacting
interaction
interactions
interactive
interactively
interacts
interagency
interatomic
interbank
interborough
interbred
interbreed
interbreeding
interbreeds
interbusiness
intercalate
intercalated
intercalates
intercalating
intercalation
intercalations
intercampus
intercede
interceded
intercedes
interceding
intercept
intercepted
intercepting
interception
interceptions
interceptor
interceptors
intercepts
intercession
intercessions
intercessor
intercessors
intercessory
interchange
interchangeable
interchangeably
interchanged
interchanges
interchanging
interchurch
intercity
interclass
intercoastal
intercollegiate
intercolonial
intercom
intercommunal
intercommunity
intercompany
intercoms
intercontinental
interconversion
intercounty
intercourse
intercourses
intercultural
intercurrent
intercut
intercuts
intercutting
interdenominational
interdepartmental
interdependence
interdependences
interdependent
interdict
interdicted
interdicting
interdiction
interdictions
interdicts
interdivisional
interelectronic
interest
interested
interesting
interestingly
interests
interethnic
interface
interfaces
interfacial
interfaculty
interfamily
interfere
interfered
interference
interferences
internationalize
internationalized
internationalizes
internationalizing
internationally
internationals
interne
interned
internee
internees
internes
interning
internist
internists
internment
internments
interns
internship
internships
interoceanic
interoffice
interparticle
interparty
interpersonal
interplanetary
interplay
interplays
interpolate
interpolated
interpolates
interpolating
interpolation
interpolations
interpopulation
interpose
interposed
interposes
interposing
interposition
interpositions
interpret
interpretation
interpretations
interpretative
interpreted
interpreter
interpreters
interpreting
intersections
intersects
intersex
intersexes
intersperse
interspersed
intersperses
interspersing
interspersion
interspersions
interstate
interstellar
interstice
interstices
interstitial
intersystem
interterm
interterminal
intertie
interties
intertribal
intertroop
intertropical
intertwine
intertwined
intertwines
intertwining
interuniversity
interurban
interval
intervalley
intervals
intervene
intervened
intervenes
intervening
intervention
interventions
interview
interviewed
interviewer
interviewers
interviewing
interviews
intervillage
interwar
interweave
intituling
into
intolerable
intolerably
intolerance
intolerances
intolerant
intomb
intombed
intombing
intombs
intonate
intonated
intonates
intonating
intonation
intonations
intone
intoned
intoner
intoners
intones
intoning
intort
intorted
intorting
intorts
intown
intoxicant
intoxicants
intoxicate
intoxicated
intoxicates
intoxicating
intoxications
intractable
intrados
intradoses
intramural
intransigence
intransigences
intransigent
intransigents
intrantr
intrants
intravenous
intravenously
introspectively
introspects
introversion
introversions
introvert
introverted
introverts
intrude
intruded
intruder
intruders
intrudes
intruding
intrusion
intrusions
intrusive
intrusiveness
intrusivenesses
intrust
intrusted
intrusting
intrusts
intubate
intubated
intubates
intubating
intuit
intuited
intuiting
intuition
intuitions
intuitive
intuitively
intuits
inturn
inturned
inturns
intwine
intwined
intwines
intwining
intwist
intwisted
intwisting
intwists
inulase
inulases
inulin
inulins
inundant
inundate
inundated
inundates
inundating
inundation
inundations
inurbane
inure
inured
inures
inuring
inurn
inurned
inurning
inurns
inutile
invade
invaded
invader
invaders
invades
invading
invalid
invalidate
invalidated
invalidates
invalidating
invalided
invaliding
invalidism
invalidity
invalidly
invalids
invaluable
invar
invariable
invariably
invars
invasion
invasions
invasive
invected
invective
invectives
inweigh
inweighed
inveighing
inveighs
inveigle
inveigled
inveigles
inveigling
invent
invented
inventer
inventers
inventing
invention
inventions
inventive
inventiveness
inventivenesses
inventor
inventoried
inventories
inventors
inventory
inventorying
invents
inverities
inverity
inverse
inversely
inverses
inversion
inversions
invert
inverted
inverter
inverters
invertibrate
invertibrates
inverting
invertor
invertors
inverts
invest
invested
investigate
investigated
investigates
investigating
investigation
investigations
isogenies
isogeny
isogloss
isoglosses
isogon
isogonal
isogonals
isogone
isogones
isogonic
isogonics
isogonies
isogons
isogony
isogram
isograms
isograph
isographs
isogriv
isogrivos
isohel
isohels
isohyet
isohyets
isolable
isolate
isolated
isolates
isolating
isolation
isolations
isolator
isolators
isolead
isoleads
isoline
isolines
isolog
isologs
isologue
isologues
isomer
isomeric
isomers
isometric
isometrics
isometrics
isometry
isomorph
isomorphs
isonomic
isonomies
isonomy
isophote
isophotes
isopleth
isopleths
isopod
isopodan
isopodans
isopods
isoprene
isoprenes
isospin
isospins
isospories
isosporic
isospories
isostasy
isotach
isotachs
isothere
isotheres
isotherm
isotherms
isotone
isotones
isotonic
isotope
isotopes
isotopic
isotopically
isotopies
isotopy
isotropies
isotropy
isotype
isotypes
isotypic
isozyme
isozymes
isozymic
issei
isseis
issuable
issuably
jammers
jamming
jams
jane
janes
jangle
jangled
jangler
janglers
jangles
jangling
janiform
janisaries
janisary
janitor
janitorial
janitors
janizaries
janizary
janty
japan
japanize
japanized
japanizes
japanizing
japanned
japanner
japanners
japanning
japans
jape
japed
japer
japeries
japers
japery
japes
japing
japingly
japonica
japonicas
jar
jarful
jarfuls
jargon
jargonel
jargononed
jargonel
jargonels
jazzed
jazzer
jazzers
jazzes
jazzier
jazziest
jazzily
jazzing
jazzman
jazzmen
jazzy
jealous
jealousies
jealously
jealousy
jean
jeans
jeopardize
jeopardized
jeopardizes
jeopardizing
jeapordous
jebel
jebels
jee
jeed
jeeing
jeep
jeepers
jeeps
jee
jeered
jeerer
jeerers
jeering
jeers
jees
jeez
jefe
jefes
jehad
jehads
jehu
jehus
jejuna
jejunal
jejune
jejunely
jounces
jouncier
jounciest
jouncing
jouncy
journal
journalism
journalisms
journalist
journalistic
journalists
journals
journey
journeyed
journeying
journeyman
journeymen
journeys
joust
jousting
jousters
jousting
jousts
jovial
jovially
jow
jowed
jowing
jowl
jowled
jowlier
jowliest
jowls
jowly
jows
joy
joyance
joyances
joyed
joyful
joyfuller
joyfullest
joyfully
joying
joyless
joyous
joyously
joyousness
joyousnesses
joypop
joypopped
joypopping
joypops
joyride
joyrider
joyriders
joyrides
joyriding
joyridings
joys
joystick
joysticks
juba
jubas
jubbah
jubbahs
jube
jubes
jubhah
jubhahs
jubilant
jubilate
jubilated
jubilates
jubilating
jubile
jubilee
jubilees
jubiles
jubilantly
jubilation
jubilations
judas
judases
judder
juddered
juddering
judders
judge
judged
judgement
judgements
judger
judgers
judges
kabbala
kabbalah
kabbalahs
kabbalas
kabeljou
kabeljous
kabiki
kabikis
kabob
kabobs
kabs
kabuki
kabukis
kachina
kachinas
kaddish
kaddishim
kadi
kadis
kae
kaes
kaffir
kaffirs
kaffiyeh
kaffiyehs
kafir
kafirs
kaftan
kaftans
kagu
kagus
kahuna
kahunas
kaiak
kaiaks
kaif
kaifs
kail
kails
kailyard
kailyards
kain
kainit
kainite
kainites
kainits
kains
kaiser
keck
kecked
kecking
keckle
keckled
keckles
keckling
kecks
keddah
keddahs
kedge
kedged
kedgereee
kedgerees
kedges
kedging
keef
keefs
keek
keeked
keeking
keeks
keel
keelage
keelages
keelboat
keelboats
keeled
keelhale
keelhaled
keelhales
keelhaling
keelhaul
keelhauled
keelhauling
keelhauls
keeling
keelless
keels
keelson
keelsons
keen
keened
keener
keeners
keenest
keening
keenly
keenness
keennesses
keens
keep
keepable
keeper
keepers
keeping
keepings
keeps
keepsake
keepsakes
keeshond
keeshonden
keeshonds
keester
keesters
keet
keets
keeve
keeves
kef
kefir
kefirs
kefs
keg
kegeler
kegelpers
kegler
keglers
kegling
keglings
kegs
keir
keirs
keister
keisters
keitloa
keitloas
keloid
keloidal
keloids
kelp
kelped
kelpie
kelpies
kelping
kelps
kelpy
kelson
kelsons
kelter
kelters
kelvin
kelvins
ekemp
kemps
kempt
ken
kenaf
kenafs
kench
kenches
kendo
kendos
kenned
kennel
kenneled
kenneling
kennelled
kennelling
kennels
kenning
kennings
keno
kenos
kenosis
kenosises
kenotic
kenotron
kenotrons
kens
kent
kep
kephalin
kephalins
kepi
kepis
kepped
kepen
kepping
keps
kept
keramic
keramics
keratin
killers
killick
killicks
killing
killings
killjoy
killjoys
killock
killocks
kills
kiln
kilned
kilning
kilns
kilo
kilobar
kilobars
kilobit
kilobits
kilocycle
kilocycles
kilogram
kilograms
kilohertz
kilometer
kilometers
kilomole
kilomoles
kilorad
kilorads
kilos
kiloton
kilotons
kilovolt
kilovolts
kilowatt
kilowatts
kilt
kilted
kilter
kilters
kiltie
kilties
kiltering
kilterings
kilt
kilty
kimono
kingbolts
kingcup
kingcups
kingdom
kingdoms
kinged
kingfish
kingfisher
kingfishers
kingfishes
kinghood
kinghoods
kinging
kingless
kinglet
kinglets
kinglier
kingliest
kinglike
kingly
kingpin
kingpins
kingpost
kingposts
kings
kingship
kingships
kingside
kingsides
kingwood
kingwoods
kinin
kinins
kink
kinkajou
kinkajous
kinked
kinkier
kinkiest
kinkily
kinking
kinks
kinky
kino
kinos
kins
kinsfolk
kinship
kinships
kinsman
kinsmen
kinswoman
kinswomen
kiosk
kiosks
kip
kipped
kippen
kipper
kippered
kippering
kippers
kipping
kips
kipskin
kipskins
kirigami
kirigamis
kirk
kirkman
kirkmen
kirks
kirmess
kirmesses
kim
kimed
kiming
kims
kirsch
kirsches
kirtle
kirtled
kirtles
kishka
kishkas
kishke
kishkes
kismat
kismats
kismet
kismetric
kismets
kiss
kissable
kissably
kissed
kivas
kiwi
kiwis
klatch
klatches
klatsch
klatsches
klavern
klaverns
klaxon
klaxons
kleagle
kleagles
kleig
klepht
klephtic
klephts
kleptomania
kleptomaniac
kleptomaniacs
kleptomanias
klieg
klong
klongs
kloof
kloofs
kludge
kludges
klutz
klutzes
klutzier
klutziest
klutzy
klystron
klystrons
knack
knacked
knacker
knacker
knackeries
knackers
knackery
knacking
knacks
knap
knapped
knapper
knappers
knapping
knucklers
knuckles
knucklier
knuckliest
knuckling
knuckly
knur
knurl
knurled
knurlier
knurliest
knurling
knurls
knurly
knurs
koa
koala
koalas
koan
koans
koas
kobold
kobolds
koel
koels
kohl
kohlrabi
kohlrabies
kohls
koine
koines
kokanee
kokanees
kola
kolacky
kolas
kolhoz
kolhozes
kolhozy
kolinski
kolinskies
kolinsky
kolkhos
kolkhoses
kolkhosy
kolkhoz
kolkhozes
kolkhozy
kolkoz
kolkozes
kolkozy
kolo
koles
komatik
komatiks
komondor
komondorock
komondorok
komondors
koodoo
koodoos
kook
kookie
kookier
kookiest
kooks
kooky
kop
kopec
kopecks
kopec
kopek
koph
kophs
kopje
kopjes
koppa
koppas
koppie
koppins
kops
kor
kors
korun
koruna
korunas
koruny
kos
kosher
koshered
koshering
koshers
koss
koto
kotos
kotow
ladleful
ladlefuls
ladler
ladlers
ladles
ladling
ladron
ladrone
ladrones
ladrons
lads
lady
ladybird
ladybirds
ladybug
ladybugs
ladyfish
ladyfishes
ladyhood
ladyhoods
ladyish
ladykin
ladykins
ladylike
ladylove
ladyloves
ladypalm
ladypalms
ladyship
ladyships
laevo
lag
lagan
lagans
lagend
lagends
lager
lagered
lagering
lagers
laggard
laggardly
laggardness
laggardnesses
laggards
lagged
lagger
laggers
laniard
laniards
laniaries
laniary
lanital
lanitals
lank
lanker
lankest
lankier
lankiest
lankily
lankly
lankness
lanknnesses
lanky
lanner
lanneret
lannerets
lanners
lanolin
lanoline
lanolines
lanolins
lanose
lanosities
lanosity
lantana
lantanias
lantern
lanterns
lanthorn
lanthorns
lanugo
lanugos
lanyard
lanyards
lap
lapboard
lapboards
lapdog
lapdogs
lapel
lapelled
lapels
lapful
lapfuls
lapidaries
lapidary
lapidate
lapidated
lapidates
lapidating
lapides
lapidified
lapidifies
lapidify
lapidifying
lapidist
lapidists
lapilli
lapillus
lapin
lapins
lapis
lapises
lapped
lapper
lappered
lappering
lappers
lappet
lappeted
lappets
lapping
laps
lapsable
lapse
lapsed
lapper
lappers
lapses
lapsible
lapsing
lapsus
lapwing
lapwings
lar
larboard
larboards
larcener
larceners
larcenies
larcenous
larceny
larch
larches
lard
larded
larder
larders
lardier
lardiest
larding
lardlike
lardon
lardons
lardoon
lardoons
lards
lardy
lares
large
largely
largeness
largenesses
larger
larges
largess
largesse
largesses
largest
largish
largo
largos
lariat
lariated
lariating
lariats
larine
lark
larked
larker
larkers
larkier
larkiest
larking
larks
larksome
larkspur
larkspurs
larky
larrigan
larrigans
larrikin
larrikins
larrup
larruped
larruper
larrupers
larruping
larrups
lars
larum
larums
larva
larvae
larval
larvas
laryngal
laryngeal
larynges
laryngitis
laryngitises
laryngoscopy
larynx
larynxes
las
lasagna
lasagnas
lasagne
lasagnes
lascar
lascars
lascivious
lasciviousness
lasciviousnesses
lase
lased
laser
lasers
lases
lash
lashed
lasher
lashers
lashes
lashing
lashings
lashins
lashkar
lashkars
latening
latens
latent
latently
latents
later
laterad
lateral
lateraled
lateraling
laterally
laterals
laterite
laterites
latest
latests
latewood
latewoods
latex
latexes
lath
lathe
lathed
lather
lathered
latherer
latherers
lathering
lathers
lathery
lathes
lathier
lathiest
lathing
lathings
laths
lathwork
lathworks
lathy
lati
latices
latigo
latigoes
latigos
latinities
latinity
latinize
latinized
lawn
lawns
lawny
laws
lawsuit
lawsuits
lawyer
lawyerly
lawyers
lax
laxation
laxations
laxative
laxatives
laxer
laxest
laxities
laxity
laxly
laxness
laxnesses
lay
layabout
layabouts
layaway
layaways
layed
layer
layerage
layerages
layered
layering
layerings
layers
layette
layettes
laying
layman
laymen
layoff
layoffs
layout
layouts
layover
layovers
lays
laywoman
laywomen
lazar
lazaret
lazarets
lazars
laze
lazed
lazes
lazied
lazier
lazies
laziest
lazily
laziness
lazinesses
lazing
lazuli
lazulis
lazulite
lazulites
lazurite
lazurites
lazurite
lazy
lazying
lazyish
lazys
lea
leach
leachate
leachates
leached
leacher
leachers
leaches
leachier
leachiest
leaching
leachy
lead
leaded
leaden
leadenly
leader
leaderless
leaders
leadership
leaderships
leadier
leadiest
legless
leglike
legman
legmen
legroom
legrooms
legs
legume
legumes
legumin
leguminous
legumins
legwork
legworks
lehayim
lehayims
lehr
lehrs
lehua
lehuas
lei
leis
leister
leistered
leistering
leisters
leisure
leisured
leisurely
leisures
lek
leks
lekythi
lekythoi
lekythos
lekythus
leman
lemans
lemma
lemmas
lemmata
lemming
lemmings
lemnisci
lemon
lemonade
lemonades
lemonish
lenticels
lentigines
lentigo
lentil
lentils
lentisk
lentisks
lento
lentoid
lentos
leone
leones
leonine
leopard
leopards
leotard
leotards
leper
lepers
lepidote
leporid
leporids
leporine
leprechaun
leprechauns
leprose
leprosies
leprosy
leprotic
leprous
lepta
lepton
leptonic
leptons
lesbian
lesbianism
lesbianisms
lesbians
lesion
lesions
less
lessee
lessees
lessen
lessened
lessening
lessens
lesser
leud
leudes
leuds
leukemia
leukemias
leukemic
leukemics
leukocytosis
leukoma
leukomas
leukon
leukons
leukopenia
leukophoresis
leukoses
leukosis
leukotic
lev
leva
levant
levanted
levanter
levanters
levanting
levants
levator
levatores
levators
levee
leveed
leveeing
levees
level
leveled
leveler
levelers
leveling
levelled
leveller
levellers
levelling
levelly
levelness
levelnesses
levels
lever
leverage
leveraged
lineally
lineaments
linear
linearly
lineate
lineated
linebred
linecut
linecuts
lined
lineless
linelike
lineman
linemen
linen
linens
lineny
liner
liners
lines
linesman
linesmen
lineup
lineups
liney
ling
ingga
lingam
lingams
lingas
lingcod
lingcods
linger
lingered
lingerer
lingerers
lingerie
lingeries
lingering
lingers
lingier
lingiest
lingo
lingoes
lings
lingua
linguae
lingual
lipid
lipide
lipides
lipidic
lipids
lipin
lipins
lipless
liplike
lipocyte
lipocytes
lipoid
lipoidal
lipoids
lipoma
lipomas
lipomata
lipped
lippen
lippened
lippening
lippens
lipper
lippered
lippering
lippers
lippier
lippiest
lipping
lippings
lippy
lipreading
lipreadings
lips
lipstick
lipsticks
liquate
liquated
liquates
liquating
liquefaction
liquefactions
liquefiable
liquefied
liquefier
liquefiers
liquefies
liquefy
litho
lithograph
lithographer
lithographers
lithographic
lithographies
lithographys
lithography
lithoid
lithos
lithosol
lithosols
litigant
litigants
litigate
litigated
litigates
litigating
litigation
litigations
litigious
litigiousness
litigiousnesses
litmus
litmuses
litoral
litotes
litre
litres
lits
litten
litter
littered
litterer
litterers
littering
litters
littery
little
littleness
littlenesses
litter
littles
littlest
littlish
littoral
littorals
litu
liturgic
liturgical
liturgically
liturgies
liturgy
livabilities
livability
livable
live
liveable
lived
livelier
liveliest
livelihood
livelihoods
livelily
liveliness
livelinesses
livelong
lively
liven
livened
livener
liveners
liveness
livenesses
livening
livens
liver
livered
liveries
liverish
livers
livery
liveryman
liverymen
lives
livest
livestock
livestocks
livetrap
livetrapped
livetrapping
livetraps
livid
lividities
lividity
lividly
loess
loessal
loesses
loessial
loft
lofted
lofter
lofters
loftier
loftiest
loftily
loftiness
loftinesses
lofting
loftless
lofts
lofty
log
logan
logans
logarithm
logarithmic
logarithms
logbook
logbooks
loge
loges
loggats
logged
logger
loggerhead
loggerheads
loggers
loggets
loggia
loggias
loggier
loggier
loggiest
logging
loggings
loggy
logia
logic
logical
logically
logician
logicians
longbow
longbows
longe
longed
longeing
longer
longeron
longerons
longers
longes
longest
longevities
longevity
longhair
longhairs
longhand
longhands
longhead
longheads
longhorn
longhorns
longing
longingly
longings
longish
longitude
longitudes
longitudinal
longitudinally
longleaf
longleaves
longline
longlines
longly
longness
longnesses
longs
longship
longships
longshoreman
longshoremen
longsome
longspur
longspurs
longtime
longueur
longueurs
longways
loopiest
looping
loops
loopy
loos
loose
loosed
looseleaf
looseleafs
loosely
loosen
loosened
loosener
looseners
looseness
loosenesses
loosening
loosens
looser
looses
loosest
loosing
loot
looted
looter
looters
looting
loots
lop
lope
loped
loper
lopers
lopes
loping
lopped
lopper
loppered
loppered
lopper
lopping
loppers
loppier
loppiest
lopping
loppy
lops
lopsided
lopsidedly
lopsidedness
louder
loudest
loudest
loudest
loudly
loudness
loudness
loudspeaker
loudspeakers
lough
loughs
louie
louies
louis
lounge
lounged
lounger
loungers
lounges
lounging
loungy
loup
loupe
louped
loupen
loupes
louping
loups
lour
loured
louring
lours
loury
louse
loused
louses
lousier
lousiest
lousily
lousiness
lousinesses
lousing
lousy
lout
lowdown
lowdowns
lowe
lowed
lower
lowercase
lowered
lowering
lowers
lowery
lowes
lowest
lowing
lowings
lowish
lowland
lowlands
lowlier
lowliest
lowlife
lowlifes
lowliness
lowlinesses
lowly
lown
lowness
lownesses
lows
lowse
lox
loxed
loxes
loxing
loyal
loyaler
loyalest
loyalism
loyalisms
loyalist
loyalists
loyally
loyalties
loyalty
lozenge
lozenges
luau
luaus
lubber
lubberly
lubbers
lube
lubes
lubric
lubricant
lubricants
lubricate
lubricated
lubricates
lubricating
lubrication
lubrications
lubricator
lubricators
lucarne
lucarnes
luce
luence
lucences
lucencies
lucency
lucent
lucently
lucern
lucerne
lucernes
lucerns
luces
lucid
lucidities
lucidity
lucidly
lucidness
lucidnesses
lucifer
lucifers
luck
lucked
luckie
luckier
luckies
luckiest
luckily
luckiness
luckinesses
lucking
luckless
lumpfish
lumpfishes
lumpier
lumpiest
lumpily
lumping
lumpish
lumps
lumpy
lums
luna
lunacies
lunacy
lunar
lunarian
lunarians
lunars
lunas
lunate
lunated
lunately
lunatic
lunatics
lunation
lunations
lunch
lunched
luncheon
lunches
luncher
lunchers
lunching
lune
lunes
lunet
lunets
lunette
lunettes
lung
lungan
lungans
lunge
lunged
lungee
lungees
lunger
lungers
lunges
lungfish
lungfishes
lungi
lunging
lungis
lungs
lungworm
lungworms
lungwort
lungworts
lungyi
lungyis
lunier
lunies
luniest
lunk
lunker
lunkers
lunkhead
lunkheads
lunks
lunt
lunted
lunting
lunts
lunula
lunulae
lunular
lunulate
lunule
lunules
luny
lupanar
lupanars
lupin
lupine
lupines
lupins
lupous
lupulin
lupulins
lupus
lupuses
lurch
lurched
lurcher
lurchers
lustral
lustrate
lustrated
lustrates
lustrating
lustre
lustred
lustres
lustering
lustrings
lustrous
lustrum
lustrums
lusts
lusty
lusus
lususes
lutamist
lutamists
lute
lutea
luteal
lutecium
luteciums
luted
lutein
luteins
lutumist
lutumists
luteolin
luteolins
luteous
lutes
lutetium
lutetiums
luteum
luthern
lutherns
luting
lutings
lutist
lutists
lux
luxate
luxated
luxates
luxating
luxation
lymphomata
lymphs
lyncean
lynch
lynched
lyncher
lynchers
lynches
lynching
lynchings
lynx
lynxes
lyophile
lyrate
lyrated
lyrately
lyre
lyrebird
lyrebirds
lyres
lyric
lyrical
lyricise
lyricised
lyricises
lyricising
lyricism
lyricisms
lyricist
lyricists
lyricize
lyricized
lyricizes
lyricizing
lyrics
lyriform
lyrism
lyrisms
lyrist
lyrists
lysate
lysates
lyse
lysed
lyses
lysine
lysines
lysing
lysins
lysis
lysogen
lysogenies
lysogens
lysogeny
lysosome
lysosomes
lysozyme
lysozymes
lyssa
lyssas
lytic
lytta
lyttae
lyttas
ma
maar
maars
mac
macaber
macabre
macaco
macacos
macadam
macadamize
macadamized
macadamizes
macadamizing
macadams
macaque
macaques
macaroni
macaronies
macaronis
macaroon
macaroons
macaw
macaws
maccabaw
maccabaws
maccaboy
maccaboys
macchia
macchie
macchie
maccoboy
maccoboys
mace
maced
macer
macerate
macerated
macerates
macerating
macers
maces
mach
machete
machetes
machinate
machinated
machinates
machinating
machination
machinations
machine
machineable
machined
machineries
machinery
machines
machining
machinist
machinists
machismo
machismos
macho
machos
machree
machrees
machs
machzor
machzorim
machzors
macing
mack
mackerel
mackerels
mackinaw
mackinaws
mackle
mackled
mackles
mackling
macks
magnolias
magnum
magnums
magot
magots
magpie
magpies
mags
maguey
magueys
magus
maharaja
maharajas
maharani
maharanis
mahatma
mahatmas
mahjong
mahjongg
mahjonggs
mahjongs
mahoe
mahoes
mahogonies
mahogany
mahonia
mahonias
mahout
mahouts
mahuang
mahuangs
mahzor
mahzorim
mahzors
maid
maiden
maidenhair
maidenhairs
maidenhood
maidenhoods
maidenly
maidens
maidhood
maidhoods
maidish
maids
maieutic
maigre
mainstreams
maintain
maintainabilities
maintainability
maintainable
maintainance
maintainances
maintained
maintaining
maintains
maintenance
maintenances
maintop
maintops
maiolica
maiolicas
mair
mairs
maist
maists
maize
maizes
majagua
majaguas
majestic
majesties
majesty
majolica
majolicas
major
majordomo
majordomos
majored
majoring
majorities
majority
majors
makable
makar
makars
make
makeable
makebate
makebates
makefast
makefasts
maker
makers
maledicted
maledicting
malediction
maledictions
maledicts
malefactor
malefactors
malefic
maleficence
maleficiences
maleficent
malemiut
malemiuts
malemute
malemuter
maleness
malenesses
males
malevolence
malevolences
malevolent
malfeasance
malfeasances
malfed
malformation
malformations
malformed
malfunction
malfunctioned
malfunctioning
malfunctions
malgre
malic
malice
malices
malicious
maliciously
malign
malignancies
malignancy
malignant
malignantly
maligned
maligner
maligners
maligning
malignities
malignity
malignly
maligns
malihini
malihinis
maline
malines
maligner
malingered
malignerer
malignerers
malignering
malingers
malison
malisons
malkin
malkins
mall
mallard
mallards
malleabilities
malleability
malleable
malled
mallee
mallees
mallei
malleoli
mallet
mallets
malleus
malling
mallow
mallow
mallows
malls
malm
malmier
malmiest
malms
malmsey
malmseys
malmy
malnourished
malnutrition
malnutritions
malodor
malodorous
malodorously
malodorousness
malodorousnesses
malodors
malposed
malpractice
malpractices
malt
maltase
maltases
malted
maltha
malthas
maltier
maltiest
malting
maltol
maltols
maltose
maltoses
maltreat
maltreated
maltreating
maltreatment
maltreatments
maltreats
malts
maltster
maltsters
malty
malvasia
malvasias
mama
mamas
mamba
mambas
mambo
mamboed
mamboes
mamboing
mambos
mameluke
mamelukes
mamey
mameyes
mameys
mamie
mamies
mamluk
mamluks
mandrake
mandrakes
mandrel
mandrels
mandril
mandrill
mandrills
mandrils
mane
maned
manege
maneges
maneless
manes
maneuver
maneuverabilities
maneuverability
maneuvered
maneuvering
maneuvers
manful
manfully
mangabey
mangabeys
mangabies
mangaby
manganese
manganese
manganesian
manganic
mange
mangel
mangels
manger
mangers
manges
mangey
mangier
mangiest
mangily
mangle
mangled
mangler
manglers
mangles
mangling
mango
mangoes
mangold
mangolds
mangonel
mangonels
mango
mangrove
mangroves
mangi
manhandle
manhandled
manhandles
manhandling
manhole
manholes
manhood
manhoods
manhunt
manhunts
mania
maniac
maniacy
maniacs
manias
manic
manics
manicure
manicured
manicures
manicuring
manicurist
manicurists
manifest
manifestation
manifestations
manifested
manifesting
manifestly
manifesto
manifestos
manifests
manifold
manifolded
manifolding
manifolds
manihot
manihots
manikin
manikins
manila
manilas
manilla
manillas
manille
manilles
manioc
manioca
maniocas
maniocs
maniple
maniples
manipulate
manipulated
manipulates
manipulating
manipulation
manipulations
manipulative
manipulator
manipulators
manito
manitos
manitou
manitous
manitu
manitus
mankind
manless
manlier
manliest
manlike
manlily
manly
manmade
manna
manna
manned
manner
mannered
mannerism
mannerisms
mannerliness
mannerlinesses
mannerly
manners
mannikin
mannikins
manning
mannis
mannisly
mannisness
mannisnesses
mannite
mannites
mannitic
mannitol
mannitols
mannose
mannoses
mano
manor
manorial
manorialism
manorialisms
manors
manos
manpack
manpower
manpowers
manque
manrope
manropes
mans
mansard
mansards
manse
manservant
manses
mansion
mansions
manslaughter
manslaughters
manta
mantas
manteau
manteaus
manteaux
mantel
mantelet
mantelets
mantels
marmots
maroon
marooned
marooning
maroons
marplot
marplots
marque
marquee
marquees
marques
marquess
marquesses
marquis
marquise
marquises
marram
marrams
marred
marrer
marrers
marriage
marriageable
marriages
married
marrieds
marrier
marriers
marries
marring
marron
marrons
marrow
marrowed
marrowing
marrows
marrowy
marry
marrying
mars
marse
marses
marsh
marshal
marshaled
marshaling
marshall
marshalled
marshalling
marshalls
marshals
marshes
marshier
marshiest
marshmallow
marshmallows
marshy
marsupia
marsupial
marsupials
mart
martagon
martagons
marted
martello
martellos
marten
martens
martial
martian
martians
martin
martinet
martinet
marting
martini
martinis
martins
martlet
martlets
marts
martyr
martyrdom
martyrdoms
martyred
martyries
martyring
martyry
martyrs
martyry
marvel
marveled
marveling
marvelled
marvellings
marvellous
massive
massiveness
massivenesses
massless
masslessness
masslessnesses
massy
mast
mastaba
mastabah
mastabahs
mastabas
mastectomies
mastectomy
masted
master
mastered
masterful
masterfully
masteries
mastering
masterly
mastermind
masterminds
masters
mastership
masterships
masterwork
masterworks
mastery
masthead
mastheaded
mastheading
mastheads
mastic
masticate
masticated
masticates
masticating
mastication
mastications
mastiche
mastiches
mastics
mastiff
mastiffs
masting
mastitic
materialized
materializes
materializing
materially
materials
materiel
materiels
maternal
maternally
maternities
maternity
maters
mates
mateship
mateships
matey
mateys
math
mathematical
mathematically
mathematician
mathematicians
mathematics
maths
matilda
matildas
matin
matinal
matinee
matinees
matiness
matinesses
mating
matings
matins
matless
matrass
matrasses
matres
matriarch
matriarchal
matriarches
matriarchies
matriarchy
matrices
matricidal
matricide
matricides
mature
matured
maturely
maturer
matures
maturest
maturing
maturities
maturity
matza
matzah
matzahs
matzahs
matzo
matzoh
matzohs
matzoon
matzoons
matzos
matzot
matzoth
maudlin
mauger
maugre
maul
mauled
mauler
maulers
mauling
mauls
maumet
maumetries
maumetry
maumets
maun
maund
maunder
maundered
maundering
maunders
maundies
maunds
maundy
mausolea
mausoleum
mausoleums
maut
mauts
mauve
mauves
maven
mavens
maverick
mavericks
mavie
mavies
mavin
mavins
mavis
mavises
maw
mawed
mawing
mawkish
mawkishly
mawkishness
mawkishnesses
mawn
maws
maxi
maxicoat
maxicoats
maxilla
maxillae
maxillas
maxim
maxima
maximal
maximals
maximin
maximins
maximise
maximised
maximises
maximising
maximate
maximites
maximize
maximized
maximizes
maximizing
maxims
maximum
maximums
maxis
maxixe
medicinal
medically
medicine
medicated
medicines
medicining
medick
medicks
medico
medicos
medics
medieval
medievalism
medievalisms
medievalist
medievalists
medievals
medi
mediocre
mediocrities
mediocrity
meditate
meditated
meditates
meditating
meditation
meditations
meditative
meditatively
medium
mediums
medius
medlar
medlars
medley
medleys
medulla
medullae
medullar
medullas
medusa
medusae
medusan
medusans
medusas
medusoid
medusoids
meed
menarches
mend
mendable
mendacious
mendaciously
mendacities
mendacity
mended
mendelson
mender
menders
mendicancies
mendicancy
mendicant
mendicants
mendigo
mendigos
mending
mendings
mends
menfolk
menfolks
menhaden
menhadens
menhir
menhirs
menial
menially
menials
meninges
meningitides
meningitis
meninx
meniscal
menisci
meniscus
meniscuses
meno
menologies
menology
menopausal
menopause
menopauses
menorah
menorahs
mensa
mensae
mensal
mensas
mensch
menschen
mensches
mense
mensed
menseful
menservants
menses
mensing
menstrua
menstrual
menstruate
menstruated
menstruates
menstruating
menstruation
menstruations
mensural
menswear
menswears
menta
mental
mentalities
mentality
mentally
menthene
menthenes
menthol
mentholated
menthols
mention
mentioned
mentioning
mentions
mentor
mentors
mentum
menu
menus
meow
meowed
meowing
meows
mephitic
mephitis
mephitises
mercantile
mercapto
mercenaries
mercenarily
mercenariness
mercenarinesses
mercenary
mercer
merceries
mercers
mercery
merchandise
merchandised
merchandiser
merchandisers
merchandises
merchandising
merchant
merchanted
merchancing
merchants
mercies
merciful
mercifully
merciless
mercilessly
mercurial
mercurially
mercurialness
mercurialnesses
mercuric
mercuries
mercurous
mercury
mercy
mere
merely
merengue
merengues
merer
meres
merest
merge
merged
mergence
mergences
merger
mergers
merges
merging
meridian
meridians
meringue
meringues
merino
merinos
merises
merisis
meristem
meristems
meristic
merit
merited
meriting
meritorious
meritoriously
meritoriousness
meritoriousnesses
merits
merk
merks
merl
merle
merles
merlin
merlins
merlon
merlons
merls
mermaid
mermaids
merman
mermen
meropia
meropias
meropic
merrier
merriest
merrily
merriment
merriments
merry
merrymaker
merrymakers
merrymaking
merrymakings
mesa
<table>
<thead>
<tr>
<th>Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>mesally</td>
</tr>
<tr>
<td>mesarch</td>
</tr>
<tr>
<td>mesas</td>
</tr>
<tr>
<td>mescal</td>
</tr>
<tr>
<td>mescals</td>
</tr>
<tr>
<td>mesdames</td>
</tr>
<tr>
<td>mesdemoiselles</td>
</tr>
<tr>
<td>meseemed</td>
</tr>
<tr>
<td>meseems</td>
</tr>
<tr>
<td>mesh</td>
</tr>
<tr>
<td>meshed</td>
</tr>
<tr>
<td>meshes</td>
</tr>
<tr>
<td>meshier</td>
</tr>
<tr>
<td>meshiest</td>
</tr>
<tr>
<td>meshing</td>
</tr>
<tr>
<td>meshwork</td>
</tr>
<tr>
<td>meshworks</td>
</tr>
<tr>
<td>meshy</td>
</tr>
<tr>
<td>mesial</td>
</tr>
<tr>
<td>mesially</td>
</tr>
<tr>
<td>mesian</td>
</tr>
<tr>
<td>mesic</td>
</tr>
<tr>
<td>mesmeric</td>
</tr>
<tr>
<td>mesmerism</td>
</tr>
<tr>
<td>mesmerisms</td>
</tr>
<tr>
<td>meserize</td>
</tr>
<tr>
<td>mesmerized</td>
</tr>
<tr>
<td>mesmerizes</td>
</tr>
<tr>
<td>mesmerizing</td>
</tr>
<tr>
<td>msnalties</td>
</tr>
<tr>
<td>msnalty</td>
</tr>
<tr>
<td>mesne</td>
</tr>
<tr>
<td>mesocarp</td>
</tr>
<tr>
<td>mesocarps</td>
</tr>
<tr>
<td>mesoderm</td>
</tr>
<tr>
<td>mesoderms</td>
</tr>
<tr>
<td>mesoglea</td>
</tr>
<tr>
<td>mesogleas</td>
</tr>
<tr>
<td>mesomere</td>
</tr>
<tr>
<td>mesomerres</td>
</tr>
<tr>
<td>meson</td>
</tr>
<tr>
<td>mesonic</td>
</tr>
<tr>
<td>mesons</td>
</tr>
<tr>
<td>mesophyl</td>
</tr>
<tr>
<td>mesophyls</td>
</tr>
<tr>
<td>mesosome</td>
</tr>
<tr>
<td>mesosomes</td>
</tr>
<tr>
<td>mesotron</td>
</tr>
</tbody>
</table>
metabolizes
metabolizing
metage
metages
metal
metaled
metaling
metalise
metalised
metalises
metalising
metalist
metalists
metalize
metalized
metalizes
metalizing
metalled
metallic
metalling
metallurgical
metallurgically
metallurgies
metallurgist
metallurgists
metallurgy
metals
metalware
metalwares
metalwork
metalworker
metalworkers
metalworking
metalworkings
metalworks
metamer
metamere
metameres
metamers
metamorphose
metamorphosed
metamorphoses
metamorphosing
metamorphosis
metaphor
metaphorical
metaphors
metaphysical
metaphysician
metaphysicians
metaphysics
metastases
metastatic
metate
metates
metazoa
metazoal
metazoan
metazoans
metazoic
metazon
mete
meted
meteor
meteoric
meteorically
meteorite
meteorites
meteoritic
meteorological
meteorologies
meteorologist
meteorologists
meteorology
meteors
metepa
metepas
meter
meterage
meterages
metered
metering
meters
metes
methadon
methadone
methadones
methadons
methane
methanes
methanol
methanols
methinks
method
methodic
methodical
methodically
methodicalness
methodicalnesses
methodological
methodologies
methodology
methods
methotrexate
methought
methoxy
methoxyl
methyl
methylal
methylals
methylic
methyls
meticulous
meticulously
meticulousness
meticulousnesses
metier
metiers
meting
metis
metisse
metisses
metonym
metonymies
metonymies
metonymy
metopae
meto
tetopes
metopic
metophon
metopons
metre
metred
metres
metric
metrical
metrically
metrication
metrications
metrics
metrified
metrifies
metrify
metrifying
metring
metrist
metrists
metritis
metritisises
metro
metronome
metronomes
metropolis
metropolises
metropolitan
metros
mettle
mettled
mettles
mettlesome
metump
metumps
meuniere
mew
mewed
mewing
mewl
mewled
mewler
mewlers
mewling
mewls
mews
mezcal
mezcals
mezerelon
mezerelons
mezerelum
mezerelums
mezquit
mezquite
mezquites
mezquites
mezuzar
mezuzah
mezuzas
mezuzot
mezuzoth
mezzanine
mezzanines
micrifies
micrify
micrifying
micro
microbar
microbars
microbe
microbes
microbial
microbic
microbiological
microbiologies
microbiologist
microbiologists
microbiology
microbus
microbuses
microbusses
microcomputer
microcomputers
microcosm
microfilm
microfilmed
microfilming
microfilms
microhm
microhms
microluces
microlux
microluxes
micrometer
micrometers
micromho
micromhos
microminiature
microminiatures
microminiaturization
microminiaturizations
microminiaturized
micron
microns
microorganism
microorganisms
microphone
microphones
microscope
microscopes
microscopic
minuscule
minuses
minute
minuted
minutely
minuteness
minutenesses
minuter
minutes
minutest
minutia
minutiae
minutial
minuting
minx
minxes
minxish
minyan
minyanim
minyans
mioses
miosis
miotic
miotics
miquelet
miquelets
mir
miracle
miracles
miraculous
miraculously
mirador
miradors
mirage
mirages
mire
mired
mires
mirex
mirexes
miri
mirier
miriest
miriness
mirinesses
miring
mirk
mirker
misanthrope
misanthropes
misanthropic
misanthropies
misanthropy
misapplied
misapplies
misapply
misapplying
misapprehend
misapprehended
misapprehending
misapprehends
misapprehension
misapprehensions
misappropriate
misappropriated
misappropriates
misappropriating
misappropriation
misappropriations
misassay
misassayed
misassaying
misassays
misate
misatone
misatoned
misatones
misatoning
misaver
misaverred
misaverring
misavers
misaward
misawarded
mis awarding
misawards
misbegan
misbegin
misbeginning
misbegins
misbegot
misbegun
misbehave
misbehaved
misbehaver
misbehavers
misbehaves
misbehaving
misbehavior
misbehaviors
misbias
misbiased
misbiases
misbiasing
misbiassed
misbiasses
misbiassing
misbill
misbilled
misbilling
misbills
misbind
misbinding
misbinds
misbound
misbranded
misbranding
misbrands
misbuild
misbuilding
misbuilds
misbuilt
miscalculate
miscalculated
miscalculates
miscalculating
miscalculation
miscalculations
miscall
miscalled
miscalling
miscalls
miscarriage
miscarriages
miscarried
miscarries
miscarry
miscarrying
miscast
miscasting
miscalts
miscastings
miscast
miskal
miskals
miskeep
miskeeping
miskeeps
misked
misknew
misknewing
misknown
misknows
mislabeled
mislabeled
mislabelling
mislabelling
mislabeled
mislabel
mislabeled
mislabeling
mislabelled
mislabelling
mislabels
mislabor
mislabored
mislaboring
mislabors
mislaid
mislain
mislain
mislay
mislayers
mislaying
mislays
misead
miseading
miseadingly
miseseads
miselearn
miselearned
miselearning
miselearns
miselearnt
mised
misele
miseles
mislight
mislighted
mislighting
mislights
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
mise
misknow
mislikes
misliking
mislit
mislive
mislived
mislives
misliving
mislodge
mislodged
mislodges
mislodging
mislying
mismanage
mismanaged
mismanagement
mismanagements
mismanages
mismanaging
mismark
mismarked
mismarking
mismarks
mismatch
mismatched
mismatches
mismatching
mismate
mismated
mismates
mismating
mismeet
mismeeting
mismeets
mismet
mismove
mismoved
mismoves
mismoving
misname
misnamed
misnames
misnaming
misnomer
misnomers
miso
misogamies
misogamy
misogynies
misrepresentations
misrepresented
misrepresenting
misrepresents
misrule
misruled
misrules
misruling
miss
missaid
missal
missals
missay
missaying
missays
misseat
misseated
misseating
misseats
missed
missel
missels
missend
missending
missends
missense
missenses
missent
misses
misshape
misshaped
misshapen
misshapes
misshaping
misshod
missies
missile
missiles
missilries
missilry
missing
mission
missionaries
missionary
missioned
missioning
missions
missis
missises
missive
missives
missort
missorted
missorting
missorts
missound
missounded
missounding
missounds
missout
missouts
misspace
misspaced
misspaces
misspacing
misspeak
misspeaking
misspeaks
misspell
misspelled
misspelling
misspellings
misspells
misspelt
misspend
misspending
misspends
misspent
misspoke
missspoken
misstart
misstarted
misstarting
misstarts
misstate
misstated
misstatement
misstatements
misstates
misstating
missteer
missteered
missteering
missteers
misstep
missteps
mists
mistune
mistuned
mistunes
mistuning
mistutor
mistutored
mistutoring
mistutors
misty
mistype
mistyped
mistypes
mistyping
misunderstand
misunderstood
misunderstanding
misunderstandings
misunderstands
misunion
misunions
misusage
misusages
misuse
misused
misuser
misusers
misuses
misusing
misvalue
misvalued
misvalues
misvaluing
misword
misworded
miswording
miswords
miswrit
miswrite
miswrites
miswriting
miswritten
miswrote
misyoke
misyoked
misyokes
misyoking
mite
momisms
momma
mommas
mommies
mommy
moms
momus
momuses
mon
monachal
monacid
monacids
monad
monadal
monades
monadic
monadism
monadisms
monads
monandries
monandry
monarch
monarchic
monarchical
monarchies
monarchs
monarchy
monarda
monardas
monas
monasterial
monasteries
monastery
monastic
monastically
monasticism
monasticisms
monastics
monaural
monaxial
monazite
monazites
monde
mondes
mondo
mondos
monecian
monetary
monodists
monody
monoeeties
monoeey
monofil
monofils
monofuel
monofuels
monogamic
monogamies
monogamist
monogamists
monogamous
monogamy
monogenies
monogeny
monogerm
monogram
monogrammed
monograming
monogrammed
monogramming
monograms
monograph
monographs
monogynies
monogyny
monolingual
monolith
monolithic
monoliths
monolog
monologies
monologist
monologists
monologs
monologue
monologues
monologuist
monologuists
monology
monomer
monomers
monomial
monomials
mononucleosis
mononucleosises
monopode
monsoonal
monsoons
monster
monsters
monstrosities
monstrosity
monstrously
montage
montaged
montages
montaging
montane
montanes
monte
monteith
monteiths
montero
monteros
montes
month
monthlies
monthly
months
monument
monumental
monumentally
monuments
monuron
monurons
mony
moo
mooch
mooched
moocher
moochers
mooches
mooching
mood
moodier
moodiest
moodily
moodiness
moodinesses
moods
moody
mooed
mooing
mool
moola
moolah
moolahs
moolas
mooley
mooleys
mools
moon
moonbeam
moonbeams
moonbow
moonbows
mooncalf
mooncalves
mooned
mooneye
mooneyes
moonfish
moonfishes
moonier
mooniest
moonily
mooning
moonish
moonless
moonlet
moonlets
moonlight
moonlighted
moonlighter
moonlighters
moonlighting
moonlights
moonlike
moonlit
moonrise
moonrises
moons
moonsail
moonsails
moonseed
moonseeds
moonset
moonsets
moonshine
moonshines
moonshot
moonshots
morbidness
morbidnesses
morbific
morbilli
morceau
morceaux
mordancies
mordancy
mordant
mordanted
mordanting
mordantly
mordants
mordent
mordents
more
moreen
moreens
morel
morelle
morelles
morello
morellos
morels
moreover
mores
moeresque
moeresques
morgen
morgens
morgue
morgues
moribund
moribundities
moribundity
morion
morions
morn
morning
mornings
morns
morocco
moroccos
moron
moronic
moronically
moronism
moronisms
moronities
moronity
morons
morose
morosely
moroseness
morosenesses
morosities
morosity
morph
morpheme
morphemes
morphia
morphias
morphic
morphin
morphine
morphines
morphins
morpho
morphologic
morphologically
morphologies
morphology
morphos
morphs
morriion
morrians
morris
morrises
morro
morros
morrow
morrows
mors
morsel
morseled
morseling
morselled
morselling
morsels
mort
mortal
mortalities
mortality
mortally
mortals
mortar
mortared
mortaring
mortars
mortary
mortgage
mortgaged
mortgagee
mortgagees
mortgages
mortgaging
mortgagor
mortgagors
mortice
morticed
mortices
morticing
mortification
mortifications
mortified
mortifies
mortify
mortifying
mortise
mortised
mortiser
mortisers
mortises
mortising
mortmain
mortmains
morts
mortuaries
mortuary
morula
morulae
morular
morulas
mosaic
mosaicked
mosaicking
mosaics
moschate
mosey
moseyed
moseying
moseys
moshav
moshavim
mosk
mosks
mosque
mosques
mosquito
mosquitoes
mosquitos
moss
mossback
mossbacks
mossed
mosser
mossers
mosses
mossier
mossiest
mossing
mosslike
mosso
mossy
most
moste
mostly
mosts
mot
mote
motel
motels
motes
motet
motets
motev
moth
mothball
mothballed
mothballing
mothballs
mother
mothered
motherhood
motherhoods
mothering
motherland
motherlands
motherless
motherly
mothers
motherly
motorbus
motorbuses
motorbusses
motorcar
motorcars
motorcycle
motorcycles
motorcyclist
motorcyclists
motored
motoric
motoring
motorings
motorise
motorised
motorises
motorising
motorist
motorists
motorize
motorized
motorizes
motorizing
motorman
motormen
motors
motortruck
motortrucks
motorway
motorways
mots
mott
motte
mottes
mottle
mottled
mottler
mottlers
mottles
mottling
motto
mottoes
mottos
motts
mouch
mouched
mouches
mouching
mridanga
mridangas
mu
much
muches
muchness
muchnesses
mucic
mucid
mucidities
mucidity
mucilage
mucilages
mucilaginous
mucin
mucinoid
mucinous
mucins
muck
mucked
mucker
muckers
muckier
muckiest
muckily
mucking
muckle
muckles
muckluck
mucklucks
muckrake
muckraked
muckrakes
muckraking
mucks
muckworm
muckworms
mucky
mucluc
muclucs
mucoid
mucoidal
mucoids
mucor
mucors
mucosa
mucosae
mucosal
mullets
mulley
mulleys
mulligan
mulligans
mulling
mullion
mullioned
mullioning
mullions
mullite
mullites
mullock
mullocks
mullocky
mulls
multiarmed
multibarreled
multibillion
multibranchied
multibuilding
multicenter
multichambered
multichannel
multicolored
multicounty
multicultural
multidenominational
multidimensional
multidirectional
multidisciplinary
multidiscipline
multidivisional
multidwelling
multifaceted
multifamily
multifarous
multifarously
multifid
multifilament
multifunction
multifunctional
multigrade
multiheaded
multihospital
multihued
multijet
multilane
multilateral
multilevel
multilingual
multilingualism
multilingualisms
multimedia
multimember
multimillion
multimillionaire
multimodalities
multimodality
multipart
multipartite
multiparty
multiped
multipeds
multipant
multiple
multiples
multiplexor
multiplexors
multiplication
multiplications
multiplicities
multiplicity
multiplied
multiplier
multipliers
multiplies
multiply
multiplying
multipolar
multiproblem
multiproduct
multipurpose
multiracial
multiroomed
multisense
multiservice
multisided
multispeed
multistage
multistep
multistory
multisyllabic
multitalented
multitrack
multitude
multitudes
multitudinous
multiunion
multilunit
multivariate
multiwarhead
multiyear
multure
multures
mum
mumble
mumbled
mumbler
mumblers
mumbles
mumbling
mumbo
mumm
mummed
mummer
mummeries
mummers
mummery
mummied
mummies
mummification
mummifications
mummified
mummifies
mummify
mummifying
mumming
mumms
mummy
mummying
mump
mumped
mumper
mumpers
mumping
mumps
mums
mun
munch
munched
muncher
munchers
munches
munching
mundane
mundanely
mundungo
mundungos
munge
mungo
mungoose
mungooses
mungos
mungs
municipal
municipalities
municipality
municipally
munificence
munificences
munificent
muniment
muniments
munition
munitioned
munitioning
munitionings
munnion
munnions
muns
munster
munsters
muntin
munting
muntings
muntins
muntjac
muntjacs
muntjak
muntjaks
muon
muonic
muons
mura
muraenid
muraenids
mural
muralist
muralists
murals
murals
murder
murdered
murderee
murderees
murderer
murderers
murderess
murderesses
murdering
murderous
murderously
murders
mure
mured
murein
mureins
mures
murex
murexes
muriate
muriated
muriates
muricate
murices
murid
murids
murine
murines
muring
murk
murker
murkest
murkier
murkiest
murkily
murkiness
murkinesses
murkly
murks
murky
murmur
murmured
murmurer
murmurers
murmuring
murmurous
murmurs
murphies
mutined
mutineer
mutineered
mutineering
mutineers
mutines
muting
mutinied
mutinies
mutining
mutinous
mutinously
mutiny
mutinying
mutism
mutisms
muts
mutt
mutter
muttered
mutterer
mutterers
muttering
mutters
mutton
muttons
muttony
mutts
mutual
mutually
mutuel
mutuels
mutular
mutule
mutules
muumu
muumuus
muzhik
muzhiks
muzik
muzjiks
muzzle
muzzier
muzziest
muzzily
muzzler
muzzlers
muzzles
muzzling
muzzy
my
myalgia
myalgias
myalgic
myases
myasis
mycele
myceles
mycelia
mycelial
mycelian
mycelium
myceloid
mycetoma
mycetomas
mycetomata
mycologies
mycology
mycoses
mycosis
mycotic
myelin
myeline
myelines
myelicin
myelins
myelitides
myelitis
myeloid
myeloma
myelomas
myelomata
myelosuppression
myelosuppressions
myiases
myiasis
mylonite
mylonites
myna
mynah
mynahs
mynas
mynheer
mynheers
myoblast
myoblasts
myogenic
myograph
myographs
myoid
myologic
myologies
myology
myoma
myomas
myomata
myopathies
myopathy
myope
myopes
myopia
myopias
myopic
myopically
myopies
myopy
myoscope
myoscopes
myoses
myosin
myosins
myosis
myosote
myosotes
myosotis
myosotises
myotic
myotics
myotome
myotomes
myotonia
myotonias
myotonic
myriad
myriads
myriapod
myriapods
myrica
myricas
myriopod
myriopods
myrmidon
myrmidons
nazifying
nazis
neap
neaps
near
nearby
neared
nearer
nearest
nearing
nearlier
nearest
nearly
nearness
nearnesses
nears
nearsighted
nearsightedly
nearsightedness
nearsightednesses
neat
neaten
neatened
neatening
neatens
neater
neatest
neath
neatherd
neatherds
neatly
neatness
neatnesses
neats
neb
nebbish
nebbishes
nebs
nebula
nebulae
nebular
nebulas
nebule
nebulise
nebulised
nebulises
nebulising
nebulize
necrosis
necrotic
nectar
nectaries
nectarine
nectarines
nectars
nectary
nee
need
needed
needler
needlers
needful
needfuls
needier
neediest
needy
needlessly
needle
needled
needlepoint
needlepoints
needler
needlers
needles
needless
needlessly
needlework
needleworks
needling
needlings
needs
needy
neem
neems
neep
neeps
nefarious
nefariouses
nefariously
negate
negated
negater
negaters
negates
negating
negation
neighboring
neighborliness
neighborlinesses
neighborly
neighbors
neighed
neighing
neighs
neist
neither
nekton
nektonic
nektons
nelson
nelsons
nelumbo
nelumbos
nema
nemas
nematic
nematode
nematodes
nemeses
nemesis
nene
neolith
neoliths
neologic
neologies
neologism
neologisms
neology
neomorph
neomorphs
neomycin
neomycins
neon
neonatal
neonate
neonates
neoned
neons
neophyte
neophytes
neoplasm
neoplasms
neoprene
neoprenes
nitros
nitroso
nitrosurea
nitrosyl
nitrosyls
nitrous
nits
nittier
nittiest
nitty
nitwit
nitwits
nival
niveous
nix
nixed
nixes
nixie
nixies
nixing
nixy
nizam
nizamate
nizamates
nizams
no
nob
nobbier
nobbiest
nobbily
noble
nobbled
nobbler
nobbler
nobbler
nobbles
noblin
nobby
nobilium
nobiliums
nobilities
nobility
noble
nobleman
noblemen
nobleness
noblenesses
noblere
nobled
noblesse
noblesses
noblest
nobly
nobodies
nobody
nobs
nocent
nocc
nocked
nocking
nocks
noctuid
noctuids
noctule
noctules
noctuoid
nocturnal
nocturne
nocturnes
nocturns
nocuous
nod
nodal
nodalities
nodality
nodally
nodded
nodder
nodders
noddies
nodding
noddle
noddled
noddles
noddling
noddly
node
nodes
nodi
nodical
nodose
nodosities
nodosity
nodous
nods
nodular
nodule
nodules
nodulose
nodulous
nodus
noel
noels
noes
noesis
noesises
noetic
nog
nogg
noggin
nogging
noggings
noggins
noggs
nogs
noh
nohes
nohow
noil
noils
noily
noir
noise
noised
noisemaker
noisemakers
noises
noisier
noisiest
noisily
noisiness
noisinesses
noising
noisome
noisy
nolo
nolos
nom
noma
nomad
nomadic
nomadism
nomadisms
nomads
nomarch
nomarchies
nomarchs
nomarchy
nomas
nombles
nombril
nombrils
nome
nomen
nomenclature
nomenclatures
nomes
nomina
nominal
nominally
nominals
nominate
nominated
nominates
nominating
nomination
nominations
nominative
nominatives
nominee
nominees
nomism
nomisms
nomistic
nomogram
nomograms
nomoi
nomologies
nomology
nomos
noms
nona
nonabrasive
nonabsorbent
nonacademic
nonaccredited
nonacid
nonacids
nonaddictive
nonadherence
nonadherences
nonadhesive
noncombustible
noncommercial
noncommittal
noncommunicable
noncompliance
noncompliances
noncoms
nonconclusive
nonconductor
nonconductors
nonconflicting
nonconforming
nonconformist
nonconformists
nonconsecutive
nonconstructive
nonconsumable
noncontagious
noncontributing
noncontrollable
noncontroversial
noncorrosive
noncriminal
noncritical
noncumulative
nondairy
nondeductible
nondefense
nondeferrable
nondegradable
nondeliveries
nondelivery
nondemocratic
nondenominational
nondescript
nondestructive
nondiscrimination
nondiscriminations
nondiscriminatory
none
nondeducational
nonego
nonegos
nondelastic
nonelect
nonelected
nonelective
nonhuman
donideal
donindustrial
donindustrialized
doninfectious
doninflationary
donintegrated
donintellectual
doninterference
donintoxicating
noninvolvement
noninvolvements
nonionic
nonjuror
nonjurors
nonlegal
nonlethal
nonlife
nonliterary
nonlives
nonliving
nonlocal
nonlocals
nonmagnetic
nonmalignant
nonman
nonmedical
nonmember
nonmembers
nonmen
nonmetal
nonmetallic
nonmetals
nonmilitary
nonmodal
nonmoney
nonmoral
nonmusical
nonnarcotic
nonnative
nonnaval
nonnegotiable
nonobese
nonobjective
nonobservance
nonobservances
nonorthodox
nonowner
nonowners
nonpagan
nonpagans
nonpapal
nonpar
nonparallel
nonparametric
nonpareil
nonpareils
nonparticipant
nonparticipants
nonparticipating
nonpartisan
nonpartisans
nonparty
nonpaying
nonpayment
nonpayments
nonperformance
nonperformances
nonperishable
nonpermanent
nonperson
nonpersons
nonphysical
nonplus
nonplused
nonpluses
nonplusing
nonplussed
nonplusses
nonplussing
nonpoisonous
nonpolar
nonpolitical
nonpolluting
nonporous
nonpregnant
nonproductive
nonprofessional
nonprofit
nonproliferation
nonproliferations
nonpros
nonprossed
nonprosses
nonprossing
nonquota
nonracial
nonradioactive
nonrated
nonrealistic
nonrecoverable
nonrecurring
nonrefillable
nonrefundable
nonregistered
nonreligious
nonrenewable
nonrepresentative
nonresident
nonresidents
nonresponsive
nonrestricted
nonreusable
nonreversible
nonrigid
nonrival
nonrivals
nonroyal
nonrural
nonscheduled
nonscientific
nonscientist
nonscientists
nonsegregated
nonsense
nonsenses
nonsensical
nonsensibly
nonexist
nonsexual
nonsignificant
nonsked
nonskeds
nonskid
nonskier
nonskiers
nonslip
nonsmoker
nonsmokers
nonsmoking
nonsolar
nonsolid
nonsolids
nonspeaking
nonspecialist
nonspecialists
nonspecific
nonstaining
nonstandard
nonstick
nonstop
nonstrategic
nonstriker
nonstrikers
nonstriking
nonstudent
nonstudents
nonsubscriber
nonsuch
nonsuches
nonsugar
nonsugars
nonsuit
nonsuited
nonsuiting
nonsuits
nonsupport
nonsupports
nonsurgical
nonswimmer
nontax
nontaxable
nontaxes
nonteaching
nontechnical
nontidal
nontitle
nontoxic
nontraditional
nontransferable
nontropical
nontrump
nontruth
nontruths
nontypical
nonunion
nonunions
nonuple
nonuples
nonurban
nonuse
nonuser
nonusers
nonuses
nonusing
nonvenomous
nonverbal
nonviolence
nonviolences
nonviolent
nonviral
nonvocal
nonvoter
nonvoters
nonwhite
nonwhites
nonwoody
nonworker
nonworkers
nonwoven
nonzero
noodle
noodled
noodles
noodling
nook
nookies
nooklike
nooks
nooky
noon
noonday
noondays
nooning
noonings
noons
noontide
noontides
noontime
noontimes
noose
noosed
nooser
noosers
nooses
noosing
nopal
nopals
nope
notional
notions
notorieties
notoriety
notorious
notoriously
notornis
notturni
notturno
notum
notwithstanding
nougat
nougats
nought
noughts
noumena
noumenal
noumenon
noun
noumal
noumally
nounsless
nouns
nourish
nourished
nourishes
nourishing
nourishment
nourishments
nous
nouses
nova
novae
novalike
novas
novation
novations
novel
novelise
novelised
novelises
novelising
novelist
novelists
novelize
novelized
novelizes
novelizing
nubility
nobilose
nobilous
nubs
nucellar
nucelli
nucellus
nucha
nuchae
nuchal
nuchals
nucleal
nuclear
nuclease
nucleases
nucleate
nucleated
nucleates
nucleating
nuclei
nuclein
nucleins
nucleole
nucleoles
nucleoli
nucleon
nucleons
nucleus
nucleuses
nuclide
nuclides
nuclidic
nude
nudely
nudeness
nudenesses
udder
nudes
nudest
nudge
nudged
nudger
nudgers
nudges
nudging
nudicaul
nudie
nudies
nudism
nudisms
nudist
nudists
nudities
nudity
nudnick
nudnicks
nudnik
nudniks
nugatory
nugget
nuggets
nuggety
nuisance
nuisances
nuke
nukes
null
nullah
nullahs
nulled
nullification
nullifications
nullified
nullifies
nullify
nullifying
nulling
nullities
nullity
nulls
numb
numbed
number
numbered
numberer
numberers
numbering
numberless
numbers
numbest
numbfish
numbfishes
numbing
numbles
numbly
numbness
nurse
nursed
nurseries
nursery
nurses
nursing
nursings
nursling
nurslings
nurture
nurtured
nurterer
nurturers
nurseries
nurtures
nurturing
nus
nut
nutant
nutate
nutated
nutates
nutating
nutrition
nutations
nuthbrown
nutschcracker
nutschcrackers
nutgall
nutgalls
nutgrass
nutgrassess
nuthatch
nuthatches
nuthouse
nuthouses
nutlet
nutlets
nutlike
nutmeat
nutmeats
nutmeg
nutmegs
nutpick
nutpicks
nutria
nutrias
nutrient
nutrients
nutriment
nutriments
nutrition
nutritional
nutritions
nutritious
nutritive
nuts
nutsche
nutes
tunities
nutes
nutted
nutter
utters
nuttier
nuttiest
nuttily
nutting
nutty
nutwood
nutwoods
nuzzle
nuzzled
nuzzles
nuzzling
nyala
nyalas
nylghai
nylghais
nylghau
nylghaus
nylon
nylons
nymph
nympha
nymphae
nymphal
nymphean
nymphet
nymphets
nympho
nymphomania
nymphomaniac
nymphomanias
nymphos
nymphs
oaf
obtund
obtunds
obturating
obturated
obturates
obturating
obtuse
obtusely
obtuser
obtusest
obverse
obverses
obvert
obverted
obverting
obvert
obverts
obviable
obviate
obviated
obviates
obviating
obviations
obviator
obviators
obvious
obviously
obviousness
obviousnesses
obvolute
oca
ocarina
ocarinas
ocas
occasion
occasional
occasionally
occasioned
occasioning
occasions
occident
occidental
occidents
occipita
occiput
occiputs
occlude
occluded
occludes
occluding
occlusal
occult
occulted
occulter
occulters
occulting
occultly
occults
occupancies
occupancy
occupant
occupants
occupation
occupational
occupationally
occupations
occupied
occupier
occupiers
occupies
occupy
occupying
occur
occurrence
occurrences
occurred
occurrence
occurrences
occurring
occurs
ocean
oceanfront
oceanfronts
oceangoing
oceanic
oceanographer
oceanographers
oceanographic
oceanographies
oceanography
oceans
ocellar
ocellate
ocelli
ocellus
oceloid
octettes
octonaries
octonary
octopi
octopod
octopodes
octopods
octopus
octopuses
octoroons
octo
octos
octuple
octupled
octuples
octuplet
octuplets
octuplex
octupling
octuply
octyl
octyls
ocular
ocularly
oculars
ocularist
ocularists
od
odalisk
odalisks
odd
oddball
oddballs
odder
oddest
oddish
oddities
oddity
oddly
oddment
oddments
oddness
oddnesses
odds
ode
odea
odeon
odeons
odes
odeum
odic
odious
odiously
odiousness
odiousnesses
odium
odiums
odograph
odographs
odometer
odometers
odometries
odometry
odonate
odonates
odontoid
odontoids
odor
odorant
odorants
odored
odorful
odorize
odorized
odorizes
odorizing
odorless
odorous
odors
odour
odourful
odours
ods
odyl
odyle
odyles
odyls
odyssey
odysseys
oe
oecologies
oecology
oedema
oedemas
oedemata
oedipal
oedipean
oeillade
oeillades
oenologies
oenology
oenomel
oenomels
oeusted
oeusteds
oes
oestrin
oestrins
oestriol
oestriols
oestrone
oestrones
oestrous
oestrum
oestrums
oestrus
oestruses
oeuvre
oeuvres
of
ofay
ofays
off
offal
offals
offbeat
offbeats
offcast
offcasts
offed
offence
offences
offend
offended
offender
offenders
offending
offsends
offense
offenses
offensive
offensively
offensiveness
omnibuses
omnific
omniform
omnimode
omnipotence
omnipotences
omnipotent
omnipotently
omnipresence
omnipresences
omnipresent
omniscience
omnisciences
omniscent
omniscently
omnivora
omnivore
omnivores
omnivorous
omnivorously
omnivorousness
omnivorousnesses
omphagies
omphagy
omphali
omphalos
oms
on
onager
onagers
onagri
onanism
onanisms
onanist
onanists
once
onces
ondium
ondiums
oncologic
oncologies
oncologist
oncologists
oncology
oncoming
oncomings
ondogram
ondograms
one
onefold
oneeric
oneness
onenesses
onerier
oneriest
onerous
onery
ones
oneself
onetime
ongoing
onion
onions
onium
onlooker
onlookers
only
onomatopoeia
onrush
onrushes
ons
onset
onsets
onshore
onside
onslaught
onslaughts
onstage
ontic
onto
ontogenies
ontogeny
ontologies
ontology
onus
onuses
onward
onwards
onyx
onyxes
oocyst
oocysts
oocyte
oocytes
oodles
oodlins
ophidian
ophidians
ophite
ophites
ophitic
ophthalmologies
ophthalmologist
ophthalmologists
ophthalmology
opiate
opiated
opiates
opiating
opine
opined
opines
oping
opining
opinion
opinionated
opinions
opium
opiumism
opiumisms
opiums
opossum
opossums
oppidan
oppidans
oppilant
oppilate
oppilated
oppilates
oppilating
opponent
opponents
opportune
opportunely
opportunism
opportunisms
opportunist
opportunistic
opportunists
opportunities
opportunity
oppose
opposed
opposer
orle
orles
orlop
orlops
ormer
ormers
ormolu
ormolus
ornament
ornamental
ornamentation
ornamentations
ornamented
ornamenting
ornaments
ornate
ornately
ornateness
ornatenesses
ornerier
orneriest
ornery
onis
ornithes
ornithic
ornithological
ornithologist
ornithologists
ornithology
orogenic
orogenies
orogeny
oroide
oroides
orologies
orology
orometer
orometers
orotund
orphan
orphanage
orphanages
orphaned
orphaning
orphans
orphic
orphical
orphrey
oscillating
oscillation
oscillations
oscine
oscines
oscinine
oscitant
oscula
osculant
oscular
osculate
osculated
osculates
osculating
oscule
oscules
osculum
ose
oses
osier
osiers
osmatic
osmic
osmious
osmium
osmiums
osmol
osmolar
osmolal
osmals
osmose
osmosed
osmoses
osmosing
osmosis
osmotic
osmous
osmund
osmunda
osmundas
osmunds
osnaburg
osnaburgs
osprey
ospreys
ossa
ossein
osseins
ostmarks
ostomies
ostomy
ostoses
ostosis
ostosises
ostracism
ostracisms
ostracize
ostracized
ostracies
ostracizing
ostracod
ostracods
ostrich
ostriches
ostis
ostises
otalgia
otalgias
otalgic
otalgies
otalgia
other
others
otherwise
otic
otiose
otiosely
otiosities
otiosis
otic
otitides
otitis
otocyst
otocysts
otolith
otoliths
otologies
otology
otoscope
otoscopes
otoscopies
otoscopy
otoxicities
otoxicity
ottar
ottars
outdared
outdares
outdaring
outdate
outdated
outdates
outdating
outdid
outdistance
outdistanced
outdistances
outdistancing
outdo
outdodge
outdodged
outdodges
outdodging
outdoer
outdoers
outdoes
outdoing
outdone
outdoor
outdoors
outdrank
outdraw
outdrawing
outdrwn
outdraws
outdream
outdreamed
outdreaming
outdreams
outdreamt
outdress
outdressed
outdresses
outdressing
outdrew
outdrink
outdrinking
outdrinks
outdrive
outdriven
outdrives
outdriving
outdrop
outdropped
outgains
outgas
outgassed
outgasses
outgassing
outgave
outgive
outgiven
outgives
outgiving
outglare
outglared
outglares
outglaring
outglow
outglowed
outglowing
outglows
outgnaw
outgnawed
outgnawing
outgnawn
outgnaws
outgo
outgoes
outgoing
outgoings
outgone
outgrew
outgrin
outgrinned
outgrinning
outgrins
outgroup
outgroups
outgrow
outgrowing
outgrown
outgrows
outgrowth
outgrowths
outguess
outguessed
outguesses
outguessing
outguide
outguided
outguides
outhanking
outthanks
outthink
outthinking
outthinks
outthought
outthrew
outthrob
outthrobbed
outthrobbing
outthrobs
outthrow
outthrowing
outthrown
outthrews
outtold
outtower
outtowered
outtowering
outtowers
outtrade
outtraded
outtrades
outtrading
outtrick
outtricked
outtricking
outtricks
outtrot
outtrots
outtrotted
outtrotting
outtrump
outtrumped
outtrumping
outtrumps
outturn
outturns
outvalue
outvalued
outvalues
outvaluing
outvaunt
outvaunted
outvaunting
outvaunts
outvoice
outvoice
outvoiced
outwhirling
outwhirls
outwile
outwiled
outwiles
outwiling
outwill
outwilled
outwilling
outwills
outwind
outwinded
outwinding
outwinds
outwish
outwished
outwishes
outwishing
outwit
outwits
outwitted
outwitting
outwore
outwork
outworked
outworking
outworks
outworn
outwrit
outwrite
outwrites
outwriting
outwritten
outwrote
outwrought
outyell
outyelled
outyelling
outyells
outyelp
outyelped
outyelping
outyelps
outyield
outyielded
outyielding
outyields
ouzel
overalls
overambitious
overamplified
overamplifies
overamplify
overamplifying
overanalyze
overanalyzed
overanalyzes
overanalyzing
overanxieties
overanxiety
overanxious
overapologetic
overapt
overarch
overarched
overarches
overarching
overarm
overarousal
overarouse
overaroused
overarouses
overarousing
overassertive
overate
overawe
overawed
overawes
overawing
overbake
overbaked
overbakes
overbaking
overbear
overbearing
overbears
overbet
overbets
overbetted
overbetting
overbid
overbidden
overbidding
overbids
overbig
overbite
overcooks
overcool
overcooled
overcooling
overcools
overcorrect
overcorrected
overcorrecting
overcorrects
overcoy
overcram
overcrammed
overcramming
overcrams
overcritical
overcrop
overcropped
overcropping
overcrops
overcrowd
overcrowded
overcrowding
overcrowds
overdare
overdared
overdares
overdaring
overdear
overdeck
overdecked
overdecking
overdecks
overdecorate
overdecorated
overdecorates
overdecorating
overdepend
overdependent
overdepending
overdepends
overdevelop
overdeveloped
overdeveloping
overdevelops
overdid
overdo
overdoer
overdoers
overdoes
overdoing
overdone
overdose
overdosed
overdoses
overdosing
overdraft
overdrafts
overdramatic
overdramatize
overdramatized
overdramatizes
overdramatizing
overdraw
overdrawing
overdrawn
overdraws
overdress
overdressed
overdresses
overdressing
overdrew
overdrink
overdrinks
overdry
overdue
overdye
overdyed
overdyeing
overdyes
overeager
overeasy
overeat
overeaten
overeater
overeaters
overeating
overeats
overed
overeducate
overeduced
overeducates
overeducating
overelaborate
overemotional
overemphases
overemphasis
overemphasize
overemphasized
overemphasizes
overemphasizing
overenergetic
overenthusiastic
overestimate
overestimated
overestimates
overestimating
overexaggerate
overexaggerated
overexaggerates
overexaggerating
overexaggeration
overexaggerations
overexcite
overexcited
overexcitement
overexcitements
overexcites
overexciting
overexercise
overexpert
overexertion
overexertions
overexhaust
overexhausted
overexhausting
overexhausts
overexpand
overexpanded
overexpanding
overexpands
overexpansion
overexpansions
overexplain
overexplained
overexplaining
overexplains
overexploit
overexploited
overexploiting
overexploits
overexpose
overexposed
overexposes
overexposing
overextend
overextended
overextending
overextends
overextension
overextensions
overexuberant
overfamiliar
overfar
overfast
overfat
overfatigue
overfatigued
overfatigues
overfatiguing
overfear
overfeared
overfearening
overfears
overfed
overfeed
overfeeding
overfeeds
overfertilize
overfertilized
overfertilizes
overfertilizing
overfill
overfilled
overfilling
overfills
overfish
overfished
overfishes
overfishing
overflow
overflies
overflow
overflowed
overflowing
overflown
overflows
overfly
overflying
overfond
overfoul
overfree
overfull
overgenerous
overgild
overgilded
overgilding
overgilds
overgilt
overgird
overgirded
overgirding
overgirds
overgirt
overglad
overglamorize
overglamorized
overglamorizes
overglamorizing
overgoad
overgoaded
overgoading
overgoads
overgraze
overgrazed
overgrazes
overgrazing
overgrew
overgrow
overgrowing
overgrown
overgrows
overhand
overhanded
overhanding
overhands
overhang
overhanging
overhangs
overhard
overharvest
overharvested
overharvesting
overharvests
overhasty
overhate
overhated
overhates
overhating
overhaul
overindulges
overindulging
overinflate
overinflated
overinflates
overinflating
overinfluence
overinfluenced
overinfluences
overinfluencing
overing
overinsistent
overintense
overintensities
overintensity
overinvest
overinvested
overinvesting
overinvests
overinvolve
overinvolved
overinvolves
overinvolving
overjoy
overjoyed
overjoying
overjoys
overjust
overkeen
overkill
overkilled
overkilling
overkills
overkind
overlade
overladen
overlades
overloading
overlaid
overlain
overland
overlands
overlap
overlapped
overlapping
overlaps
overlarge
overmedicated
overmedicates
overmedicating
overmeeek
overmelt
overmelted
overmelting
overmelts
overmen
overmild
overmix
overmixed
overmixes
overmixing
overmodest
overmuch
overmuches
overnear
overnear
overnet
overnew
overnice
overnight
overobvious
overoptimistic
overorganize
overorganized
overorganizes
overorganizing
overpaid
overparticular
overpass
overpassed
overpasses
overpassing
overpast
overpatriotic
overpay
overpaying
overpayment
overpayments
overpays
overpermissive
overpert
overplay
overplayed
overplaying
overplays
overplied
overplies
overplus
overpluses
overply
overplying
overpopulated
overpossessive
overpower
overpowered
overpowering
overpowers
overprase
overprased
overprases
overprasing
overprescribe
overprescribed
overprescribes
overprescribing
overpressure
overpressures
overprice
overpriced
overprices
overpricing
overprint
overprinted
overprinting
overprints
overprivileged
overproduce
overproduced
overproduces
overproducing
overproduction
overproductions
overpromise
overprotect
overprotected
overprotecting
overprotective
overprotects
overpublicize
overpublicized
overpublicizes
overpublicizing
overqualified
overran
overrank
overrash
overrate
overrated
overrates
overrating
overreach
overreached
overreaches
overreaching
overeach
overracted
overracting
overeacting
overeaction
overeactions
overeacts
overrefine
overregulate
overregulated
overregulates
overregulating
overregulation
overregulations
overreliance
overreliances
overrepresent
overrepresented
overrepresenting
overrepresents
overrespond
overresponded
overresponding
overresponds
overrich
overridden
override
overrides
overriding
overrife
overripe
overrode
overrode
overrule
overrule
overruled
overruled
overrules
overruling
overrun
overrunning
overruns
overs
oversad
oversale
oversales
oversalt
oversalted
oversalting
oversalts
oversaturate
oversaturated
oversaturates
oversaturating
oversave
oversaved
oversaves
oversaving
oversaw
oversea
overseas
oversee
overseed
overseeded
overseeding
overseeds
overseeing
overseen
overseer
overseers
oversees
oversell
overselling
oversells
oversensitive
overserious
overset
oversets
oversetting
oversew
oversewed
oversewing
oversewn
oversews
oversexed
overshadow
overshadowed
overshadowing
overshadows
overshoe
overshoes
overshoot
overshooting
overshoots
overshot
overshots
oversick
overside
oversides
oversight
oversights
oversimple
oversimplified
oversimplifies
oversimplify
oversimplifying
oversize
oversizes
oversleep
oversleeping
oversleeps
overslept
overslip
overslipped
overslipping
overslips
overslipt
overslow
oversoak
oversoaked
oversoaking
oversoaks
oversoft
oversold
oversolicitous
oversoon
oversoul
oversouls
overspecialize
overspecialized
overspecializes
overspecializing
overspend
overspent
overspending
overspends
overspin
overspins
overspread
overspreading
overspreads
overstaff
overstaffed
overstaffing
overstaffs
overstate
overstated
overstatement
overstatements
overstates
overstating
overstay
overstayed
overstaying
overstays
overstep
overstepped
overstepping
oversteps
overstimulate
overstimulated
overstimulates
overstimulating
overstir
overstirred
overstirring
overstirs
overstock
overstocked
overstocking
overstocks
overstrain
overstrained
overstraining
overstrains
overstress
overstressed
overstresses
overstressing
overstretch
overstretched
overstretches
overstretching
overstrict
oversubtle
oversup
oversupped
oversupping
oversupplied
oversupplies
oversupply
oversupplying
oversups
oversure
oversuspicious
oversweeten
oversweetened
oversweetening
oversweetens
overt
overtake
overtaken
overtakes
overtaking
overtame
overtart
overtask
overtasked
overtasking
overtasks
overtax
overtaxed
overtaxes
overtaxing
overthin
overthrew
overthrow
overthrown
overthrows
overtighten
overtightened
overtightening
overtightens
overtime
overtimed
overtimes
overtimeing
overtire
overtired
overtires
overtiring
overtly
overtoil
overtooled
overtoothing
overtols
overtone
overtones
overtook
overtop
overtopped
overtopping
overtops
overtain
overtained
overtaining
overtains
overtreat
overtreated
overtreating
overtreats
overttrim
overttrimmed
overtirmming
overtirms
overture
overtured
overtures
overturing
overturn
overturved
overturning
overturns
overurge
overurged
overurges
overurgung
overuse
overused
overuses
overusing
overutilize
overutilized
overutilizes
overutilizing
overvalue
overvalued
overvalues
overvaluing
overview
overviews
overvote
overvoted
overvotes
overvoting
overwarm
overwarmed
overwarming
overwarms
overwary
overweak
overwear
overwearing
overwears
overween
overweened
overweening
overweens
overweight
overwet
overwets
overwetted
overwetting
overwhelm
overwhelmed
overwhelming
overwhelmingly
overwhelms
overwide
overwily
overwind
overwinding
overwinds
overwise
overword
overwords
overwore
overwork
overworked
overworking
overworks
overworn
overwound
overwrite
overwrote
overwrited
overwrites
overwriting
overwrought
overzeal
overzealous
overzeals
ovibos
ovicidal
ovicide
ovicides
oviducal
oviduct
oviducts
oviform
ovine
ovines
ovipara
oviposit
oviposited
ovipositing
oviposits
ovisac
ovisacs
ovoid
ovoidal
ovoids
ovoli
ovolo
ovolos
ovonic
ovular
ovulary
ovulate
ovulated
ovulates
ovulating
ovulation
ovulations
ovule
ovules
ovum
ow
owe
owed
owes
owing
owl
owlet
oxysalt
oxysalts
oxysome
oxysomes
oxytocic
oxytocics
oxytocin
oxytocins
oxytone
oxytones
oy
oyer
oyers
oyes
oyesses
oyez
oyster
oystered
oysterer
oysterers
oystering
oysterings
oysterman
oystermen
oysters
ozone
ozones
ozonic
ozonide
ozonides
ozonise
ozonised
ozonises
ozonising
ozonize
ozonized
ozonizer
ozonizers
ozonizes
ozonizing
ozonous
pa
pabular
pabulum
pabulums
pac
paca
pacas
pace
paced
pacemaker
pacemakers
pacer
pacers
paces
pacha
pachadom
pachadoms
pachalic
pachalics
pachas
pachisi
pachisis
pachouli
pachoulis
pachuco
pachucos
pachyderm
pachyderms
pacific
pacification
pacifications
pacified
pacifier
pacifiers
pacifies
pacificism
pacificisms
pacificist
pacificistic
pacificists
pacificy
pacifying
pacing
pack
packable
package
packaged
packager
packagers
packages
packaging
packed
packer
packers
packet
padnags
padouk
padouks
padre
padres
padri
padrone
padrones
padroni
pads
padshah
padshahs
paduaso
paduasoys
paean
paeanism
paeanisms
paecans
paella
paellas
pacon
pacons
pagan
pagandom
pagandoms
paganise
paganised
paganises
paganish
paganising
paganism
paganisms
paganist
paganists
paganize
paganized
paganizes
paganizing
pagans
page
pageant
pageantries
pageantry
pageants
pageboy
pageboys
paged
pages
paginal
paginate
paginated
paginates
paginating
paging
pagod
pagoda
pagodas
pagods
pagurian
pagurians
pagurid
pagurids
pah
pahlavi
pahlavis
paid
paik
paiked
paiking
paiks
pail
pailful
pailfuls
pails
pailful
pain
painch
painches
pained
painful
painfuller
painfullest
painfully
paining
painkiller
painkillers
painkilling
painless
painlessly
pains
painstaking
painstakingly
paint
paintbrush
paintbrushes
painted
pampered
pamperer
pamperers
pampering
pampero
pamperos
pamper
pamphlet
pamphleteer
pamphleteers
pamphlets
pams
pan
panacea
panacean
panaceas
panache
panaches
panada
panadas
panama
panamas
panatela
panatelas
pancake
pancaked
pancakes
pancaking
panchax
panchaxes
pancreas
pancreases
pancreatic
pancreatitis
panda
pandani
pandanus
pandanuses
pandas
pandect
pandects
pandemic
pandemics
pandemonium
pandemoniums
pander
pandered
panderer
panderers
pandering
panders
pandied
pandies
pandit
pandits
pandoor
pandoors
pandora
pandoras
pandore
pandores
pandour
pandours
pandowdies
pandowdy
pandura
panduras
pandy
pandying
pane
paned
panegyric
panegyrics
panegyrist
panegyrists
panel
paneled
paneling
panelings
panelist
panelists
panelled
panelling
panels
panes
panetela
panetelas
panfish
panfishes
panful
panfuls
pang
panga
pangas
panged
pangen
pans
pansies
pansophies
pansophy
pansy
pant
pantaloon
panted
pantheon
pantheons
panther
panthers
pantie
panties
pantile
pantiled
pantiles
panting
pantofle
pantofles
pantomime
pantomimed
pantomimes
pantomimining
pantoum
pantoums
pantries
pantry
pants
pantsuit
pantsuits
panty
panzer
panzers
pap
papa
papacies
papacy
papain
papains
papal
papally
papas
papaw
papaws
papaya
papayan
papayas
paper
paperboard
paperboards
paperboy
paperboys
papered
paperer
paperers
paperhanger
paperhangers
paperhanging
paperhangings
papering
papers
paperweight
paperweights
paperwork
paperly
paperian
paperians
papilla
papillae
papillar
papillon
papillons
papist
papistic
papistries
papistry
papists
papoose
papoooses
pappi
pappier
pappies
pappiest
pappoose
pappooses
pappose
pappous
pappus
pappy
paprica
papricas
paprika
paprikas
paps
papula
papulae
papulan
papular
papule
papules
papulose
papyral
papyri
papyrian
papyrine
papyrus
papyruses
par
para
parable
parables
parabola
parabolas
parachor
parachors
parachute
parachuted
parachutes
parachuting
parachutist
parachutists
parade
paraded
parader
paraders
parades
paradigm
paradigms
parading
paradise
paradises
parados
paradozes
paradox
paradoxes
paradoxical
paradoxically
paradrop
paradropped
paradropping
paradrops
paraffin
paraffined
parises
parish
parishes
parishioner
parishioners
parities
parity
park
parka
parkas
parked
parker
parkers
parking
parkings
parkland
parklands
parklike
parks
parkway
parkways
parlance
parlances
parlando
parlante
parlay
parlayed
parlaying
parlays
parle
parled
parles
parley
parleyed
parleyer
parleyers
parleying
parleys
parliament
parliamentarian
parliamentarians
parliamentary
parliaments
parling
parlor
parlors
parlour
parlours
parlous
parochial
parochialism
parochialisms
parodic
parodied
parodies
parodist
parodists
parodoi
parodos
parody
parodying
parol
parole
paroled
parolee
parolees
paroles
paroling
parols
paronym
paronyms
paroquet
paroquets
parotic
parotid
parotids
parotoid
parotoids
parous
paroxysm
paroxysmal
paroxysms
parquet
parqueted
parquetting
parquetries
parquetry
parquets
parr
parrakeet
parrakeets
parral
parrals
parred
parrel
parrels
partaking
partan
partans
parted
parterre
parterres
partial
partialities
partiality
partially
partials
partible
participant
participants
participate
participated
participates
participating
participation
participations
participatory
participial
participle
participles
particle
particles
particular
particularly
particulars
partied
parties
parting
partings
partisan
partisans
partisanship
partisanships
partita
partitas
partite
partition
partitions
partizan
partizans
partlet
partlets
partly
partner
pasquil
pasquils
pass
passable
passably
passade
passades
passado
passadoes
passados
passage
passaged
passages
passageway
passageways
passaging
passant
passband
passbands
passbook
passbooks
passe
passed
passee
passel
passels
passenger
passengers
passer
passerby
passers
passersby
passes
passible
passim
passing
passings
passion
passionate
passionateless
passionately
passions
passive
passively
passives
passivities
passivity
passkey
passkeys
passless
passover
passovers
passport
passports
passus
passuses
password
passwords
past
pasta
pastas
paste
pasteboard
pasteboards
pasted
pastel
pastels
paster
pastern
pasters
pasterns
pasteurization
pasteurizations
pasteurize
pasteurized
pasteurizer
pasteurizers
pasteurizes
pasteurizing
pasticci
pasticche
pasticches
pastier
pasties
pastiest
pastil
pastille
pastilles
pastils
pastime
pastimes
pastina
pastinas
pasting
pastness
pecker
peckers
peckier
peckiest
pecking
pecks
pecky
pectase
pectases
pectate
pectates
pecten
pectens
pectic
pectin
pectines
pectins
pectize
pectized
pectizes
pectizing
pectoral
pectorals
peculatation
peculatations
peculate
peculated
peculates
peculating
peculia
peculiar
peculiarities
peculiarity
peculiarly
peculiars
peculum
pecuniary
ped
pedagog
pedagogic
pedagogical
pedagogies
pedagogs
pedagogue
pedagogues
pedagogy
pedal
pedaled
peeped
peeper
peepers
peephole
peepholes
peeping
peeps
peepshow
peepshows
peepul
peepuls
peer
peerage
peerages
peered
peeress
peeresses
peerie
peeries
peering
peerless
peers
peery
pees
peesweep
peesweeps
peetweet
peetweets
peeve
peeved
peeves
peeving
peevish
peevishly
peevishness
peevishnesses
peewee
peewees
peewit
peewits
peg
pegboard
pegboards
pegbox
pegboxes
pegged
pegging
pegless
pelicle  
pelicles  
pellmell  
pellmells  
pellucid  
pelon  
peloria  
pelorian  
pelorias  
peloric  
pelorus  
peloruses  
pelota  
pelotas  
pelt  
peltast  
peltasts  
peltate  
pelted  
pelter  
pelters  
pelting  
peltries  
peltry  
pelts  
pelves  
pelvic  
pelvics  
pelvis  
pelveses  
pembina  
pembinas  
pemican  
pemicans  
pemmican  
pemmicans  
pemoline  
pemolines  
pemphix  
pemphixes  
pen  
penal  
penalise  
penalised  
penalises  
penalising  
penalities  
penality
pengos
penguin
penguins
penial
penicil
penicillin
penicillins
penicils
penile
peninsula
peninsular
peninsulas
penis
penises
penitence
penitences
penitent
penitential
penitentiaries
penitentiary
penitents
penknife
penknives
penlight
penlights
penlite
penlites
penman
penmanship
penmanships
penmen
penna
pennae
penname
pennames
pennant
pennants
pennate
pennated
penned
penner
penners
penni
pennia
pennies
penniless
pennine
pennines
penning
pennis
pennon
pennoned
pennons
pennsylvania
penny
penoche
penoches
penologies
penology
penoncel
penoncels
penpoint
penpoints
pens
pensee
pensees
pensil
pensile
pensils
pension
pensione
pensioned
pensioner
pensioners
pensiones
pensioning
pensions
pensive
pensively
penster
pensters
penstock
penstocks
pent
pentacle
pentacles
pentad
pentads
pentagon
pentagonal
pentagons
pentagram
pentagrams
pentameter
pentameters
pentane
pentanes
pentarch
pentarchs
penthouse
penthouses
pentomic
pentosan
pentosans
pentose
pentoses
pentyl
pentyls
penuche
penuches
penuchi
penuchis
penuchle
penuchles
penuckle
penuckles
penult
penults
penumbra
penumbrae
penumbbras
penuries
penurious
penury
peon
peonage
peonages
peon
peonies
peonism
peonisms
peons
peony
people
peopled
peopler
peolers
peoples
peoling
pep
peperoni
peperonis
pepla
peplos
peptones
peptonic
per
peracid
peracids
perambulate
perambulated
perambulates
perambulating
perambulation
perambulations
percale
percales
perceivable
perceive
perceived
perceives
perceiving
percent
percentage
percentages
percentile
percentiles
percents
percept
perceptible
perceptibly
perception
perceptions
perceptive
perceptively
percepts
perch
perched
percher
perchers
perches
perching
percoid
percoids
percolate
percolated
percolates
percolating
percolator
percolators
percuss
percussed
percusses
percussing
percussion
percussions
perdu
perdue
perdues
perdus
perdy
pere
peregrin
peregrins
peremptorily
peremptory
perennial
perennially
perennials
peres
perfect
perfecta
perfectas
perfected
perfector
perfectest
perfectibilities
perfectibility
perfectible
perfecting
perfection
perfectionist
perfectionists
perfections
perfectly
perfectness
perfectnesses
perfecto
perfectos
perfects
perfidies
perfidious
perfidiously
perfidy
perforate
perforated
perforates
perforating
perforation
perforations
perpetuation
perpetuations
perpetuities
perpetuity
perplex
perplexed
perplexes
perplexing
perplexities
perplexity
perquisite
perquisites
perries
perron
perrons
perry
persalt
persalts
perse
persecute
persecuted
persecutes
persecuting
persecution
persecutions
persecutor
persecutors
perses
perseverance
perseverances
persevere
persevered
perseveres
persevering
persist
persisted
persistence
existences
existencies
existency
persistent
persistently
persisting
persists
person
persona
personable
personae
personage
personages
personal
personalities
personality
personalize
personalized
personalizes
personalizing
personally
personals
personas
personification
personifications
personifies
personify
personnel
persons
perspective
perspectives
perspicacious
perspicacities
perspicacity
perspiration
perspirations
perspire
perspired
perspires
perspiring
perspiry
persuade
persuaded
persuades
persuading
persuasion
persuasions
persuasive
persuasively
persuasiveness
persuasivenesses
pert
pertain
pertained
pertaining
pertains
pter
pertest
pertinacious
petasuses
petcock
petocks
petechia
petechiae
peter
petered
petering
peters
petiolar
petiole
petioled
petioles
petit
petite
petites
petition
petitioned
petitioner
petitioners
petitioning
petitions
petrel
petrels
petri
petrifaction
petrifactions
petrified
petrifies
petrify
petrifying
petrol
petroleum
petroleums
petrolic
petrols
petronel
petronels
petrosal
petrous
pets
petted
pettedly
petter
petters
petti
petticoat
petticoats
phaeton
phaetons
phage
phages
phalange
phalanges
phalanx
phalanges
phallic
phallics
phallicism
phallicisms
phallicist
phallicists
phallicus
phallicuses
phantasied
phantasies
phantasm
phantasms
phantast
phantasts
phantasy
phantasizing
phantom
phantoms
pharaoh
pharaohs
pharisaic
pharisee
pharisees
pharmaceutical
pharmaceuticals
pharmacies
pharmacist
pharmacologic
pharmacological
pharmacologist
pharmacologists
pharmacology
pharmacy
pharos
pharoses
pharyngeal
pharynges
pharynx
pharynaxes
phase
phaseal
phased
phaseout
phaseouts
phases
phasic
phasing
phasis
phasmid
phasmids
phat
phatic
pheasant
pheasants
phellem
phellem
phellem
phellem
phelonia
phenazin
phenazines
phenetic
phenetol
phenetols
phenix
phenixes
phenol
phenolic
phenolics
phenols
phenom
phenomena
phenomenal
phenomenon
phenomenons
phenoms
phenyl
phenylic
phenyls
phew
phi
phial
phials
philabeg
philabegs
philadelphia
philander
philandered
philanderer
philanderers
philandering
philanders
philanthropic
philanthropies
philanthropist
philanthropists
philanthropy
philatelies
philatelist
philatelists
philately
philharmonic
philibeg
philibegs
philistine
philistines
philodendron
philodendrons
philomel
philomels
philosopher
philosophers
philosophic
philosophical
philosophically
philosophies
philosophize
philosophized
philosophizes
philosophizing
philosophy
philter
philtered
philtering
philters
philtre
philtred
philtres
philtring
phimoses
phimosis
phimotic
phis
phiz
phizes
phlebitis
phlegm
phonons
phonos
phons
phony
phooey
phorate
phorates
phosgene
phosgenes
phoshatase
phosphate
phosphates
phosphatic
phosphid
phosphids
phosphin
phosphins
phosphor
phosphorescence
phosphoresences
phosphorescent
phosphescently
phosphoric
phosphorous
phosphors
phosphorus
phot
photic
photics
photo
photoed
photoelectric
photoelectrically
photog
photogenic
photograph
photographally
photographed
photographer
photographers
photographic
photographies
photographing
photographs
photography
 photogs
photoin
photomap
phyla
phylae
phylar
phylaxis
phylaxises
phyle
phyleses
phylesis
phylesises
phyletic
phylie
phyllaries
phyllary
phyllite
phyllites
phylloide
phylloides
phylloid
phylloids
phylloides
phylome
phylomes
phylon
phylum
physes
physic
physical
physically
physicals
physician
physicians
physicist
physicists
physicked
physicking
physics
physiognomies
physiognomy
physiologic
physiological
physiologies
physiologist
physiologists
physiology
physiotherapies
physiotherapy
physique
physiques
phasis
pinetum
pinewood
pinewoods
piney
pinfeather
pinfeathers
pinfish
pinfishes
pinfoad
pinfoaded
pinfoading
pinfoads
ping
pinged
pinger
ingers
pinging
pingo
pingos
pinggrass
pinggrassess
pings
pinguid
pinhead
pinheads
pinhole
pinholes
pinier
piniest
pinging
pinion
pinioned
pinioning
pinions
pinite
pinites
pink
pinkel
pinked
pinker
pinkest
pinkeye
pinkeyes
pinkie
pinkies
pinking
pinkings
pinkish
pinkly
pips
pipy
piquancies
piquancy
piquant
pique
piqued
piques
piquet
piquets
piquing
piracies
piracy
piragua
piraguas
pirana
piranas
piranha
piranhas
pirarucu
pirarucus
pirate
pirated
pirates
piratic
piratical
pirating
piraya
pirayas
pir
pims
pirog
pirogen
piroghi
pirogi
pirogue
pirogues
pirojki
piroque
piroques
piroshki
pirouette
pirouetted
pirouettes
pirouetting
pirozhi
pirozhk'i
pis
pitapatted
pitapatting
pitias
pitch
pitchblende
pitchblendes
pitched
pitcher
pitchers
pitches
pitchfork
pitchforks
pitchier
pitchiest
pitchily
pitching
pitchman
pitchmen
pitchout
pitchouts
pitchy
piteous
piteously
pitfall
pitfalls
pith
pithead
pitheads
pithed
pithier
pithiest
pithily
pithing
pithless
piths
pithy
pitable
pitiably
pitied
pitiier
pitiiers
pities
pithful
pithfuller
pithfullest
pithfully
pithless
pithlessly
plagued
plaguer
plaguers
plagues
plaguey
plaguily
plaguing
plaguay
plaice
plaices
plaid
plaided
plaids
plain
plained
plainer
plainest
plaining
plainly
plainness
plainnesses
plains
plaint
plaintiff
plaintiffs
plaintive
plaintively
plaints
plaister
plaistered
plaistering
plaisters
plait
plaited
plaiter
plaiters
plaiting
plaitings
plaits
plan
planar
planaria
planarias
planate
planch
planche
planches
planchet
planchets
plane
planed
planer
planers
planes
planet
planetaria
planetarium
planetariums
planetary
planets
planform
planforms
plangent
planing
planish
planished
planishes
planishing
plank
planked
planking
plankings
planks
plankter
plankters
plankton
planktonic
planktons
planless
planned
planner
planners
planning
plannings
planosol
planosols
plans
plant
plantain
plantains
plantar
plantation
plantations
planted
planter
planters
playing
playland
playlands
playless
playlet
playlets
playlike
playmate
playmates
playoff
playoffs
playpen
playpens
playroom
playrooms
plays
playsuit
playsuits
plaything
playthings
playtime
playtimes
playwear
playwears
playwright
playwrights
plaza
plazas
plea
pleach
pleached
pleaches
pleaching
plead
pleaded
pleader
pleaders
pleading
pleadings
pleads
pleas
pleasant
pleasanter
pleasantest
pleasantly
pleasantness
pleasantnesses
pleasantries
pleiades
pleiads
plena
plenary
plenipotentaries
plenipotentiary
plenish
plenished
plenishes
plenishing
plenism
plenisms
plenist
plenists
plentitude
plenitudes
plenteous
plenties
plentiful
plentifully
plenty
plenum
plenums
pleonasm
pleonasms
pleopod
pleopods
plessor
plessors
plethora
plethoras
pleura
pleurae
pleural
pleuras
pleurisy
pleurisy
pleuron
pleuston
pleustons
plexor
plexors
plexus
plexuses
pliable
pliably
pliances
pliancy
pliant
pliantly
plica
plicae
plical
plicate
plicated
plie
plied
plier
pliers
plies
plight
plighted
plighter
plighters
plighting
plights
plimsol
plimsole
plimsoles
plimsoll
plimsolls
plimsols
plink
plinked
plinker
plinkers
plinking
plinks
plinth
plinths
pliskie
pliskies
plisky
plisse
plisses
plod
plodded
plodder
plodders
plodding
ploddingly
plods
ploidies
ploidy
plonk
plonked
plumed
plumelet
plumelets
plumes
plumier
plumiest
pluming
plumiped
plumipeds
plumlke
plummet
plummeted
plummeting
plummets
plummier
plummiest
plummy
plumose
plump
plumped
plumpen
plumpened
plumpening
plumps
plumpers
plumpest
plumping
plumpish
plumply
plumpness
plumpnesses
plumps
plums
plumular
plumule
plumules
plumy
plunder
plundered
plundering
plunders
plunge
plunged
plunger
plungers
plunges
plunging
plyers
plying
plyingly
plywood
plywoods
pneuma
pneumas
pneumatic
pneumatically
pneumonia
poaceous
poach
poached
poacher
poachers
poaches
poacher
poachiest
poaching
poachy
pochard
pochards
pock
pocked
pocket
pocketbook
pocketbooks
pocketed
pocketer
pocketers
pocketful
pocketfuls
pocketing
pocketknife
pocketknives
pockets
pockier
pockiest
pockily
pocking
pockmark
pockmarked
pockmarking
pockmarks
pocks
pocky
poco
pocosin
pocosins
pod
podagra
podagral
podagras
podagric
podded
podding
podesta
podestas
podgier
podgiest
podgily
podgy
podia
podiatries
podiatrist
podiatry
podite
podites
poditic
podium
podiums
podomere
podomeres
pods
podsol
podsolic
podsols
podzol
podzolic
podzols
poechore
poechores
poem
poems
poesies
poesy
poet
poetess
poetesses
poetic
poetical
poetics
poetise
poetised
poetiser
poetisers
pointmen
points
pointy
pois
poise
poised
poiser
poisers
poises
poising
poison
poisoned
poisoner
poisoners
poisoning
poisonous
poisons
poitrel
poitrels
poke
poked
poker
pokeroot
pokeroots
pokers
pokes
pokeweed
pokeweeds
pokey
pokeys
pokier
pokies
pokiest
pokily
pokiness
pokinesses
poking
poky
pol
polar
polarise
polarised
polarises
polarising
polarities
polarity
polarization
polarizations
policies
policing
policy
policyholder
poling
polio
poliomyelitis
poliomyelitis
polios
polis
polish
polished
polisher
polishers
polishes
polishing
polite
politely
politeness
politenesses
politer
politest
politic
political
politician
politicians
politick
politicked
politicking
politicks
politico
politicoes
politicos
politics
polities
polity
polka
polkaed
polkaing
polkas
poll
pollack
pollacks
pollard
pollarded
pollarding
pollards
polled
pollee
pollees
pollen
pollened
pollening
pollens
poller
pollers
pollex
pollical
pollices
pollinate
pollinated
pollinates
pollinating
pollination
pollinations
pollinator
pollinators
polling
pollinia
pollinic
pollist
pollists
polliwog
polliwogs
pollock
pollocks
polls
pollster
pollsters
pollutant
pollute
polluted
polluter
polluters
pollutes
polluting
pollution
pollutions
polly
pollywog
pollywogs
polo
poloist
poloists
polonium
poloniums
polos
pols
poltroon
poltroons
poly
polybrid
polybrids
polycot
polycots
polyene
polyenes
polyenic
polyester
polyesters
polygala
polygalas
polygamies
polygamist
polygamists
polygamous
polygamy
polygene
polygenes
polyglot
polyglots
polygon
polygonies
polygons
polygony
polygynies
polygyny
polymath
polymaths
polymer
polymers
polynya
polynyas
polyp
polyparies
polypary
polypi
polypide
polypides
polypnea
polypneas
polypod
polypodies
polypods
polypody
polypoid
polypore
polypores
polypous
polyp
polypus
polypuses
polys
polysemies
polysemy
polysome
polysomes
polysyllabic
polysyllable
polysyllables
polytechnic
polytene
polytenies
polyteny
polytheism
polytheisms
polytheist
polytheists
polytype
polytypes
polyuria
polyurias
polyuric
polyzoan
polyzoans
polyzoic
pomace
pomaces
pomade
pomaded
pomades
pomading
pomander
pomanders
pomatium
pomatiums
pome
pomegranate
pomegranates
pomelo
pomelos
pomes
powwows
pox
poxed
poxes
poxing
poxvirus
poxviruses
poyou
poyous
pozzolan
pozzolans
praam
praams
practic
practicabilities
practicability
practicable
practical
practicalities
practicality
practically
practice
practiced
practices
practicing
practise
practised
practises
practising
practitioner
practitioners
praecipe
praecipes
praedial
praefect
praefects
praelect
praelected
pralecting
praelects
praetor
praetors
pragmatic
pragmatism
pragmatisms
prahu
prahus
prairie
preadolescent
preadopt
preadopted
preadopting
preadopts
preadult
preaged
preallocate
preallocated
preallocates
preallocating
preallot
preallots
preallotted
prealloetting
preamble
preambles
preamp
preamps
preanal
preanesthetic
preanesthetics
prearm
prearmed
prearming
prearms
prearraignment
prearrange
prearranged
prearrangement
prearrangements
prearranges
prearranging
preassemble
preassembled
preassembles
preassembling
preassign
preassigned
preassigning
preassigns
preauthorize
preauthorized
preauthorizes
preauthorizing
preaver
preaverred
preaverring
precipitous
precipitously
precis
precise
precised
precisely
preciseness
precisened
precisely
preciseness
preciser
precises
preciss
precisest
precising
precision
precisions
precited
precivilization
preclean
precleaned
precleaning
precleans
preclearnance
preclearances
preclude
precluded
precludes
precluding
precocious
precocities
precocity
precollege
precolonial
precombustion
precompute
precomputed
precomputes
precomputing
preconceive
preconceived
preconceives
preconceiving
preconceiving
preconception
preconceptions
preconcerted
precondition
preconditions
preconference
preconstruct
preconvention
precook
precooked
precooking
precooks
precool
precooled
precooling
precools
precure
precured
precures
precuring
precursor
precursors
predate
predated
predates
predating
predator
predators
predatory
predawn
predawns
predecessor
predecessors
predefine
predefined
predefines
predefining
predelinquent
predestination
predespatch
predespatched
predespatches
predesignate
predesignated
predesignates
predesignating
predesignation
predesignations
predestine
predestined
predestines
predestining
predetermine
predetermined
predetermines
predetermining
predial
predicament
predicaments
predicate
predicated
predicates
predicating
predication
predications
predict
predictable
predictably
predicted
predicting
predictions
predictive
predicts
predilection
predilections
predischarge
predispose
predisposed
predisposes
predisposing
predisposition
predispositions
prednisone
prednisones
predominance
predominances
predominant
predominantly
predominate
predominated
predominates
predominating
predusk
predusks
pree
preed
preeing
preelect
preelected
preelecting
preelection
preelectric
preelectronic
preelected
preemie
preemies
prefecture
prefectures
prefer
preferable
preferably
preference
preferences
preferential
preferment
preferments
preferred
preferring
prefers
prefigure
prefigured
prefigures
prefiguring
prefilter
prefilters
prefix
prefixal
prefixed
prefixes
prefixing
prefocus
prefocused
prefocuses
prefocusing
prefocussed
prefocusses
prefocussing
preform
preformed
preforming
preforms
prefrank
prefranked
prefranking
prefranks
pregame
pregnancies
pregnancy
pregnant
preheat
preheated
preheating
preheats
prehensile
prehistoric
prehistorical
prehuman
prehumans
preimmunization
preimmunizations
preimmunize
preimmunized
preimmunizes
preimmunizing
preinaugural
preindustrial
preinoculate
preinoculated
preinoculates
preinoculating
preinoculation
preinterview
prejudge
prejudged
prejudges
prejudging
prejudice
prejudiced
prejudices
prejudicial
prejudicing
prekindergarten
prekindergartens
prelacies
prelacy
prelate
prelates
prelatic
prelaunch
prelect
prelected
prelecting
prelects
prelegal
prelim
preliminaries
preliminary
prelimit
prelimited
prelimiting
prelimits
prelims
premodify
premodifying
premoisten
premoistened
premoistening
premoistens
premolar
premolars
premonition
premonitions
premonitory
premorse
premune
prename
prenames
prenatal
prenomen
prenomens
prenomina
prenotification
prenotifications
prenotified
prenotifies
prenotify
prenotifying
prentice
prenticed
prentices
prenticing
prenuptial
preoccupation
preoccupations
preoccupied
preoccupies
preoccupy
preoccupying
preopening
preoperational
preordain
preordained
preordaining
preordains
prep
prepack
prepackage
prepackaged
prepackages
prepackaging
presupposed
presupposes
presupposing
presupposition
presuppositions
presurgical
presweeten
presweetened
presweetening
presweetens
pretaste
pretasted
pretastes
pretasting
pretax
preteen
preteens
pretelevision
pretence
pretences
pretend
pretended
pretender
pretenders
pretending
pretends
pretense
pretenses
pretension
pretensions
pretentious
pretentiously
pretentiousness
pretentiousnesses
preterit
preterits
preternatural
preternaturally
pretest
pretested
pretesting
pretests
pretex
pretexes
pretexing
pretexes
pretor
pretors
priested
priestess
priestesses
priesthood
priesthoods
priesting
priestlier
priestliest
priestliness
priestlinesses
priestly
priests
prig
prigged
priggeries
priggery
prigging
priggish
priggishly
priggism
priggisms
prigs
prill
prilled
prilling
prills
prim
prima
primacies
primacy
primage
primages
primal
primaries
primarily
primary
primas
primatal
primate
primates
prime
primed
primely
primer
primero
primeros
primers
primes
principi
principle
principles
princock
princocks
princox
princoxes
prink
prinked
prinker
prinkers
prinking
prinks
print
printable
printed
printer
printeries
printers
printery
printing
printings
printout
printouts
prints
prior
priorate
priorates
prioress
prioresses
priories
priorities
prioritize
prioritized
prioritizes
prioritizing
priority
priorly
priors
priory
prise
prised
priser
priseres
prises
prising
prism
prismatic
proemial
proems
proette
proettes
prof
profane
profaned
profanely
profaneness
profanenesses
profaner
profaners
profanes
profaning
profess
professed
professedly
professes
professing
profession
professional
professionalism
professionalize
professionalized
professionalizes
professionalizing
professionally
professions
professor
professorial
professors
professorship
professorships
proffer
proffered
proffering
proffers
proficiencies
proficiency
proficient
proficiently
profile
profiled
profiler
profilers
profiles
profiling
profit
promenades
promenading
prominence
prominences
prominent
prominently
promiscuities
promiscuity
promiscuous
promiscuously
promiscuousness
promiscuousnesses
promise
promised
promisee
promisees
promiser
promisers
promises
promising
promisingly
promisor
promisors
promissory
promontories
promontory
promote
promoted
promoter
promoters
promotes
promoting
promotion
promotional
promotions
prompt
prompted
prompter
prompters
promptest
prompting
promptly
promptness
prompts
proms
promulge
promulgated
promulgates
prophesiers
prophesies
prophesy
prophesying
prophet
prophetess
prophetesses
prophetic
prophetical
prophetically
prophets
prophylactic
prophylactics
prophylaxis
propine
propined
propines
propining
propinquities
propinquity
propitiate
propitiated
propitates
propitiating
propitiation
propitiations
propitiatory
propitious
propjet
propjets
propman
propmen
propolis
propolises
propone
proponed
proponent
proponents
propones
proponing
proportion
proportional
proportionally
proportionate
proportionately
proportions
proposal
proposals
propose
proposed
proposer
proposers
proposes
proposing
proposition
propositions
propound
propounded
propounding
propounds
propped
propping
proprietary
proprieties
proprietor
proprietors
propriorship
propriorships
proprietress
proprietresses
propriety
props
propulsion
propulsions
propulsive
propyl
propyla
propylic
propylon
propyls
prorate
prorated
prorates
prorating
prorogue
prorogued
prorogues
proroguing
pros
prosaic
prosaism
prosaisms
prosaist
prosaists
proscribe
proscribed
prototype
prototypes
protoxid
protoxids
protozoa
protozoan
protozoans
protract
protracted
protracting
protractor
protractors
protracts
protrude
protruded
protrudes
protruding
protrusion
protrusions
protrusive
protuberance
protuberances
protuberant
protyle
protyle
protyle
protyl
protyl
proud
prouder
proudest
proudful
proudly
pronion
provable
provably
prove
proved
proven
provender
provenders
provenly
prover
proverb
proverbed
proverbial
proverbing
proverbs
provers
prythee
psalm
psalmed
psalmic
psalming
psalmist
psalmists
psalmodies
psalmody
psalms
psalter
psalteries
psalters
psaltery
psaltries
psaltry
psammite
psammites
pschent
pschents
psephite
psephites
pseudo
pseudonym
pseudonymous
pshaw
pshawed
pshawing
pshaws
psi
psiloses
psilosis
psilotic
psis
psoae
psoai
psoas
psocid
psocids
psoralea
psoraleas
psoriasis
psoriasises
psst
psych
psyche
psyched
psyches
psychiatric
psychieties
psychiatrist
psychiatrists
psychiatry
psychic
psychically
psychics
psyching
psycho
psychoanalyses
psychoanalysis
psychoanalyst
psychoanalysts
psychoanalytic
psychoanalyze
psychoanalyzed
psychoanalyzes
psychoanalyzing
psychological
psychologically
psychologies
psychologist
psychologists
psychology
psychopath
psychopathic
psychopaths
psychos
psychoses
psychosis
psychosocial
psychosomatic
psychotherapies
psychotherapist
psychotherapists
psychotherapy
psychotic
psychs
psylla
psyllas
psyllid
psyllids
pterin
pterins
pteropod
pteropods
pteryla
pulchritudinous
pule
puled
puler
pulers
pules
puli
pulicene
pulicide
pulicides
pulik
puling
pulingly
pulings
pulis
pull
pullback
pullbacks
pulled
puller
pullers
pullet
pullets
pulley
puleys
pulling
pullman
pullmans
pullout
pullouts
pullover
pullovers
puls
pulmonary
pulmonic
pulmotor
pulmotors
pulp
pupal
pulpally
pulped
pulpedly
pulper
pulpi
pulpiest
pulpily
pulping
pulpit
pulpital
purged
purger
purgers
purges
purging
purgings
puri
purification
purifications
purified
purifier
purifiers
purifies
purify
purifying
purin
purine
purines
purins
puris
purism
purisms
purist
puristic
purists
puritan
puritanical
puritans
purities
purity
purl
purled
purlieu
purlieus
purlin
purline
purlines
purling
purlins
purloin
purloined
purloining
purloins
purls
purple
purpled
purpler
purples
pussiest
pussley
pussleys
pusslies
pusslike
pussly
pussy
pussycat
pussycats
pustular
pustule
pustuled
pustules
put
putamen
putamina
putative
putlog
putlogs
putoff
putoffs
puton
putons
putout
putouts
putrefaction
putrefactions
putrefactive
putrefied
putrefies
putrefy
putrefying
putrid
putridly
puts
putsch
putsches
putt
putted
puttee
puttees
putter
puttered
putterer
putterers
puttering
putters
puttied
pylori
pyloric
pylorus
pyloruses
pyodermad
pyodermas
pyodermas
pyogenic
pyoid
pyorrhea
pyorrheas
pyoses
pyosis
pyralid
pyralids
pyramid
pyramidal
pyramided
pyramiding
pyramids
pyran
pyranoid
pyranose
pyranoses
pyrans
pyre
pyrene
pyrenes
pyrenoid
pyrenoids
pyres
pyretic
pyrexia
pyrexial
pyrexias
pyrexic
pyric
pyridic
pyridine
pyridines
pyriform
pyrite
pyrites
pyritic
pyritious
pyrogen
pyrogens
pyrola
pyrolas
quadrupled
quadruples
quadruplet
quadruplets
quadrupling
quads
quaere
quaeres
quaestor
quaestors
quaff
quaffed
quaffer
quaffers
quaffing
quaffs
quag
quagga
quaggas
quaggier
quaggiest
quaggy
quagmire
quagmires
quagmirier
quagmiriest
quagmiry
quags
quahaug
quahaugs
quahog
quahogs
quai
quaich
quaiches
quaichs
quaigh
quaighs
quail
quailed
quailing
quails
quaint
quainter
quaintest
quaintly
quaintness
quaintnesses
quean
queans
queasier
queasiest
queasily
queasiness
queasinesses
queasy
queazier
queaziest
queazy
queen
queened
queening
queenlier
queenliest
queenly
queens
queer
queered
queerer
queerest
queering
queerish
queerly
queerness
queernesses
queers
quell
quelled
queller
quellers
quelling
quells
quench
quenchable
quenched
quencher
quenchers
quenches
quenching
quenchless
quenelle
quenelles
quercine
querida
queridas
queried
rabbinate
rabbinitic
rabbinitical
rabbins
rabbis
rabbit
rabbited
rabbiter
rabbiterers
rabbiting
rabbitries
rabbitry
rabbits
rabble
rabbled
rabbler
rabblerers
rabbles
rabbling
rabboni
rabbonis
rabic
rabid
rabidities
rabidity
rabidly
rabies
rabietic
raccoon
raccoons
race
racecourse
racecourses
raced
racehorse
racehorses
racemate
racemates
raceme
racemed
racemes
racemic
racemism
racemisms
racemize
racemized
racemizes
racemizing
racemoid
racemose
racemous
racer
racers
races
racetrack
racetracks
raceway
raceways
rachet
rachets
rachial
rachides
rachis
rachises
rachitic
rachitides
rachitis
racial
racially
racier
raciest
racyly
raciness
racinesses
racing
racings
racism
racisms
racyist
racists
rack
racked
racker
rackers
racket
racketed
racketeer
racketeering
racketeerings
racketeers
racketier
racketiest
racketing
rackets
rackety
racking
rackle
racks
rackwork
rackworks
raclette
raclettes
racon
racons
raconteur
raconteurs
racoon
racoons
racquet
racquets
racy
rad
radar
radars
radded
radding
raddle
raddled
raddles
raddling
radiable
radial
radiale
radialia
radially
radials
radian
radiance
radiances
radiancies
radiancy
radians
radiant
radiantly
radiants
radiate
radiated
radiates
radiating
radiation
radiations
radiator
radiators
radical
raising
raisings
raisins
raisiny
raisonne
raj
raja
rajah
rajahs
rajas
rajas
rake
raked
rakee
rakees
rakehell
rakehells
rakeoff
rakeoffs
raker
rakers
rakes
raki
raking
rakis
rakish
rakishly
rakishness
rakishnesses
rale
rales
rallied
rallier
ralliers
rallies
ralline
rally
rallye
rallyes
rallying
rallyings
rallyist
rallyists
ram
ramate
ramble
rambled
rambler
ramblers
rambles
rambling
rambunctious
rambutan
rambutans
ramee
ramees
ramekin
ramekins
ramea
rameas
rame
rame
ramification
ramifications
ramified
ramifies
ramiform
ramify
ramifying
ramilie
ramilies
ramillie
ramillies
ramjet
ramjets
rammed
rammer
rammers
rammier
rammiest
ramming
rammish
rammy
ramose
ramosely
ramosities
ramosity
ramous
ramp
rampage
rampaged
rampager
rampagers
rampages
rampaging
rampancies
rampancy
rampant
rampantly
rampart
ramparted
ramparting
ramparts
ramped
rampike
rampikes
ramping
rampion
rampions
rampole
rampoles
ramps
ramrod
ramrods
rams
ramshackle
ramshorn
ramshorns
ramson
ramsons
ramtil
ramtils
ramulose
ramulous
ramus
ran
rance
rances
ranch
ranched
rancher
ranchero
rancheros
ranchers
ranches
ranching
ranchland
ranchlands
ranchman
ratch
ratches
ratchet
ratchets
rate
rateable
rateably
rated
ratel
ratels
rater
raters
rates
ratfink
ratfinks
ratfish
ratfishes
rath
rathe
rather
rathole
ratholes
raticide
raticides
ratification
ratifications
ratified
ratifier
ratifiers
ratifies
ratify
ratifying
ratine
ratines
rating
ratings
ratio
ration
rational
rionale
rationales
rationalization
rationalizations
rationalize
rationalized
rationalizes
rationalizing
rationally
rationals
rationed
rationing
rations
ratios
ratite
ratites
ratlike
ratlin
ratline
ratlines
ratlins
rato
ratoon
ratooned
ratooner
ratooners
ratooning
ratoons
ratos
rats
ratsbane
ratsbanes
rattail
rattails
rattan
rattans
ratted
ratteen
ratteens
ratten
rattened
rattener
ratteners
rattening
rattens
ratter
ratters
rattier
rattiest
ratting
rattiish
rattle
rattled
rattler
rattlers
rattles
rattlesnake
rattlesnakes
ratling
ratlings
ratly
ratton
rattons
rattoon
rattooned
rattooning
rattoons
rattrap
rattraps
ratty
raucities
raucity
raucous
raucously
raucousness
raucousnesses
raunchier
raunchiest
raunchy
ravage
ravaged
ravager
ravagers
ravages
ravaging
rave
raved
ravel
raveled
raveler
ravelers
ravelin
raveling
ravelings
ravelins
ravelled
raveller
ravellers
ravelling
ravellings
ravelly
ravels
raven
ravened
ravener
ravens
ravering
ravenings
ravenous
ravenously
ravenousness
ravenousnesses
ravens
raver
ravers
raves
ravigote
ravigotes
ravin
ravine
ravined
ravines
raving
ravingly
ravings
ravining
ravins
ravioli
raviolis
ravish
ravished
ravisher
ravishers
ravishes
ravishing
ravishment
ravishments
raw
rawboned
rawer
rawest
rawhide
rawhided
rawhides
rawhiding
rawish
rawly
rawness
rawnesses
ravs
rax
raxed
raxes
reaccelerating
reaccent
reaccented
reaccenting
reaccents
reaccept
reaccepted
reaccepting
reaccepts
reacclimatize
reacclimatized
reacclimatizes
reacclimatizing
reaccredit
reaccredited
reaccrediting
reaccríveis
ree achieved
ree achievement
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
ree achieves
ree achieving
reassure
reassured
reassures
reassuring
reassuringly
reata
reatas
reattach
reattached
reattaches
reattaching
reatack
reattacked
reattacking
reattacks
reattain
reattained
reattaining
reattains
reave
reaved
reaver
reavers
reaves
reaving
reavow
reavowed
reavowing
reavows
reawake
reawaked
reawaken
reawakened
reawakening
reawakens
reawakes
reawaking
reawoke
reawoken
reb
rebait
rebaited
rebaiting
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebait
rebai
reboard
reboarded
reboarding
reboards
reboil
reboiled
reboiling
reboils
rebop
rebops
reborn
rebound
rebounded
rebounding
rebounds
rebozo
rebozos
rebranch
rebranched
rebranches
rebranching
rebroadcast
rebroadcasted
rebroadcasting
rebroadcasts
rehs
rebuff
rebuffed
rebuffing
rebuffs
rebuild
rebuilded
rebuilding
rebuids
rebuilts
rebuilt
rebuke
rebuked
rebuker
rebukers
rebukes
rebuking
reburial
reburials
reburied
reburies
rebury
reburying
rebus
receptivity
receptor
receptors
recepts
recertification
recertifications
recertified
recertifies
recertify
recertifying
recess
recessed
recesses
recessing
recession
recessions
rechange
rechanged
rechanges
rechanging
rechannel
rechanneled
rechanneling
rechannels
recharge
recharged
recharges
recharging
rechart
recharted
recharting
recharts
recheat
recheats
recheck
rechecked
rechecking
rechecks
rechoose
rechooses
rechoosing
rechose
rechosen
rechristen
rechristened
rechristening
rechristens
recipe
recodifies
recodify
recodifying
recognition
recognitions
recognizable
recognizably
recognizance
recognizances
recognize
recognized
recognizes
recognizing
recol
recoiled
recoiler
recoilers
recoiling
recoils
recoin
recoined
recoining
recoins
recollection
recollections
recolonize
recolonized
recolonizes
recolonizing
recolor
recolored
recoloring
recolors
recomb
recombed
recombine
recombined
recombines
recombining
recombs
recommend
recommendable
recommendation
recommendations
recommendatory
recommended
recommender
recuperated
recuprates
recuperating
recuperation
recuperations
recuperative
recur
recurred
recurrence
recurrences
recurrent
recurring
recurs
recurve
recurved
recurses
recurring
recusant
recusants
recuse
recused
recuses
recusing
recut
recuts
recutting
recycle
recycled
recycles
recycling
red
redact
redacted
redacting
redactor
redactors
redacts
redan
redans
redargue
redargued
redargues
redarguing
redate
redated
redates
redating
redbait
redbaited
redbaiting
redbaits
redbay
redbays
redbird
redbirds
redbone
redbones
redbrick
redbud
redbuds
redbug
redbugs
redcap
redcaps
redcoat
redcoats
redd
redded
redden
reddened
reddening
reddens
redder
redders
reddest
redding
reddish
redle
reddled
reddles
reddling
redds
rede
redear
redears
redecorate
redecorated
redecorates
redecorating
reded
rededicate
rededicated
rededicates
rededicating
rededication
rededications
redevelop
redeveloped
redeveloping
redevelops
redeye
redeyes
redfin
redfins
redfish
redfishes
redhead
redheaded
redheads
redhorse
redhorses
redia
rediae
redial
redias
redid
redigest
redigested
redigesting
redigests
reding
redip
redipped
redipping
redips
redipt
redirect
redirected
redirecting
redirects
rediscover
rediscovered
rediscoveries
rediscovering
rediscoveries
rediscover
rediscovers
rediscovery
redisolve
redisolved
redissolves
redisolving
redistribute
redistributed
redistributes
redistributing
reefer
reefers
reefier
reefiest
reefing
reefs
reefy
reeject
reejected
reejecting
reejects
reek
reeked
reekers
reekier
reekiest
reeking
reeks
reeky
reel
reelable
reelect
reelected
reelecting
reelects
reeled
reeler
reelers
reeling
reels
reembark
reembarked
reembarking
reembarks
reembodied
reembodies
reembody
reembodying
reemerge
reemerged
reemergence
reemergences
reemerges
reemerging
reemit
reemits
reemitted
reemitting
reemphasize
reemphasized
reemphasizes
reemphasizing
reemploy
reemployed
reemploying
reemploys
reenact
reenacted
reenacting
reenacts
reendow
reendowed
reendowing
reendows
reenergize
reenergized
reenergizes
reenergizing
reengage
reengaged
reengages
reengaging
reenjoy
reenjoyed
reenjoying
reenjoys
reenlist
reenlisted
reenlisting
reenlistness
reenlistnesses
reenlists
reenter
reentered
reentering
reenters
reentries
reentry
reequip
reequipped
reequipping
reequips
reerect
reereceted
reerecting
reerects
rees
reest
reestablish
reestablished
reestablishes
reestablishing
reestablishment
reestablishments
reested
reestimate
reestimated
reestimates
reestimating
reesting
reests
reevaluate
reevaluated
reevaluates
reevaluating
reevaluation
reevaluations
reeve
reeved
reeves
reeving
reevoke
reevoked
reevokes
reevoking
reexamination
reexaminations
reexamine
reexamined
reexamines
reexamining
reexpel
reexpelled
reexpelling
reexpels
reexport
reexported
reexporting
reexports
ref
reface
refaced
refaces
refacing
fall
fallen
falling
falls
fasten
fastened
fastening
fastens
fect
ected
ecting
ects
ed
eed
eeding
eeds
el
ell
elled
elling
els
er
erable
eree
eed
eeing
eers
ence
ences
enda
endum
endums
erent
erents
erral
errals
ered
errer
errers
erring
ers
ed
fing
ght
ghting
ths
figure
refitting
refix
refixed
refixes
refixing
reflate
reflated
reflates
reflating
reflect
reflected
reflecting
reflection
reflections
reflective
reflector
reflectors
reflects
reflet
reflets
reflew
reflex
reflexed
reflexes
reflexing
reflexive
reflexively
reflexiveness
reflexivenesses
reflexly
reflies
refloat
refloated
refloating
refloats
reflood
reflooded
reflooding
refloods
reflow
reflowed
reflower
reflowered
reflowering
reflowers
reflowing
reflown
reflows
refluent
reflux
refluxed
refluxes
refluxing
refly
reflying
refocus
refocused
refocuses
refocusing
refocussed
refocusses
refocussing
refold
refolded
refolding
refolds
reforest
reforested
reforesting
reforests
reforge
reforged
reforges
reforging
reform
reformat
reformatories
reformatory
reformats
reformatted
reformatting
reformed
reformer
reformers
reforming
reforms
reformulate
reformulated
reformulates
reformulating
refought
refound
refounded
refounding
refounds
refract
regenerative
regenerator
regenerators
regent
regental
regents
reges
regicide
regicides
regild
regilded
regilding
regilds
regilt
regime
regimen
regimens
regiment
regimental
regimentation
regimentations
regimented
regimenting
regiments
regimes
regina
reginae
reginal
reginas
region
regional
regionally
regionals
regions
register
registered
registering
registers
registrar
registrars
registration
registrations
registries
registry
regius
regive
regiven
regives
regularized
regularizes
regularizing
regularly
regulars
regulate
regulated
regulates
regulating
regulation
regulations
regulative
regulator
regulators
regulatory
reguli
reguline
regulus
reguluses
regurgitate
regurgitated
regurgitates
regurgitating
regurgitation
regurgitations
rehabilitate
rehabilitated
rehabilitates
rehabilitating
rehabilitation
rehabilitations
rehabilitative
rehammer
rehammered
rehammering
rehammers
rehandle
rehandled
rehandles
rehandling
rehang
rehanged
rehanging
rehangs
reharden
rehardened
rehardening
rehardens
rehash
rehashed
rehashes
rehashing
rehear
reheard
rehearing
rehears
rehearsal
rehearsals
rehearse
rehearsed
rehearser
rehearsers
rehearses
rehearsing
reheat
reheated
reheater
reheaters
reheating
reheats
reheal
reheeled
reheeling
reheels
rehem
rehemmed
rehemming
rehems
rehinge
rehinged
rehinges
rehinging
rehire
rehired
rehires
rehiring
rehospitalization
rehospitalizations
rehospitalize
rehospitalized
rehospitalizes
rehospitalizing
rehouse
rehoused
rehouses
rehousing
reincarnates
reincarnating
reincarnation
reincarnations
reincite
reincited
reincites
reinciting
reincorporate
reincorporated
reincorporates
reincorporating
reincur
reincurred
reincurring
reincurs
reindeer
reindeers
reindex
reindexed
reindexes
reindexing
reinduce
reinduced
reinduces
reinducing
reinduct
reinducted
reinducting
reinducts
reined
reinfact
reinfected
reinfecting
reinfection
reinfections
reinfects
reinforcement
reinforcements
reinforcer
reinforcers
reinform
reinformed
reinforming
reinforms
reinfuse
reinfused
reinfuses
reinfusing
reining
reinjection
reinjections
reinjure
reinjured
reinjures
reinjuring
reinless
reinoculate
reinoculated
reinoculates
reinoculating
reins
reinsert
reinserted
reinserting
reinsertion
reinsertions
reinserts
reinsman
reinsmen
reinspect
reinspected
reinspecting
reinspects
reinstall
reinstalled
reinstalling
reinstalls
reinstate
reinstated
reinstates
reinstating
reinstitute
reinstituted
reinstitutes
reinstituting
reinsure
reinsured
reinsures
reinsuring
reintegrate
reintegrated
reintegrates
reintegrating
reintegration
reintegrations
relents
relet
relets
reletter
relettered
relettering
reletters
reletting
relevance
relevances
relevant
relevantly
reliabilities
reliability
reliable
reliableness
reliablenesses
reliably
reliance
reliances
reliant
relic
relics
relict
relicts
relied
relief
reliefs
relier
reliers
relies
relieve
relieved
reliever
reliers
relieves
relieving
relievo
relievos
relight
relighted
relighting
relights
religion
religionist
religionists
religions
religious
religiously
reline
relined
relines
relining
relinquish
relinquished
relinquishes
relinquishing
relinquishment
relinquishments
relique
reliques
relish
relishable
relished
relishes
relishing
relist
relisted
relisting
relists
relit
relive
relived
relives
reliving
reload
reloaded
reloader
reloaders
reloading
reloads
reloan
reloaned
reloaning
reloans
relocate
relocated
relocates
relocating
relocation
relocations
reluent
reluct
reluctance
reluctant
reluctantly
remarkers
marking
remarks
remarque
remarques
remarriage
remarriages
remarried
remarries
remarry
remarrying
rematch
rematched
rematches
rematching
remeasure
remeasured
remeasures
remeasuring
remedial
remedially
remedied
remedies
remedy
remedying
remeet
remeeting
remeets
remelt
remelted
remelting
remelts
remember
remembered
remembering
remembered
remembering
remembers
remend
remended
remending
remends
remerge
remerged
remerges
remerging
remet
remex
remiges
remigial
rendering
renders
rendezvous
rendezvoused
rendezvousing
rendible
render
rendition
renditions
rends
rendzina
rendzinas
renegade
renegaded
renegades
renegading
renegado
renegadoes
renegados
renege
reneged
reneger
renegers
reneges
reneging
renegotiate
renegotiated
renegotiates
renegotiating
renew
renewable
renewal
renewals
renewed
renewer
renewers
renewing
renews
reniform
renig
renigged
renigging
renigs
renin
renins
renitent
rennase
rennases
repassed
repasses
repassing
repast
repasted
repasting
repasts
repatriate
repatriated
repatriates
repatriating
repatriation
repatriations
repave
repaved
repaves
repaving
repay
repayable
repaying
repayment
repayments
repays
repeal
repealed
repealer
repealers
repealing
repeals
repeat
repeatable
repeated
repeatedly
repeater
repeaters
repeating
repeats
repel
repelled
repellent
repellents
repeller
repellers
repelling
repels
repent
repentance
repentances
repentant
repented
repenter
repenters
repenting
repents
repeople
repeopled
repeoples
repeopling
repercussion
repercussions
reperk
reperked
reperking
reperks
repertoire
repertoires
repertories
repertory
repetend
repetends
repetition
repetitions
repetitious
repetitiously
repetitiousness
repetitiousnesses
repetitive
repetitively
repetitiveness
repetitivenesses
rephotograph
rephotographed
rephotographing
rephotographs
rephrase
rephrased
rephrases
rephrasing
repin
repine
repined
repiner
repiners
repines
repining
repinned
repinning
repins
replace
replaceable
replaced
replacement
replacements
replacer
replacers
replaces
replacing
replan
replanned
replanning
replans
replant
replanted
replanting
replants
replate
replated
replates
replating
replay
replayed
replaying
replays
repledge
repledged
repledges
repledging
replenish
replenished
replenishes
replenishing
replenishment
replenishments
replete
repleteness
repletenesses
repletion
repletions
replevied
replevies
replevin
replevined
replevining
replevins
reproductive
reprogram
reprogrammed
reprograming
reprograms
reproof
reproofs
repropose
reproposed
reproposes
reproposing
repro
reproval
reprovals
reprove
reproved
reprover
reprovers
reproves
reproving
reps
reptant
reptile
reptiles
republic
republican
republicanism
republicanisms
republican
republics
repudiate
repudiated
repudiates
repudiating
repudiation
repudiations
repudiator
repudiators
repugn
repugnance
repugnances
repugnant
repugnantly
repugned
repugning
repugns
repulse
repulsed
requisitions
requital
requitals
requite
requited
requiter
requiters
requites
requiting
reran
reread
rereading
rereads
rerecord
rerecorded
rerecording
rerecords
reredos
reredoses
reregister
reregistered
reregistering
reregisters
reremice
reremouse
rereward
rerewards
rerise
rerisen
rerises
rerising
reroll
rerolled
reroller
rerollers
rerolling
rerolls
rerose
reroute
rerouted
reroutes
rerouting
rerun
rerunning
reruns
res
resaddle
resaddled
rescreening
rescreens
rescript
rescripts
rescue
rescued
rescuer
rescuers
rescues
rescuing
reseal
resealed
resealing
reseals
research
researched
researcher
researchers
researches
researching
reseat
reseated
reseating
reseats
reseau
reseaus
reseaux
resect
resected
resecting
resects
reseda
resedas
rese
reseed
reseeded
reseeding
reseeds
reseeing
reseek
reseeking
reseeks
reseen
resees
resegregate
resegregated
resegregates
resegregating
resewed
resewing
resewn
resews
resh
reshape
reshaped
reshaper
reshapers
reshapes
reshaping
reshes
reship
reshipped
reshipping
reships
reshod
reshoe
reshoeing
reshoes
reshoot
reshooting
reshoots
reshot
reshow
reshowed
reshowing
reshown
reshows
resid
reside
resided
residence
residences
resident
residential
residents
resider
residers
resides
residing
resids
residua
residual
residuals
residue
residues
residuum
residuums
resift
resifted
resifting
resifts
resign
resignation
resignations
resigned
resignedly
resigner
resigners
resigning
resigns
resile
resiled
resiles
resilience
resiliences
resiliencies
resiliency
resilient
resiling
resilver
resilvered
resilvering
resilvers
resin
resinate
resinated
resinates
resinating
resined
resinified
resinifies
resinify
resinifying
resining
resinoid
resinoids
resinous
resins
resiny
resist
resistable
resistance
resistances
resistant
resolver
resolvers
resolves
resolving
resonance
resonances
resonant
resonantly
resonants
resonate
resonated
resonates
resonating
resorb
resorbed
resorbing
resorbs
resorcin
resorcins
resort
resorted
resorter
resorters
resorting
resorts
resought
resound
resounded
resounding
resoundingly
resounds
resource
resourceful
resourcefulness
resourcefulnesses
resources
resow
resowed
resowing
resown
resows
respect
respectabilities
respectability
respectable
respectably
respected
respector
restfuller
restfullest
restfully
restimulate
restimulated
restimulates
restimulating
resting
restitution
restive
restively
restiveness
restivenesses
restless
restlessness
restlessnesses
restock
restocked
restocking
restocks
restorable
restoral
restorals
restoration
restorations
restorative
restoratives
restore
restored
restorer
restorers
restores
restoring
restrain
restrainable
restrained
restrainedly
restrainer
restrainers
restraining
restrains
restraint
restraints
restricken
restrict
restricted
restricting
restriction
restrictions
restrictive
restrictively
restricts
restrike
restrikes
restricking
restring
restringing
restrings
restrive
restriven
restrives
restriving
restrove
restruck
restructure
restructured
restructures
restructuring
restrung
rests
restudied
restudies
restudy
restudying
restuff
restuffed
restuffing
restuffs
restyle
restyled
restyles
restyling
resubmit
resubmits
resubmitted
resubmitting
result
resultant
resulted
resulting
results
resume
resumed
resumer
resumers
ret
etable
etable
etails
tail
tailed
tailer
tailers
tailing
tailor
tailored
tailoring
tailors
tails
tain
tained
tainer
tainers
taining
ains
take
taken
aker
akers
akes
aking
aliate
aliated
iates
iating
iation
iations
iatory
ard
ardation
ardations
arded
arder
aders
arding
ards
aste
asted
astes
asting
aught
etch
etch
etches
retching
rete
reteach
reteaches
reteaching
retell
repeating
retests
rethink
rethinking
rethinks
rethought
rethread
rethreaded
rethreading
rethreads
retia
retial
retiarii
retiary
reticence
reticences
reticent
reticently
reticle
reticles
reticula
reticule
reticules
retie
retied
reties
retiform
retighten
retightened
retightening
retightens
retorted
retorter
retorters
retorting
retorts
retouch
retouched
retouches
retouching
retrace
retraced
retraces
retracing
retrack
retracked
retracking
retracks
retract
retractable
retracted
retracting
retraction
retractions
retracts
retrain
retrained
retraining
retrains
retral
retrally
retranslate
retranslated
retranslates
retranslating
retransmit
retransmitted
retransmitting
retransmits
retransplant
retransplanted
retransplanting
retransplants
retread
retreaded
retreading
retreads
retreat
retreated
retreating
retreatment
retreats
retrench
retrenched
retrenches
retrenching
retrenchment
retrenchments
retrial
retrials
retribution
retributions
retributive
retributory
retried
retries
retrievabilities
retrievability
retrievable
retrieval
retrievals
retrieve
retrieved
retriever
retrievers
retrieves
retrieving
retrim
retrimmed
retrimming
retrims
retroact
retroacted
retroacting
retroactive
retroactively
retroacts
retrofit
retrofits
retrofitted
retrofitting
retrograde
retrogress
retrogressed
retrogresses
retrogressing
retrogression
retrogressions
retorse
retrospect
retrospection
retrospections
retrospective
retrospectively
retrospectives
retry
retrying
rets
retsina
retinas
retted
retting
retune
retuned
retunes
retuning
return
returnable
returned
returnee
returnees
returner
returners
returning
returns
retuse
retwist
retwisted
retwisting
retwists
retrying
retype
retyped
retypes
retying
reunified
reunifies
reunify
reunifying
reunion
reunions
reunite
reunited
reuniter
reunitors
rewashing
rewax
rewaxed
rewaxes
rewaxing
rewave
rewaved
rewaves
rewaving
rewed
reweigh
reweighed
reweighing
reweighs
reweld
rewelded
rewelding
rewelds
rewiden
rewidened
rewidening
rewidens
rewin
rewind
rewinded
rewinder
rewinders
rewinding
rewinds
rewinning
rewins
 rewire
rewired
rewires
rewiring
rewoke
rewoken
rewon
reword
reworded
rewording
rewords
rework
reworked
reworking
reworks
rewound
rewove
rewoven
rewrap
rewrapped
rewrapping
rewraps
rewrapt
rewrite
rewriter
rewriters
rewrites
rewriting
rewritten
rewrote
rewrought
rex
raxes
reynard
reynards
rezone
rezoned
rezones
rezoning
rhabdom
rhabdome
rhabdomes
rhabdoms
rhachides
rhachis
rhachises
rhamnose
rhamnoses
rhamnus
rhamnuses
rhaphe
rhaphe
rhapses
rhapsode
rhapsodes
rhapsodic
rhapsodically
rhapsodies
rhapsodize
rhapsodized
rhapsodizes
rhapsodizing
rhapsody
rhatanies
rhatany
rhea
rheas
rhebok
rheboks
rhematic
rhenium
rheniums
rheobase
rheobases
rheologies
rheology
rheophil
rheostat
rheostats
rhesus
rhesuses
rhetor
rhetoric
rhetorical
rhetorician
rhetoricians
rhetorics
rhetors
rheum
rheumatic
rheumatism
rheumatisms
rheumic
rheumier
rheumiest
rheums
rheumy
rhinal
rhinestone
rhinestones
rhinitides
rhinitis
rhino
rhinoceri
rhinoceros
rhinoceroses
rhinos
rhizobia
rhizoid
rhizoids
rhizoma
rhizomata
rhizome
rhizomes
rhizomic
rhizopi
rhizopod
rhizopods
rhizopus
rhizopuses
rho
rhodamin
rhodamins
rhodic
rhodium
rhodiums
rhododendron
rhododendrons
rhodora
rhodoras
rhomb
rhombi
rhombic
rhomboid
rhomboids
rhombs
rhombus
rhombuses
rhonchal
rhonchi
rhonchus
rhos
rhubarb
rhubarbs
rhumb
rhumba
rhumbaed
rhumbaing
rhumbas
rhumbs
thus
rhuses
rhyme
rhymed
rhymer
rhymers
rhymes
rhyming
rhyolite
rhyolites
rhyta
riming
rimland
rimlands
rimless
rimmed
rimmer
rimmers
rimming
rimose
rimosely
rimosities
rimosity
rimous
rimple
rimpled
ripples
rimpling
rimrock
rimrocks
rims
rimy
rin
rind
rinded
rinds
ring
ringbark
ringbarked
ringbarking
ringbarks
ringbolt
ringbolts
ringbone
ringbones
ringdove
ringdoves
ringed
ringent
ringer
ringers
ringhals
ringhalses
ringing
ringleader
ringlet
ringlets
ringlike
ringneck
rivalries
rivalry
rivals
rive
rived
riven
river
riverbank
riverbanks
riverbed
riverbeds
riverboat
riverboats
riverine
rivers
riverside
riversides
rives
rivet
riveted
riveter
riveters
riveting
rivets
rivetted
rivetting
riviera
rivieras
riviere
rivieres
riving
rivulet
rivulets
riyal
riyals
roach
roached
roaches
roaching
road
roadbed
roadbeds
roadblock
roadblocks
roadless
roadrunner
roadrunners
roads
roadside
roadsides
roadster
roadsters
roadway
roadways
roadwork
roadworks
roam
roamed
roamer
roamers
roaming
roams
roan
roar
roared
roarer
roarers
roaring
roarings
roars
roast
roasted
roaster
roasters
roasting
roasts
rob
robalo
robalos
roband
robands
robbed
robber
robberies
robbers
robbery
robin
robbing
robbins
robe
robed
robes
robin
robing
robins
rogued
rogueing
rogueries
roguery
rogues
roguing
roguish
roguishly
roguishness
roguishnesses
roil
roiled
roilier
roiliest
roiling
roils
roily
roister
roistered
roistering
roisters
rolamite
rolamites
role
roles
roll
rollaway
rollback
rollback
rolld
rolled
roller
rollers
rollick
rollicked
rollicking
rollicks
rollicky
rolling
rollings
rollmop
rollmops
rollout
rollouts
rollover
rollovers
rolls
rolltop
rollway
rosier
rosiest
rosily
rosin
rosined
rosiness
rosinesses
rosing
rosining
rosinous
rosins
rosiny
rosildale
rosolio
rosolios
rostella
roster
rosters
rostra
rostral
rostrate
rostrum
rostrums
rosulate
rosy
rot
rota
rotaries
rotary
rotas
rotate
rotated
rotates
rotating
rotation
rotations
rotative
rotator
rotatores
rotators
rotatory
rotch
rotche
rotches
rote
rotenone
rotenones
rotes
royalties
royalty
royster
roystered
roystering
roysters
rozzer
rozzers
rub
rubaboo
rubaboos
rubace
rubaces
rubaiyat
rubasse
rubasses
rubato
rubatos
rubbaboo
rubbaboons
rubbed
rubber
rubberize
rubberized
rubberizes
rubberizing
rubbers
rubbery
rubbing
rubbings
rubbish
rubbishes
rubbishy
rubble
rubbled
rubbles
rubbler
rubbliest
rubbling
rubbly
rubdown
rubdowns
rube
rubella
rubellas
rubeola
rubeolar
rubeolas
rumpus
rumpuses
rums
run
runabout
runabouts
runagate
runagates
runaround
runarounds
runaway
runaways
runback
runbacks
rundle
rundles
rundlet
rundlets
rundown
rundowns
rune
runelike
runes
rung
rungless
rungs
runic
runkle
runkled
runkles
runkling
runless
runlet
runlets
runnel
runnels
runner
runners
runnier
runniest
running
runnings
runny
runoff
runoffs
runout
runouts
runover
ruthlessnesses
ruths
rutilant
rutilate
rutilus
ruts
rutted
ruttier
ruttiest
rutily
rutting
ruttish
rutty
rya
ryas
rye
ryegrass
ryegrasses
ryes
ryke
ryked
rykes
ryking
rynd
rynds
ryot
ryots
sab
sabaton
sabatons
sabbat
sabbath
sabbaths
sabbatic
sabbats
sabbed
sabbing
sabe
sabed
sabeing
saber
sabered
sabering
sabers
sabes
sabin
sabine
sabines
sackcloth
sackcloths
sacked
sacker
sackers
sackful
sackfuls
sacking
sackings
sacklike
sacks
sacksful
saclike
sacque
sacques
sacra
sacral
sacrels
sacrament
sacramental
sacraments
sacraria
sacred
sacredly
sacrifice
sacrificed
sacrifices
sacificial
sacrifically
sacrificing
sacrilege
sacrileges
sacriligious
sacriligiously
sacrist
sacristies
sacrists
sacristy
sacrosanct
sacrum
sacs
sad
sadden
saddened
saddening
saddens
sadder
saddest
sainthoods
saining
saintlier
saintliest
saintliness
saintlinesses
saintly
saints
saith
saithe
saiyid
saiyids
sajou
sajous
sake
saker
sakers
sakes
saki
sakis
sal
salaam
salaamed
salaaming
salaams
salable
salably
salacious
salacities
salacity
salad
saladang
saladangs
salads
salamander
salamanders
salami
salamis
salariat
salarisats
salaried
salaries
salary
salarying
sale
saleable
saleably
salep
saleps
saleroom
salerooms
sales
salesman
salesmen
saleswoman
saleswomen
salic
salicin
salicine
salicines
salicins
salience
saliences
saliencies
saliency
salient
salients
salified
salifies
salify
salifying
salina
salinas
saline
salines
salinities
salinity
salinize
salinized
salinizes
salinizing
saliva
salivary
salivas
salivate
salivated
salivates
salivating
salivation
salivations
sall
sallet
sallets
sallied
sallier
salliers
sallies
sallow
sallowed
saller
sallower
sallowest
sallowing
sallowly
sallows
sallowy
sally
sallying
salmi
salmis
salmon
salmonid
salmonids
salmons
salol
salols
salon
salons
saloon
saloons
saloop
saloops
salp
salpa
salpae
salpas
salpian
salpians
salpid
salpids
salpinges
salpinx
salps
sals
salsifies
salsify
salsilla
salsillas
salt
saltant
saltbox
saltboxes
saltbush
saltbushes
salted
salter
saltern
salterns
salters
saltest
saltie
saltier
saltiers
salties
saltiest
saltily
saltine
saltines
saltiness
saltinesses
salting
saltire
saltires
saltish
saltless
saltlike
saltness
saltinesses
saltpan
saltpans
salts
saltwater
saltwaters
saltwork
saltworks
saltwort
saltworts
salty
salubrious
saluki
salukis
salutary
salutation
salutations
salute
saluted
saluter
saluters
salutes
saluting
salvable
salvably
salvage
sanctimonious
sanction
sanctioned
sanctioning
sanctions
sanctities
sanctity
sanctuaries
sanctuary
sanctum
sanctums
sand
sandal
sandaled
sandaling
sandalled
sandalling
sandals
sandarac
sandaracs
sandbag
sandbagged
sandbagging
sandbags
sandbank
sandbanks
sandbar
sandbars
sandbox
sandboxes
sandbur
sandburr
sandburrs
sandburs
sanded
sander
sanders
sandfish
sandfishes
sandflies
sandfly
sandhi
sandhis
sandhog
sandhogs
sandier
sandiest
sanding
sandlike
sandling
sandlings
sandlot
sandlots
sandman
sandmen
sandpaper
sandpapered
sandpapering
sandpapers
sandpeep
sandpeeps
sandpile
sandpiles
sandpiper
sandpipers
sandpit
sandpits
sands
sandsoap
sandsoaps
sandstone
sandstones
sandstorm
sandstorms
sandwich
sandwiched
sandwiches
sandwiching
sandworm
sandworms
sandwort
sandworts
sandy
sane
saned
sanely
saneness
sanenesses
saner
sanes
sanest
sang
sanga
sangar
sangaree
sangarees
sangars
sangas
sanger
sangers
sangh
sanghs
sangria
sangrias
sanguinary
sanguine
sanguines
sanicle
sanicles
sanies
saning
sanious
sanitaria
sanitaries
sanitarium
sanitariums
sanitary
sanitate
sanitated
sanitates
sanitating
sanitation
sanitations
sanities
sanitise
sanitised
sanitises
sanitising
sanitize
sanitized
sanitizes
sanitizing
sanity
sanjak
sanjaks
sank
sannop
sannops
sannup
sannups
sannyasi
sannyasisis
sans
sansar
saunas  
saunter  
sauntered  
sauntering  
saunters  
saurel  
saurels  
saurian  
saurians  
sauries  
sauropod  
sauropods  
saury  
sausage  
sausages  
saute  
sautéed  
sautéed  
sautéing  
sautérne  
sauténes  
sautes  
sautoir  
sautoire  
sautoires  
sautoirs  
sáveis  
savage  
savage  
savaged  
savagely  
savageness  
savagenesses  
savager  
savageries  
savagery  
savages  
savages  
savagist  
saving  
savagism  
savagisms  
savanna  
savannah  
savannahs  
savannas  
savant  
savants  
savate  
savates
sawbill
sawbills
sawbones
sawboneses
sawbuck
sawbucks
sawdust
sawdusts
sawed
sawer
sawers
sawfish
sawfishes
sawflies
sawfly
sawhorse
sawhorses
sawing
sawlike
sawlog
sawlogs
sawmill
sawmills
sawn
sawney
sawneys
saws
sawteeth
sawtooth
sawyer
sawyers
sax
saxatile
saxes
saxhorn
saxhorns
saxonies
saxony
saxophone
saxophones
saxtuba
saxtubas
say
sayable
sayer
sayers
sayest
sayid
scampered
scampering
scampers
scampi
scamping
scampish
scamps
scams
scan
scandal
scandalized
scandalizing
scandalize
scandalized
scandalizes
scandalizing
scandalized
scandalising
scandalous
scandals
scendent
scandia
scandias
scandic
scandium
scandiums
scanned
scanner
scanners
scanning
scannings
scans
scansion
scansions
scant
scanted
scanter
scantest
scantier
scanties
scantiest
scantily
scanting
scantly
scants
scanty
scape
scaped
schmoes
schmoos
schmoose
schmoosed
schmooses
schmoosing
schmooze
schmoozed
schmoozes
schmoozing
schmuck
schmucks
schnapps
schnaps
schnecke
schnecken
schnook
schnooks
scholar
scholars
scholarship
scholarships
scholastic
scholia
scholium
scholiums
school
schoolboy
schoolboys
schooled
schoolgirl
schoolgirls
schoolhouse
schoolhouses
schooling
schoolmate
schoolmates
schoolroom
schoolrooms
schools
schoolteacher
schoolteachers
schooner
schooners
shcolr
shorls
schrik
schriks
schtick
schticks
schuit
schuits
schul
schuln
schuss
schussed
schusses
schussing
schwa
schwas
sciaenid
sciaenids
sciatic
sciatica
sciaticas
sciatics
science
sciences
scientific
scientifically
scientist
scientists
scilicet
scilla
scillas
scimetar
scimetars
scimitar
scimitars
scimier
scimiters
scincoid
scincoids
scintillate
scintillated
scintillates
scintillating
scintillation
scintillations
sciolism
sciolisms
sciolist
sciolists
scion
scions
scirocco
scrap
scratch
scratched
scratches
scratchier
scratchiest
scratching
scratchy
scrawl
scrawled
scrawler
scrawlers
scrawler
scrawliest
scrawling
scrawls
scrawly
scrawnier
scrawniest
scrawny
scream
screaked
screaking
screaks
screaky
screamed
screamer
screamers
screaming
screams
screed
screeding
screeds
screen
screened
screens
screening
screen
scraper
scraped
scrapers
scraping
scraps
scratch
scratched
scratches
scratchier
scratchiest
scratching
scratchy
scrawl
scrawled
scrawler
scrawlers
scrawler
scrawliest
scrawling
scrawls
scrawly
scrawnier
scrawniest
scrawny
scream
screaked
screaking
screaks
screaky
screamed
screamer
screamers
screaming
screams
screed
screeding
screeds
screen
screened
screener
screeners
screening
scruffy
scrum
scrums
scrunch
scrunched
scrunches
scrunching
scruple
scrupled
scruples
scrupling
scrupulous
scrupulously
scrutinies
scrutinize
scrutinized
scrutinizes
scrutinizing
scrutiny
scuba
scubas
scud
scudded
scudding
scudi
scudo
scuds
scuff
scuffed
scuffing
scuffle
scuffed
sculler
scufflers
scuffles
scuffling
scuffs
sculk
sculked
sculker
sculkers
sculking
sculks
scull
sculled
sculler
sculleries
scullers
scurf
scurfier
curfiest
scurfs
scurfy
scurried
scurries
scurril
scurrile
scurrilous
scurry
scurrying
scurvier
scurvies
scurviest
scurvily
scurvy
scut
scuta
scutage
scutages
scutate
scutch
scutched
scucher
scuchers
scutches
scutching
scute
scutella
scutes
scuts
scutter
scuttered
scuttering
scutters
scuttle
scuttled
scuttes
scutting
scutum
scyphate
scythe
scythed
scythes
scything
sea
seabag
seabags
seabeach
seabeaches
seabed
seabeds
seabird
seabirds
seaboard
seaboards
seaboot
seaboots
seaborne
seacoast
seacoasts
seacock
seacocks
seacraft
seacrafts
seadog
seadogs
seadrome
seadromes
seafarer
seafarers
seafaring
seafarings
seafloor
seafloors
seafood
seafoods
seafowl
seafowls
seafront
seafronts
seagirt
seagoing
seal
sealable
sealant
sealants
sealed
sealer
sealeries
sealers
sealery
sealing
seallike
seals
secundly
secundum
secure
secured
securely
securer
securers
secures
securest
securing
secures
securest
securer
securers
secured
security
sedan
sedans
sadarim
sedate
sedated
sedately
sedater
sedates
sedatest
sedating
sedation
sedations
sedative
sedatives
sedentary
seder
seders
sederunt
sederunts
sedge
sedges
sedgier
sedgiest
sedgy
sedile
sedilia
sedilium
sediment
sedimentary
sedimentation
sedimentations
sedimented
sedimenting
sediments
sedition
seditions
seditious
seduce
seduced
seducer
seducers
seduces
seducing
seductive
seduction
seductions
seductive
sedulities
sedulity
sedulous
sedum
sedums
see
seeable
seecatch
seecatchie
seed
seedbed
seedbeds
seedcake
seedcakes
seedcase
seedcases
seeded
seeder
seeders
seedier
seediest
seedily
seeding
seedless
seedlike
seedling
seedlings
seedman
seedsman
seeds
seedsman
seedsmen
seedtime
seedtimes
seedy
selections
selective
selectly
selectman
selectmen
selector
selectors
selects
selenate
selenates
selenic
selenide
selenides
selenite
selenites
selenium
seleniums
selenous
self
selfdom
selfdoms
selfed
selfheal
selfheals
selfhood
selfhoods
selfing
selfish
selfishly
selfishness
selfishnesses
selfless
selflessness
selflessnesses
selfness
selfnesses
selves
selfsame
selfward
sell
sellable
selle
seller
sellers
selles
selling
sellout
sellouts
sells
sels
selsyn
selsyns
seltzer
seltzers
selvage
selvaged
selvages
selvedge
selvedges
selves
semantic
semantics
semaphore
semaphores
sematic
semblance
semblances
seme
sememe
sememes
semen
semens
semes
semester
semesters
semi
semiarid
semibald
semicolon
semicolon
semicolons
semicoma
emicomas
semiconductor
semiconductors
semideaf
semidome
semidomes
semidy
semifinal
semifinalist
semifinalists
semifinals
semifit
semiformal
semigala
semihard
sendal
sendals
sender
senders
sending
sendoff
sendoffs
sends
seneca
senecas
senecio
senecios
senega
senegas
sengi
senhor
senhora
senhoras
senhores
senhors
senile
senilely
seniles
senilities
senility
senior
seniorities
seniority
seniors
seniti
senna
sennas
sennet
sennets
sennight
sennights
sennit
sennits
senopia
senopias
senor
senora
senoras
senores
senorita
senoritas
senors
sensa
sensate
sensated
sensates
sensating
sensation
sensational
sensations
sense
sensed
senseful
senseless
senselessly
senses
sensibilities
sensibility
sensible
sensibler
sensibles
sensiblest
sensibly
sensilla
sensing
sensitive
sensitiveness
sensitivenesses
sensitivities
sensitivity
sensitize
sensitized
sensitizes
sensitizing
sensor
sensoria
sensors
sensory
sensual
sensualist
sensualists
sensualities
sensuality
sensually
sensum
sensuous
sensuously
sensuousness
sensuousnesses
sent
sentence
sentenced
sentences
sentencing
sententious
senti
sentient
sentients
sentiment
sentimental
sentimentalism
sentimentalisms
sentimentalist
sentimentalists
sentimentalize
sentimentalized
sentimentalizes
sentimentalizing
sentimentally
sentiments
sentinel
sentineled
sentineling
sentinelled
sentinelling
sentinels
sentries
sentry
sepal
sepaled
sepaline
sepalled
sepaloid
sepalous
sepals
separable
separate
separated
separately
separates
separating
separation
separations
separator
separators
sepia
sepias
sepic
sepoy
sermon
sermonic
sermons
serologies
serology
serosa
serosae
serosal
serosas
serosities
serosity
serotine
serotines
serotype
serotypes
serous
serow
serows
serpent
serpentine
serpents
serpigines
serpigo
serpigoes
serranid
serranids
serrate
serrated
serrates
serrating
serried
serries
serry
serrying
sers
serum
serumal
serums
servable
serval
serval
serval
servants
serve
served
server
servers
serves
service
serviceable
serviced
serviceman
servicemen
servicer
servicers
services
servicing
servile
servilities
servility
serving
servings
servitor
servitors
servitude
servitudes
servo
servos
sesame
sesames
sesamoid
sesamoids
sessile
session
sessions
sesspool
sesspools
sesterce
sesterces
sestet
sestets
sestina
sestinas
sestine
sestines
set
seta
setae
setal
setback
setbacks
setiform
setline
setlines
setoff
setoffs
seton
setons
setose
setous
setout
setouts
sets
setscrew
setscrews
settee
settees
setter
setters
setting
settings
settle
settled
settlement
settlements
settler
settlers
settles
settling
settlings
settlor
settlers
setulose
setulous
setup
setups
seven
sevens
seventeen
seventeens
seventeenth
seventeenth
seventeenths
seventh
sevenths
seventies
seventieth
seventieth
seventieths
seventy
sever
several
severals
severance
severances
severe
shallow
shallowed
shallower
shallowest
shallowing
shallows
shalom
shalt
shaly
sham
shamable
shaman
shamanic
shamans
shamble
shambled
shambles
shambling
shame
shamed
shamefaced
shameful
shamefully
shameless
shamelessly
shames
shaming
shammas
shammash
shammashim
shammasim
shammed
shammer
shammers
shammes
shammied
shammies
shamming
shammos
shammosim
shammy
shammying
shamois
shamosim
shamoy
shamoyed
shamoying
shamoys
shampoo
shampooed
shampooing
shampoos
shamrock
shamrocks
shams
shamus
shamuses
shandies
shandy
shanghai
shanghaied
shanghaiing
shanghais
shank
shanked
shanking
shanks
shantey
shanteys
shanti
shanties
shantih
shantihs
shantis
shantung
shantungs
shanty
shapable
shape
shaped
shapeless
shapelier
shapeliest
shapely
shapen
shaper
shapers
shapes
shapeup
shapeups
shaping
sharable
shard
shards
share
sharecrop
shaslik
shasliks
shat
shatter
shattered
shattering
shatters
shaugh
shaughs
shaul
shauled
shauling
shauls
shavable
shave
shaved
shaven
shaver
shavers
shaves
shavie
shavies
shaving
shavings
shaw
shawed
shawing
shawl
shawled
shawling
shawls
shawm
shawms
shawn
shaws
shay
shays
she
shea
sheaf
sheafed
sheafing
sheafs
sheal
shealing
shealings
sheals
shear
shellers
shellfish
shellfishes
shellier
shelliest
shelling
shells
shelly
shelter
sheltered
sheltering
shelters
sheltie
shelties
shelty
shelve
shelved
shelver
shelvers
shelves
shelvier
shelviest
shelving
shelvings
shelvy
shenanigans
shend
shending
shends
shent
sheol
sheols
shepherd
shepherded
shepherdess
shepherdesses
shepherding
shepherds
sherbert
sherberts
sherbet
sherbets
sherd
sherd
shereef
shereefs
sherif
sheriff
sheriffs
sherifs
sherlock
sherlocks
sheroot
sheroots
sherris
sherrises
sherry
shes
shetland
shetlands
sheuch
sheuchs
sheugh
sheughs
shew
shewed
shewed
shewer
shewers
shewing
shewn
shews
shh
shibah
shibahs
shicksa
shicksas
shied
shiel
shield
shielded
shilder
shilders
shielding
shields
shieling
shielings
shiel
shier
shiers
shies
shiest
shift
shifted
shifter
shifters
shoppes
shopping
shoppings
shops
shoptalk
shoptalks
shopworn
shoran
shorans
shore
shorebird
shorebirds
shored
shoreless
shores
shoring
shorings
shorl
shorls
shorn
short
shortage
shortages
shortcake
shortcakes
shortchange
shortchanced
shortchanges
shortchanging
shortcoming
shortcomings
shortcut
shortcuts
shorted
shorten
shortened
shortening
shortens
shorter
shortest
shorthand
shorthands
shortia
shortias
shortie
shorties
shorting
shortish
showboat
showboats
showcase
showcased
showcases
showcasing
showdown
showdowns
showed
shower
showered
showering
showers
showery
showgirl
showgirls
showier
showiest
showily
showiness
showinesses
showing
showings
showman
showmen
shown
showoff
showoffs
showroom
showrooms
shows
showy
shrank
shrapnel
shred
shredded
shredder
shredders
shredding
shreds
shrew
shrewd
shrewder
shrewdest
shrewdly
shrewdness
shrewdnesses
shrewed
shutouts
shuts
shutter
shuttered
shuttering
shutters
shutting
shuttle
shuttlecock
shuttlecocks
shuttled
shuttles
shutting
shwanpan
shwanpans
shy
shyer
shyers
shyest
shying
shylock
shylocked
shylocking
shylocks
shyly
shyness
shynesses
shyster
shysters
si
sial
sialic
sialoid
sials
siamang
siamangs
siamese
siameses
sib
sibb
sibbs
sibilant
sibilants
sibilate
sibilated
sibilates
sibilating
sibling
siblings
sibs
sibyl
sibylic
sibyllic
sibyls
sic
siccan
siced
siccing
sice
sices
sick
sickbay
sickbays
sickbed
sickbeds
sicked
sicken
sickened
sickener
sickeners
sickening
sickens
sicker
sickerly
sickest
sicking
sickish
sickle
sickled
sickles
sickled
sicklier
sicklies
sickliest
sicklily
sickling
sickly
sicklying
sickness
sicknesses
sickroom
sickrooms
sicks
sics
siddur
siddurim
siddurs
side
sidearm
sideband
sidebands
sideboard
sideboards
sideburns
sidecar
sidecars
sided
sidehill
sidehills
sidekick
sidekicks
sideline
sidelined
sidelines
sideling
sidelining
sidelong
sideman
sidemen
sidereal
siderite
siderites
sides
sideshow
sideshow
sideslip
sideslipped
sideslipping
sideslips
sidespin
sidespins
sidestep
sidestepped
sidestepping
sidesteps
sideswipe
sideswiped
sideswipes
sideswiping
sidetrack
sidetracked
sidetracking
sidetracks
sidewalk
silken
silkier
silkiest
silkily
silkling
silklike
silks
silkweed
silkweeds
silkworm
silkworms
silky
sill
sillabub
sillabubs
siller
sillers
sillibib
sillibibs
sillier
sillies
silliest
sillily
silliness
sillinesses
sills
silly
silo
siloed
siloing
silos
siloxane
siloxanes
silt
silted
siltier
siltiest
siltling
silts
silty
silurid
silurids
siluroid
siluroids
silva
silvae
silvan
silvans
simulars
simulate
simulated
simulates
simulating
simulation
simulations
simultaneous
simultaneously
simultaneousness
simultaneousnesses
sin
sinapism
sinapisms
since
sincere
sincerely
sincerer
sincerest
sincerities
sincerity
sincipita
sinciput
sinciputs
sine
sinecure
sinecures
sines
sinew
sinewed
sinewing
sinews
sinewy
sinfonia
sinfonie
sinful
sinfully
sing
singable
singe
singed
singeing
singer
singers
singes
singing
single
singled
sinulate
sinuated
sinuates
sinuating
sinuous
sinuosities
sinuousity
sinuously
sinus
sinuses
sinusoid
sinusoids
sip
sipe
siped
sipes
siphon
siphonal
siphoned
siphonic
siphoning
siphons
siping
sipped
sipper
sippers
sippet
sippets
sipping
sips
sir
sirdar
sirdars
sire
sired
siree
sirees
siren
sirenian
sirenians
sirens
sires
siring
sirloin
sirloins
sirocco
siroccos
sirra
skyscraper
skyscrapers
skyward
skywards
skyway
skyways
skywrite
skywrites
skywriting
skywritten
skywrote
slab
slabbed
slabber
slabbered
slabbering
slabbers
slabbery
slabbing
slabs
slack
slacked
slacken
slackened
slackening
slackens
slacker
slackers
slackest
slacking
slackly
slackness
slacknesses
slacks
slag
slagged
slaggier
slaggiest
slagging
slaggy
slags
slain
slakable
slake
slaked
slaker
slakers
slakes
slatches
slate
slated
slater
slaters
slates
slather
slathered
slathering
slathers
slatier
slatiest
slating
slatings
slats
slatted
slattern
slatterns
slatting
slaty
slaughter
slaughtered
slaughterhouse
slaughterhouses
slaughtering
slaughters
slave
slaved
slaver
slavered
slaverer
slaverers
slaveries
slavering
slavers
slavery
slaves
slavey
slaveys
slaving
slavish
slaw
slaws
slay
slayer
slayers
slaying
slays
sleeplessness
sleeps
sleepwalk
sleepwalked
sleepwalker
sleepwalkers
sleepwalking
sleepwalks
sleepy
sleet
sleeted
sleetier
sleetiest
sleeting
sleets
sleety
sleeve
sleeved
sleeveless
sleeves
sleeping
sleight
sleighed
sleigher
sleighers
sleighing
sleighs
sleight
sleights
slender
slenderer
slenderest
slept
sleuth
sleuthed
sleuthing
sleuths
slew
slewed
slewing
slews
slice
sliced
slicer
slicers
slices
slicing
slick
sloggers
slogging
slogs
sloid
sloids
slojd
slojds
sloop
sloops
slop
slope
sloped
sloper
slopers
slopes
sloping
slopped
sloppier
sloppiest
sloppily
slopping
sloppy
slops
slopwork
slopworks
slosh
sloshed
sloshes
sloshier
sloshiest
sloshing
slosely
slot
slotback
slotbacks
sloth
slothful
sloths
slots
slotted
slotting
slouch
slouched
sloucher
slouchers
slouches
slouchier
slouchiest
slouching
slouchy
slough
sloughed
sloughier
sloughiest
sloughing
sloughs
sloughy
sloven
slovenlier
slovenliest
slovenly
slovens
slow
slowdown
slowdowns
slowed
slower
slowest
slowing
slowish
slowly
slowness
slownesses
slowpoke
slowpokes
slows
slowworm
slowworms
sloyd
sloyds
slub
slubbed
slubber
slubbered
slubbering
slubbers
slubbing
slubbings
slubs
sludge
sludges
sludgier
sludgiest
sludgy
slue
slued
slues
sluff
sluffed
sluffing
sluffs
slug
slugabed
slugabeds
slugfest
slugfests
sluggard
sluggards
slugged
slugger
sluggers
slugging
sluggish
sluggishly
sluggishness
sluggishnesses
slugs
sluice
sluiced
sluices
sluicing
sluicy
sluing
slum
slumber
slumbered
slumbering
slumbers
slumbery
slumgum
slumgums
slumlord
slumlords
slummed
slummer
slummers
slumnier
slummiest
slumming
slummy
slump
slumped
slumping
slumps
smews
smidgen
smidgens
smidgeon
smidgeons
smidgin
smidgins
smilax
smilaxes
smile
smiled
smiler
smilers
smiles
smiling
smirch
smirched
smirches
smirching
smirk
smirked
smirker
smirkers
smirkier
smirkiest
smirking
smirks
smirky
smit
smite
smiter
smiters
smites
smith
smitheries
smithery
smithies
smiths
smithy
smiting
smitten
smock
smocked
smocking
smockings
smocks
smog
smoggier
smokey
smorgasbord
smorgasbords
smote
smother
smothered
smothering
smothers
smothery
smoulder
smouldered
smouldering
smoulders
smudge
smudged
smudges
smudgier
smudgiest
smudgily
smudging
smudgy
smug
smugger
smuggest
smuggle
smuggled
smuggler
smugglers
smuggles
smuggling
smugly
smugness
smugnesses
smut
smutch
smutched
smutches
smutchier
smutchiest
smutching
smucky
smuts
smutted
smuttier
smuttiest
smuttily
smutting
smutty
snack
snacked
snacking
snacks
snaffle
snaffled
snaffles
snaffling
snafu
snafued
snafuing
snafus
snag
snagged
snaggier
snaggiest
snagging
snaggy
snaglike
snags
snail
snailed
snailing
snails
snake
snaked
snakes
snakier
snakiest
snakily
snaking
snaky
snap
snapback
snapbacks
snapdragon
snapdragons
snapless
snapped
snapper
snappers
snappier
snappiest
snappily
snapping
snappish
snappy
snaps
snapshot
snapshots
snapshotted
snapshooting
snapweed
snapweeds
snare
snared
snarer
snarers
snares
snaring
snark
snarks
snarl
snarled
snarler
snarlers
snarlier
snarliest
snarling
snarls
snarly
snash
snashes
snatch
snatched
snatcher
snatchers
snatches
snatchier
snatchiest
snatching
snatchy
snath
snathe
snathes
snaths
snares
snaw
sawed
sawing
saws
snazzier
snazziest
snazzy
sneak
sneaked
sneaker
snookers
snooking
snooks
snool
snooled
snooling
snools
snoop
snooped
snooper
snoopers
snoopier
snoopiest
snoopyly
snooping
snoops
snoopy
snoot
snooted
snootier
snooziest
snootily
snooting
snoots
snooty
snooze
snoozed
snoozer
snoozers
snoozes
snoozier
snooziest
snoozing
snooze
snoozled
snoozles
snoozling
snoozy
snore
snored
snorer
snorers
snores
snoring
snorkel
snorkeled
snorkeling
snorkels
snort
snorted
snorter
snorters
snorting
snorts
snot
snots
snottier
snottiest
snottily
snotty
snout
snouted
snoutier
snoutiest
snouting
snoutish
snouts
snouty
snow
snowball
snowballed
snowballing
snowballs
snowbank
snowbanks
snowbell
snowbells
snowbird
snowbirds
snowbush
snowbushes
snowcap
snowcaps
snowdrift
snowdrifts
snowdrop
snowdrops
snowed
snowfall
snowfalls
snowflake
snowflakes
snowier
snowiest
snowily
snowing
snowland
snowlands
snowless
snowlike
snowman
snowmelt
snowmelts
snowmen
snowpack
snowpacks
snowplow
snowplowed
snowplowing
snowplows
snows
snowshed
snowsheds
snowshoe
snowshoed
snowshoeing
snowshoes
snowstorm
snowstorms
snowsuit
snowsuits
snowy
snub
snubbed
snubber
snubbers
snubbier
snubbliest
snubbing
snubby
snubness
snubnesses
snubs
snuck
snuff
snuffbox
snuffboxes
snuffed
suffer
suffers
suffier
suffiest
suffily
snuffling
snuffle
snuffled
snuffler
snufflers
snuffles
snufflier
snuffliest
snuffling
snuffly
snuffs
snuffy
snug
snugged
snugger
snuggery
snuggery
snuggest
snuggling
snuggle
snuggled
snuggles
snuggling
snugly
snugness
snugnesses
snugs
snye
snyes
so
soak
soakage
soakages
soaked
soaker
soakers
soaking
soaks
soap
soapbark
soapbarks
soapbox
soapboxes
soaped
soapier
soapiest
soapily
soaping
soapless
soaplike
soaps
soapsuds
soapwort
soapworts
soapy
soar
soared
soarer
soarers
soaring
soarings
soars
soave
soaves
sob
sobbed
sobber
sobbers
sobbing
sobeit
sober
sobered
soberer
soberest
sobering
soberize
soberized
soberizes
soberizing
soberly
sobers
sohful
sohrieties
sohriety
sobs
socage
socager
socagers
socages
soccage
soccages
soccer
soccers
sociabilities
sociability
sociable
sociables
soldiery
soldo
sole
solecise
solecised
solecises
solecising
solecism
solecisms
solecist
solecists
solecize
solecized
solecizes
solecizing
soled
soleless
solely
solemn
solemner
solemnest
solemnly
solemnness
solemnnesses
soleness
solenesses
solenoid
solenoids
soleret
solerets
soles
solfege
solfeges
solfeggi
solgel
soli
solicit
solicitation
solicited
soliciting
solicitor
solicitors
solicitous
solicits
solicitude
solicitudes
solid
solidago
solidagos
solidarities
solidarity
solidary
solider
solidest
solidi
solidification
solidifications
solidified
solidifies
solidify
solidifying
solidities
solidity
solidly
solidness
solidnesses
solids
solidus
soliloquize
soliloquized
soliloquizes
soliloquizing
soliloquy
soliloquys
soling
solion
solions
soliquid
soliquids
solitaire
solitaires
solitaries
solitary
solitude
solitudes
solleret
sollerets
solo
soloed
soloing
soloist
soloists
solon
solonets
solonetse
solonetz
sonatas
sonatina
sonatinas
sonatine
sonde
sonder
sonders
sondes
sone
sones
song
songbird
songbirds
songbook
songbooks
songfest
songfests
songful
songless
songlike
songs
songster
songsters
sonic
sonicate
sonicated
sonicates
sonicating
sonics
sonless
sonlike
sonly
sonnet
sonneted
sonneting
sonnets
sonnetted
sonnetting
sonnies
sonny
sonorant
sonorants
sonorities
sonority
sonorous
sonovox
sonovoxes
sons
sonship
sonships
sonsie
sonsier
sonsiest
sosny
soochong
soochongs
sooey
soon
sooner
sooners
soonest
soot
sooted
sooth
soother
soothers
soothes
soothing
soothest
soothily
sooths
soothsaid
soothsay
soothsayer
soothsayers
soothsaying
soothsayings
soothsay
sootier
sootiest
sootily
sooting
soots
sooty
sop
soph
sophies
sophism
sophisms
sophist
sophistic
sophistical
sophisticate
sophisticated
sophisticates
sophistication
sophistications
sophistries
sophistry
sophists
sophomore
sophomores
sophs
sophy
sopite
sopited
sopites
sopiting
sopor
soporific
sopors
sopped
soppier
soppiest
sopping
soppy
soprani
soprano
sopranos
sops
sora
soras
sorb
sorbable
sorbate
sorbates
sorbed
sorbet
sorbets
sorbic
sorbing
sorbitol
sorbitols
sorbose
sorboses
sorbs
sorcerer
sorcerers
sorceress
sorceresses
sourdines
soured
sourer
sourest
souring
sourish
sourly
sourness
sournesses
sourpuss
sourpusses
sours
soursop
soursops
sourwood
sourwoods
sous
souse
soused
soueses
sousing
soutache
soutaches
soutane
soutanes
souter
souters
south
southeast
southeastern
southeasts
southed
souther
southerly
southern
southernmost
southerns
southernward
southernwards
souters
southing
southings
southpaw
southpaws
southron
southrons
souths
southwest
southwesterly
southwestern
southwests
souvenir
souvenirs
sovereign
sovereigns
sovereignties
sovereignty
soviet
soviets
sovkhaz
sovkhazes
sovkhozy
sovran
sovrantly
sovranly
sovrans
sovranties
sovranty
sow
sowable
sowans
sowar
sowars
sowbellies
sowbelly
sowbread
sowbreads
sowcar
sowcars
sowed
sowens
sower
sowers
sowing
sown
sows
sox
soy
soya
soyas
soybean
soybeans
soys
sozin
sozine
sozines
sozins

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 17376
spans
spanworm
spanworms
spar
sparable
sparables
spare
spared
sparely
sparer
sparerib
spareribs
sparers
spares
sparest
sparge
sparged
sparger
spargers
sparges
sparging
sparid
sparids
sparing
sparingly
spark
sparked
sparker
sparkers
sparkier
sparkiest
sparkily
sparking
sparkish
sparkle
sparkled
sparkler
sparklers
sparkles
sparkling
sparks
sparky
sparlike
sparling
sparlings
sparoid
sparoids
sparred
sparrier
sparriest
sparring
sparrow
sparrows
sparry
spars
sparse
sparsely
sparser
sparser
sparkest
sparsities
sparsity
spas
spasm
spasmodic
spasms
spastic
spastics
spat
spate
spates
spathal
spathe
spathed
spathes
spathic
spathose
spatial
spatially
spats
spatted
spatter
spattered
spattering
spatters
spatting
spatula
spatular
spatulas
spavie
spavies
spaviet
spavine
spavined
spavins
spawn
spawned
speculates
speculating
speculation
speculations
speculative
speculator
speculators
speculum
speculums
speed
speech
speeches
speechless
speed
speedboat
speedboats
speeded
speeder
speeders
speedier
speediest
speedily
speeding
speedings
speedometer
speedometers
speeds
speedup
speedups
speedway
speedways
speedy
speel
speeled
speeling
speels
speer
speered
speering
speerings
speers
speil
speiled
speiling
peils
speir
speired
speiring
speirs
speise
speises
speiss
speisses
spelaean
spelean
spell
spellbound
spelled
speller
spellers
spelling
spellings
spells
spelt
spelter
spelters
spelts
speltz
speltzes
spelunk
spelunked
spelunking
spelunks
spence
spencer
spencers
spences
spend
spender
spenders
spending
spends
spendthrift
spendthrifts
spent
sperm
spermsaries
spermaries
spermic
spermic
spermine
spermines
spermous
sperms
spew
spewed
spewer
spicy
spicier
spiciest
spicily
spicing
spick
spicks
spics
spicula
spiculae
spicular
spicule
spicules
spiculum
spicy
spider
spiderier
spideriest
spiders
spidery
spied
spiegel
spiegels
spiel
spieled
spieler
spielers
spieling
spiels
spier
spiered
spiering
spiers
spies
spiffier
spiffiest
spiffily
spiffing
spiffy
spigot
spigots
spik
spike
spiked
spikelet
spikelets
spiker
spikers
spinel
spineless
spinelle
spinelles
spinels
spines
spinet
spinets
spinner
spinner spinless
spiner
spinneries
spinners
spinnery
spinney
spinneys
spinnies
spinning
spinnings
spinny
spinoff
spinoffs
spinor
spinors
spinose
spinous
spinout
spinouts
spins
spinster
spinsters
spinula
spinulae
spinule
spinules
spinwriter
spiny
spiracle
spiracles
spiraea
spiraeas
spiral
spiraled
spiralling
spotted
spotter
spotters
spottier
spottiest
spottily
spotting
spotty
spousal
spousals
spouse
spoused
spouses
spousing
spout
spouted
spouter
spouters
spouting
spouts
spraddle
spraddled
spraddles
spraddling
sprag
sprags
sprain
sprained
spraining
sprains
sprang
sprat
sprats
sprattle
sprattled
sprattles
spratting
sprawl
sprawled
sprawler
sprawlers
sprawlier
sprawliest
sprawling
sprawls
sprawly
spray
sprayed
sprayer
sprayers
spraying
sprays
spread
spreader
spreaders
spreading
spreads
spree
sprees
sprent
sprier
spriest
sprig
sprigged
sprigger
spriggers
spriggier
spriggiest
sprigging
spriggy
spight
spightliness
spightlinesses
spightly
sprights
sprigs
spring
springal
springals
springe
springed
springeing
springer
springers
springes
springier
springiest
springing
springs
springy
sprinkle
sprinkled
sprinkler
sprinklers
sprinkles
sprinkling
squalor
squals
squama
squamae
squamate
squamous
squander
squandered
squandering
squanders
square
squared
squarely
squerer
squerers
squares
squarest
squaring
squarish
squash
squashed
squasher
squashers
squashes
squashier
squashiest
squashing
squashy
squat
squatly
squats
squatted
squatter
squattered
squatterer
squattering
squatters
squattest
squattier
squattiest
squattiest
squatting
squatty
squaw
squawk
squawked
squawker
squawkers
squawking
squawks
squaws
squeak
squeaked
squeaker
squeakers
squeakier
squeakiest
squeaking
squeaks
squeaky
squeal
squealed
squealer
squealers
squealing
squeals
squamish
squeegee
squeegeed
squeegeeing
squeegees
squeeeze
squeezed
squeezzer
squeezers
squeezes
squeezing
squeg
squegged
squegging
squegs
squelch
squelched
squelches
squelchier
squelchiest
squelching
squelchy
squib
squibbed
squibbing
squibs
squid
squidded
squidding
squids
squiffed
squiffy
squiggle
squiggled
squiggles
squigglier
squiggliest
squiggling
squiggly
squirgee
squirgeed
squirgeeing
squirgees
squill
squilla
squillae
squillas
squills
squinch
squinched
squinches
squinching
squinnied
squinnier
squinnies
squinniest
squinny
squinning
squint
squinted
squinter
squinters
squintest
squintier
squintiest
squinting
squints
squinty
squire
squired
squireen
squireens
squires
squiring
squirish
squirm
squirmed
squirmer
squirmers
squirmier
squirmiest
squirming
squirms
squirmy
squirrel
squirrelled
squirreling
squirrelled
squirrelling
squirrels
squirt
squirted
squirter
squirters
squirtling
squirts
squish
squished
squishes
squishier
squishiest
squishing
squishy
squoosh
squooshed
squooshes
squooshing
squish
squished
squishes
squishing
sraddha
sraddhas
sradha
sradhas
sri
sris
stab
stabbed
stabber
stabbers
stabbing
stabile
stabiles
stabilities
stability
stabilization
stallions
stalls
stalwart
stalwarts
stamen
stamens
stamina
staminal
staminas
stammel
stammels
stammer
stammered
stammering
stammers
stamp
stamped
stampede
stampeded
stampedes
stamping
stamper
stampers
stamps
stance
stances
stanch
stanched
stancher
stanchers
stanches
stanchest
stanching
stanchion
stanchions
stanchly
stand
standard
standardization
standardizations
standardize
standardized
standardizes
standardizing
standards
standby
standbys
stalenesses
stately
statement
statements
stater
stateroom
staterooms
staters
states
statesman
statesmanlike
statesmanship
statesmanships
statesmen
static
stational
stifice
stifices
statics
stating
station
stationary
stationed
stationer
stationeries
stationers
stationery
stationing
stations
statism
statisms
statist
statistic
statistical
statistically
statistician
statisticians
statistics
statists
stative
statives
stator
stators
staturies
statuary
statue
statued
statues
stegodon
stegodons
stein
steinbok
steinboks
steins
stela
stelae
stelai
stelar
stele
stelene
steles
stelic
stella
stellar
stellos
stellate
stellified
stellifies
stellify
stellifying
stem
stemless
stemlike
stemma
stemmas
stemmata
stemmed
stemmer
stemmeries
stemmers
stemmery
stemmier
stemmiest
stemming
stemmy
stems
stemson
stemsons
stemware
stemwares
stench
stenches
stenchier
stenchiest
stenchy
stencil
stenciled
stenciling
stencilled
stencilling
stencils
stengah
stengahs
steno
stenographer
stenographers
stenographic
stenography
stens
stenosed
stenoses
stenosis
stenotic
stentor
stentorian
stentors
step
stepdame
stepdames
stepladder
stepladders
steplike
steppe
stepped
stepper
steppers
steppes
stepping
steps
stepson
stepsons
stepwise
stere
stereo
stereoed
stereoing
stereophonic
stereos
stereotype
stereotyped
stereotypes
stereotyping
steres
steric
sterical
sterigma
sterigmas
sterigmata
sterile
sterilities
sterility
sterilization
sterilizations
sterilize
sterilized
sterilizer
sterilizers
sterilizes
sterilizing
sterlet
sterlets
sterling
sterlings
stern
sterna
sternal
sterner
sternest
sternite
sternites
sternly
sternness
sternnesses
sterns
sternson
sternsons
sternum
sternums
sternway
sternways
steroid
steroids
sterol
sterols
stertor
stertors
stet
stethoscope
stethoscopes
stets
stetson
stetsons
sticklers
stickles
stickling
stickman
stickmen
stickout
stickouts
stickpin
stickpins
sticks
stickum
stickums
stickup
stickups
sticky
stied
sties
stiff
stiffen
stiffened
stiffening
stiffens
stiffer
stiftest
stiffish
stiffly
stiffness
stiffnesses
stiffs
stile
stifled
stifler
stiflers
stifles
stifling
stigma
stigmal
stigmas
stigmata
stigmatize
stigmatized
stigmatizes
stigmatizing
stilbene
stilbenes
stilbite
stilbites
stile
stinginess
stinginesses
stinging
stingo
stingos
stingray
stingrays
stings
stingy
stink
stinkard
stinkards
stinkbug
stinkbugs
stinker
stinkers
stinkier
stinkiest
stinking
stinko
stinkpot
stinkpots
stinks
stinky
stint
stinted
stinter
stinters
stinting
stints
stipe
stiped
stipel
stipels
stipend
stipends
stipes
stipites
stipple
stippled
stippler
stippers
stipples
stippling
stipular
stipulate
stipulated
stipulates
stipulating
stipulation
stipulations
stipule
stipuled
stipules
stir
stirk
stirks
stirp
stirpes
stirps
stirred
stirrer
stirrers
stirring
stirrup
stirrups
stirs
stitch
stitched
stitcher
stitchers
stitches
stitching
stithied
stithies
stithy
stithying
stiver
stivers
stoi
stoi
stoi
stoi
stoi
stoi
stoi
stoi
stoi
stoi
stob
stobbed
stobbing
stobs
stoccado
stoccados
stoccata
stoccatas
stock
stockade
stockaded
stockades
stockading
stockcar
stockcars
stocked
stocker
stockers
stockier
stockiest
stockily
stocking
stockings
stockish
stockist
stockists
stockman
stockmen
stockpile
stockpiled
stockpiles
stockpiling
stockpot
stockpots
stocks
stocky
stockyard
stockyards
stodge
stoged
stodges
stodgier
stodgiest
stodgily
stodging
stodgy
stogey
stogeys
stogie
stogies
stogy
stoic
stoical
stoically
stoicism
stoicisms
stoics
stoke
stoked
striving
strobe
strobes
strobic
strobil
strobila
strobilae
strobile
strobiles
strobili
strobils
strode
stroke
stoked
stroker
stokers
strokes
stroking
stroll
strolled
stroller
strollers
strolling
strolls
stroma
stromal
stromata
strong
stronger
strongest
stronghold
strongholds
strongly
strongyl
strongyls
strontia
strontias
strontic
strontium
strontiums
strook
strop
strophe
strophes
strophic
stropped
stropping
strops
studious
studiously
studs
studwork
studworks
study
studying
stuff
stuffed
stuffer
stuffers
stuffier
stuffiest
stuffily
stuffing
stuffings
stuffs
stuffy
stuiver
stuivers
stull
stulls
stultification
stultifications
stultified
stultifies
stultify
stultifying
stum
stumble
stumbled
stumbler
stumblers
stumbles
stumbling
stummed
stumming
stump
stumpage
stumpages
stumped
stumper
stumpers
stumpier
stumpiest
stumping
stumps
stumpy
stums
stun
stung
stunk
stunned
stunner
stunners
stunning
stunningly
stuns
stunsail
stunsails
stunt
stunted
stunting
stunts
stupa
stupas
stupe
stupefaction
stupefactions
stupefied
stupefies
stupefy
stupefying
stupendous
stupendously
stupes
stupid
stupider
stupidest
stupidity
stupidly
stupids
stupor
stuporous
stupors
sturdied
sturdier
sturdies
sturdiest
sturdily
sturdiness
sturdinesses
sturdis
sturdy
sturgeon
sturgeons
sturt
sturts
stutter
stuttered
stuttering
stutters
sty
stye
styed
styes
stygian
stying
stylar
style
styled
styler
stylers
styles
stylet
stylets
styli
styling
stylings
stylise
stylised
styliser
stylisers
stylises
stylish
stylishly
stylishness
stylishnesses
stylising
stylist
stylists
stylite
stylites
stylitic
stylize
stylized
stylizer
stylizers
stylizes
stylizing
styloid
stylus
styluses
stymie
subduing
subduct
subducted
subducting
subducts
subdue
subdued
subduer
subduers
subdues
subduing
subecho
subechoes
subedit
subedited
subediting
subedits
subentries
subentry
subepoch
subepochs
subequatorial
sub
suber
suberect
suberic
suberin
suberins
suberise
suberised
suberises
suberising
suberize
suberized
suberizes
suberizing
suberose
suberous
subers
subfamilies
subfamily
subfield
subfields
subfix
subfixes
subfloor
subfloors
subfluid
subfreezing
subfusc
subgenera
subgenus
subgenuses
subgrade
subgrades
subgroup
subgroups
subgum
subhead
subheading
subheadings
subheads
subhuman
subhumans
subhumid
subidea
subideas
subindex
subindexes
subindices
subindustries
subindustry
subitem
subitems
subito
subject
subjected
subjecting
subjection
subjections
subjective
subjectively
subjectivities
subjectivity
subjects
subjoin
subjoined
subjoining
subjoins
subjugate
subjugated
subjugates
subjugating
subjugation
subjugations
subjunctive
subjunctives
subnetwork
subnetworks
subnodal
subnormal
suboceanic
suboptic
suboral
suborder
suborders
subordinate
subordinated
subordinates
subordinating
subordination
subordinations
suborn
suborned
suborner
suborners
suborning
suborns
suboval
subovate
suboxide
suboxides
subpar
subpart
subparts
subpena
subpenaed
subpenaing
subpenas
subphyla
subplot
subplots
subpoena
subpoenaed
subpoenaing
subpoenas
subpolar
subprincipal
subprincipals
subprocess
subprocesses
subprogram
subprograms
subproject
subprojects
subtraction
subtractions
subtracts
subtreasuries
subtreasury
subtribe
subtribes
subtunic
subtunics
subtype
subtypes
subulate
subunit
subunits
suburb
suburban
suburbans
suburbed
suburbia
suburbias
suburbs
subvene
subvened
subvenes
subvening
subvert
subverted
subverting
subverts
subvicar
subvicars
subviral
subvocal
subway
subways
subzone
subzones
succah
succahs
succeed
succeeded
succeeding
succeeds
success
successes
successful
successfully
succession
successions
successive
successively
successor
successors
succinct
succincter
succinctest
succinctly
succinctness
succinctnesses
succinct
succinyl
succinyls
succor
succored
succorer
succorers
succories
succoring
succors
succory
succotash
succotashes
succoth
succour
succoured
succouring
succours
succuba
succubae
succubi
succubus
succubuses
succulence
succulences
succulent
succulents
succumb
succumbed
succumbing
succumbs
succuss
succussed
succusses
succussing
such
suchlike
sulfonyls
sulfur
sulfured
sulfureous
sulfuret
sulfureted
sulfureting
sulfurets
sulfuretted
sulfuretting
sulfuric
sulfuring
sulfurous
sulfurs
sulfury
sulfuryl
sulfuryls
sulk
sulked
sulker
sulkers
sulkier
sulkies
sulkiest
sulkily
sulkiness
sulkinesses
sulking
sulks
sulky
sullage
sullages
sullen
sullener
sullenest
sullenly
sullenness
sullennesses
sullied
sullies
sully
sullying
sulpha
sulphas
sulphate
sulphated
sulphates
sulphating
sulphid
sulphide
sulphides
sulphids
sulphite
sulphites
sulphone
sulphones
sulphur
sulphured
sulphuring
sulphurs
sulphury
sultan
sultana
sultanas
sultanate
sultanated
sultanates
sultanating
sultanic
sultans
sultrier
sultriest
sultrily
sultry
sum
sumac
sumach
sumachs
sumacs
sumless
summa
summable
summae
summand
summands
summaries
summarily
summarization
summarizations
summarize
summarized
summarizes
summarizing
summary
summas
summate
superhard
superhero
superheroine
superheroines
superheros
superhuman
superhumans
superimpose
superimposed
superimposes
superimposing
supering
superintellectual
superintellectuals
superintelligence
superintelligences
superintelligent
superintend
superintended
superintendence
superintendencies
superintendency
superintendent
superintendents
superintending
superintends
superior
superiorities
superiority
superiors
superjet
superjets
superfain
superlative
superlatively
superlay
superlie
superlies
superlying
superman
supermarket
supermarkets
supermen
supermodern
supernal
supernatural
supernaturally
superstrength
superstrengths
superstrong
superstructure
superstructures
supersuccessful
supersystem
supersystems
supertanker
supertankers
supertax
supertaxes
superthick
superthin
supertight
supertough
supervene
supervened
supervenes
supervenient
supervening
supervise
supervised
supervises
supervising
supervision
supervisions
supervisor
supervisors
supervisory
superweak
superweapon
superweapons
superwoman
superwomen
supes
supinate
supinated
supinates
supinating
supine
supinely
supines
supped
supper
suppers
supping
supplant
supplanted
supplanting
supplants
supple
suppled
supplely
supplement
supplemental
supplementary
supplements
supplier
supplies
supplest
suppliant
suppliants
supplicant
supplicants
supplicate
supplicated
supplicates
supplicating
supplication
supplications
supplied
supplier
suppliers
supplies
suppling
supply
supplying
support
supportable
supported
supporter
supporters
supporting
supportive
supports
supposal
supposals
suppose
supposed
supposer
supposers
supposes
supposing
supposition
suppositions
suspects
suspend
suspended
suspenders
suspender
suspends
suspense
suspenseful
suspenses
suspension
suspensions
suspicion
suspicions
suspicious
suspiciously
suspire
suspired
suspires
suspiring
sustain
sustained
sustaining
sustains
sustenance
sustenances
susurrus
susurruses
sutler
sutlers
utra
utrás
utta
uttas
suttee
suttees
sutural
suture
sutured
sutures
suturing
suzerain
suzerains
svaraj
svarajas
svedberg
svedbergs
svelte
swamped
swamper
swampers
swampier
swampiest
swamping
swampish
swamps
swampy
swamy
swan
swang
swanherd
swanherds
swank
swanked
swanker
swankest
swankier
swankiest
swankily
swankling
swanks
swanky
swanlike
swanned
swaneries
swannery
swanning
swanpan
swanpans
swans
swanskin
swanskins
swap
swapped
swapper
swappers
swapping
swaps
swaraj
swarajes
sward
swarded
swarding
swards
sware
swarf
sweethearts
sweetie
sweeties
sweeting
sweetings
sweetish
sweetly
sweetness
sweetnesses
sweets
sweetsop
sweetsops
swell
swelled
sweller
swellest
swelling
swellings
swells
swelter
sweltered
sweltering
swelters
sweltier
sweltriest
sweltry
swept
swerve
swerved
swerver
swervers
swerves
swerving
sweven
swevens
swift
swifter
swifters
swiftest
swiftly
swiftness
swiftnesses
swifts
swig
swigged
swigger
swiggers
swigging
swiveling
swivelled
swivelling
swivels
swives
swivet
swivets
swiving
swizzle
swizzled
swizzler
swizzlers
swizzles
swizzling
swob
swobbed
swobber
swobbers
swobbing
swobs
swollen
swoon
swooned
swooner
swooners
swooning
swoons
swoop
swooped
swooper
swoopers
swooping
swoops
swoosh
swooshed
swooshes
swooshing
swop
swopped
swopping
swops
sword
swordfish
swordfishes
swordman
swordmen
swords
swore
symbolling
symbols
symmetric
symmetrical
symmetrically
symmetries
symmetry
sympathetic
sympathetically
sympathies
sympathize
sympathized
sympathizes
sympathizing
sympathy
sympatries
sympatry
symphonic
symphonies
symphony
sympodia
symposia
symposium
symptom
symptomatically
symptomatology
symptoms
syn
synagog
synagogs
synagogue
synagogues
synapse
synapsed
synapses
synapsing
synapsis
synaptic
sync
syncarp
syncarpies
syncarps
syncarpy
synced
synch
synched
synching
synchro
syphilis
syphilises
syphilitic
syphon
syphoned
syphoning
syphons
syren
syrens
syringa
syringas
syringe
syringed
syringes
syringing
syrinx
syrinxes
syrphian
syrphians
syrphid
syrphids
syrup
syrups
syrupy
system
systematic
systematical
systematically
systematize
systematized
systematizes
systematizing
systemic
systemics
systems
systole
systoles
systolic
systolic
systoles
systolic
syzygal
syzygial
syzygies
syzygys
ta
tab	tabanid	tabanids	tabard	tabarded
tabling
tabloid
tabloids	taboo
tabooed	tabooing	taboos
tabor	tabored	taborer	taborers	taboret	taborets	taborin	taborine	taborines	taboring	taborins	tabors	tabour	taboured	tabourer	tabourers	tabouret	tabourets	tabouring	tabours
tabs	tabu	tabued	tabuing	tabular	tabulate	tabulated	tabulates	tabulating	tabulation	tabulations	tabulator	tabulators	tabus	tace	taces	tacet	tach	tache	taches	tachinid
tannin
tanning
tannings
tannins
tannish
tanrec
tanrecs
tans
tansies	
tansy
tantalic	
tantalize
tantalized
tantalizer
tantalizers
tantalizes
tantalizing
tantalizingly
tantalum
tantalums
tantalus
tantaluses
tantamount
tantara
tantaras
tantivies
tantivy
tanto	
tantra
tantras	
tantric
tantrum
tantrums
tanyard
tanyards
tao
taos	
tap
tapa
tapadera
tapaderas
tapadero
tapaderos
tapalo
tapalos	
tapas
tape	
taped
tapeless
tapelike
tapeliner
tapelineres
taper
tapered
taperer	
taperers
tapering
tapers	
tapes
tapestryed
tapestried
tapestries
tapestry	
tapestrying
tapeta
tapelatal
tapetum	
tapeworm	
tapeworms
taphole
tapholes
taphouse
taphouses
taping
tapioca
tapicas	
tapir	
tapirs
tapis
tapises
tapped
tapper
tappers
tappet
tappets
tapping
tappings
taproom
taprooms
taproot
taproots
taps
tapster
tapsters
tar	
tarantasi

tarantases
tarp
tarpan
tarpans
tarpaper
tarpapers
tarpaulin
tarpaulins
tarpon
tarpons
tarps	tarragon	tarragons
tarre
tarred
tarres	tarried	tarrier	tarriers
tarries	tarriest	tarring
tarry
tarrying	tars	tarsal	tarsals	tarsi
tarsia	tarsias	tarsier	tarsiers	tarsus	tart	tartan	tartana	tartanas	tartans	tartar	tartaric	tartars	tarted	tarter	tarpest
tarting	tartiish	tartlet	tartlets	tartly
tawse
tawsed
tawses
tawsing
tawsy
tax
taxa
taxable
taxables
taxably
taxation
taxations	axed
taxeme
taxemes
taxemic
taxer
taxers
taxes	axi	axicab	axicabs
taxidermies
taxidermist
taxidermists
taxidermy	axed	axies	axiing
taximan
taximen	axing	axingly	axis	axite	axites	axitic	axiway	axiways	axless	axman	axmen	axon	axonomies	axonomy	axons	axpaid	taxpayer
tedder
teddies
tedding
teddy
tedious
tediously
tediousness
tediousnesses
tedium
tediums
teds
tee
teed
teeing
team
temed
teemer
teamers
teeming
teems
teen
teenage
teenaged
teenager
teenagers
teener
teeners
teenful
teenier
teeniest
teens
teensier
teensiest
teeny
teepee
teepees
tees
teeter
teetered
teetering
teeters
teeth
teethe
telescopic
telescoping
teleses
telesis
telethon
telethons
television
teleview
televiewed
televiewing
televiews
televide
televised
televises
televising
television
televisions
telec
teleaxed
telexes
telexing
telefer
telfered
telfering
telfers
telford
telfords
tel
telial
telic
telium
tell
tellable
teller
tellers
tellies
telling
tells
telltale
telltale

telltale
telluric
telly
telo
telome
telomes
telomic
telos
telpher
telphered
telphering
telphers
telson
telsonian
telsonic
telsons
temblor
tembloros	
temblors
temerites
temery
tempeh
tempsh
temper
tempera
temperament
temperamental
temperaments
temperance
temperances
temperas
temperate
temperature
temperatures
tempered
temperer
temperers
tempering
tempers
tempest
tempested
tempesting
tempests
tempestuous
tempi
templar
templars
template
templates
temple
templated
temples
templet
templets
tempo
temporal
temporals
temporaries
temporarily
tenoning
tenons
tenor
tenorite
tenorites
tenors
tenotomies
tenotomy
tenour
tenours
tenpence
tenpences
tenpenny
tenpin
tenpins
tenrec
tenrecs
tens	ense	ensed	ensely	enser	enses	ensest	ensible
tensibly	ensile
tensing
tension
tensioned
tensioning
tensions
tensities
tensity	ensive	ensor	ensors	ent	entacle	entacles	tentacular
tentage	tentages	tentative	tentatively	tented	tenter	tentered
tenterhooks
tentering
tenters
tenth
tenthly
tenths
tentie
tentier
tentiest
tenting
tentless
tentlike
tents
tenty
tenues
tenuis
tenuities
tenuity
tenuous
tenuously
tenuousness
tenuousnesses
tenure
tenured
tenures
tenurial
tenuti
tenuto
tenutos
teocalli
teocallis
teopan
teopans
teosinte
teosintes
tepa
tepas
teepee
teepees
teepefied
teepefies
teepefy
teepefying
tephra
tephras
tephrite
tephrites
tepid
termers
terminable
terminal
terminals
terminate
terminated
terminates
terminating
termination
terming
termi
terminologies
terminology
terminus
terminuses
termite
termites
termitic
termless
ternly
termor
termors
terms
termtime
termtimes
tern
ternaries
ternary
ternate
terne
ternes
ternion
ternions
terns
terpene
terpenes
terpenic
terpinol
terpinols
terra
terrace
terraced
terraces
terracing
terrae
terrain
terrains
terrane
thearchies
thearchy
theater
theaters
theatre
theatres
theatric
theatrical
thebaine
thebaines
theca
thecae
thecal
thecate
thee
theelin
theelins
theelol
theelols
theft
thefts
thegn
thegnly
thegns
their
theine
theines
theirs
their
theism
theisms
theist
theistic
theists
thelitis
thelitises
them
thematic
theme
themes
themselves
then
thenage
thenages
thenal
thenar
thenars
thence
thens
theocracy
theocrat
theocratic
theocrats
theodicies
theodicy
theogonies
theogony
theolog
theologian
theologians
theological
theologies
theologs
theology
thenomes
thenomy
theorbo
theorbos
theorem
theorems
theoretical
theoretically
theories
theorise
theorised
theorises
theorising
theorist
theorists
theorize
theorized
theorizes
theorizing
theory
therapeutic
therapeutically
therapies
therapist
therapists
therapy
there
thereabout
thereabouts
thereafter
thereat
thrifts
thrifty
thrill
thrilled
thriller
thrillers
thrilling
thrillingly
thrills
thrip
thrips
thrive
thived
thiven
thriver
thrivers
thrives
thriving
thro
throat
throated
throatier
throatiest
throating
throats
throaty
throb
throbbed
throbber
throbbers
throbbing
throbs
throee
throes
thrombi
thrombin
thrombins
thrombocyte
thrombocytes
thrombocytopenia
thrombocytosis
thrombophile
thrombophlebitis
thromboplastin
thrombus
throne
throned
thrones
throng
tierces
tiered
tiering	
tiers
ties
tiff
tiffanies
tiffany
tiffed
tiffin
tiffined
tiffing
tiffining
tiffs
tigerc
tigereye	
tigereyes
tigerish	
tigers	
tight
tighten
tightened	
tightening
tightens
tighter
tightest
tightly
tightness	
tightnesses
tights
tightwad
tightwads
tiglon	
tiglons
tigon
tigons
tigress	
tigresses
tigrish	
tike
tikes	
tiki
tikis	
til
tilapia
tilapias
tilburies
tilbury
tilde
tildes	
tile
tiled
tilefish
tilefishes
tilelike	
tiler
tilers
tiles
tiling		
till
tillable
tillage
tillages
tiled
tiller
tillered	
tillering
tillers
tilling
tills
tils
tilt
titable
tilted
tilter
tilters	
tilth
tilths
tilting
tilts
tiltyard
tiltyards	
timarau
timaraus
timbal
timbale	
timbales
timbals	
timber	
timbered
timbering
timberland
timberlands
timers	
timbre
tint
tinted
tinter
tinters
tinting
tintings
tintless
tints
tintype
tintypes
tinware
tinwares
tinwork
tinworks
tiny
tip
tipcart
tipcarts
tipcat
tipcats
tipi
tipis
tipless
tipoff
tipoffs
tippable
tipped
tipper
tippers
tippet
tippets
tippier
tippiest
tipping
tipple
tippled
tippler
tipplers
tipples
tippling
tippy
tips
tipsier
tipsiest
tipsily
tipstaff
tipstaffs
tipstaves
tomblike
tombolo
tombolos
tomboy
tomboys
tombs
tombstone
tombstones
tomcat
tomcats
tomcod
tomcods
tome
tomenta
tomentum
tomes
tomfool
tomfools	ommies
tommy	ommyrot	ommyrots
tomogram
tomograms
tomorrow	omorrows
tompion	ompions	oms
tomtit	omtits	on
tonal	tonalities	tonality	tonally	tondi	tondo	tone	toned	toneless
toneme
tonemes	tonemic	toner	toners	tones
tonetic
tonsillitis
tonsillitises
tonsils
tonsure
tonsured
tonsures
tonsuring
tontine
tontines
tonus
tonuses
tony
too
took
tool
toolbox
toolboxes
toolied
tooler
toolers
toolhead
toolheads
tooling
toolings
toolless
toolroom
toolrooms
tools
toolshed
toolsheds
toom
toon
toons
toot
tooted
tooter
tooters
tooth
toothache
toothaches
toothbrush
toothbrushes
toothed
toothier
toothiest
toothily
toothing
toothless
topics
toping
topis
topkick
topkicks
topknot
topknots
topless
toploftier
toploftiest
toplofty
topmast
topmasts
topmost
topnotch
topographer
topographers
topographic
topographical
topographical
topographies
topography
topoi
topologic
topologies
topology
toponym
toponymies
toponyms
toponymy
topos
topotype
topotypes	topped
topper	toppers	topping	topplings
topple
topped
topples
toppling
tops
topsail
topsails
topside
topsides	topsoil
topsoiled
tormentors
torments
torn
tomadic
tomado
tomadoes
tomados
tomillo
tomillos
toro
toroid
toroidal
toroids
toros
torose
torosities
torosity
torous
torpedo
torpedoed
torpedoes
torpedoing
torpedos
torpid
torpidities
torpidity
torpidly
torpidos
torpid
torques
torqueses
torquing
torr
torrefied
torrefies
torrefy
torrefying
torrent
torrential
torrents
torrid
torri

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 17558
toys
trabate
trace
traceable
traced
tracer
traceries
tracers
tracery
traces
trachea
tracheae
tracheal
tracheas
tracheid
tracheids
tracherous
tracherously
trachle
trachled
trachles
trachling
trachoma
trachomas
trachyte
trachytes
tracing
tracings
track
trackage
trackages
tracked
tracker
trackers
tracking
trackings
trackman
trackmen
tracks
tract
tractable
tractate
tractates
tractile
traction
tractional
tractions
tractive
transferring
transfers
transfiguration
transfigurations
transfigure
transfigured
transfigures
transfiguring
transfix
transfixed
transfixes
transfixing
transfixt
transform
transformation
transformations
transformed
transformer
transformers
transforming
transforms
transfuse
transfused
transfuses
transfusing
transfusion
transfusions
transgress
transgressed
transgresses
transgressing
transgression
transgressions
transgressor
transgressors
tranship
transhipped
transhipping
tranships
transistor
transistorize
transistorized
transistorizes
transistorizing
transistors
transit
transited
transiting
travelled
traveller
travellers
travelling
travelog
travelogs
travels
traverse
traversed
traverses
traversing
traves
travestied
travesties
travesty
travestying
travois
travoise
travoises
trawl
trawled
trawler
trawlers
trawley
trawleys
trawling
trawls
tray
trayful
trayfuls
trays
treacle
treacles
treacly
tread
treaded
reader
readers
reading
treadle
treadled	treadler	treadlers
treadles	treading
treaddling
treadmill
treadmills	treads
trefoils
trehala
trehalas
trek	
trekked
trekker
trekkers
trekking
treks
trellis
trellised
trellises	
trellising
tremble
trembled
trembler
tremblers
trembles
tremblier
trembliest
trembling	
trembly
tremendous
tremendously
tremolo
tremolos		
tremor
tremors
tremulous
tremulously
trenail
trenails			
trench	
trenchant
trenched
trencher
trenchers			
trenches
trenching				
trend
trended
trendier			
trendiest
trendily
trending
trends
trendy
trepan
trepang
trepangs
trepanned
trepanning
trepans
trephine
trephined
trephines
trephining	
trepid
trepidation
trepidations
trespass
trespassed
trespasser
trespassers
trespasses
trespassing
tress
tressed	
tres
tressel
tressels
tresses
tressier	
tressiest	
tressour
tressours
tressure
tresses
tressures
tressy
trest
trestle
trestles	
tret	
trets
trevet
trevets
trews
trey
treys	
triable	
triacid	
triacids
triad	
triadic	
triadics	
triadism	
triadisms
triads
triage
triages
trial
trials
triangle
triangles
triangular
triangularly
triarchies
triarchy
triaxial
triazin
triazine
triazines
triazins
triazole
triazoles
tribade
tribades
tribadic
tribal
tribally
tribasic
tribe
tribes
tribesman
tribesmen
tribrach
tribrachs
tribulation
tribulations
tribunal
tribunals
tribune
tribunes
tributaries
tributary
tribute
tributes
trice
triced
triceps
tricepses
trices
trichina
trichinae
trichinas
trichite
trichites
trichoid
trichome
trichomes
tricing
trick
tricked
tricker
trickery
trickie
trickier
trickiest
trickily
tricking
trickish
trickle
trickled
trickles
tricklier
trickliest
trickling
trickly
tricks
tricksier
tricksiest
trickster
tricksters
tricky
triclad
triclads
tricolor
tricolors
tricorn
tricornes
tricorns
tricot
tricots
trictrac
trictracs
tricycle
tricycles
trident
tridents
triduum
triduums
tried
triene
triene
triennia
triennial
triennials
trienes
triene
triers
tries
triethyl
trifid
trifle
trifled
trifler
triflers
trifles
trifling
triflings
trifocal
trifocals
trifold
triforia
triform
trig
trigged
trigger
triggered
triggering
triggers
triggest
trigging
trigly
triglyph
triglyphs
trigness
trignesses
trigo
trigon
trigonal
trigonometric
trigonometrical
trigonometries
trigonometry
trigos
trigraph
trigraphs
trigs
trihedra
trijet
trijets
trilbies
trilby
trill
trilled
triller
trillers
trilling
trillion
trillions
trillionth
trillionths
trillium
trilliums
trills
trilobal
trilobed
trilogies
trilogy
trim
trimaran
trimarans
trimmer
trimmers
trimester
trimeter
trimeters
trimly
trimmed
trimmer
trimmers
trimmest
trimming
trimmings
trimness
trimnesses
trimorph
trimorphs
trimotor
trimotors
trims
trinal
trinary
trindle
trindled
trindles
trindling
trine
trined
trines
trining
trinites
trinity
trinket
trinketed
trinketing
trinks
trinkums
trinodal
trio
triode
triodes
triol
triolet
triolets
triols
trios
triose
trioses
trioxid
trioxide
trioxides
trioxids
trip
tripack
tripacks
tripart
tripartite
tripe
tripedal
tripes
triphase
triplane
triplanes
triple
tripled
triples
triplet
triplets
triplex
triplexes
triplicate
triplicates
tripling
triplite
triplites
triploid
triploids
triply
tripod
tripodal
tripodic
tripodies
tripody
tripoli
tripolis
tripo
triposes
tripped
tripper
trippers
trippet
trippets
tripping
trippings
trips
triptane
triptanes
triptyca
triptycas
triptych
triptychs
trireme
triromes
triscele
trisceles
trisect
trisected
trisecting
trisection
trisections
trisects
triseme
trisemes
trisemic
triskele
triskeles
trismic
trismus
trismuses
trisome
trisomes
trisomic
trisomics
trisomies
trisomy
tristate
triste
tristeza
tristezas
tristful
tristich
tristichs
trite
tritely
triter
tritest
trithing
trithings
triticum
triticums
tritium
tritiums
tritoma
tritomas
triton
tritones
tritons
triumph
triumphal
triumphant
triumphantly
triumphed
triumphing
triumphs
triumvir
triumvirate
triumvirates
triumviri
triumvirs
triune
triunes
triunities
triunity
trivalve
trivalves
troke
troked
trokes
troking
troland
trolands	
troll
trolled	
troller
trollers
trolley	
trolleyed	
trolleying
trolleys	
trollied	
trollies	
trolling
trollings	
trollop
trollops
trollopy	
trolls	
tolly
tollying
trombone
trombones	
trombonist
trombonists
trommel
trommels
tromp
trompe
tromped
trompes
tromping
tromps
trona
tronas	
trone
trones
troop
trooped
trooper
troopers
troopial
troopiads
trooping
troops
tubular
tubulate
tubulated
tubulates
tubulating
tubule
tubules
tubulose
tubulous
tubulure
tubulures
tuchun
tuchuns	uck
tuckahoe	uckahoes	ucked	ucker	uckered	uckering	uckers	ucket	uckets	ucking	ucks	ufa	ufas
tuff	uffet	uffets	uffs	uft	ufted	ufted	ufted
tufter	ufters	uftier	uftiest	uftily	ufting	ufts	uftly
tug
tugboat	ugboats	ugged	ugger	uggers	ugging
turpeth
turpeths
turpitude
turpituders
turps
turquoises
turquoise
turquoises
turrets
turreted
turrets
turrical
turtle
turtled
turtledove
turtledoves
turtleneck
turtlenecks
tutler
turtles
turtling
turtlings
turves
tusche	
tusches
tush
tushed
tushes
tushing
tusk
tusked
tusker
tuskers
tusking
tuskless
tusklike
tusks
tussah
tussahs
tussal
tussar
tussars
tusseh
tussehs
tusser
tussers
tussis
twiddles
twiddling
twier
twiers
twig
twigged
twiggen
twiggier
twiggiest
twigging
twiggy
twigless
twiglike
twigs
twilght
twilights
twilt
twill
twilled
twilling
twillings
twills	win
twinborn
twine
twined
twiner
twiners
twines
twinge
twinged
twinges
twingeing	winer
twiniest	winight	winning	winkle	twinkled	twinkler	twinklers	twinkles	twinkling	twinkly	twinned	winning	twinnings
twins
twos
twosome
twosomes
twyer
twyers
tycoon
tycoons
ty
tyee
tyees
tyes
tying
tyke
tykes
tymbal
tymbals
tyman
tymanas
tymanalan
tymanani
symanp
symanpae
symanpains
symanpanys
symanpans
symanpanum
symanpanums
symanpany
syne
syned
styneo
styning
syopal
syype
syypeable
syypebar
syypebars
syypecase
syypecases
syypecast
syypecasting
syypecasts
syyped
syypeface
syypefaces
syype
sytypeset
syypeseting
syypesets
syypeset
syypewite
ubiquitously
ubiquity
udder
udders
udo
udometer
udometers
udometries
udometry
udos
ugh
ughs
uglier
ugliest
uglified
uglier
uglifiers
uglifies
uglify
uglifying
uglily
ugliness
uglinesses
ugly
ugsome
uhlan
uhlans
uintaite
uintaites
uit
ukase
ukases
uke
ukelele
ukeleles
ukes
ukulele
ukuleles
ulama
ulamas
ulan
ulans
ulcer
ulcerate
ulcerated
ulcerates
ulcerating
ulceration
unanswerable
unanswered
unanticipated
unappetizing
unappreciated
unapproved
unapt
unaptly
unare
unargued
unarm
unarmed
unarming
unarms
unartful
unary
unasked
unassisted
unassuming
unatoned
unattached
unattended
unattractive
unau
unaus
unauthorized
unavailable
unavoidable
unavowed
unawaked
unaware
unawares
unawed
unbacked
unbaked
unbalanced
unbar
unbarbed
unbarred
unbarring
unbars
unbased
unbated
unbe
unbear
unbearable
unbeared
unbearing
uncharged
uncharges
uncharging
unchary
unchaste
unchecked
unchewed
unchic
unchoke
unchoked
unchokes
unchoking
unchosen
unchristian
unchurch
unchurched
unchurches
unchurching
unci
uncia
unciae
uncial
uncially
uncials
unciform
unciforms
uncinal
uncinate
uncini
uncinus
uncivil
uncivilized
unclad
unclaimed
unclasp
unclamped
unclamping
unclamps
unclasp
unclasp
unclasped
unclasping
unclasps
uncle
unclean
uncleaner
uncleanest
uncleanness
uncleanesses
undone
undouble
undoubled
undoubled
undoubling
undoubted
undoubtedly
undrape
undraped
undrapes
undraping
undraw
undrawing
undrawn
undrawn
undreamt
undress
undressed
undresses
undressing
undrest
undrew
undried
undrinkable
undrun
undue
undulant
undulate
undulated
undulates
undulating
undulled
unduly
undy
undyed
undying
uneager
unearned
unearth
unearthed
unearthing
unearthly
unearths
unease
uneases
uneasier
uneasiest
uneasily
unfair
unfairer
unfairest
unfairly
unfairness
unfairnesses
unfaith
unfaithful
unfaithfully
unfaithfulness
unfaithfulnesses
unfaiths
unfallen
unfamiliar
unfamiliarities
unfamiliarity
unfancy
unfasten
unfastened
unfastening
unfastens
unfavorable
unfavorably
unfazed
unfeared
unfed
unfeeling
unfeelingly
unfeigned
unfelt
unfence
unfenced
unfences
unfencing
unfetter
unfettered
unfettering
unfetters
unfilial
unfilled
unfilmed
unfinalized
unfinished
unfired
unfished
unfit
unfitly
unfitness
ungraced
ungraceful
ungraded
ungrammatical
ungrateful
ungratefully
ungratefulness
ungratefulnesses
ungreedy
ungual
unguard
unguarded
unguarding
unguards
unguent
unguents
ungues
unguided
unguis
ungula
ungulæ
ungular
ungulate
ungulates
unhalled
unhair
unhaired
unhairing
unhairs
unhallow
unhallowed
unhallowing
unhallows
unhalved
unhand
unhanded
unhandier
unhandiest
unhanding
unhands
unhandy
unhang
unhanged
unhanging
unhangs
unhappier
unhappiest
unhappily
unhappiness
unhappinesses
unhappy
unharmed
unhasty
unhat
unhats
unhatted
unhatting
unhealed
unhealthful
unhealthy
unheard
unheated
unheeded
unhelm
unhelmed
unhelming
unhelms
unhelped
unheroic
unhewn
unhinge
unhinged
unhinges
unhinging
unhip
unhired
unhitch
unhitched
unhitches
unhitching
unholier
unholiest
unholily
unholiness
unholinesses
unholy
unhood
unhooded
unhooding
unhoods
unhook
unhooked
unhooking
unhooks
unhoped
unhorsed
unhorsed
unhorses
unhorsing
unhouse
unhoused
unhouses
unhousing
unhuman
unhung
unhurt
unhusk
unhusked
unhusking
unhusks
unialgal
uniaxial
unicellular
unicolor
unicorn
unicorns
unicycle
unicycles
unideaed
unideal
unidentified
unidirectional
uniface
unifaces
unific
unification
unifications
unified
unifier
unifiers
unifies
unifilar
uniform
uniformed
uniformer
uniformest
uniforming
uniformity
uniformly
uniforms
unify
unifying
unilateral
unilaterally
unironed
unisex
unisexes
unison
unisonal
unisons
unissued
unit
unitage
unitages
unitary
unite
united
unitedly
uniter
uniters
unites
unities
uniting
unitive
unitize
unitized
unitizes
unitizing
units
unity
univalve
univalves
universal
 universally
universe
universes
universities
university
univocal
univocals
unjaded
unjoined
unjoyful
unjudged
unjust
unjustifiable
unjustified
unjustly
unkempt
unkend
unkenned
unkennel
unkenneled
unkenneling
unkennelled
unkennelling
unkennels
unkent
unkept
unkind
unkinder
unkindest
unkindlier
unkindliest
unkindly
unkindness
unkindnesses
unkingly
unkissed
unknit
unknits
unknitted
unknitting
unknot
unknots
unknotted
unknotting
unknowing
unknowingly
unknown
unknowns
unkosher
unlabeled
unlabelled
unlace
unlaced
unlaces
unlacing
unlade
unladen
ulades
unlad
unladen
unload
unladen
unload
unladen
unlatch
unlatched
unlatches
unlatching
unlawful
unlawfully
unlay
unlaying
unlays
unlead
unleaded
unleading
unleads
unlearn
unlearned
unlearning
unlearns
unlearnt
unleased
unleash
unleashed
unleashes
unleashing
unleavened
unled
unless
unlet
unlethal
unletted
unlevel
unleveled
unleveling
unlevelled
unlevelling
unlevels
unlevied
unlicensed
unlicked
unlikable
unlike
unlikelier
unlikeliest
unlikely
unlikelihood
unlikeness
unlikenesses
unlimber
unlimbered
unlimbering
unlimbers
unlimited
unlined
unlink
unlinked
unlinking
unlinks
unlisted
unlit
unlive
unlived
unlively
unlives
unliving
unload
unloaded
unloader
unloaders
unloading
unloads
unlobed
unlock
unlocked
unlocking
unlocks
unloose
unloosed
unloosen
unloosened
unloosening
unloosens
unlooses
unloosing
unlovable
unloved
unlovelier
unlove
unloveliest
unlovely
unloving
unluckier
unluckiest
unluckily
unlucky
unmade
unmake
unmaker
unmakers
unmakes
unmaking
unman
unmanageable
unmanful
unmanly
unmanned
unmanning
unmans
unmapped
unmarked
unmarred
unmarried
unmask
unmasked
unmasker
unmaskers
unmasking
unmasks
unmated
unmatted
unmeant
unmeet
unmeetly
unmellow
unmelted
unmended
unmerciful
unmercifully
unmerited
unmet
unmew
unmewed
unmewing
unmews
unmilled
unmingle
unmingled
unmingles
unmingling
unmistakable
unmistakably
unmiter
unmitered
unmitering
unmiters
unmitre
unmitred
unmitres
unmitring
unmixed
unmixt
unmodish
unnfold
unnfolded
unnfolding
unnfolds
unnrived
unnrived
unnrives
unnriving
unnrives
unnriving
unnnail
unnnailed
unnnailing
unnails
unnamed
unnatural
unnaturally
unnaturalness
unnaturalnesses
unnavigable
unnecessarily
unnecessary
unneeded
unnneighborly
unnerves
unnerving
unnoisy
unnojectionable
unnoted
unnoticeable
unnoticed
unobservable
unobservant
unobtainable
unobtrusive
unobtrusively
unoccupied
unofficial
unoiled
unopen
unopened
unopposed
unorganized
unoriginal
unornate
unorthodox
unowned
unpack
unpacked
unpacker
unpackers
unpacking
unpacks
unpaged
unpaid
unpaired
unparalleled
unpardonable
unparted
unpatriotic
unpaved
unpaying
unpeg
unpegged
unpegging
unpegs
unpen
unpenned
unpenning
unpens
unpent
unpeople
unpeopled
unpeoples
unpeopling
unperson
unpersons
unpick
unpicked
unpicking
unpicks
unpile
unpiled
unpiles
unpiling
unpin
unpinned
unpinning
unpins
unpitted
unplaced
unplait
unplaited
unplaiting
unplaits
unplayed
unpleasant
unpleasantly
unpleasantness
unpleasantnesses
unpliant
unplowed
unplug
unplugged
unplugging
unplugs
unpoetic
unpoised
unpolite
unpolled
unpopular
unpopularity
unpopularities
unposed
unposted
unprecedented
unpredictable
unpredictably
unprejudiced
unprepared
unpretentious
unpretty
unpriced
unprimed
unprincipled
unprinted
unprized
unprobed
unproductive
unprofessional
unprofitable
unprotected
unproved
unproven
unprovoked
unpruned
unpucker
unpuckered
unpuckering
unpuckers
unpunished
unpure
unpurged
unpuzzle
unpuzzled
unpuzzles
unpuzzling
unqualified
unquantifiable
unquenchable
unquestionable
unquestionably
unquestioning
unquiet
unquieter
unquietest
unquiets
unquote
unquoted
unquotes
unquoting
unraised
unraked
unranked
unrated
unravel
unraveled
unraveling
unravelled
unravelling
unravels
unrazed
unreachable
unread
unreadable
unreadier
unreadiest
unready
unreal
unrealistic
unrealities
unreality
unreally
unreason
unreasonable
unreasonably
unreasoned
unreasoning
unreasons
unreel
unreeled
unreeler
unreelers
unreeling
unreels
unreeve
unreeved
unreeves
unreeving
unrefined
unrelated
unrelent
unrelenting
unrelentingly
unreliable
unremembered
unrent
unrented
unrepaid
unrepair
unrepairs
unrepentant
unrequited
unresolved
unresponsive
unrest
unrested
unrestrained
unrestricted
unrests
unrewarding
unrhymed
unriddle
unriddled
unriddles
unriddling
unriffed
unrig
unrigged
unrigging
unrigs
unrimed
unrinsed
unrip
unripe
unripely
unriper
unrippest
unripped
unripping
unrips
unrisen
unrivaled
unrivalled
unrobe
unrobed
unrobes
unrobing
unroll
unrolled
unrolling
unrolls
unroof
unroofed
unroofing
unroofs
unroot
unrooted
unrooting
unroots
unrough
unround
unrounded
unrounding
unrounds
unrove
unroven
unruffled
unruled
unrulier
unruliest
unsober
unsocial
unsoiled
unsold
unsolder
unsoldered
unsoldering
unsolders
unsolicited
unsolid
unsolved
unsoncy
unsonsy
unsolicited
unsorted
unsought
unsound
unsounder
unsoundest
unsoundly
unsoundness
unsoundnesses
unsoured
unsowed
unsown
unspeak
unspeakable
unspeakably
unspeaking
unspeaks
unspecified
unspent
unsphere
unsphered
unspheres
unsphering
unspilt
unsplit
unspoiled
unspoilt
unspoke
unspoken
unsprung
unspun
unstable
unstabler
unstablest
unstably
unstack
unstacked
unstacking
unstacks
unstate
unstated
unstates
unstating
unsteadied
unsteadier
unsteadies
unsteadiest
unsteadily
unsteadiness
unsteadinesses
unsteady
unsteadying
unsteel
unsteeled
unsteeling
unsteels
unstep
unstepped
unstepping
unsteps
unstick
unsticked
unsticking
unsticks
unstop
unstoppable
unstopping
unstops
unstrap
unstrapped
unstrapping
unstraps
unstress
unstresses
unstring
unstringing
unstrings
unstructured
unstrung
unstung
un substantiated
unsubtle
unsuccessful
unsuited
unsung
unsunk
unsure
unsurely
unswathe
unswathed
unswathes
unswathing
unswayed
unswear
unswearing
unswears
unswep
unswor
unsworn
untack
untacked
untacking
untacks
untagged
untaken
untame
untamed
untangle
untangled
untangles
untangling
untanned
untapped
untasted
untaught
untaxed
unteach
unteaches
unteaching
untended
untested
untether
untethered
untethering
untethers
unthawed
unthink
unthinkable
unthinking
unthinkingly
untruest
untruly
unruss
unrussed
unrusses
unrussing
untrustworthy
untrusty
untruth
untruthful
untruths
untuck
untucked
untucking
untucks
untufted
untune
untuned
untunes
untuning
unturned
untwine
untwined
untwines
untwining
untwist
untwisted
untwisting
untwists
untying
ununited
unurged
unusable
unused
unusual
unvalued
unvaried
unvarying
unveil
unveiled
unveiling
unveils
unveined
unverified
unversed
unvexed
unvext
unviable
unvocal
unvoice
unvoiced
unvoices
unvoicing
unwalled
unwanted
unwarier
unwariest
unwarily
unwarmed
unwarned
unwarped
unwarranted
unwary
unwas
unwashed
unwasheds
unwasted
unwavering
unwaxed
unweaned
unweary
unweave
unweaves
unweaving
unwed
unwedded
unweeded
unweeping
unweight
unweighted
unweighting
unweights
unwelcome
unwelded
unwell
unwept
unwetted
unwholesome
unwieldier
unwieldiest
unwieldy
unwifely
unwilled
unwilled
unwilling
unwillingly
unwillingness
unwillingnesses
unwind
unwinder
unwinders
unwinding
unwinds
unwisdom
unwisdoms
unwise
unwisely
unwiser
unwisest
unwish
unwished
unwishes
unwishing
unwitting
unwit
unwits
unwitted
unwitting
unwittingly
unwon
unwonted
unwooded
unwooed
unworkable
unworked
unworn
unworthier
unworthies
unworthiest
unworthily
unworthiness
unworthinesses
unworthy
unwound
unwove
unwoven
unwrap
unwrapped
unwrapping
unwraps
unwritten
unwrung
unyeaned
unyielding
unyoke
unyoked
upclimbing
upclimbs
upcoil
upcoiled
upcoiling
upcoils
upcoming
upcurl
upcurled
upcurling
upcurls
upcurve
upcurved
upcurves
upcurving
updart
updarted
updarting
updarts
update
updated
updater
updaters
updates
updating
updive
updived
updives
updiving
updo
updos
updove
updraft
updrafts
updried
updries
updries
updry
updrying
upend
upended
upending
upends
upfield
upflying
upflyinging
upflings
upflow
upflowed
upflowing
upflows
upflung
upfold
upfolded
upfolding
upfolds
upgather
upgathered
upgathering
upgathers
upgaze
upgazed
upgazes
upgazing
upgird
upgirded
upgirding
upgirds
upgirt
upgoing
upgrade
upgraded
upgrades
upgrading
upgrew
upgrow
upgrowing
upgrown
upgrows
upgrowth
upgrowths
upheap
upheaped
upheaping
upheaps
upheaval
upheaval
upheave
upheaved
upheaver
upheavers
upheaves
upheaving
upheld
uphill
uphills
uphoard
upwards
upwell
upwelled
upwelling
upwells
upwind
upwinds
uracil
uracils
uraei
uraeemia
uraeemias
uraeemic
uraeus
uraeuses
uralite
uralites
uralitic
uranic
uranide
uranides
uranism
uranisms
uranite
uranites
uranitic
uranium
uraniums
uranous
uranyl
uranylic
uranyls
urate
urates
uratic
urban
urbane
urbanely
urbaner
urbanest
urbanise
urbanised
urbanises
urbanising
urbanism
urbanisms
urbanist
urbanists
urbanite
urbanites
urbanities
urbanity
urbanize
urbanized
urbanizes
urbanizing
urchin
urchins
urd
urds
urea
ureal
ureas
urease
ureases
uredia
uredial
uredinia
uredium
uredo
uredos
ureic
ureide
ureides
uremia
uremias
uremic
ureter
ureteral
ureteric
ureters
urethan
urethane
ure-than
urethanes
urethans
urethra
urethrae
urethral
urethras
uretic
urge
urged
urgencies
urgency
urgent
urgently
urger
urgers
urges
urging
urgingly
uric
uridine
uridines
urinal
urinals
urinalysis
urinaries
urinary
urinate
urinated
urinates
urinating
urination
urinations
urine
urinemia
urinemias
urinemic
urines
urinose
urinous
urn
urnlike
urns
urochord
urochords
urodele
urodeles
urolagnia
urolagnias
urolith
uroliths
urologic
urologies
urology
uropod
uropodal
vacancy
vacant
vacantly
vacate
vacated
vacates
vacating
vacation
vacationed
vacationer
vacationers
vacationing
vacations
vaccina
vaccinal
vaccinas
vaccinate
vaccinated
vaccinates
vaccinating
vaccination
vaccinations
vaccine
vaccines
vaccinia
vaccinias
vacillate
vacillated
vacillates
vacillating
vacillation
vacillations
vacua
vacuities
vacuity
vacuolar
vacuole
vacuoles
vacuous
vacuously
vacuousness
vacuousnesses
vacuum
vacuumed
vacuuming
vacuums
vadose
vagabond
velocity
velour
velours
veloute
veloutes
velum
velure
velured
velures
veluring
velveret
velverets
velvet
velveted
velvets
velvety
vena
venae
venal
venalities
venality
venally
venatic
venation
venations
vend
vendable
vendace
vendaces
vended
vendeen
vendees
vender
venders
vendetta
vendettas
vendible
vendibles
vendibly
vending
vendor
vendors
vends
vendue
vendues
veneer
veneered
veneerer
venous
venously
vent
ventage
ventages
ventail
ventails
vented
venter
venters
ventilate
ventilated
ventilates
ventilating
ventilation
ventilations
ventilator
ventilators
venting
ventless
ventral
ventrals
ventricle
ventricles
ventriloquism
ventriloquisms
ventriloquist
ventriloquists
ventriloquy
ventriloquys
vents
venture
ventured
venturer
venturers
ventures
venturesome
venturesomely
venturesomeness
venturesomenesses
venturi
venturing
venturis
venue
venues
venular
venule
venules
verderer
verderers
verderor
verderors
verdict
verdicts
verdin
verdins
verditer
verditers
verdure
verdured
verdures
verecund
verge
verged
vergence
vergences
verger
vergers
verges
verging
verglas
verglasses
veridic
verier
veriest
verifiable
verification
verifications
verified
verifier
verifiers
verifies
verify
verifying
verily
verism
verismo
verismos
verisms
verist
veristic
verists
veritable
veritably
veritas
veritates
verities
verity
verjuice
verjuices
vermeil
vermeils
vermes
vermian
vermicelli
vermicellis
vermin
vermis
vermoulu
vermouth
vermouths
vermuth
vermuths
vernacle
vernacles
vernacular
vernaculars
vernal
vernally
vernicle
vernicles
vernier
verniers
vernix
vernixes
veronica
veronicas
verruca
verrucae
versal
versant
versants
versatile
versatilities
versatility
verse
versed
verseman
versemen
verser
versers
verses
verset
versets
versicle
versicles
versified
versifies
versify
versifying
versine
versines
versing
version
versions
verso
versos
verst
verste
verstes
versts
versus
vert
vertebra
vertebrae
vertebral
vertebras
vertebrate
vertebrates
vertex
vertexes
vertical
vertically
verticalness
verticalnesses
verticals
vertices
verticil
verticils
vertigines
vertigo
vertigoes
vertigos
verts
vertu
vertus
ervain
ervains
erve
erves
ervet
ervets
very
vesica
vesicae
vesical
vesicant
vesicants
vesicate
vesicated
vesicates
vesicating
vesicle
vesicles
vesicula
vesiculae
vesicular
vesigia
vesper
vesperal
vesperals
vespers
vespiaries
vespiary
vespid
vespids
vespine
vessel
vesseled
vessels
vest
vesta
vestal
vestally
vestals
vestas
vested
vestee
vestees
vestiaries
vestiary
vestibular
vestibule
vestibules
vestige
vestiges
vestigial
vestigially
vesting
vestings
vexing
vexingly
vest
via
viabilities
viability
viable
viably
viaduct
viaducts
vial
viated
vialing
vialled
vialling
vials
viand
viands
viatic
viatica
viatical
viaticum
viaticums
viator
viatores
viators
vibes
vibiod
vibist
vibists
vibrance
vibrances
vibrancies
vibrancy
vibrant
vibrants
vibrate
vibrated
vibrates
vibrating
vibration
vibrations
vibrato
vibrator
vibrators
vibratory
vibratos
vibrio
viewers
viewier
viewiest
viewing
viewings
viewless
viewpoint
viewpoints
views
viewy
vigil
vigilance
vigilances
vigilant
vigilante
vigilantes
vigilantly
vigils
vignette
vignetted
vignettes
vignetting
vigor
vigorish
vigorishes
vigoroso
vigorous
vigorously
vigorousness
vigorousnesses
vigors
vigour
vigours
viking
vikings
vilayet
vilayets
vile
vilely
vileness
vilenesses
viler
vilest
vilification
vilifications
vilified
vilifier
vilifiers
vilifies
vilify
vilifying
vilipend
vilipended
vilipending
vilipends
vill
villa
villadom
villadoms
villae
village
villager
villagers
villages
villain
villainies
villains
villainy
villas
villatic
villein
villeins
villi
villianess
villianesses
villianous
villianously
villianousness
villianousnesses
villose
villous
vills
villus
vim
vimen
vimina
viminal
vimpa
vims
vin
vina
vinal
vinals
vinas
vinasse
vinasses
vinca
vincas
vincible
vincristine
vincristines
vincula
vinculum
vinculums
vindesine
vindicate
vindicated
vindicates
vindicating
vindication
vindications
vindicator
vindicators
vindictive
vindictively
vindictiveness
vindictivenesses
vine
vineal
vined
vinegar
vinegars
vinegary
vineries
vinery
vines
vineyard
vineyards
vinc
vinier
viniest
vinifera
viniferas
vining
vino
vinos
vinosities
vinosity
vinous
vinously
vins
vintage
vintager
vintagers
vintages
vintner
vintners
viny
vinyl
vinylic
vinyls
viol
viola
violable
violably
violas
violate
violated
violater
violaters
violates
violating
violation
violations
violator
violators
violence
viences
violent
violently
violet
violets
violin
violinist
violinists
violins
violist
violists
violone
violones
viols
viomycin
viomycins
viper
viperine
viperish
viperous
vipers
virago
viragoes
viragos
viral
visually
vita
vitae
vital
vitalise
vitalised
vitalises
vitalising
vitalism
vitalisms
vitalist
vitalists
vitalities
vitality
vitalize
vitalized
vitalizes
vitalizing
vitally
vitals
vitamer
vitamers
vitamin
vitamine
vitamines
vitamins
vitellin
vitellins
vitellus
vitelluses
vitesse
vitesse
vitiable
vitiate
vitiated
vitiates
vitiating
vitiation
vitiations
vitiator
vitiators
vitiligo
vitiligos
vitreous
vitric
vitrification
vitrifications
vitrified
vitrifies
vitrify
vitrifying
vitrine
vitrines
vitriol
vitrioled
vitriolic
vitrioling
vitriolled
vitriolling
vitriols
vitta
vittae
vittate
vittle
vittled
vittles
vittling
vituline
vituperate
vituperated
vituperates
vituperating
vituperation
vituperations
vituperative
vituperatively
viva
vivace
vivacious
vivaciously
vivaciousness
vivaciousnesses
vivacities
vivacity
vivaria
vivaries
vivarium
vivariums
vivary
vivas
vive
viverrid
viverrids
vivers
vivid
vivider
vividest
vividly
vividness
vividnesses
vivific
vivified
vivifier
vivifiers
vivifies
vivy
vivifying
vivipara
vivisect
vivisected
vivisecting
vivisection
vivisections
vivisects
vixen
vixenish
vixenly
vixens
vizard
vizarded
vizards
vizcacha
vizcachas
vizier
viziers
vizir
vizirate
vizirates
vizirial
vizirs
vizer
vizored
vizoring
vizors
vizsla
vizslas
vocable
vocables
vocably
vocabularies
vocabulary
vocal
vocalic
vocalics
voidances
voided
voider
voiders
voiding
voidness
voidnesses
voids
voie
voiles
volant
volante
volar
volatile
volatiles
volatilities
volatility
volatilize
volatilized
volatilizes
volatilizing
volcanic
volcanics
volcano
volcanoes
volcanos
vole
voled
voleries
volery
voles
voling
volitant
volition
volitional
volitions
volitive
volley
volleyball
volleyballs
volleyed
volleyer
volleyers
volleying
volleys
volost
volosts
volplane
voyeur
voyeurs
vroom
vroomed
vrooming
vrooms
vrouw
vrouws
vrow
vrows
vug
vugg
vuggs
vuggy
vugh
vughs
vugs
vulcanic
vulcanization
vulcanizations
vulcanize
vulcanized
vulcanizes
vulcanizing
vulgar
vulgarer
vulgarest
vulgarism
vulgarisms
vulgarities
vulgarity
vulgarize
vulgarized
vulgarizes
vulgarizing
vulgarly
vulgars
vulgate
vulgates
vulgo
vulgu
vulges
vulguses
vulnerabilities
vulnerability
vulnerable
vulnerably
vulpine
vulture
waddying
wade
wadeable
waded
wader
waders
wades
wadi
wadies
wading
wadis
wadmaal
wadmaals
wadmal
wadmals
wadmel
wadmels
wadmol
wadmoll
wadmolls
wadmols
wads
wadset
wadsets
wadsetted
wadsetting
wady
wae
waefu
waeful
waeness
waennesses
waes
waesuck
waesucks
wafer
wafered
wafering
wafers
wafery
waff
waffed
waffie
waffies
waffing
waffle
waffled
waffles
waffling
waffs
waft
waftage
waftages
wafted
wafter
wafters
wafting
wafts
wafture
wafutures
wag
wage
waged
wageless
wager
wagered
wagerer
wagerers
wagering
wagers
wages
wagged
wagger
waggeries
waggers
waggery
wagging
waggish
waggle
waggled
waggles
waggling
waggly
waggon
waggoned
waggoner
waggoners
waggoning
waggons
waging
wagon
wagonage
wagonages
wagoned
wagoner
wagoners
wagoning
wagon
wags
wagsome
wagtail
wagtails
wahconda
wahcondas
wahine
wahines
wahoo
wahoos
waif
waifed
waifing
waifs
wail
wailed
wailer
waiters
waitful
wailing
wails
wailsome
wain
wains
waist
waisted
waister
waisters
waisting
waistings
waistline
waistlines
waists
wait
waited
waiter
wantoning
wantonly
wantonness
wantonnesses
wantons
wants
wany
wap
wapiti
wapitis
wapped
wapping
waps
war
warble
warbled
warbler
warblers
warbles
warbling
warcraft
warcrafts
ward
warded
warden
wardenries
wardenry
wardens
warder
warders
warding
wardress
wardresses
wardrobe
wardrobes
wardroom
wardrooms
wards
wardship
wardships
ware
warded
warehouse
warehoused
warehouseman
warehousemen
warehouser
warehousers
wayfaring
waygoing
waygoings
waylaid
waylay
waylayer
waylayers
waylaying
waylays
wayless
ways
wayside
waysides
wayward
wayworn
we
weak
weaken
weakened
weakener
weakeners
weakening
weakens
weaker
weakest
weakfish
weakfishes
weakish
weaklier
weakliest
weakling
weaklings
weakly
weakness
weaknesses
weal
weald
wealds
weals
wealth
wealthier
wealthiest
wealths
wealthy
wean
weaned
weaner
weaners
weaning
weanling
weanlings
weans
weapon
weaponed
weaponing
weaponries
weaponry
weapons
wear
wearable
wearables
wearer
wearers
wearied
wearier
wearies
weariest
weariful
wearily
weariness
wearinesses
wearing
wearish
wearisome
wears
weary
wearying
weasand
weasands
weasel
weaseled
weaseling
weasels
weason
weasons
weather
weathered
weathering
weatherman
weathermen
weatherproof
weatherproofed
weatherproofing
weatherproofs
weatherers
weavers
weave
weaved
weaver
weavers
weaves
weaving
weazand
weazands
web
webbed
webbier
webbiest
webbing
webbings
webby
weber
webers
webfed
webfeet
webfoot
webless
weblike
webs
webster
websters
webworm
webworms
wecht
wechts
wed
wedded
wedder
wedders
wedding
weddings
wedel
wedeled
wedeling
wedeln
wedelns
wedels
wedge
wedged
wedges
wedgie
wedgier
wedgies
wedgiest
wedging
weeps
weepy
weer
wees
weest
weet
weeted
weeting
weets
weever
weevers
weevil
weeviled
weevilly
weevils
weevily
weewee
weeweed
weeweeing
weewees
weft
wefts
weftwise
weigela
weigelas
weigelia
weigeliaas
weigh
weighed
weigher
weighers
weighing
weighman
weighmen
weighs
weight
weighted
weighter
weighters
weightier
weightiest
weighting
weightless
weightlessness
weightlessnesses
weights
weighty
weiner
wetly
wetness
wetnesses
wetproof
wets
wettaltable
wetted
wetter
wetters
wettest
wetting
wettings
wettish
wha
whack
whacked
whacker
whackers
whackier
whackiest
whacking
whacks
whacky
whale
whalebones
whaled
whaleman
whalemen
whaler
whalers
whales
whaling
whalings
wham
whammed
whammies
whamming
whammy
whams
whang
whanged
whangee
whangees
whanging
whangs
whap
whapped
whiffers
whiffet
whiffets
whiffing
whiffle
whiffled
whiffler
whifflers
whiffles
whiffling
whiffs
while
whiled
whiles
whileing
whilom
whilst
whim
whimbrel
whimbrels
whimper
whimpered
whimpering
whimpers
whims
whinsey
whimeys
whimsical
whimsicalities
whimsicality
whimsically
whimsied
whimsies
whimsy
whin
whinchat
whinchats
whine
whined
whiner
whiners
whines
whiney
whinier
whiniest
whining
whinnied
whinnier
whinnies
whinniest
whinny
whinnying
whins
whiny
whip
whipcord
whipcords
whiplash
whiplashes
whiplike
whipped
whipper
whippers
whippersnapper
whippersnappers
whippet
whippets
whippier
whippiest
whipping
whippings
whippoorwill
whippoorwills
whippy
whipray
whiprays
whips
whipsaw
whipsawed
whipsawing
whipsawn
whipsaws
whipt
whiptail
whiptails
whipworm
whipworms
whir
whirl
whirled
whirler
whirlers
whirlier
whirliest
whirling
whistling
whists
whit
white
whitebait
whitebaits
whitecap
whitecaps
whited
whitefish
whitefishes
whiteflies
whitefly
whitely
whiten
whitened
whitener
whiteners
whiteness
whitenesses
whitening
whitens
whiteout
whiteouts
whiter
whites
whitest
whitetail
whitetails
whitewash
whitewashed
whitewashes
whitewashing
whitey
whiteys
whither
whities
whiting
whitings
whitish
whitlow
whitflows
whitrack
whitracks
whits
whitter
whitters
whittle
whittled
whittler
whittlers
whittles
whittling
whittret
whittrets
whity
whiz
whizbang
whizbangs
whizz
whizzed
whizzer
whizzers
whizzes
whizzing
who
whoa
whoas
whodunit
whodunits
whoever
whole
wholehearted
wholeness
wholenesses
wholes
wholesale
wholesaled
wholesaler
wholesalers
wholesales
wholesaling
wholesome
wholesomeness
wholesomenesses
wholism
wholisms
wholly
whom
whomever
whomp
whomped
whomping
whomps
whomso
whoop
whooped
whooppee
whoopees
whooper
whoopers
whooping
whoopla
whooolas
whoops
whoosh
whooshed
whooshes
whooshing
whoosis
whoosises
whop
whopped
whopper
whoppers
whopping
whops
whore
whored
whoredom
whoredoms
whores
whoreson
whoresons
whoring
whorish
whorl
whorled
whorls
whort
whortle
whortles
whorts
whose
whosever
whosis
whosises
whoso
whosoever
whump
whumped
whumping
whumps
why
wider
wides
widespread
widest
widgeon
widgeons
widget
widgets
widish
widow
widowed
widower
widowers
widowhood
widowhoods
widowing
widows
width
widths
widthway
wield
wielded
wielder
wielders
weldier
weldiest
wielding
wields
wieldy
wiener
wiener
wieners
wienie
wienies
wife
wifed
wifedom
wifedoms
wifehood
wifehoods
wifeless
wifelier
wifeliest
wifely
wifely
wifes
wifing
wig
wigan
wigans
wigeon
wigeons
wigged
wiggeries
wiggery
wixing
wixings
wixle
wixled
wixler
wixlers
wixles
wixliest
wixling
wixly
wight
wights
wixless
wixlet
wixlets
wixlike
wixmaker
wixmakers
wix
wixwag
wixwagged
wixwagging
wixwags
wixwam
wixwams
wixiup
wixiups
wixco
wixd
wixcat
wixcats
wixcatted
wixcatting
wixder
wixdered
wixdering
wixderness
wixdernesses
wixders
wixdest
wixfire
wildfires
wildfowl
wildfowls
wilding
wildings
wildish
wildlife
wildling
wildlings
wildly
wildness
wildnesses
wilde
wiled
wiles
wilful
wilfully
wiliest
wiliest
wilily
wiliness
wilinesses
wiling
will
willable
willed
willer
willers
willet
willets
wilful
wilfully
willied
willies
willing
willinger
willingest
willingly
willingness
williwa
williwa
williwa
williwa
williwa
willow
willowed
windrowing, windrows, winds, windshield, windshields, windsock, windsocks, windup, windups, windward, windwards, windway, windways, windy, wine, wined, wineless, wineries, winery, wines, wineshop, wineshops, wineskin, wineskins, winesop, winesops, winey, wing, wingback, wingbacks, wingbow, wingbows, wingding, wingdings, winged, wingedly, winger, wingers, wingier, wingiest, winging, wingless, winglet, winglets, winglike, wingman, wingmen, wingover
wishers
wishes
wishful
wishing
wishless
wising
wisp
wisped
wispier
wisiest
wispily
wispings
wispish
wisplike
wisps
wispier
wiss
wissed
wisses
wissing
wist
wistaria
wistarias
wisted
wisteria
wisterias
wistful
wistfully
wistfulness
wistfulness
wistfulnesses
wisting
wists
wit
witan
witch
witchcraft
witchcrafts
witched
witcheries
witchery
witches
witchier
witchiest
witching
witchings
witchy
wite
wited
witnesses
witnessing
witney
witneys
wits
witted
witticism
witticisms
wittier
wittiest
wittily
wittiness
wittinesses
witting
wittingly
wittings
wittol
wittols
witty
wive
wived
wiver
wivern
wiverns
wivers
wives
wiving
wiz
wizard
wizardly
wizardries
wizardry
wizards
wizen
wizened
wizening
wizens
wizes
wizzen
wizzens
wo
woad
woaded
woads
woadwax
woadwaxes
woald
woalds
woodenness
woodennesses
woodhen
woodhens
woodier
woodiest
woodiness
woodinesses
wooding
woodland
woodlands
woodlark
woodlarks
woodless
woodlore
woodlores
woodlot
woodlots
woodman
woodmen
woodnote
woodnotes
woodpecker
woodpeckers
woodpile
woodpiles
woodruff
woodrufts
woods
woodshed
woodshedded
woodshedding
woodsheds
woodsia
woodsias
woodsier
woodsiet
woodsman
woodsman
woodsman
woodsman
woodsy
woodwax
woodwaxes
woodwind
woodwinds
woodwork
woodworks
woodworm
woodworms
wow
wowed
wowing
wows
wowser
wowsers
wrack
wracked
wrackful
wracking
wracks
wraith
wraiths
wrang
wrangle
wrangled
wrangler
wranglers
wrangles
wrangling
wrangs
wrap
wrapped
wrapper
wrappers
wrapping
wrappings
wraps
wrapt
wrasse
wrasses
wrastle
wrastled
wrastles
wrastling
wrath
wrathed
wrathful
wrathier
wrathiest
wrathily
wrathing
wraths
wrathy
wreak
wreaked
wreaker
wreakers
written
wrong
wrongdoer
wrongdoers
wrongdoing
wrongdoings
wronged
wronger
wrongers
wrongest
wrongful
wrongfully
wrongfulness
wrongfulnesses
wrongheaded
wrongheadedly
wrongheadedness
wrongheadednesses
wronging
wrongly
wroings
wrote
wroth
wrothful
wrought
wrung
wry
wryer
wryest
wrying
wryly
wryneck
wrynecks
wryness
wrynesses
wud
wurst
wursts
wurzel
wurzels
wych
wyches
wye
wyes
wyle
wyled
wyles
wyling
yabbers
yacht
yachted
yachter
yachters
yachting
yachtings
yachtman
yachtmen
yachts
yack
yacked
yacking
yacks
yaff
yaffed
yaffing
yaffs
yager
yagers
yagi
yagis
yah
yahoo
yahooism
yahooisms
yahoos
yaird
yairds
yak
yakked
yakking
yaks
yald
yam
yamen
yamens
yammer
yammered
yammerer
yammerers
yammering
yammers
yams
yamun
yamuns
yang
yangs
yank
yanked
yanking
yanks
yanqui
yanquis
yap
yapock
yapocks
yapok
yapoks
yapon
yapons
yapped
yapper
yappers
yapping
yappy
yaps
yar
yard
yardage
yardages
yardarm
yardarms
yardbird
yardbirds
yarded
yarding
yardman
yardmen
yards
yardstick
yardsticks
yardwand
yardwands
yare
yarely
yarer
yarest
yarmelke
yarmelkes
yarmulke
yarmulkes
yarn
yarned
yarning
yarns
yarrow
yarrows
yashmac
yashmacs
yashmak
yashmakks
yasmak
yasmakks
yatagan
yatagans
yataghan
yataghans
yaud
yauds
yauld
yaup
yauped
yauper
yaupers
yauping
yaupon
yaupons
yaups
yaw
yawed
yawing
yawl
yawled
yawling
yawls
yawmeter
yawmeters
yawn
yawned
yawner
yawners
yawning
yawns
yawp
yawped
yawper
yawpers
yawping
yawpings
yawps
yaws
yay
ycleped
yowe
yowed
yowes
yowie
yowies
yowing
yowl
yowled
yowler
yowlers
yowling
yowls
yows
yperite
yperites
ytterbia
ytterbias
ytterbic
ytria
ytrrias
yttric
yttrium
yttriums
yuan
yuans
yuca
yuccas
yuga
yugas
yuk
yukked
yukking
yuks
yulan
yulans
yule
yules
yuletide
yuletides
yummier
yummies
yumiest
yummy
yup
yupon
yupons
yurt
yurta
yurts
ywis
zabaione
zabaiones
zabajone
zabajones
zacaton
zacatons
zaddik
zaddikim
zaffar
zaffars
zaffer
zaffers
zaffir
zaffirs
zaffre
zaffres
zaftig
zag
zagged
zagging
zags
zaiibatsu
zaire
zaire
zaires
zamarra
zamarras
zamarro
zamarros
zamia
zamias
zamindar
zamindars
zanana
zananas
zander
zanders
zanier
zanies
zaniest
zanily
zaniness
zaninesses
zany
zanyish
zanza
zanzas
zap
zapateo
zapateos
zapped
zapping
zaps
zaptiaah
zaptiahs
zaptieh
zaptiehs
zaratite
zaratites
zareba
zarebas
zareeba
zareebas
zarf
zarfs
zariba
zaribas
zarzuela
zarzuelas
zastruga
zastrugi
zax
zaxes
zayin
zayins
zeal
zealot
zealotries
zealotry
zealots
zealous
zealously
zealousness
zealousnesses
zeals
zeatin
zeatins
zebec
zebeck
zebecs
zebecs
zebra
zebraic
zebras
zebrass
zircons
zither
zithern
zithers
ziti
zitis
zizith
zizzle
zizzled
zizzlies
zizzling
zloty
zlotys
zoa
zoaria
zoarial
zoarium
zodiac
zodiacal
zodiacs
zoea
zoeeae
zoeal
zoes
zofig
zoic
zoisite
zoisites
zombi
zombie
zombies
zombiism
zombisms
zombis
zonal
zonally
zonary
zonate
zonated
zonation
zonations
zone
zoned
zoneless
zoner
zoners
zones
zoonosis
zoonotic
zoons
zoophile
zoophiles
zoophyte
zoophytes
zoos
zoosperm
zoosperms
zoospore
zoospores
zootomic
zootomies
zootomy
zori
zoril
zorilla
zorillas
zorille
zorilles
zorillo
zorillos
zorils
zoster
zosters
zouave
zouaves
zounds
zowie
zoysia
zoysias
zucchini
zucchinis
zwieback
zwiebacks
zygoma
zygomas
zygomata
zygose
zygoses
zygosis
zygosities
zygosity
zygote
zygotene
zygotenes
zygotes
zygotic
zymase
zymases
zyme
zymes
zymogen
zymogene
zymogenes
zymogens
zymologies
zymology
zymoses
zymotic
zymurgies
zymurgy

Found in path(s):
No license file was found, but licenses were detected in source scan.

-able
-acea
-aceae
-aceous
-ad
-adic
-aemia
-age
-agogue
-al
-ales
-algia
-ally
-amine
-an
-ana
-ance
-ancy
-androus
-andry
-ane
-ant
-ar
-arch
-archy
-ard
-arian
-arium
-art
-ary
-ase
-asis
-aster
-ate
-ation
-ative
-ator
-atory
-blast
-cade
-carp
-carpic
-carpous
-cele
-cene
-cephalic
-chrome
-cide
-cle
-colous
-cracy
-crat
-cule
-cy
-cyst
-cyte
-derm
-dom
-drome
-dromous
-ean
-ectomy
-ed
-ee
-eer
-eme
-emia
-en
-ence
-ency
-ene
-ent
-eous
-er
-iasis
-iatrics
-iatry
-ible
-ic
-ical
-ician
-ics
-id
-idae
-ide
-ie
-ier
-ify
-ile
-in
-inae
-ine
-ing
-ion
-ious
-ise
-ish
-ism
-ist
-istic
-ite
-itis
-itol
-ity
-iun
-ive
-ize
-kin
-lalia
-latry
-lepsy
-less
-let
-like
-ling
-lite
-lith
-lithic
-log
-logue
-logy
-ly
-lysis
-lyte
-lytic
-mancy
-mania
-mantic
-mas
-ment
-mer
-mere
-merous
-meter
-metry
-mo
-most
-n’t
-nasty
-ness
-nik
-ock
-ode
-odont
-oid
-oidea
-ol
-ole
-oma
-on
-one
-onym
-opia
-opsis
-or
-ory
-ose
-osis
-otic
-ous
-parous
-path
-pathy
-pede
-petal
-phage
-phagy
-phane
-phasia
-phile
-philia
-philous
-phobe
-phone
-phony
-phone
-phyll
-phyllous
-phyte
-plasia
-plasm
-plast
-plastic
-plasty
-pod
-podium
-proof
-pterous
-rhoea
-rrhagia
-rrhoea
-ry
-s
-scope
-sepalous
-ship
-some
-sophy
-sperm
-st
-stat
-ster
-stichous
-stome
-stomy
-stress
-taxis
-th
-thermy
-tion
-tome
-tomy
-trix
-trope
-trophy
-tropic
-tropism
-tropous
Abba
Abbasid
Abbevillian
Abbey Theatre
Abdias
Abdul-Hamid II
Abednego
Abel
Abelard
Abeokuta
Aberdare
Aberdeen
Aberdeen Angus
Abib
Abidjan
Abigail
Abilene
Abingdon
Abnaki
Abney level
Abraham
Abruzzi
Absalom
Abu Simbel
Abu-Bekr
Abukir
Abydos
Abyssinia
Abyssinian cat
Ac
Acadia
Acadian
Acapulco
Accad
Accra
Aceldama
Achaea
Achaean
Achaean League
Achaemenid
Achates
Achelous
Achernar
Acheron
Achilles
Achilles heel
Achilles tendon
Achitophel
Acis
Aconcagua
Acre
Acrilan
Actaeon
Actium
Acton
Acts of the Apostles
Adam
Adam's ale
Adam's apple
Adam's-needle
Adam-and-Eve
Adamic
Adamite
Adams
Adams-Stokes syndrome
Adana
Adapa
Adar
Adar Sheni
Addams
Addington
Addis Ababa
Addison
Addison's disease
Addressograph
Adelaide
Aden
Adenauer
Adige
Adigranth
Adirondack Mountains
Adler
Adm.
Admetus
Admiralty Islands
Admiralty Range
Admiralty mile
Adonai
Adonic
Adonis
Adowa
Adrastus
Adrenalin
Adrian
Adrian IV
Adrianople
Afro-American
Afro-Asian
Afro-Asiatic
Ag
Aga Khan IV
Agadir
Agamemnon
Age of Reason
Agincourt
Aglaia
Agnes
Agni
Agnus Dei
Agra
Agram
Agricola
Agrigento
Agrippa
Aguascalientes
Agulhas
Ahab
Ahasuerus
Ahithophel
Ahmedabad
Ahmednagar
Ahriman
Ahura Mazda
Ahvenanmaa
Ahwaz
Aidoneus
Ain
Aintab
Ainu
Air National Guard
Airdrie
Airedale
Aisha
Aisne
Aitken
Aix-en-Provence
Aix-la-Chapelle
Ajaccio
Ajax
Ajmer
Akan
Akbar
Akihito
Akkad
Akkadian
Akkerman
Akmolinsk
Akron
Aksum
Al
Al Hufuf
Al Sirat
Ala.
Alabama
Aladdin
Alagez
Alagoas
Alamein
Alamo
Alaric
Alas.
Alaska
Alaska Highway
Alaska Peninsula
Alaska Range
Alaskan malamute
Alb.
Alba
Alba Longa
Albacete
Albania
Albanian
Albany
Albemarle Sound
Alberich
Albert
Albert Edward
Albert I
Alberta
Alberti
Albertus Magnus
Albi
Albigenses
Albinus
Albion
Alboin
Albuquerque
Alcaeus
Alcaic
Alcan Highway
Alcatraz
Alceste
Algeria
Algerian
Algiers
Algol
Algonkian
Algonquian
Algonquin
Algonquin Park
Alhambra
Ali
Ali Baba
Ali Pasha
Alicante
Alice blue
Aligarh
Alkmaar
Alkoran
All Fools' Day
All Saints' Day
All Souls' Day
Allah
Allahabad
Allan-a-Dale
Allegheny Mountains
Allen
Allen wrench
Allenby
Allentown
Allhallowmas
Allhallows
Allhallowtide
Allier
Alloway
Alma-Ata
Alma-Tadema
Almagest
Almanach de Gotha
Alnico
Alost
Alpha
Alpha Centauri
Alpheus
Alphonsus
Alpine
Alps
Alsace
Alsace-Lorraine
Alsatia
Alsatian
Alta.
Altai Mountains
Altaic
Altair
Altamira
Altdorf
Altdorfer
Althing
Altona
Alundum
Alva
Alzheimer's disease
Am
Am.
Amagasaki
Amalekite
Amarillo
Amaryllis
Amatí
Amazon
Amazonas
Ambala
Amboina
Amboise
Ambrose
Ambrosian chant
Amen
Amen-Ra
Amenhotep III
Amenhotep IV
Amer.
America
America's Cup
American
American Beauty
American Expeditionary Forces
American Indian
American Revised Version
American Revolution
American Samoa
American Standard Version
American Stock Exchange
American aloe
American chameleon
American cheese
American cloth
American eagle
American plan
American saddle horse
American trypanosomiasis
American water spaniel
Americana
Americanism
Americanist
Americanize
Americano
Amerigo Vespucci
Amerind
Amersfoort
Amhara
Amharic
Amherst
Amiens
Amis
Amish
Amman
Ammon
Amon
Amor
Amos
Amoy
Amphitrite
Amphitryon
Amritsar
Amsterdam
Amu Darya
Amundsen
Amur
Amytal
An
Anabaptist
Anacreon
Anacreontic
Anaheim
Anam
Ananias
Anastasia
Anatolia
Anatolian
Anatolic
Anaxagoras
Anaximander
Anaximenes
Anchises
Anchorage
Antarctic Circle
Antarctic Ocean
Antarctic Peninsula
Antarctic Zone
Antarctica
Antares
Anthony
Anthony of Padua
Anti-Lebanon
Antibes
Antichrist
Anticosti
Antietam
Antifederalist
Antigone
Antigonus I
Antigua
Antilles
Antioch
Antiochus III
Antiochus IV
Antipater
Antipodes
Antisana
Antisthenes
Antlia
Antofagasta
Antoinette
Antoninus
Antoninus Pius
Antonius
Antony
Antony and Cleopatra
Antrim
Antung
Antwerp
Anu
Anubis
Anuradhapura
Anvers
Anzac
Anzio
Aorangi
Apache
Aparri
Apeldoorn
Apelles
Apennines
Aphrodite
Apia
Apis
Apo
Apoc.
Apocalypse
Apocrypha
Apollinaire
Apollo
Apollo Belvedere
Apollonian
Apollonius
Apollyon
Apostles' Creed
Apostolic Fathers
Apostolic See
Appalachia
Appalachian
Appalachian Mountains
Appaloosa
Appenzell
Appian Way
Appleton
Appleton layer
Appomattox
Apr.
April
April fool
Apuleius
Apulia
Apure
Apus
Aqaba
Aquarius
Aquila
Aquileia
Aquinas
Aquitaine
Ar
Ar Rimal
Ar.
Ara
Arab
Arab League
Arab.
Arabia
Arabia Deserta
Arabian
Arabian Desert
Arabian Sea
Arabian camel
Arabic
Arabic numerals
Arabist
Araby
Arachne
Arad
Arafura Sea
Aragats
Aragon
Aral Sea
Aram
Aramaic
Aranyaka
Arapaho
Ararat
Aras
Araucania
Araucanian
Arawak
Arawakan
Arawn
Araxes
Arbela
Arbil
Arbuthnot
Arcadia
Arcadian
Arch.
Archaean
Archaeozoic
Archangel
Archean
Archeozoic
Archer
Archilochus
Archimedes
Archimedes' principle
Archimedes' screw
Archipenko
Arctic
Arctic Circle
Arctic Ocean
Arctic Zone
Arctogaea
Arcturus
Arkansas
Arkhangelsk
Arkwright
Arlberg
Arles
Arlington
Arm.
Armada
Armageddon
Armagh
Armagnac
Armenia
Armenian
Arminius
Armistice Day
Armstrong
Arne
Arnhem
Arno
Arnold
Arp
Arran
Arras
Arrhenius
Arru Islands
Art Nouveau
Artaxerxes I
Artaxerxes II
Artemis
Arthur
Arthurian
Articles of Confederation
Articles of War
Artois
Aru Islands
Aruba
Arundel
Aruwimi
Aryan
Aryanize
As
Asben
Ascanius
Ascension
Ascension Day
Asch
Ascham
Asclepiadean
Asclepius
Ascot
Asgard
Ash Wednesday
Ashanti
Ashcroft
Asher
Ashford
Ashkhabad
Ashton
Ashton-under-Lyne
Ashtoreth
Ashur
Ashurbanipal
Asia
Asia Minor
Asian
Asian flu
Asiatic
Asiatic beetle
Asiatic cholera
Asiatic flu
Asir
Ask
Askja
Asmara
Asmodeus
Asoka
Aspasia
Asperges
Aspinwall
Asquith
Assam
Assamese
Asshur
Assiniboine
Assisi
Assiut
Associated Press
Assuan
Assur
Assurbanipal
Assyr.
Assyria
Assyrian
Assyriology
Astaire
Astarte
Asti
Astolat
Aston
Astor
Astoria
Astrakhan
Asturias
Astyanax
Asur
Aswan
Asyut
At
Atabrine
Atacama Desert
Atahualpa
Atalanta
Atbara
Ate
Aten
Athabaska
Athamas
Athanasian
Athanasian Creed
Athanasius
Athapaskan
Atharva-Veda
Athelstan
Athena
Athenian
Athens
Athos
Atkinson
Atlanta
Atlantean
Atlantic
Atlantic Charter
Atlantic City
Atlantic Intracoastal Waterway
Atlantic Ocean
Atlantic Provinces
Atlantis
Atlas
Atlas Mountains
Atli
Atomic Energy Commission
Aton
Atreus
Atropos
Att. Gen.
Attic
Attic salt
Attica
Atticism
Attila
Attis
Attlee
Attorney General
Attu
Au
Aube
Aubervilliers
Aubrey
Auckland
Aude
Auden
Audubon
Audubon Society
Audubon's warbler
Auer
Aug.
Augean
Augean stables
Auger effect
Augsburg
August
Augusta
Augustan
Augustine
Augustinian
Augustus
Aulic Council
Aunt Sally
Aurangzeb
Aurelian
Aurelius
Aureomycin
Auriga
Aurignacian
Auriol
Aurora
Aus.
Auschwitz
Ausgleich
Aussie
Aust.
Austen
Auster
Austerlitz
Austin
Austral.
Australasia
Australia
Australian
Australian Alps
Australian Capital Territory
Australian ballot
Australian crawl
Australian terrier
Australoid
Australopithecus
Australorp
Austrasia
Austria
Austria-Hungary
Austro-
Austroasiatic
Austronesia
Austronesian
Auth. Ver.
Authorized Version
Autoharp
Autolycus
Auvergne
Aux Cayes
Av
Avalokitesvara
Avalon
Avar
Ave
Ave Maria
Ave.
Avebury
Avellaneda
Aventine
Avernus
Averroes
Averroism
Avertin
Aves
Avesta
Avestan
Aveyron
Avicenna
Avignon
Bangalore
Bangka
Bangkok
Bangor
Bangui
Bangweulu
Banjermasin
Bank of England
Banka
Banks
Bannister
Bannockburn
Bantam
Banting
Bantu
Bantustan
Banville
Baptist
Barabbas
Barbados
Barbarossa
Barbary
Barbary Coast
Barbary ape
Barber
Barbera
Barbirolli
Barbizon School
Barbuda
Barbusse
Barca
Barcelona
Barclay de Tolly
Bareilly
Barents Sea
Bari
Baring
Barmecidal
Barmecide
Barnabas
Barnard
Barnardo
Bamaul
Barnsley
Barocchio
Baroda
Baroja
Barozzi
Bath stone
Bathsheba
Bathurst
Batista
Baton Rouge
Battle of Britain
Baucis
Baudelaire
Baudouin I
Bauer
Bauhaus
Baum
Bautzen
Bavaria
Bavarian cream
Bax
Bayard
Bayern
Bayeux tapestry
Bayle
Bayonne
Bayreuth
Baziotes
Be
Beach-la-Mar
Beaconsfield
Beadle
Beaker folk
Beardsley
Beat Generation
Beatty
Beaufort
Beaufort Sea
Beaufort scale
Beauharnais
Beaujolais
Beaumarchais
Beaumont
Beaune
Beauvais
Beauvoir
Beaverboard
Beaverbrook
Bebel
Bechuana
Bechuanaland
Becket
Beckett
Bellinzona
Belloc
Bellona
Bellow
Bellows
Belo Horizonte
Belorussia
Belostok
Belovo
Belsen
Belshazzar
Beltane
Bemba
Ben Bella
Ben Day process
Ben Lomond
Ben Nevis
Ben-Gurion
Ben-Zvi
Benadryl
Benares
Bendigo
Benedicite
Benedict
Benedict XV
Benedictine
Benedictus
Benelux
Benevento
Beng.
Bengal
Bengal light
Bengali
Benghazi
Beni
Beni Hasan
Benin City
Benjamin
Bennett
Bennington
Benoni
Bentham
Benthamism
Bentinck
Bentley
Benton
Benue
Benue-Congo
Benzedrine
Beograd
Beowulf
Berar
Berber
Berbera
Berchtesgaden
Bercy
Berdichev
Berenice's Hair
Berenson
Berezina
Berezniki
Berg
Bergama
Bergamo
Bergen
Bergerac
Bergius
Bergman
Bergson
Bergsonism
Beria
Bering
Bering Sea
Bering Strait
Beriosova
Berkeleian
Berkeleianism
Berkeley
Berkshire
Berlin
Berlioz
Bermejo
Bermuda
Bermuda grass
Bermuda onion
Bermuda rig
Bermuda shorts
Bern
Bernadette
Bernadotte
Bernard
Bernard of Clairvaux
Bernardine
Bernese Alps
Bernese mountain dog
Bernhardt
Bible Belt
Bible paper
Bible school
Biblical
Biblical Latin
Biblicist
Biddle
Biedermeier
Biel
Bielefeld
Bienne
Bierce
Bifrost
Big Ben
Big Bertha
Big Board
Big Dipper
Big Five
Bihar
Bihari
Biisk
Bikaner
Bikini
Bikol
Bilbao
Bildungsroman
Bill of Rights
Billiton
Billy the Kid
Bim
Binet-Simon scale
Bingen
Binh Dinh
Bini
Bircher
Bird
Birkenhead
Birmingham
Bisayas
Biscay
Bisitun
Bisk
Biskra
Bismarck
Bismarck Archipelago
Bismarck herring
Bissau
Bisutun
Bithynia
Bitolj
Bitter Lakes
Biysk
Bizerte
Bizet
Bk
Black
Black Country
Black Death
Black Forest
Black Friar
Black Hand
Black Hills
Black Maria
Black Mass
Black Monk
Black Mountains
Black Muslim
Black Panther
Black Power
Black Prince
Black Rod
Black Russian
Black Sea
Black Volta
Black Watch
Black and Tan
Blackbeard
Blackburn
Blackburnian warbler
Blackett
Blackfoot
Blackpool
Blackstone
Blackwall hitch
Blackwood
Blagoveshchensk
Blake
Blanc
Blaue Reiter
Blavatsky
Blenheim
Blenheim spaniel
Blessed Sacrament
Blessed Virgin
Blida
Bligh
Blindheim
Bliss
Bloch
Bloemfontein
Blois
Blok
Bloody Mary
Bloomfield
Bloomington
Bloomsbury
Blue Mountains
Blue Nile
Bluebeard
Blum
Bn.
Boabdil
Boadicea
Boanerges
Board of Trade unit
Boaz
Bobo-Dioulasso
Boccherini
Boccioni
Boche
Bochum
Bodhisattva
Bodleian
Bodoni
Body of Christ
Bohemenism
Bohemenist
Boehmite
Boeotia
Boeotian
Boer
Boer War
Boethius
Bofors gun
Bogart
Bogor
Bohemia
Bohemian
Bohemian Brethren
Bohemian Forest
Bohemianism
Bohol
Bohr
Bohr atom
Bohr theory
Boiardo
Bois de Boulogne
Bois-le-Duc
Boise
Boito
Bokhara
Bol.
Bolan Pass
Boleyn
Bolingbroke
Bolivar
Bolivia
Bologna
Bolognese
Bolshevik
Bolshevism
Bolshevist
Bolton
Boltzmann
Boltzmann constant
Bolzano
Bomarc
Bombay
Bombay duck
Bon
Bona
Bonaire
Bonaparte
Bonaventura
Bonaventure
Bonheur
Boniface
Bonin Islands
Bonn
Bonnard
Bonny
Book of Common Prayer
Book of Mormon
Boole
Boolean algebra
Boone
Booth
Bootle
Bora Bora
Bordeaux
Bordeaux mixture
Bordelaise
Border terrier
Boreas
Borgerhout
Borges
Borghese
Borgia
Borglum
Born
Borneo
Bornholm
Bornholm disease
Bornu
Borodin
Borodino
Borrow
Bors
Bosanquet
Bosch
Bose
Bose-Einstein statistics
Bosnia
Bosnia and Herzegovina
Bosporus
Bossuet
Boston
Boston Tea Party
Boston bag
Boston cream pie
Boston ivy
Boston rocker
Boston terrier
Boswell
Bosworth Field
Botany Bay
Botany wool
Botha
Bothnia
Bothwell
Botswana
Botticelli
Bottrop
Botvinnik
Boucher
Boucicault
Boudicca
Bougainville
Boulanger
Boulder Dam
Brandt
Brantford
Braque
Brasil
Bratislava
Braun
Braunschweig
Braz.
Brazil
Brazil nut
Brazzaville
Breda
Breed's Hill
Bregenz
Bremen
Bremerhaven
Bren gun
Brenner Pass
Brentwood
Brescia
Breslau
Brest
Bretagne
Breton
Bretton Woods Conference
Breuer
Breughel
Brewster
Brewster chair
Brezhnev
Brian Boru
Briand
Briard
Briareus
Bride
Bridge
Bridge of Sighs
Bridgeport
Bridges
Bridget
Bridgetown
Bridgman
Brie
Brig.
Briggs
Bright
Bright's disease
Brighton
Brobdingnagian
Broca
Brocken
Brogli
Broken Hill
Bromberg
Bromley
Bronx
Bronx cheer
Bronze Age
Brook Farm
Brooke
Brooklyn
Brooklynese
Brooks Range
Brother Jonathan
Brown
Brown Shirt
Brown Swiss
Browne
Brownian movement
Browning
Browning automatic rifle
Broz
Brubeck
Bruce
Bruch
Bruckner
Brueghel
Bruges
Brumaire
Brummell
Brundisium
Brunei
Brunel
Brunelleschi
Brunhild
Bruno
Brunswick
Brusa
Brussels
Brussels carpet
Brussels griffon
Brussels lace
Brussels sprout
Brutus
Bruxelles
Bryansk
Bulge
Bull
Bull Run
Bullpup
Bulwer-Lytton
Buna
Bunche
Bund
Bundelkhand
Bundesrat
Bundestag
Bunin
Bunker Hill
Bunsen
Bunsen burner
Bunyan
Buonaparte
Buonarroti
Bur.
Burbage
Burberry
Burgas
Burgenland
Burgess
Burghley
Burgoyne
Burgundy
Burke
Burleigh
Burley
Burlington
Burma
Burma Road
Burmese
Burmese cat
Burne-Jones
Burnet
Burnett
Burney
Burnley
Burns
Burroughs
Bursa
Burschenschaft
Burton
Burundi
Burushaski
Bury St. Edmunds
Buryat
Bushido
Bushire
Bushman
Busoni
Busra
Bute
Butler
Buxtehude
Bydgoszcz
Byelorussian
Byelostok
Byng
Byrd
Byron
Bytom
Byz.
Byzantine
Byzantine Church
Byzantine Empire
Byzantium
C
C battery
C clef
C horizon
C.
C. of S.
C.A.
C.A.F.
C.B.
C.B.D.
C.B.E.
C.C.
C.D.
C.E.
C.F.
C.G.
C.I.
C.I.O.
C.M.G.
C.O.
C.O.D.
C.P.
C.R.
C.S.
C.T.
C.V.O.
C/A
C/N
CAA
CAB
CAP
CARE
CAT
CB
CENTO
CIA
CNS
CO
COBOL
CORE
CP
CQ
CR
CRT
CW
Ca
Caaba
Cabanatuan
Cabernet
Cabinda
Cabot
Cabral
Cactus
Caddoan
Cade
Cadmean victory
Cadmus
Caelian
Caelum
Caen
Caerleon
Caernarvonshire
Caerphilly
Caesar
Caesarea
Caesarean
Caesarean section
Caesarism
Cage
Cagliari
Cagliostro
Caiaphas
Caicos Islands
Cain
Cainozoic
Caird
Caird Coast
Cairns
Cairo
Caithness
Caius
Cajun
Cal.
Calabar
Calabar bean
Calabria
Calais
Calchas
Calcutta
Calder
Caldwell
Caledonia
Caledonian
Caledonian Canal
Calgary
Cali
Caliban
Calicut
Calif.
California
California poppy
Caligula
Callaghan
Callao
Callas
Callicrates
Callimachus
Calliope
Callisto
Calpe
Caltanissetta
Calvados
Calvary
Calvary cross
Calvert
Calvin
Calvinism
Calypso
Cam
Camb.
Cambodia
Cambrai
Cambria
Canaveral
Canberra
Cancer
Candia
Candiot
Candlemas
Canea
Canes Venatici
Canicula
Canis Major
Canis Minor
Cannae
Cannes
Canning
Canopic jar
Canopus
Canossa
Canova
Canso
Cant.
Cantabrigian
Cantal
Canterbury
Canterbury bell
Canticle of Canticles
Canton
Canton River
Canton crepe
Canton flannel
Cantonese
Canuck
Canute
Cap-Haitien
Capablanca
Cape Cod
Cape Colony
Cape Dutch
Cape Horn
Cape Town
Cape buffalo
Capella
Capernaum
Capet
Capetian
Capitol
Capitoline
Caporetto
Cappadocia
Capri
Capri pants
Capricorn
Capt.
Capua
Capuchin
Caracalla
Caracas
Caravaggio
Carboloy
Carbonari
Carboniferous
Carborundum
Carcassonne
Carchemish
Card.
Cardiff
Cardigan
Cardigan Bay
Cardiganshire
Carducci
Carew
Carey
Caria
Carib
Caribbean
Caribbean Sea
Cariboo Mountains
Carina
Carinthia
Carlisle
Carlist
Carlos
Carlota
Carlvingian
Carlow
Carlsbad
Carlton
Carlyle
Carmarthen
Carmarthenshire
Carmel
Carmelite
Carnap
Carnarvon
Carnatic
Carnegie
Carniola
Carnot
Carnot cycle
Caro's acid
Carol II
Carolina
Caroline
Caroline Islands
Carolingian
Carolinian
Carpathian Mountains
Carpatho-Ukraine
Carpentaria
Carpenter
Carrara
Carrel
Carroll
Carson
Carson City
Carstensz
Cartagena
Carte
Carter
Carteret
Cartesian
Cartesian coordinates
Carthage
Carthusian
Cartier
Cartier-Bresson
Cartwright
Caruso
Carver
Cary
Casablanca
Casals
Casanova
Casaubon
Cascade Range
Casement
Cashmere
Caslon
Caspar
Casparian strip
Caspian
Caspian Sea
Cassandra
Cassatt
Cassegrainian telescope
Cassel
Cassel yellow
Cassino
Cassiodorus
Cassiopea
Cassirer
Cassius Longinus
Castalia
Castelo Branco
Castiglione
Castile
Castilian
Castilla la Vieja
Castle walk
Castlereagh
Castor
Castor and Pollux
Castro
Castrop-Rauxel
Catalan
Catalina Island
Catalonia
Catania
Catanzaro
Catawba
Cath.
Cathar
Cathay
Catherine
Catherine I
Catherine II
Catherine of Aragon
Catherine of Siena
Catherine wheel
Catholic
Catholic Church
Catholic Epistles
Catholicism
Catholicity
Catiline
Cato
Catskill Mountains
Cattegat
Catullus
Cauca
Caucasia
Caucasian
Caucasoid
Caucasus
Cauchy
Caudine Forks
Cauvery
Cav.
Cavafy
Cavalier poets
Cavan
Cavell
Cavendish
Cavite
Cavour
Cawnpore
Caxton
Cayenne
Cayes
Cayman Islands
Cayuga
Cb
Cd
Cdr.
Ce
Cecil
Cecilia
Cecropia moth
Cecrops
Cedar Rapids
Celaeno
Celanese
Celebes
Celestial City
Celestial Empire
Cellini
Celluloid
Celsius
Celsius scale
Celt
Celt.
Celtic
Celtic cross
Cenis
Cenozoic
Centaurus
Central African Empire
Central African Federation
Central America
Central Intelligence Agency
Central Powers
Champlain
Champollion
Chancellor of the Exchequer
Chancellorsville
Chandigarh
Chandler
Chandragupta
Chanel
Changehun
Changsha
Changteh
Channel Islands
Chantilly
Chantilly lace
Chanukah
Chao Phraya
Chaoan
Chaplin
Chapman
Charcot
Chardin
Charente
Charente-Maritime
Chari
Chari-Nile
Charing Cross
Charlemagne
Charleroi
Charles
Charles I
Charles II
Charles IV
Charles IX
Charles Martel
Charles V
Charles VI
Charles VII
Charles X
Charles the Great
Charles' law
Charles's Wain
Charleston
Charlotte
Charlotte Amalie
Charlottenburg
Charlottetown
Charlton
Charon
Charpentier
Charterhouse
Chartism
Chartres
Charybdis
Chatham
Chatham Islands
Chattanooga
Chatterton
Chaucer
Chaucerian
Chaumont
Chavannes
Cheboksary
Cheddar
Chefoo
Cheiron
Cheju
Cheka
Chekhov
Chekiang
Chellean
Chelsea
Cheltenham
Chelyabinsk
Chelyuskin
Chemnitz
Chemulpo
Chenab
Chengteh
Chengtu
Cheops
Cher
Cherbourg
Cheremis
Cheremkhovo
Cherenkov
Cherokee
Cherokee rose
Cherubini
Chesapeake Bay
Chesapeake Bay retriever
Cheshire
Cheshvan
Chester
Chester White
Chesterfield
Chesterfieldian
Chinese cabbage
Chinese calendar
Chinese checkers
Chinese ink
Chinese lantern
Chinese puzzle
Chinese red
Chinese wax
Chinese white
Chinese windlass
Chinese wood oil
Chinghai
Chink
Chinkiang
Chino-
Chinook
Chinook Jargon
Chinook salmon
Chinookan
Chios
Chippewa
Chirico
Chiron
Chishima
Chita
Chittagong
Chkalov
Chlodwig
Chloe
Chloromycetin
Choctaw
Choiseul
Cholon
Cholula
Chopin
Chosen
Chou
Chou En-lai
Chr.
Christ
Christ Jesus
Christ's-thorn
Christadelphian
Christchurch
Christendom
Christhood
Christian
Christian Era
Christian Science
Christian Scientist
Christian X
Christian name
Christiania
Christianism
Christianity
Christianize
Christianly
Christiansand
Christie
Christina
Christlike
Christly
Christmas
Christmas Eve
Christmas Island
Christmas cactus
Christmas card
Christmas disease
Christmas pudding
Christmas rose
Christmas stocking
Christmas tree
Christmastide
Christo-
Christogram
Christology
Christophany
Christophe
Christopher
Christy
Chron.
Chronicles
Chrysostom
Chu Teh
Chubb
Chudskoye Ozero
Chukchi
Chukchi Sea
Chumash
Chungking
Chur
Church of Christ
Church of England
Church of Rome
Churchill
Chuvash
Ci
Cibber
Cicero
Ciceronian
Cid
Cienfuegos
Ciliata
Cilicia
Cilician Gates
Cimabue
Cimbra
Cimmerian
Cimon
Cincinnati
Cincinnatus
Cinderella
Cinemascope
Cinerama
Cinque Ports
Cipango
Circassia
Circassian
Circe
Circinus
Circus Maximus
Cirenaica
Cisalpine Gaul
Ciscaucasia
Cistercian
City of God
Ciudad Trujillo
Ciudad Victoria
Cl
Clackmannan
Clactonian
Clare
Clarenceux
Clarendon
Clark
Claudel
Claudius II
Clausewitz
Clausius
Clavius
Clay
Cleanthes
Cleisthenes
Clemenceau
Clemens
Clement I
Clement V
Clement VII
Clement of Alexandria
Cleobulus
Cleon
Cleopatra
Cleopatra's Needle
Clermont-Ferrand
Cleveland
Clichy
Clifford
Clio
Clisthenes
Clive
Clotho
Clouet
Clough
Clovis I
Cluj
Cluny
Cluny lace
Clyde
Clydebank
Clydesdale
Clytemnestra
Cm
Cmdr.
Cnidus
Cnossus
Cnut
Co
Co.
Coahuila
Coatbridge
Coates
Cobbett
Cobden
Cobham
Coblenz
Coburg
Cochabamba
Cochin
Cochise
Cockaigne
Cockayne
Cockcroft
Cocos Islands
Cocteau
Cocytus
Cod
Codex Juris Canonici
Cody
Coeur de Lion
Cognac
Cohen
Coimbatore
Coimbra
Cointreau
Coke
Col.
Colbert
Colchester
Colchis
Coldstream Guards
Coleridge
Colet
Colette
Coligny
Colima
College of Cardinals
Collins
Colmar
Colo.
Cologne
Cologne brown
Colombes
Colombia
Colombo
Colonel Blimp
Colorado
Colorado Desert
Colorado Springs
Colorado beetle
Colorado potato beetle
Colossae
Colosseum
Colossian
Colossians
Colt
Colum
Columba
Columbia
Columbian
Columbine
Columbus
Columbus Day
Com.
Com. Ver.
Coma Berenices
Comanche
Comanchean
Comdr.
Comdt.
Comenius
Comines
Cominform
Comintern
Commerce
Commines
Commodus
Common Era
Common Market
Commonwealth Day
Commonwealth of Nations
Communard
Communion
Communist China
Communist International
Communist Manifesto
Communist Party
Comnenus
Como
Comorin
Comoro Islands
Comptometer
Compton
Compton effect
Comr.
Comstock Lode
Comte
Comus
Con.
Conakry
Conchobar
Concord
Concord grape
Condillac
Condorcet
Conestoga wagon
Coney Island
Confiteor
Confucian
Confucianism
Confucius
Cong.
Congo
Congo Free State
Congo red
Congregationalism
Congregationalist
Congress
Congress of Vienna
Congressional Medal of Honor
Congressional Record
Congressional district
Congreve
Conn.
Connacht
Connaught
Connecticut
Conrad
Cons.
Conservatism
Conservative Jew
Conservative Judaism
Conservative Party
Constable
Constance
Constant
Constantia
Constantine
Constantine I
Constantine II
Constantinople
Continental Congress
Conway
Cooch Behar
Cook
Cook Inlet
Cook Islands
Cook Strait
Cook's tour
Coolidge
Cooper
Cooper's hawk
Coorg
Copenhagen
Copenhagen blue
Copernicus
Copland
Copley
Copt
Coptic
Coptic Church
Cor.
Cora
Coral Sea
Corby
Corcovado
Corcyra
Cordelier
Cordilleras
Cordova
Cordovan
Corelli
Corfam
Corfu
Corinth
Corinthian
Corinthians
Coriolanus
Cork
Corneille
Cornish
Cornish pasty
Cornwall
Cornwallis
Coromandel Coast
Corona Australis
Corona Borealis
Corot
Corpus Christi
Corpus Juris Canonici
Corpus Juris Civilis
Correggio
Corregidor
Corriedale
Corrientes
Corse
Corsica
Cortes
Corunna
Corvus
Corybant
Corydon
Cos
Cosa Nostra
Cosenza
Cosgrave
Cosmotron
Cossack
Costa Brava
Costa Rica
Costermansville
Cotonou
Cotopaxi
Cotswold
Cotswolds
Cottbus
Cottian Alps
Coulomb
Coulomb's law
Council of Trent
Couperin
Courbet
Courbevoie
Courland
Court of Appeal
Court of Common Pleas
Court of Exchequer
Court of Session
Courtrai
Cousin
Cousteau
Covent Garden
Coventry
Coverdale
Coverley
Coward
Cowes
Cowley
Cowper
Cox
Coxsackie virus
Cr
Crab Nebula
Crabbe
Cracow
Craig
Craigie
Craiova
Cranach
Crane
Cranmer
Cranwell
Crashaw
Cub
Cuba
Cuba libre
Cuban heel
Cuenca
Cufic
Culbertson
Culebra Cut
Culver's root
Cumae
Cumaean sibyl
Cuman
Cumberland
Cummings
Cunaxa
Cuneo
Cupid
Cupid's bow
Curia Regis
Curie
Curie point
Curie's law
Curie-Weiss law
Curitiba
Curry
Curtin
Curzon
Cusco
Cush
Cushing
Cushing's disease
Cushitic
Custer
Cutch
Cuthbert
Cuxhaven
Cuyp
Cuzco
Cwmbran
Cybele
Cyclades
Cyclopean
Cyclops
Cydnus
Cygnus
Cymric
Cymry
Cynewulf
Dalmatian
Dalton
Dalton's law
Dam
Daman
Damaraland
Damascene
Damascus
Damascus steel
Damien
Damietta
Damocles
Damon and Pythias
Dampier
Dan
Dan.
Danaides
Danaus
Dandie Dinmont
Dane
Danegeld
Danelaw
Daniel
Daniell cell
Danish
Danish West Indies
Danish blue
Danish pastry
Dano-Norwegian
Dante
Danton
Danu
Danube
Danzig
Daphne
Daphnis
Daphnis and Chloe
Dapsang
Dar es Salaam
Darby and Joan
Dardan
Dardanelles
Dardanus
Darfur
Darien
Darius I
Darius III
Darjeeling
Dark Ages
Darlan
Darling
Darling Range
Darling River
Darlington
Darmstadt
Darnley
Dartmoor
Dartmouth
Darvon
Darwin
Darwinian
Darwinism
Dasht-i-Kavir
Dasht-i-Lut
Daubigny
Daudet
Daugava
Daugavpils
Daumier
Dauphin
Davao
David
David I
Davies
Davis
Davis Strait
Davy
Davy Jones
Davy lamp
Dawes
Dawson
Dawson Creek
Day of Atonement
Day of Judgment
Dayak
Dayan
Dayton
Daytona Beach
De Forest
De La Warr
De Mille
De Quincey
De Soto
De Stijl
De Vries
Dead Sea
Dead Sea Scrolls
Deakin
Dearborn
Death
Death Valley
Deauville
Deborah
Debevec
Debs
Debussy
Dec.
Decalogue
Decapolis
Deccan
December
Decembrist
Decker
Declaration of Independence
Dee
Deep South
Defoe
Degas
Dehra Dun
Deianira
Deimos
Deirdre
Dekker
Del.
Delacroix
Delagoa Bay
Delaunay
Delaware
Deledda
Delft
Delgado
Delhi
Delian
Delibes
Delilah
Delius
Delmarva Peninsula
Delorme
Delos
Delphi
Delphic
Delphic oracle
Delphinus
Delta
Dem.
Demavend
Demerol
Demeter
Democrat
Democratic Party
Democratic-Republican Party
Democritus
Demogorgon
Demosthenes
Dempsey
Den.
Denbighshire
Deneb
Denmark
Denmark Strait
Denton
Denver
Denys
Deo gratias
Deo volente
Department of Agriculture
Department of Commerce
Department of Defense
Department of Justice
Department of Labor
Derain
Derbent
Derby
Derbyshire
Derry
Derwent
Des Moines
Descartes
Desmoulins
Dessalines
Dessau
Detroit
Deucalion
Deus
Deut.
Deuteronomy
Deutschland
Devanagari
Deventer
Devereux
Devi
Devil's Island
Dionysia
Dionysiac
Dionysian
Dionysius
Dionysius Exiguus
Dionysius of Halicarnassus
Dionysus
Diophantus
Dior
Dioscuri
Dirac
Directoire
Dirichlet
Dis
Disciples of Christ
Dismal Swamp
Disney
Disraeli
Distinguished Conduct Medal
Distinguished Flying Cross
Distinguished Service Cross
Distinguished Service Medal
Distinguished Service Order
District of Columbia
Distrito Federal
Diu
Dives
Divine Mind
Dixie
Dixieland
Djakarta
Djambi
Djerba
Djokjakarta
Dneprodzerzhinsk
Dnepropetrovsk
Dnieper
Dniester
Dobell's solution
Doberman pinscher
Dobruja
Doctor of Philosophy
Dodecanese
Dodge City
Dodgem
Dodgson
Dodona
Doe
Doenitz
Dog Star
Dogberry
Dogger Bank
Doha
Dollfuss
Dolly Varden
Dolomites
Dom
Dom.
Domesday Book
Domett
Dominic
Dominica
Dominican
Dominican Republic
Dominion Day
Dominus
Domitian
Don
Don Juan
Don Quixote
Donar
Donatello
Donatist
Donatus
Donau
Doncaster
Donegal
Donets
Donetsk
Dongola
Donna
Donne
Doolittle
Doomsday Book
Doorn
Doppler effect
Doppler radar
Dorado
Dorcas
Dorcas society
Dorchester
Dordogne
Dordrecht
Dorian
Dorian mode
Doric
Duncan I
Duncan Phyfe
Dundalk
Dundee
Dunedin
Dunfermline
Dungeness crab
Dunker
Dunkirk
Dunlop
Dunois
Duns Scotus
Dunsany
Dunsinane
Dunstable
Dunstan
Dupleix
Duplessis-Mornay
Dur.
Duralumin
Durango
Durazzo
Durban
Durga
Durham
Durkheim
Duroc
Durrell
Dutch
Dutch Belted
Dutch East Indies
Dutch Guiana
Dutch New Guinea
Dutch West Indies
Dutch auction
Dutch cap
Dutch cheese
Dutch courage
Dutch door
Dutch elm disease
Dutch gold
Dutch metal
Dutch oven
Dutch rush
Dutch treat
Dutch uncle
Dutchman
Dutchman's-breeches
Dutchman's-pipe
Duvalier
Dvina
Dvina Bay
Dvinsk
Dy
Dyak
Dyaus
Dylan
Dyrel
Dzerzhinsk
Dzungaria
E
E layer
E region
E-boat
E.
E.E.
E.E. & M.P.
E.I.
E.R.
E.T.A.
E.T.D.
E.V.
EAM
ECG
EDP
EEC
EEG
EFTA
EHF
EKG
EP
EPA
ERS
ESE
ESP
EVA
Ea
Eakins
Ealing
Earhart
Earl Marshal
Early Bird
Early Christian
Early English
Early Renaissance
East
East Anglia
East Bengal
East Berlin
East Cape
East China Sea
East End
East Flanders
East Germanic
East Germany
East India Company
East Indies
East Kilbride
East London
East Lothian
East Pakistan
East Prussia
East Riding
East Sussex
Eastbourne
Easter
Easter Island
Easter Monday
Easter Sunday
Easter egg
Easter lily
Easter sepulcher
Eastern Church
Eastern Ghats
Eastern Hemisphere
Eastern Orthodox Church
Eastern Roman Empire
Eastern rite
Eastern time
Easterner
Eastertide
Eastman
Ebert
Eblis
Eboracum
Ebro
Ecbatana
Eccles
Ecclesiastes
Ecclesiasticus
Ecclus.
Echo
Eck
Eckhart
Ecua.
Ecuador
Edam
Edda
Eddington
Eddy
Eddystone Rocks
Ede
Eden
Edessa
Edgar
Edgeworth
Edinburgh
Edirne
Edison
Edison effect
Edmonton
Edmund I
Edmund II
Edo
Edom
Edomite
Edward
Edward I
Edward II
Edward III
Edward IV
Edward V
Edward VI
Edward VII
Edward VIII
Edward the Confessor
Edwardian
Edwards
Edwin
Efik
Eg.
Egbert
Eger
Egeria
Egmont
Egypt
Egyptian
Egyptology
Ehrenburg
Ehrlich
Eichmann
Eiffel
Eiffel Tower
Eijkman
Eindhoven
Einstein
Einstein shift
Einstein theory
Eire
Eisenach
Eisenhower
Eisenhower jacket
Einstein
Eisk
Ekaterinburg
Ekaterinodar
Ekaterinoslav
El Alamein
El Capitan
El Cid Campeador
El Dorado
El Ferrol
El Greco
El Mansura
El Misti
El Obeid
El Paso
El Salvador
Elagabalus
Elaine
Elam
Elamite
Elamitic
Elba
Elbe
Elbert
Elbrus
Elburz Mountains
Eldorado
Elea
Eleanor of Aquitaine
Eleatic
Electra
Electra complex
Eleusinian mysteries
Eleusis
Elgar
Elgin marbles
Elgorn
Eli
Elia
Elias
Elijah
Eliot
Elis
Elisabeth
Elisabethville
Elisavetgrad
Elisavetpol
Elisha
Eliz.
Elizabeth
Elizabeth I
Elizabeth II
Elizabethan
Ellesmere Island
Ellice Islands
Ellington
Ellis
Elohim
Elohist
Elsinore
Elul
Ely
Elyot
Elysian
Elysium
Elzevir
Emancipation Proclamation
Emden
Emerald Isle
Emerson
Emilia-Romagna
Eminence
Emmanuel
Emmen
Emmy
Emp.
Empedocles
Empire Day
Empire State
Empirin
Empson
Enceladus
Enderby Land
Endymion
Enesco
Enfield
Enfield rifle
Eng.
Engadine
Engels
England
English
English Channel
English bond
English horn
English ivy
English muffin
English red
English saddle
English setter
English sonnet
English sparrow
English springer spaniel
English toy spaniel
English walnut
Englishism
Englishman
Englishman's tie
Englishry
Enid
Eniwetok
Enki
Enil
Ennis
Ennus
Enoch
Enos
Ens.
Enschede
Ensor
Entebbe
Enugu
Enver Pasha
Enyo
Eocene
Eogene
Eolian
Eolic
Eolithic
Eos
Eozoic
Ep.
Epaminondas
Eph.
Ephesian
Ephesians
Ephesus
Ephialtes
Ephraim
Ephraimite
Epictetus
Epicurean
Epicureanism
Epicurus
Epidaurus
Epigoni
Epimenides
Epiph.
Epiphany
Epirus
Epis.
Episcopalian
Epistle
Epping Forest
Epsom
Epstein
Equatorial Guinea
Equuleus
Er
Erasmus
Erastian
Erastianism
Erato
Eratosthenes
Erbil
Erebus
Erechtheum
Erechtheus
Ereshkigal
Erfurt
Erhard
Eric the Red
Ericson
Eridanus
Erie
Erie Canal
Erigena
Erin
Eris
Eritrea
Erivan
Erlanger
Ethiopian
Ethiopic
Etna
Eton
Eton collar
Eton jacket
Etruria
Etruscan
Etzel
Eu
Euboea
Eucharist
Eucken
Euclid
Euclidean geometry
Euhemerus
Euler
Eumenides
Euphrates
Euphrosyne
Eur.
Eurasia
Eurasian
Euratom
Eure
Eure-et-Loir
Euripides
Euroclydon
Euromarket
Europa
Europe
European
European Economic Community
European Free Trade Association
European plan
Europeanize
Eurus
Euryale
Eurydice
Eurystheus
Eusebius
Eusebius of Caesarea
Eustachian tube
Euterpe
Euxine Sea
Evans
Evanston
Evansville
Eve
Evelyn
Everest
Everglades
Everyman
Evesham
Evora
Evoioa
Ewe
Ex.
Exc.
Excalibur
Exeter
Exmoor
Exod.
Explorer
Extremadura
Eyre
Eyre Peninsula
Ez.
Ezek.
Ezekiel
Ezra
F
F clef
F layer
F region
F.A.M.
F.A.S.
F.B.A.
F.D.
F.I.
F.O.
F.P.
F.Z.S.
FA
FAA
FAO
FBI
FCA
FCC
FDA
FDIC
FM
FORTRAN
FPC
FSH
FTC
Fabian
Fabian Society
Fabianism
Fabius Maximus
Fabre
Fabrikoid
Faenza
Faeroese
Fafnir
Fahrenheit
Fahrenheit scale
Fairbanks
Fairfax
Fairweather
Faisal I
Faisal II
Faiyum
Faizabad
Falange
Faliscan
Falkirk
Falkland Islands
Falkner
Falla
Fallopian tube
Falmouth
Falstaffian
Falster
Famagusta
Familist
Fanfani
Fanti
Fantin-Latour
Far East
Faraday
Farmer
Farnese
Farouk I
Farquhar
Faruk I
Fascista
Fashoda
Fata Morgana
Fates
Father
Father Christmas
Father Time
Father's Day
Ferris wheel
Ferrol
Fertile Crescent
Fervidor
Fescennine
Festschrift
Feuchtwanger
Feuillant
Fez
Fezzan
Fianna
Fianna Fail
Fichte
Fichtean
Fidei Defensor
Fides
Field
Fielding
Fields
Fiesole
Fife
Fifth Republic
Fiji
Fijian
Filipino
Fillmore
Fin.
Fingal's Cave
Finisterre
Finland
Finn
Finney
Finnic
Finnish
Finno-Ugrian
Finno-Ugric
Finsen
Finsteraarhorn
Firdausi
Firenze
First Empire
First International
First Republic
First World War
Fischer
Fisher
Fitzgerald
Fitzsimmons
Fokine
Fokker
Folkestone
Folketing
Folsom man
Fomalhaut
Fonda
Fontainebleau
Fonteyn
Foochow
Foot Guards
Forbes
Forbidden City
Ford
Forester
Forfar
Formica
Formosa
Formosa Strait
Fornax
Forrest
Forseti
Forster
Fort Knox
Fort Lauderdale
Fort Sumter
Fort Wayne
Fort William
Fort Worth
Fort-de-France
Fortaleza
Forth
Fortuna
Fortune
Foster
Fostoria
Fotheringham
Foucault
Foucquet
Fouquet
Fouquier-Tinville
Four Hundred
Fourdrinier
Fourier
Fourier analysis
Fourier series
Fourierism
Fourth International
Fourth Republic
Fowler
Fowliang
Fox
Föße
Fr
Fr.
Fra
Fragonard
Fraktur
France
Francesca
Francis
Francis I
Francis Xavier
Francis of Assisi
Francis of Sales
Franciscan
Franck
Franco
Franco-
Franco-Prussian War
Franconia
Franconian
Francophile
Francophile
Français
Frank
Frankenstein
Frankfort
Frankfurter
Frankish
Franklin
Franklin stove
Franz Ferdinand
Franz Josef Land
Frascati
Fraser
Frau
Frauenfeld
Fraunhofer
Fraunhofer lines
Frazer
Frederick Barbarossa
Frederick I
Frederick II
Frederick III
Frederick William
Frederick William I
Frederick William III
Frederick William IV
Fredericksburg
Fredericton
Frederiksborg
Free Soil Party
Free State
Freemason
Freetown
Frei
Freiburg
Fremantle
French
French Academy
French Cameroons
French Canadian
French Community
French Equatorial Africa
French Guiana
French Guinea
French India
French Indochina
French Morocco
French Oceania
French Polynesia
French Revolution
French Revolutionary calendar
French Somaliland
French Sudan
French Union
French West Africa
French West Indies
French and Indian War
French bean
French bread
French bulldog
French chalk
French cuff
French curve
French door
French dressing
French fried potatoes
French heel
French horn
French ice cream
French kiss
French knot
French leave
French lug
French pastry
French pitch
French polish
French pox
French roof
French seam
French telephone
French toast
French-polish
Frenchify
Frenchman
Frenchy
Freon
Frescobaldi
Fresnel lens
Fresno
Freud
Freudian
Frey
Freya
Freytag
Fri.
Friar Minor
Friar Preacher
Friar Tuck
Fribourg
Friday
Friedrich
Friend
Friendly Islands
Friendship sloop
Friesian
Friesland
Frigg
Frigid Zone
Frigidaire
Frimaire
Fris.
Frisbee
Frisch
Frisches Haff
Frisco
Frisian
Frisian Islands
Friuli-Venezia Giulia
Friulian
Galicia
Galilean
Galilean telescope
Galilee
Galileo
Galla
Galle
Gallia
Gallic
Gallican
Gallicanism
Gallice
Gallicism
Gallicize
Gallo-
Gallo-Romance
Galloway
Gallup
Galois theory
Galsworthy
Galton
Galvani
Galveston plan
Galway
Galwegian
Gama
Gambetta
Gambia
Gambier Islands
Gambrinus
Gand
Ganda
Gandhi
Gandhi cap
Gandhiism
Gandzha
Ganesa
Ganesha
Ganges
Gantrisin
Ganymede
Gao
Garamond
Garand rifle
Garbo
Gard
Garda
Garden of Eden
Gardiner
Garfield
Gargantua
Garibaldi
Garnier
Garnett
Garonne
Garrick
Garter
Gary
Gascon
Gascony
Gaskell
Gaspar
Gasser
Gates
Gateshead
Gath
Gatha
Gatling gun
Gauguin
Gauhati
Gaul
Gauleiter
Gaulish
Gaullism
Gaullist
Gauss
Gaussian distribution
Gaussian integer
Gautama
Gautier
Gawain
Gay
Gay-Lussac
Gaya
Gayomart
Gaza
Gaza Strip
Gaziantep
Gd
Gdynia
Ge
GeV
Geber
Geelong
Geez
Gehenna
Geiger
Geiger counter
Geisel
Geissler tube
Geist
Gelderland
Gelsenkirchen
Gemara
Gemini
Gen
Gen.
General Assembly
Genesis
Geneva
Geneva Convention
Geneva bands
Geneva gown
Genevan
Genghis Khan
Genl.
Genoa
Genoese
Genova
Genseric
Gent
Gentile
Gentoo
Geoffrey of Monmouth
Geordie
George
George I
George II
George III
George IV
George Town
George V
George VI
Georgetown
Georgette
Georgia
Georgian
Georgian Bay
Ger.
Gera
Gerlachovka
German
German Baptist Brethren
German Democratic Republic
German East Africa
German Ocean
German cockroach
German knot
German measles
German shepherd
German silver
Germanic
Germanicus Caesar
Germanism
Germanize
Germanophile
Germanophobe
Germany
Germinal
Germiston
Geronimo
Gers
Gershwin
Geryon
Gesta Romanorum
Gestalt psychology
Gestapo
Gesualdo
Gethsemane
Getty
Gettysburg
Gettysburg Address
Geulincx
Gezira
Ghana
Ghats
Gheber
Ghent
Ghibelline
Ghiberti
Ghirlandaio
Gi
Giacometti
Gibbon
Gibbons
Gibeon
Gibeonite
Gibraltar
Gibran
Gibson
Gibson Desert
Gibson girl
Gide
Gideon
Gielgud
Gifu
Gigantes
Gigantopithecus
Gigli
Gila monster
Gilbert
Gilbert Islands
Gilbertian
Gilbertine
Gilead
Gileadite
Gilgamesh
Gillespie
Gilolo
Gilson
Giorgione
Giotto
Gipsy
Giraud
Giraudoux
Girgenti
Gironde
Girondist
Gisborne
Gish
Gissing
Giulio Romano
Gladstone
Gladstone bag
Glagolitic
Glarus
Glaser
Glasgow
Glaswegian
Glauber's salt
Glauce
Glazunov
Gleiwitz
Glencoe
Glendower
Glinka
Gliwice
Glomma
Gloria
Gloria Patri
Gouda
Goudy
Gould
Gounod
Gourmont
Gov.
Govt.
Gower
Goya
Gr.
Graafian follicle
Gracchus
Grace
Graeeae
Graeceize
Graeco-
Graeco-Roman
Graf
Graham
Graham Land
Grahame
Graiae
Grail
Grainger
Gram's method
Gram-negative
Gram-positive
Gramophone
Gran Canaria
Gran Chaco
Granada
Granados
Grand Bahama
Grand Banks
Grand Canal
Grand Canyon
Grand Coulee
Grand Falls
Grand Guignol
Grand Lama
Grand Manan
Grand Master
Grand Mufti
Grand National
Grand Old Party
Grand Prix
Grand Rapids
Grandma Moses
Grange
Granicus
Granjon
Grant
Granta
Granth
Granville-Barker
Graphophone
Grasmere
Gratian
Grattan
Graves
Graves' disease
Gravesend
Gravettian
Gray
Gray Friar
Gray's Inn
Graz
Great Australian Bight
Great Barrier Reef
Great Basin
Great Bear
Great Bear Lake
Great Britain
Great Dane
Great Divide
Great Dividing Range
Great Dog
Great Lakes
Great Leap Forward
Great Mogul
Great Ouse
Great Plains
Great Power
Great Pyrenees
Great Rebellion
Great Russian
Great Salt Lake
Great Sandy Desert
Great Schism
Great Slave Lake
Great Smoky Mountains
Great Victoria Desert
Great Vowel Shift
Great War
Great Week
Great Yarmouth
Greater
Greater Antilles
Greater Sunda Islands
Grecian
Grecism
Grecize
Greco
Greco-
Greco-Roman
Greece
Greek
Greek Catholic
Greek Church
Greek Orthodox Church
Greek Revival
Greek cross
Greek fire
Greeley
Green
Green Mountain Boys
Green Mountains
Green River
Greenaway
Greenback Party
Greene
Greenland
Greenland Sea
Greenland whale
Greenock
Greensboro
Greenwich
Greenwich Village
Gregorian
Gregorian calendar
Gregorian chant
Gregorian mode
Gregorian telescope
Gregory
Gregory I
Gregory VII
Gregory XIII
Gregory of Nyssa
Gregory of Tours
Grenada
Grenadines
Grendel
Grendel
Grenville
Gresham
Gresham's law
Gretna Green
Greuze
Grey
Grieg
Griffith
Grignard reagent
Griparzer
Grim Reaper
Grimaldi
Grimaldi man
Grimm
Grimm's law
Grimsby
Griqua
Gris
Grisons
Grodno
Groenendaal
Grolier
Gromyko
Groningen
Gropius
Gros
Grosswardein
Grosz
Grote
Grotius
Groves
Grozny
Grub Street
Grundy
Grundyism
Grus
Guadalajara
Guadalcanal
Guadalquivir
Guadalupe Hidalgo
Guadeloupe
Guadiana
Guam
Guanabara
Guanajuato
Guarani
Guardafui
Guardi
Guarneri
Haida
Haidar Ali
Haiduk
Haifa
Haig
Hail Mary
Haile Selassie
Hainan
Hainaut
Haiphong
Haiti
Haitian
Haitian Creole
Hakenkreuz
Hakluyt
Hakodate
Halafian
Halakah
Haldane
Hale
Haleakala
Halicarnassus
Halifax
Hall
Hall effect
Hall of Fame
Halle
Hallel
Halley
Halley's Comet
Halloween
Hallowmas
Halmahera
Halmstad
Hals
Hama
Hamamatsu
Hambletonian
Hamburg
Hamelin
Hamhung
Hamilcar Barca
Hamilton
Hamiltonian
Hamite
Hamitic
Hamito-Semitic
Hamlet
Hammerfest
Hammond
Hammond organ
Hammurabi
Hampden
Hampshire
Hampstead
Hampton
Hampton Roads
Hamsun
Han
Han Cities
Hancock
Handel
Handy
Hangchow
Hankow
Hannah
Hannibal
Hannover
Hanoi
Hanover
Hanoverian
Hansard
Hanse
Hanseatic
Hanseatic League
Hansen's disease
Hanukkah
Hanuman
Hanyang
Haphtarah
Hapsburg
Harappa
Harar
Harbin
Hardecanute
Hardenberg
Harding
Hardy
Hargeisa
Hargreaves
Harijan
Harlem
Harley
Harley Street
Harlow
Harmsworth
Harney Peak
Harold I
Harold II
Harpy
Harrar
Harriman
Harris
Harris Tweed
Harrisburg
Harrison
Harrowian
Harrow
Hart
Harte
Hartford
Hartley
Hartmann
Harun al-Rashid
Harvey
Hasa
Hasdrubal
Hasid
Hasidism
Hassan II
Hastings
Hatfield
Hathaway
Hathor
Hatshepsut
Hatteras
Hauptmann
Hausa
Haut-Rhin
Haute-Garonne
Haute-Loire
Haute-Marne
Haute-Savoie
Haute-Vienne
Hautes-Alpes
Havana
Haversian canal
Havre
Hawaii
Hawaiian
Hawaiian guitar
Hawkins
Haworth
Hawthorne
Haydn
Hazlitt
Hb
He
Hearst
Heath
Heavenly City
Heaviside
Heaviside layer
Heb.
Hebbel
Hebe
Hebraic
Hebraism
Hebraist
Hebraize
Hebrew
Hebrew calendar
Hebrews
Hebrides
Hebron
Hecate
Hector
Hecuba
Hedjaz
Heerlen
Hefner candle
Hegel
Hegelian
Hegelian dialectic
Hegelianism
Hegira
Heidegger
Heidelberg
Heidelberg man
Heiduc
Heifetz
Heilbronn
Heilungkiang
Heimdall
Heine
Heinie
Heisenberg
Heisenberg uncertainty principle
Hejaz
Hejira
Hekate
Hel
Heldentenor
Helen
Helena
Helgoland
Helicon
Heligoland
Heliochrome
Heliogabalus
Heliopolis
Helios
Helladic
Hellas
Helle
Hellen
Hellene
Hellenic
Hellenism
Hellenist
Hellenistic
Hellenize
Helles
Hellespont
Helmand
Helmholtz
Helot
Helsinki
Helvellyn
Helvetia
Helvetian
Helvetica
Helvetii
Hemel Hempstead
Hemingway
Hengelo
Hengist
Henley-on-Thames
Henry
Henry I
Henry II
Henry III
Henry IV
Henry V
Henry VI
Henry VII
Henry VIII
Henry's law
Henslowe
Henze
Hertha
Hertz
Hertzian wave
Hertzog
Hertzsprung-Russell diagram
Herzegovina
Herzl
Heshvan
Hesiod
Hesione
Hesper
Hesperian
Hesperides
Hesperus
Hess
Hesse
Hesse-Nassau
Hessian
Hessian boots
Hessian fly
Hestia
Hesychast
Heterousian
Hevesy
Hexateuch
Heyduck
Heyerdahl
Heywood
Hezekiah
Hf
Hg
Hialeah
Hiawatha
Hibernia
Hibernicism
Hickok
Hidalgo
Hieronymus
High Church
High Court of Justice
High German
High Holy Day
High Mass
High Renaissance
High Tatra
Highland
Highland fling
Highlander
Hitchcock chair
Hitlerism
Hittite
Ho
Ho Chi Minh
Hoad
Hobart
Hobbema
Hobbes
Hobbism
Hobbs
Hoboken
Hobson's choice
Hochheimer
Hodeida
Hodgkin
Hodgkin's disease
Hoek van Holland
Hoenir
Hofmannsthal
Hofuf
Hogarth
Hogg
Hogue
Hohenlinden
Hohenlohe
Hohenstaufen
Hohenzollern
Hokkaido
Hokusai
Holartic
Holbein
Holiness
Holinhed
Holland
Hollander
Hollandia
Hollands
Holly
Hollywood
Holmes
Holocaine
Holocene
Holofernes
Holst
Holstein
Holt
Holy Alliance
Holy Bible
Holy City
Holy Communion
Holy Family
Holy Father
Holy Ghost
Holy Grail
Holy Innocents' Day
Holy Joe
Holy Land
Holy Office
Holy Roller
Holy Roman Empire
Holy Saturday
Holy Scripture
Holy See
Holy Spirit
Holy Thursday
Holy Trinity
Holy Week
Holy Writ
Holy Year
Holyhead
Home
Home Office
Home Secretary
Homer
Homeric
Homeric laughter
Homestead Act
Homo
Homo sapiens
Homoeousian
Homooousian
Homs
Honan
Hond.
Hondo
Honduras
Honegger
Honest John
Hong Kong
Honolulu
Honor
Honshu
Hooch
Hood
Hoogh
Hooghly
Hook of Holland
Hooke
Hooke’s law
Hooker
Hoover
Hoover Dam
Hope
Hopeh
Hopi
Hopkins
Hopper
Horace
Horae
Horatian ode
Horeb
Hormuz
Horn
Horney
Horologium
Horowitz
Horsa
Horse Guards
Horta
Hortense
Horthy
Horus
Hos.
Hosea
Hospitaler
Hospitalet
Host
Hotien
Hottentot
Houdan
Houdini
Houdon
Houphouet-Boigny
House
House of Commons
House of Keys
House of Lords
House of Representatives
Housman
Houston
Howard
Howe
Howland Island
Husain
Husein ibn-Ali
Huss
Husserl
Hussite
Huston
Huxley
Huygens
Huysmans
Hwang Hai
Hwang Ho
Hycinthus
Hyades
Hyde
Hyde Park
Hyder Ali
Hyderabad
Hydra
Hydrus
Hygeia
Hyksos
Hymen
Hymettus
Hyperborean
Hyperion
Hypnos
Hyrcania
Hz
I
I Ching
I'm
I've
I-beam
I.C.
I.C.S.
I.D.
I.F.S.
I.M.
I.N.D.
I.O.O.F.
I.R.A.
I.T.U.
I.V.
I.W.W.
IAEA
IAS
IATA
IC
Iconium
Ictinus
Ida
Idaho
Ido
Idomeneus
Idun
Ieper
Ieyasu
Ifni
Igbo
Ignatius
Igorot
Igraine
Ikhnaton
Ilia
Iliad
Ilion
Illium
Ill.
Illampu
Ille-et-Vilaine
Illimani
Illinois
Illyria
Illyrian
Illyricum
Ilocano
Iloilo
Immaculate Conception
Immanuel
Immelmann turn
Imp.
Imperial
Imphal
In
Inanna
Inauguration Day
Inc.
Inca
Incheon
Ind
Ind.
Independence
Independence Day
Independent
Index Librorum Prohibitorum
India
India ink
India paper
India print
India rubber
Indiaman
Indian
Indian Desert
Indian Empire
Indian Mutiny
Indian Ocean
Indian Territory
Indian agent
Indian bread
Indian club
Indian corn
Indian file
Indian giver
Indian hemp
Indian ink
Indian mallow
Indian meal
Indian millet
Indian mulberry
Indian paintbrush
Indian pipe
Indian red
Indian rice
Indian summer
Indian tobacco
Indian wrestling
Indian yellow
Indiana
Indiana ballot
Indianapolis
Indic
Indies
Indo-
Indo-Aryan
Indo-European
Indo-Germanic
Indo-Hittite
Indo-Iranian
Indo-Pacific
Indochina
Indonesia
Indonesian
Indore
Indra
Indre
Indre-et-Loire
Indus
Inf.
Inge
Ingres
Inhambane
Injun
Inkerman
Inland Sea
Inn
Inner Light
Inner Mongolia
Inner Temple
Innocent II
Innocent III
Innocent IV
Inns of Court
Innsbruck
Intelsat
Interlaken
Interlingua
Internal Revenue Service
International Bank for Reconstruction and Development
International Court of Justice
International Criminal Police Organization
International Development Association
International Finance Corporation
International Geophysical Year
International Gothic
International Labor Organization
International Monetary Fund
International Phonetic Alphabet
Internationale
Interpol
Interstate Commerce Commission
Intertype
Intracoastal Waterway
Invar
Invercargill
Inverness
Io
Io moth
Ioannina
Iona
Ionesco
Ionia
Ionian
Ionian Islands
Ionian Sea
Ionian mode
Ionic
Iowa
Iphigenia
Ipoh
Ipsambul
Ipsus
Ipswich
Iqbal
Iquique
Iquitos
Ir
Ir.
Iran
Iran.
Iranian
Iraq
Iraqi
Ire.
Ireland
Irene
Iris
Irish
Irish Free State
Irish Gaelic
Irish Republican Army
Irish Sea
Irish bull
Irish coffee
Irish moss
Irish potato
Irish setter
Irish stew
Irish terrier
Irish water spaniel
Irish whiskey
Irish wolfhound
Irishism
Irishman
Irkutsk
Iron Age
Iron Cross
Iron Gate
Iron Guard
Iroquoian
Iroquois
Irrawaddy
Irtysh
Irvine
Irving
Is.
Isaac
Isabella
Isabella I
Isaiah
Isar
Iscariot
Ischia
Iseult
Isfahan
Ishmael
Ishmaelite
Ishtar
Isidore of Seville
Isis
Iskander Bey
Iskenderun
Islam
Islamism
Islamite
Islamize
Islands of the Blessed
Isle Royale
Isle of Man
Isle of Pines
Isle of Wight
Islington
Ismail Pasha
Isocrates
Isolde
Israel
Israeli
Israelite
Israelitish
Issachar
Issus
Issyk-Kul
Istanbul
Isth.
Isthmian Games
Istria
Ital.
Italia
Italia irredenta
Italian
Italian East Africa
Italian Somaliland
Italian greyhound
Italian hand
Italian rye grass
Italian sonnet
Italianate
Italianism
Italianize
Italic
Italy
Ithaca
Ithunn
Ito
Iulus
Ivan III
Ivan IV
Ivanovo
Ives
Ivory Coast
Iwo
Iwo Jima
Ixion
Iyar
Iyeyasu
Izanagi
Izanami
Izhevsk
Izmir
Iztaccihuatl
J
J.
J.A.
J.A.G.
J.C.
J.C.D.
J.C.L.
J.C.S.
J.D.
J.P.
J.S.D.
J.W.V.
JA
JD
JHVH
JJ.
JP
Ja.
Jabalpur
Jack Frost
Jack Ketch
Jackson
Jacksonville
Jacob
Jacob's ladder
Jacob's staff
Jacobean
Jacobi
Jacobian
Jacobin
Jacobinism
Jacobite
Jacobsen
Jaccard
Jacquerie
Jadotville
Jael
Jaffa
Jaffna
Jagannath
Jagatai
Jahveh
Jahvist
Jain
Jainism
Jaipur
Jalapa
Jalisco
Jam.
Jamaica
Jamaica rum
Jamaica shorts
James
James Bay
James I
James II
James VI
Jamesian
Jameson
Jamestown
Jammu and Kashmir
Jamshedpur
Jamshid
Jeanne d'Arc
Jeans
Jebel Musa
Jedda
Jefferson
Jefferson City
Jeffrey
Jeffreys
Jehol
Jehoshaphat
Jehovah
Jehovah's Witness
Jehovist
Jehu
Jekyll and Hyde
Jell-O
Jellicoe
Jemappes
Jena
Jenghis Khan
Jenkins
Jenner
Jephthah
Jer.
Jerba
Jeremiah
Jerez
Jericho
Jeroboam
Jerome
Jerry
Jersey
Jersey City
Jerusalem
Jerusalem artichoke
Jerusalem cherry
Jerusalem cross
Jerusalem oak
Jespersen
Jesse
Jesselton
Jesu
Jesuit
Jesuitism
Jesus
Jesus Christ
Jethro
Jevons
Jew
Jew-baiting
Jewess
Jewish
Jewish Autonomous Region
Jewish calendar
Jewry
Jezebel
Jezreel
Jhansi
Jhelum
Jidda
Jilolo
Jim Crow
Jinja
Jinnah
Joab
Joachim
Joan
Joan of Arc
Job
Job Corps
Job's comforter
Job's tears
Jocasta
Jock
Jodhpur
Jodo
Jodrell Bank
Joe
Joe Blow
Joe Doakes
Joe Miller
Joel
Joffre
Johannesburg
Johannisberger
John
John Barleycorn
John Birch Society
John Bull
John Chrysostom
John Doe
John Dory
John Hancock
John I
John III
John XXII
Jr.
Juan Carlos I
Juan de Fuca
Juba
Jubal
Jubbulpore
Jubilate
Jud.
Judaea
Judah
Judah ha-Nasi
Judaic
Judaica
Judaism
Judaist
Judaize
Judas
Judas Maccabaeus
Judas tree
Jude
Judea
Judges
Judgment Day
Judicial Committee of the Privy Council
Judith
Judy
Jugendstil
Juggernaut
Jugoslavia
Jugurtha
Jul.
Julian
Julian Alps
Julian calendar
Juliana
Juliet cap
Julius Caesar
Julius II
Jullundur
July
Jumada
Jumna
Jun.
June
June bug
Juneau
Juneberry
Jung
Jungfrau
Jungian
Junius
Junker
Juno
Junoesque
Jupiter
Jur. D.
Jura
Jurassic
Justice
Justin Martyr
Justinian Code
Justinian I
Justitia
Jute
Jutland
Juvenal
Jylland
K
K ration
K-meson
K.
K.B.E.
K.C.B.
K.C.M.G.
K.C.V.O.
K.G.
K.K.K.
K.O.
K.P.
K.T.
K.V.
K2
KB
KBP
KKt
KKtP
KNP
KP
KR
KRP
Ka
Kaaba
Kabul
Kabyle
Kaddish
Kadiyevka
Kaduna
Kaffir
Kaffraria
Kafir
Kafiristan
Kafka
Kagera
Kagoshima
Kahn
Kaifeng
Kairouan
Kaiser
Kaiserslautern
Kalahari
Kalamazoo
Kalat
Kalevala
Kalgan
Kalgoorlie
Kali
Kalidasa
Kalimantan
Kalinin
Kaliningrad
Kalisz
Kalmar
Kalmuck
Kaluga
Kama
Kamakura
Kamasutra
Kamchatka
Kamensk-Uralski
Kamerad
Kamerun
Kampala
Kanaka
Kanara
Kanarese
Kanazawa
Kanchenjunga
Kandahar
Kandinsky
Kandy
Kannada
Kano
Kanpur
Kans.
Kansas
Kansas City
Kansu
Kant
Kantian
Kantianism
Kaohsiung
Kaolack
Kapellmeister
Kara Kum
Kara Sea
Kara-Kalpak
Karachi
Karafuto
Karaganda
Karaite
Karajan
Karakoram
Karakorum
Karbala
Karelia
Karelian
Karelian Isthmus
Karen
Karl-Marx-Stadt
Karlov Vary
Karlsbad
Karlsruhe
Karnak
Karttikeya
Kashgar
Kashmir
Kashmiri
Kassa
Kassala
Kassel
Kastrop-Rauxel
Katanga
Katar
Katharevusa
Kathiawar
Katmai
Katmandu
Katowice
Katrine
Kattegat
Kauai
Kaunas
Kaveri
Kawasaki
Kay
Kayseri
Kazak
Kazan
Kazantzakis
Kazbek
Kean
Keats
Kemble
Kendal green
Kenilworth
Kennedy
Kennedy-Heaviside layer
Kenny method
Kent
Kentish
Kentucky
Kentucky Derby
Kentucky bluegrass
Kentucky coffee tree
Kenya
Kenyatta
Keos
Kepler
Kerala
Kerbel
Kerch
Keresan
Kerguelen
Kerman
Kermanshah
Kern
Kerouac
Kerr
Kerr effect
Kerry
Kerry blue terrier
Kesselring
Kettering
Ketubim
Kew
Keynes
Keynesianism
Khabarovsk
Khachaturian
Khalkha
Khania
Kharkov
Khartoum
Khasi
Khelat
Kherson
Khirbet Qumran
Khiva
Khmer
Khmer Republic
Khoisan
Khotan
Khrushchev
Khufu
Khyber Pass
Ki
Kiangsi
Kiangsu
Kiaochow
Kickapoo
Kid
Kidd
Kidderminster
Kiddush
Kidron
Kiel
Kielce
Kierkegaard
Kierkegaardian
Kiev
Kigali
Kikuyu
Kilauea
Kildare
Kilimanjaro
Kilkenny
Killarney
Killiecrankie
Kilmarnock
Kimberley
Kinabalu
Kincardine
Kinchinjunga
King
King Charles spaniel
King James Version
King's Bench
King's Counsel
King's speech
Kings
Kings Point
Kingsley
Kingston
Kinross
Kinsey
Kinshasa
Kioto
Kiowa
Kipling
Kipp's apparatus
Kirchhoff
Kirghiz
Kirghiz Steppe
Kirin
Kirk
Kirkcaldy
Kirkcudbright
Kirkuk
Kirkwall
Kirman
Kirov
Kirovabad
Kirovograd
Kirsch
Kiruna
Kisangani
Kishinev
Kislev
Kistna
Kisumu
Kitchener
Kitwe
Kiushu
Kiwanis
Kizil Irmak
Klagenfurt
Klaipeda
Klan
Klansman
Klausenburg
Klee
Kleenex
Klein bottle
Kleist
Klemperer
Klimt
Kline
Klodike
Klostock
Knesset
Knickerbocker
Knight Templar
Knossos
Knox
Knoxville
Knt.
Knut
Kobarid
Kobe
Koblenz
Koch
Kochi
Kodak
Kodiak
Kodiak bear
Kodok
Koestler
Kofu
Koheleth
Kohima
Kohinoor
Kokand
Koko Nor
Kokoschka
Kokura
Kol Nidre
Kollwitz
<table>
<thead>
<tr>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kolomna</td>
<td>Kolyma</td>
<td>Kolyma</td>
<td>Kolyma</td>
<td>Komi</td>
<td>Kommunarsk</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komoda</td>
</tr>
<tr>
<td>Kongo</td>
<td>Konstanz</td>
<td>Konya</td>
<td>Kootenay</td>
<td>Kopeisk</td>
<td>Koran</td>
<td>Kordofan</td>
<td>Kordofan</td>
<td>Kordofan</td>
<td>Kordofan</td>
</tr>
<tr>
<td>Komsomol</td>
<td>Komsomol</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
</tr>
<tr>
<td>Komodo</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
<td>Komodo</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
<tr>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
<td>Korea</td>
</tr>
<tr>
<td>Korea Strait</td>
<td>Korean</td>
<td>Korean War</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
<td>Koroseal</td>
</tr>
<tr>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
<td>Korosel</td>
</tr>
</tbody>
</table>
Kriemhild
Krishna
Krishna Menon
Kriss Kringle
Kristiansand
Kronos
Kronstadt
Kropotkin
Kruger
Krugersdorp
Krupp
Kshatriya
Kt
Kt.
Ku Klux Klan
Kuala Lumpur
Kuban
Kublai Khan
Kuching
Kuenlun
Kufic
Kuibyshev
Kultur
Kulturkampf
Kulun
Kumamoto
Kumasi
Kun
Kunlun
Kunming
Kunstlied
Kuomintang
Kuopio
Kura
Kurd
Kurdish
Kurdistan
Kure
Kurgan
Kurland
Kuroshio
Kursk
Kush
Kutaisi
Kutch
Kutenai
Kutuzov
Kuwait
Kuznetsk Basin
Kwa
Kwakiutl
Kwangchow
Kwangchowan
Kwangju
Kwangtung
Kweichow
Kweilin
Kweisui
Kweiyang
Ky.
Kyd
Kymric
Kymry
Kynewulf
Kyoto
Kyrie eleison
Kythera
Kyushu
Kyzyl Kum
L
L-dopa
L.
L.A.
L.C.L.
L.D.S.
L.I.
L.P.
L.S.D.
L/C
LCM
LD
LEM
LG
LH
LL.B.
LL.D.
LL.M.
LM
LP
LSD
LXX
La
La Cumbre
La Fontaine
La Granja
La Guardia
La Hogue
La Mancha
La Paz
La Plata
La Rochefoucauld
La Rochelle
La Salle
La Spezia
La Tour
La Trappe
La
Laaland
Lab.
Laban
Labe
Labiche
Labor Day
Labour Day
Labourite
Labrador
Labrador Current
Labrador retriever
Labrador tea
Labuan
Lacedaemon
Lacedaemonian
Lacerta
Lachesis
Laclol
Laconia
Lacrima Christi
Ladin
Ladino
Ladoga
Ladon
Ladrone Islands
Lady
Lady Day
Lady chapel
Ladyship
Ladysmith
Laerter
Laferette
Lag b'Omer
Lagerkvist
Lagoon Islands
Lagos
Lagrange
Latin
Latin America
Latin Church
Latin Quarter
Latin cross
Latin school
Latin square
Latinate
Latinism
Latinist
Latinity
Latinize
Latium
Latona
Latter-day Saint
Latvia
Latvian
Laud
Lauder
Laudian
Laudianism
Laue
Laughton
Launceston
Laundromat
Laurasia
Laurentian
Laurentian Mountains
Laurier
Lausanne
Lautrec
Laval
Lavoisier
Law
Law of Moses
Lawes
Lawrence
Layamon
Layard
Lazarus
Ld.
Le Corbusier
Le Creusot
Le Havre
Le Mans
Le Sage
Leacock
Leadbelly
League of Nations
Leah
Leakey
Leander
Lear
Leatherette
Leatheroid
Leavenworth
Leavis
Lebanon
Lebanon Mountains
Lebensraum
Lebrun
Lece
Leeky
Leconte de Lisle
Leda
Lee
Leeds
Leeuwarden
Leeuwenhoek
Leeward Islands
Left Bank
Legaspi
Legendre
Leghorn
Legnica
Lehmann
Lehmbruck
Leibniz
Leicester
Leicestershire
Leiden
Leigh
Leinster
Leipzig
Leith
Leix
Lely
Lemberg
Lemnos
Lena
Lenin
Leninakan
Leningrad
Leninism
Leninist
Lent
Lenten
Leo
Leo I
Leo III
Leo Minor
Leo X
Leo XIII
Leon
Leonardo da Vinci
Leoncavallo
Leonid
Leonidas
Leopardi
Leopold I
Leopold II
Leopold III
Lepanto
Lepidus
Lepontine Alps
Lepus
Lermontov
Lerwick
Les Cayes
Lesbian
Lesbos
Lesotho
Lesseps
Lesser Antilles
Lesser Sunda Islands
Lessing
Lethbridge
Lethe
Leto
Lett
Lettish
Leucas
Leucippus
Leuctra
Leukas
Lev.
Levalloisian
Levant
Levantine
Leven
Leverhulme
Leverrier
Levi
Levis
Levit.
Levite
Levitical
Leviticus
Levkas
Lewes
Lewis
Lewis acid
Lewis base
Lewis gun
Lewis with Harris
Lexington
Leyden
Leyden jar
Leyte
Lhasa
Lhasa apso
Li
Li Po
Liao
Liaoning
Liaotung
Liaoyang
Liard
Lias
Lib.
Libau
Libava
Libby
Liberal Party
Liberec
Liberia
Liberty Island
Liberty bond
Libia
Libra
Library of Congress
Libreville
Librium
Libya
Libyan
Libyan Desert
Lichfield
Lidice
Lie
Liebfraumilch
Liebig
Liebknecht
Liechtenstein
Liederkranz
Liegnitz
Liestal
Lietuva
Lieut.
Life Guards
Liguria
Ligurian
Lilienthal
Lilith
Liliuokalani
Lille
Lilliputian
Lilongwe
Lima
Limassol
Limbourg
Limburg
Limburger
Limerick
Limoges
Limousin
Limpopo
Lin Piao
Linacre
Linares
Lincoln
Lincoln green
Lincoln's Inn
Lincolnshire
Lind
Lindbergh
Lindesnes
Lindsey
Linear A
Linear B
Link trainer
Linlithgow
Linnaeus
Linnean
Linotype
Linz
Lions
Lipari Islands
Lipchitz
Lipetsk
Lippe
Lord's Supper
Lord's table
Lordship
Lorelei
Loren
Lorentz
Lorenz
Lorenzetti
Lorient
Lorraine
Lorraine cross
Los Angeles
Lost Generation
Lot
Lot-et-Garonne
Lothair I
Lothair II
Lothario
Lothians
Lotze
Louis
Louis I
Louis II
Louis IV
Louis IX
Louis Napoleon
Louis Philippe
Louis Quatorze
Louis Quinze
Louis Seize
Louis Treize
Louis V
Louis XI
Louis XII
Louis XIII
Louis XIV
Louis XVI
Louis XVII
Louis XVIII
Louisburg
Louisiana
Louisiana Purchase
Louisville
Lourdes
Lourenco Marques
Louth
Louvain
Louvre
Lovelace
Lovell
Low
Low Archipelago
Low Church
Low Countries
Low German
Low Latin
Low Mass
Low Sunday
Lowell
Lower Austria
Lower California
Lower Canada
Lower Egypt
Lower Lakes
Lower Palatinate
Lower Saxony
Lowestoft
Lowry
Loyola
Lt.
Lt. Col.
Lt. Comdr.
Lt. Gen.
Lt. Gov.
Ltd.
Lu
Lualaba
Luanda
Luang Prabang
Lubbock
Lublin
Lubumbashi
Lucan
Lucania
Lucas van Leyden
Lucca
Lucerne
Lucian
Lucifer
Lucilius
Lucina
Lucite
Lucknow
Lucretia
Lucretius
Lucullus
Lucy
Luddite
Ludendorff
Ludhiana
Ludlow
Ludwigshafen
Luftwaffe
Lug
Luganda
Lugansk
Luger
Lugo
Luik
Luke
Lulea
Lully
Luluabourg
Luminal
Lumumba
Luna
Lundy's Lane
Lungki
Lunik
Lupercalia
Lupus
Lusaka
Lusatia
Lusatian
Lusitania
Luth.
Luther
Lutheran
Luthuli
Lutine bell
Lutyens
Luwian
Lux.
Luxembourg
Luxemburg
Luxor
Luzern
Luzon
Lvov
Lw
Lyallpur
Lyautey
Lycaon
Lycaonia
Lycia
Lycian
Lycurgus
Lydgate
Lydia
Lydian
Lydian mode
Lyell
Lylly
Lynch
Lynn
Lynx
Lyon
Lyon King of Arms
Lyonnaise
Lyonnaisse
Lyons
Lyra
Lysander
Lysenko
Lysenkoism
Lysias
Lysimachus
Lysippus
Lysol
Lytton
Lyublin
M
M roof
M'-
M-16
M.
M.A.
M.Arch.
M.B.
M.B.A.
M.B.E.
M.C.
M.D.
M.E.
M.Ed.
M.I.A.
M.M.
M.O.
M.P.
M.P.S.
M.S.
M.Sc.
MA
MATS
MC
MD
ME
MF
MHD
MM.
MRA
MS
MS.
MSG
MT
MV
MVD
Mab
Mabuse
Mac
MacArthur
MacDonald
Macao
Macassar
Macassar oil
Macaulay
Macbeth
Mace
Maced.
Macedonia
Macedonian
Maceio
Mach
Mach number
Machiavelli
Machiavellian
Machmeter
Machu Picchu
Mackenzie
Mackinaw coat
Mackintosh
Macleod
Macmillan
Macon
Macpherson
Macready
Madag.
Madagascar
Madeira
Madhya Pradesh
Madison
Madison Avenue
Madonna
Madras
Madre de Dios
Madrid
Madura
Maeander
Maebashi
Maececas
Maelstrom
Maestricht
Mafeking
Mafia
Magallanes
Magdalena
Magdalena Bay
Magdalenian
Magdeburg
Magellan
Magellanic cloud
Magen David
Maggiore
Maginot line
Magna Carta
Magna Charta
Magna Graecia
Magna Mater
Magnificat
Magnitogorsk
Magog
Magritte
Magus
Magyar
Mahalla el Kubra
Maharashtra
Mahayana
Mahdi
Mahican
Mahound
Maharatta
Maia
Maid Marian
Maidstone
Malinowski
Mallarme
Mallorca
Malmo
Malpighi
Malpighian corpuscle
Malpighian layer
Malraux
Malta
Maltese
Maltese cat
Maltese cross
Maltese dog
Malvern
Mameluke
Man
Man.
Manado
Managua
Manama
Manassas
Manasseh
Manaus
Manche
Manchester
Manchester terrier
Manchu
Manchukuo
Mancunian
Mandaean
Mandalay
Mande
Mandeville
Mandingo
Manes
Manet
Manganin
Manhattan
Mani
Manichaeism
Manifest Destiny
Manila
Manila Bay
Manila hemp
Manila paper
Manila rope
Manipur
Manisa
Manizales
Mann
Mannerheim
Mannheim School
Manning
Manolete
Mansfield
Mantegna
Mantinea
Mantua
Manutius
Manx
Manx cat
Manxman
Manzoni
Mao Tse-tung
Maoism
Maori
Map
Mar del Plata
Mar.
Maracaibo
Maracanda
Maratha
Marathi
Marathon
Marc
Marceau
Marcellus
March
March.
Marche
Marcheshvan
Marciano
Marcionism
Marco Polo
Marconi
Marconi rig
Mardi Gras
Marduk
Marengo
Margaret
Margaret of Valois
Margarita
Margate
Margaux
Margherita
Maria Theresa
Marian
Mariana Islands
Marianne
Marie Antoinette
Marie Byrd Land
Marie Galante
Mariehamn
Marianbad
Marin
Marinduque
Marine Corps
Mariner
Marinetti
Mariology
Marist
Maritain
Maritime Alps
Maritime Provinces
Maritsa
Mariupol
Marius
Marivaux
Mark
Mark Antony
Markov chain
Markova
Marlborough
Marlin
Marlowe
Marmara
Marmolada
Marne
Maroc
Maronite
Maros
Marquand
Marquesan
Marquesas Islands
Marquette
Marquis
Marrakech
Marrano
Mars
Mars brown
Mars violet
Marsala
Marscillaise
Marshall
Marshall Islands
Marshall Plan
Marshallese
Marsilius of Padua
Marston Moor
Martaban
Martel
Martello tower
Martha
Martial
Martian
Martin
Martin du Gard
Martineau
Martinmas
Marvin
Marx
Marxian
Marxism
Marxism-Leninism
Marxist
Mary
Mary I
Mary Jane
Mary Magdalene
Maryland
Masaccio
Masan
Masaryk
Masbate
Mascagni
Masefield
Maseru
Mashhad
Masinissa
Mason
Masonite
Masorete
Masoretic
Masqat
Mass
Mass book
Massachusetts
Massachusetts Bay
Massachusetts ballot
Massasoit
Massenet
Massey
Massif Central
Massorete
Master
Master of Arts
Master of Science
Master of the Rolls
Masuria
Mata Hari
Matabele
Matadi
Matamoros
Mathura
Matilda
Matisse
Mato Grosso
Matsu
Matsuyama
Matt.
Matterhorn
Matthew
Matthias
Matto Grosso
Mau Mau
Maugham
Maui
Maulmain
Mauna Kea
Mauna Loa
Maundy Thursday
Maupassant
Mauretania
Mauriac
Maurice
Maurist
Mauritania
Mauritius
Maurois
Maury
Maurya
Mauser
Mawson
Maxim
Maxim gun
Maximalist
Maximilian
Maximilian I
Maxwell
May
May Day
May apple
May queen
May wine
Maya
Mayakovski
Mayan
Mayday
Mayence
Mayenne
Mayer
Mayfair
Mayo
Mayon
Mayotte
Maypole
Maytime
Mazarin
Mazda
Mazdaism
Mc-
McCarthy
McCarthyism
McCormack
McCormick
McCoy
McCullers
McKinley
Md
Md.
Me
Me.
MeV
Mead
Meade
Meath
Mechlin
Mechlin lace
Mecklenburg
Medal of Honor
Medan
Medawar
Mede
Medea
Media
Medicaid
Medicare
Medici
Medieval Latin
Medina
Medit.
Mediterranean
Mediterranean Sea
Mediterranean fever
Medusa
Megaera
Meganthropus
Megara
Megiddo
Mehemet Ali
Meilhac
Meir
Meissen
Meistersinger
Meitner
Mekka
Mekong
Melanesian
Melba
Melba sauce
Melba toast
Melbourne
Melchior
Melchizedek
Meleager
Melitopol
Melos
Melpomene
Melville Island
Melville Peninsula
Member of Parliament
Memling
Memnon
Memorial Day
Memphian
Memphis
Menado
Menai Strait
Menam
Menander
Mencius
Mendel
Mendel's laws
Mendelian
Mendelism
Mendelssohn
Menderes
Mendoza
Menelik II
Menes
Mennonite
Menorca
Mensa
Menton
Mentor
Menzies
Mephistopheles
Merca
Mercator
Mercator projection
Mercator sailing
Mercia
Mercurochrome
Mercury
Meredith
Merlin
Meroadach
Merovingian
Mersenne number
Mersey
Merthiolate
Merthyr Tydfil
Merton
Mesa Verde
Meshach
Meshed
Mesolithic
Mesopotamia
Mesozoic
Messaquina
Messapian
Messeigneurs
Messene
Messenia
Messiaen
Messiah
Messidor
Messina
Meta
Metchnikoff
Methedrine
Methodism
Methodist
Methodius
Methuselah
Metternich
Metz
Meuse
Mexicali
Mexican
Mexican War
Mexican hairless
Mexican hat dance
Mexico
Mexico City
Meyerbeer
Meyerhof
Mg
Miami
Mic.
Micah
Micawber
Mich.
Michael
Michaelmas
Michaelmas daisy
Michelangelo
Michelson
Michelson-Morley experiment
Michigan
Mick
Mickey
Micmac
Micronesia
Micronesian
Microscopium
Mid.
Midas
Middelburg
Middle Ages
Middle America
Middle Atlantic States
Middle East
Middle English
Middle Greek
Middle High German
Middle Kingdom
Middle Low German
Middle Persian
Middle States
Middle Temple
Middle West
Middleton
Mideast
Midgard
Midgard serpent
Midi
Midian
Midland
Midlands
Midlothian
Midsummer Day
Midway
Midwest
Milanese
Milesian
Miletus
Milford Haven
Milhaud
Milky Way
Mill
Millais
Miller
Millet
Millikan
Miltiades
Milton
Milwaukee
Mimamsa
Mimas
Mimir
Min
Minas Basin
Minas Gerais
Mindanao
Mindoro
Mindszent
Minerva
Ming
Mingrelian
Minho
Minimalist
Minn.
Minna
Minneapolis
Minnesota
Minoan
Minor Prophets
Minorca
Minorite
Minos
Minotaur
Minsk
Minuteman
Miocene
Miquelon
Mirabeau
Mirafl ores
Miranda
Miseno
Misere
Mishnah
Miskolc
Miss
Miss.
Missionary Ridge
Mississippian
Missouri meerschaum
Mistassini
Mister
Misti
Mithgarthr
Mithraism
Mithras
Mithridates VI
Mitra
Mixtec
Mizar
Mlle
Mme
Mn
Mnemosyne
Mo
Mo.
Mobile
Mocambique
Modena
Modern English
Modern Greek
Modern Hebrew
Modigliani
Modred
Mogador
Mogen David
Mogilev
Moham.
Mohammed
Mohammed Ali
Mohammed II
Mohammedan
Mohammedanism
Mohave
Mohave Desert
Mohawk
Mohenjo-Daro
Mohican
Mohock
Mohs scale
Moirai
Mojave
Mokpo
Moldau
Moldavia
Molech
Molina
Mollweide projection
Molly Maguire
Moloch
Molokai
Molotov
Moltke
Moluccas
Mombasa
Momus
Mon
Mon-Khmer
Mon.
Mona Lisa
Mona Passage
Monaco
Monaghan
Monck
Moncton
Monday
Mondrian
Monegasque
Monel metal
Monet
Mongol
Mongolia
Mongolian
Mongolian People's Republic
Mongolic
Mongoloid
Monmouth
Monmouthshire
Monnet
Monoceros
Monongahela
Monophyosite
Monopoly
Monotype
Monroe
Monroe Doctrine
Mons
Monseigneur
Monsignor
Mont Blanc
Mont Cervin
Mont-Saint-Michel
Mont.
Montagnard
Montagu
Montague
Montana
Montcalm
Monte Carlo
Monte Cassino
Monte Corno
Montefiascone
Montego Bay
Montenegro
Monterrey
Montespan
Montessori method
Monteux
Monteverdi
Montevideo
Montfort
Montgolfier
Montgomery
Montherlant
Montmartre
Montparnasse
Montpelier
Montpellier
Montreal
Montserrat
Moody
Moor
Moore
Moorish
Moorish idol
Moose Jaw
Moradabad
Moral Rearmament
Morava
Moravia
Moravian
Moray
Moray Firth
Morbihan
Mordecai
Mordred
Mordvin
More
Morea
Moreau
Morelos
Moresque
Morgan
Morgan le Fay
Morisco
Morley
Mormon
Mornay
Moro
Morocco
Morpheus
Morris
Morris chair
Morrison
Mors
Morse
Mortimer
Mosaic
Moseley
Moselle
Moses
Moskva
Moslem
Moslemism
Mosul
Mother Carey's chicken
Mother Goose
Mother Hubbard
Mother of God
Mothering Sunday
Motherwell
Motherwell and Wishaw
Moulmein
Mount Desert Island
Musil
Muskogean
Muskogee
Muslim
Musset
Mussolini
Mussorgsky
Mussulman
Mustafa Kemal
Mutazilite
Muttra
Mv
Mweru
Mycenae
Mycenaean
Mycostatin
Mylitta
Myrmidon
Myron
Mysia
Mytilene
N
N.
N.A.
N.B.
N.C.
N.C.O.
N.F.
N.G.
N.I.
N.J.
N.S.
N.S.W.
N.T.
N.U.T.
N.W.T.
N.Y.
N.Y.C.
N.Z.
NACA
NAD
NASA
NATO
NB
NE
NF
NGC
NKVD
NL
NMR
NNE
NNW
NS
NSF
NW
Na
Na-Dene
Nabataean
Nablus
Nabokov
Nabonidus
Naga
Nagaland
Nagano
Nagari
Nagorno-Karabakh Autonomous Region
Nagoya
Nagpur
Nagy
Nah.
Nahuatl
Nahuatlan
Nahum
Nairn
Nairobi
Nalchik
Nama
Namangan
Namaqualand
Namhoi
Nammu
Namtar
Nanak
Nanchang
Nancy
Nanga Parbat
Nanna
Nanning
Nansen
Nansen bottle
Nantucket
Naoise
Naomi
Napier's bones
Napierian logarithm
Naples
Naples yellow
Napoleon
Napoleon I
Napoleon II
Napoleonic
Napoleonic Code
Napoleonic Wars
Nara
Naraka
Narbada
Narbonne
Narcissus
Narragansett Bay
Narva
Narvik
Naseby
Nashua
Nashville
Nasser
Natal
Nathan
Nathanael
National Covenant
National Guard
National Liberation Front
National Security Council
National Socialism
Nationalist China
Native States
Nativity
Naucratis
Nauru
Navaho
Navarino
Navarre
Navy Cross
Naxos
Nayarit
Nazarene
Nazareth
Nazarite
Naze
Nazi
Nb
Nd
Ne
Ne Win
Neanderthal
Neanderthal man
Neapolitan
Neapolitan ice cream
Near East
Nebiim
Nebo
Nebr.
Nebraska
Nebuchadnezzar
Neckar
Necker
Nefertiti
Negress
Negrillo
Negrito
Negro
Negro spiritual
Negrophobe
Neh.
Nehemiah
Nehru
Neisse
Nejd
Nelson
Neman
Nembutal
Nemean lion
Nemesis
Neo-Darwinism
Neo-Gothic
Neo-Lamarckism
Neo-Latin
Neo-Pythagoreanism
Neocene
Neogaea
Neogene
Neolithic
Neoplatonism
Neoptolemus
Neotropical
Nepali
Nepos
Neptune
Neptunian
Nereid
Nereus
Nernst
Nero
Neruda
Nerva
Nerval
Nesselrode
Nessus
Nestor
Nestorian
Nestorius
Neth.
Netherlands
Netherlands Guiana
Neusatz
Neustria
Nev.
Neva
Nevada
Nevers
Nevis
Nevski
New Bedford
New Britain
New Brunswick
New Castile
New Church
New Deal
New England
New Forest
New France
New Georgia
New Granada
New Guinea
New Hampshire
New Harmony
New Hebrides
New Ireland
New Jersey
New Jerusalem
New Jerusalem Church
New Kingdom
New Latin
New Learning
New Left
New Mexico
New Netherland
New Objectivity
New Orleans
New Plymouth
New Siberian Islands
Nobel prize
Noel
Nofretete
Noguchi
Noh
Nolde
Nona
Nootka
Nor.
Nordau
Nordic
Nordkyn Cape
Nordrhein-Westfalen
Norfolk
Norfolk Island
Norfolk jacket
Norge
Norma
Norman Conquest
Norman French
Normandy
Norse
Norseman
North
North America
North Atlantic Treaty Organization
North Borneo
North Brabant
North Carolina
North Channel
North Country
North Dakota
North Germanic
North Holland
North Island
North Korea
North Pole
North Rhine-Westphalia
North Riding
North Star
North Vietnam
Northampton
Northamptonshire
Northcliffe
Northeast
Northern Cross
Northern Ireland
Northern Rhodesia
Northern Territories
Northerner
Northman
Northumberland
Northumbria
Northumbrian
Northwest
Northwest Passage
Northwest Territories
Northwest Territory
Norw.
Norway
Norway maple
Norwegian
Norwegian Sea
Norwegian elkhound
Norwich
Nostradamus
Notogaea
Notre Dame
Nottingham
Nottinghamshire
Notus
Nov.
Nova Lisboa
Nova Scotia
Novara
Novaya Zemlya
November
Novgorod
Novocaine
Novokuznetsk
Novosibirsk
Np
Nubia
Nubian
Nubian Desert
Nuevo Laredo
Numa Pompilius
Numbers
Numidia
Numidian crane
Nunc Dimitiris
Nupercaine
Nuremberg
Nureyev
Nuristan
Nurmi
Oberhausen
Oberland
Oberon
Oc.
Occam
Occident
Occidental
Occidentalize
Ocean of Storms
Oceania
Oceanid
Oceanus
Ockeghem
Ockham
Ockham's razor
Oct.
Octans
Octavia
Octavian
October
October Revolution
Oddfellow
Odelsting
Odense
Oder
Odin
Odoacer
Odysseus
Odyssey
Oe
Oedipus
Oedipus complex
Oenone
Offenbach
Ogbomosho
Oglethorpe
Ogpu
Ohm
Ohm's law
Oil Rivers
Oireachtas
Oisin
Oistrakh
Ojibwa
Okeechobee
Okefenokee Swamp
Okhotsk
Okie
Okinawa
Okla.
Oklahoma
Olaf I
Olaf II
Olaf V
Olcott
Old Bailey
Old Bulgarian
Old Castile
Old Church Slavonic
Old Delhi
Old English
Old English sheepdog
Old French
Old Frisian
Old Guard
Old Harry
Old High German
Old Icelandic
Old Kingdom
Old Latin
Old Low German
Old Nick
Old Norse
Old North French
Old Northwest
Old Persian
Old Pretender
Old Prussian
Old Saxon
Old South
Old Test.
Old Testament
Old World
Old World monkey
Oldcastle
Oldenburg
Oldham
Olduvai Gorge
Oligocene
Oliphant
Oliver
Olives
Olivier
Olomouc
Olympia
Olympiad
Olympian
Olympic
Olympic Games
Olympic Mountains
Olympus
Om
Om.
Omaha
Oman
Omar Khayyam
Omdurman
Ommiad
Omphale
Omsk
On
Onassis
Onega
Onions
Onondaga
Ont.
Ontario
Ophir
Ophiuchus
Oporto
Oppenheimer
Ops
Oran
Orange Free State
Orangeism
Orangeman
Oratorian
Orcus
Ordocian
Ordzhonikidze
Orebro
Oreg.
Oregon
Orel
Orenburg
Oreopithecus
Orestes
Oresund
Orff
Organization of African Unity
Organization of American States
Orient
Oriental
Oriental rug
Orientalism
Orientalize
Oriente
Origen
Orion
Orissa
Oriya
Orizaba
Orjonikidze
Orleanist
Orleans
Orlon
Orly
Ormandy
Ormazd
Ormuz
Orontes
Orozco
Orpheus
Orphism
Orpington
Ortega y Gasset
Ortegal
Orth.
Orthodox
Orthodox Church
Orthodox Jew
Orthodox Judaism
Oruro
Orvieto
Orwell
Os
Osage
Osage orange
Osborne
Oscan
Oscar
Oscar II
Osco-Umbrian
Osiris
Oslo
Osmanli
Ossa
Osset
Ossetia
Ossetic
Ossian
Ossietzky
Ostend
Ostia
Ostrogoth
Ostwald
Ostyak
Otranto
Otterburn
Otto
Otto I
Ottoman
Ottoman Empire
Otway
Ouachita
Oudh
Ouija
Oujda
Oulu
Our Father
Our Lady
Ouse
Outer Mongolia
Overijssel
Ovid
Owenism
Owens
Oxbridge
Oxford
Oxford Movement
Oxfordshire
Oxonian
Oxus
Ozalid
Ozark Mountains
Ozenfant
P
P.
P.A.
P.B.
P.C.
P.D.
P.E.
P.E.I.
P.G.
P.I.
P.M.
P.M.G.
P.O.
P.O.D.
P.P.  
P.R.  
P.S.  
P.T.  
P.T.O.  
P.W.D.  
P/C  
PA  
PA system  
PABA  
PGA  
POW  
PPI  
PR  
PVC  
Pa  
Pa.  
Pacific  
Pacific Northwest  
Pacific Ocean  
Pacific time  
Padang  
Paddy  
Paderewski  
Padishah  
Padova  
Padua  
Padus  
Paestum  
Paganini  
Page  
Pago Pago  
Pahang  
Pahari  
Pahlavi  
Paine  
Painted Desert  
Pakistan  
Pal.  
Palaearctic  
Palaeogene  
Palaeolithic  
Palaearctic  
Palatinate  
Palawan  
Palembang  
Palenque  
Paleo-Asiatic
Paleolithic
Paleozoic
Palermo
Palestrina
Paley
Pali
Pall Mall
Palladian
Palladio
Palladium
Pallas
Palm Beach
Palm Sunday
Palma
Palmer
Palmer Land
Palmer Peninsula
Palmerston
Palmira
Palo Alto
Pamlico Sound
Pamphylia
Pamplona
Pan
Pan-American
Pan-Arabism
Pan-Germanism
Pan-Slavism
Pan-Teutonism
Pan.
Panama
Panama Canal
Panama Canal Zone
Panama City
Panama hat
Panathenaea
Panay
Pancake Day
Panchen Lama
Pandarus
Pandean
Pandora's box
Pango Pango
Panhellenic
Panhellenism
Panjabi
Pankhurst
Pannonia
Pantagruel
Pantelleria
Pantheon
Paoting
Pap test
Papal States
Papandreou
Papeete
Papen
Paphian
Paphlagonia
Paphos
Papiamento
Papua
Papuan
Paracelsus
Paraclete
Paradise
Paraguay
Paraguay tea
Paramaribo
Parashah
Parcae
Parcheesi
Pareto
Parian
Parian ware
Paris
Paris Commune
Paris green
Parisian
Park
Parker House roll
Parkinson's disease
Parkinson's law
Parl.
Parliament
Parma
Parmenides
Parmentier
Parmesan
Parmassian
Parmassus
Parnell
Parr
Parry
Parsee
Parsons
Parthenon
Parthenopaeus
Parthenope
Parthenos
Parthia
Parthian shot
Parvati
Pasadena
Pasargadæae
Pascal
Pascal's triangle
Pashto
Passamaquoddy Bay
Passion Sunday
Passion Week
Passion play
Passover
Pasteur
Pasto
Pat
Patagonia
Paternoster
Paterson
Pathan
Patmore
Patmos
Paton
Patras
Patrick
Patroclus
Patti
Patton
Pau
Paul
Paul Bunyan
Paul III
Paul Pry
Paul VI
Pauli
Pauli exclusion principle
Pauline
Pauling
Paumotu Archipelago
Pavlodar
Pavlov
Pavo
Pax
Pax Romana
Paxton
Pb
Pd
Peace Corps
Peace River
Peacock
Pearl Harbor
Pearl River
Pearly Gates
Peary
Pechora
Pecksniffian
Pecos
Peebles
Peele
Peeping Tom
Pegasus
Pegu
Pehlevi
Peipus
Peirce
Pekin
Peking
Peking man
Pekingese
Pelagian
Pelagianism
Pelasgian
Pele's hair
Pelew Islands
Pelias
Pelion
Pella
Pelletier
Pelops
Pelotas
Pelletier effect
Pemba
Pembroke
Pembroke table
Pen.
Penang
Penelope
Peneus
Penn
Penn.
Pennine Alps
Pennsylvania
Pennsylvania Dutch
Pennsylvanian
Pentateuch
Pentecost
Pentecostal
Pentheus
Pentothal
Penutian
Penza
Penzance
People's Party
Peoria
Pepys
Pera
Peraea
Perak
Perbunan
Perceval
Percheron
Percival
Percy
Perdido
Perdu
Pergolesi
Periclean
Pericles
Perigordian
Peripatetic
Perlis
Perm
Permian
Pernambuco
Pernik
Pernod
Perrault
Perrin
Perry
Perseid
Persephone
Perseus
Pershing
Persia
Persian
Persian Gulf
Persian carpet
Persian cat
Persian lamb
Persian melon
Persian rug
Persis
Perspex
Perth
Peru
Peru Current
Perugia
Perutz
Peruvian bark
Peruzzi
Pesach
Pescara
Peshawar
Peshitta
Pestalozzi
Pet.
Peter
Peter I
Peter III
Peter the Hermit
Peter's pence
Peterborough
Petermann Peak
Petersburg
Peta
Petrarch
Petrarchan sonnet
Petrine
Petronius
Petropavlovsk
Petrozavodsk
Pforzheim
Pg.
Ph
Phaedra
Phaedrus
Phanerozoic
Pharaoh
Pharaoh ant
Pharisaic
Pharisaism
Pharissee
Pharos
Pharsalus
Phebe
Pheidippides
Phi Beta Kappa
Pisano
Pisces
Piscis Austrinus
Pisgah
Pisistratus
Pissarro
Pistoia
Pitch Lake
Pithecanthropus
Pitman
Pitot-static tube
Pitt
Pittsburgh
Pius II
Pius IV
Pius V
Pius VII
Pius XII
Pizarro
Plains of Abraham
Planck
Plassey
Plasticine
Plata
Plataea
Plato
Platonic
Platonic love
Platonic solid
Platonic year
Platonism
Plattdutsch
Platte
Plauen
Plautus
Plautus
Pleasant Island
Pleiades
Pleistocene
Plenty
Pleven
Plexiglas
Plimsoll line
Plimsoll mark
Pliny
Pliocene
Plotinus
Plovdiv
Pluto
Plutonian
Plutus
Plymouth
Plymouth Rock
Pm
Po
Pocahontas
Podgorica
Podolsk
Poe
Pohai
Point Four
Pointe-Noire
Poisson distribution
Poisson's ratio
Poitiers
Pol.
Pola
Polack
Poland
Poland China
Polaris
Polaroid
Pole
Polish
Polish Corridor
Politburo
Politician
Polk
Pollaiuolo
Pollock
Pollux
Polo
Polybius
Polycarp
Polyclitus
Polycrates
Polydeuces
Polygnotus
Polyhymnia
Polynesia
Polynesian
Polynices
Polyphemus
Pomerania
Pomeranian
Pommard
Pomona
Pompadour
Pompeii
Pompey
Pompidou
Ponce
Pondicherry
Ponta Delgada
Ponterfract
Pontiac
Pontianak
Pontic
Pontifical College
Pontifical Mass
Pontine Marshes
Pontius Pilate
Pontormo
Pontus
Pontus Euxinus
Poonah
Poor Richard's Almanac
Pope
Popish Plot
Popsicle
Pori
Porsena
Port Arthur
Port Blair
Port Elizabeth
Port Harcourt
Port Jackson
Port Moresby
Port Orford cedar
Port Phillip Bay
Port Royal
Port Said
Port Sudan
Port-Salut
Port-au-Prince
Port.
Porte
Porter
Portland
Portland cement
Porto Novo
Porto Rico
Portsmouth
Portugal
Portuguese
Portuguese East Africa
Portuguese Guinea
Portuguese India
Portuguese Timor
Portuguese West Africa
Portuguese man-of-war
Poseidon
Posen
Potemkin
Potomac
Potsdam
Poulenc
Pound
Poussin
Powys
Poyang
Pozsony
Pozzuoli
Pr
Pr.
Praetorian Guard
Prague
Prairial
Prairie Provinces
Prakrit
Prato
Praxiteles
Pre-Raphaelite
Precambrian
Pres.
Presb.
Presbyterian
Presley
Prester John
Preston
Pretoria
Pretorius
Preussen
Priam
Priapus
Pribilof Islands
Pride
Prince Albert
Prince Edward Island
Prince Rupert
Prince of Darkness
Prince of Peace
Prince of Wales
Princeton
Principe
Prinz
Prior
Priscian
Privatdocent
Proclus
Procne
Procopius
Procrustean
Procrustes
Procyon
Prog.
Progressive Party
Prokofiev
Prokopyevsk
Promethean
Promised Land
Pronuba
Propertius
Prophets
Proserpina
Prot.
Protagoras
Protrozoic
Protestant
Protestant Episcopal Church
Protestantism
Proteus
Proudhon
Proust
Prov.
Provencal
Provence
Proverbs
Providence
Provincetown
Provo
Prud'hon
Prus.
Prussia
Prussian blue
Prussianism
Prut
Prynne
Ps.
Psalms
Psalter
Pskov
Psyche
Psyche knot
Pt
Ptah
Ptolemaeus
Ptolemaic
Ptolemaic system
Ptolemaist
Ptolemy
Ptolemy I
Pu
Puccini
Puck
Puebla
Pueblo
Puerto Rico
Puget Sound
Puglia
Pula
Pulitzer
Pulitzer Prize
Pullman
Pulmotor
Punch
Punch-and-Judy show
Punchinello
Punic
Punic Wars
Punjab
Punjab States
Punjabi
Punta Arenas
Puppis
Purcell
Puri
Purim
Puritan
Puritanism
Purple Heart
Pusan
Pusey
Puseyism
Pushkin
Putnam
Putsch
Putumayo
Puvis de Chavannes
Pvt.
Pydna
Pygmy
Pylos
Pym
Pyongyang
Pyramidon
Pyrenees
Pyrex
Pyriphlegethon
Pyrrha
Pyrrhic victory
Pyrrho
Pyrrhonism
Pythagoras
Pythagorean
Pythagoreanism
Pythia
Pythian
Python
Pyxis
Q
Q.
Q.C.
Q.E.D.
Q.E.F.
Q.F.
QKtP
QNP
QP
QR
Qatar
Qq.
Quadragesima
Quadragesimal
Quai d'Orsay
Quaker
Quaker meeting
Quasimodo
Quaternary
Quathlamba
Quatre Bras
Que.
Quebec
Quechua
Quechuan
Queen Anne's War
Queen Anne's lace
Queen Charlotte Islands
Queen Mab
Queen of Heaven
Queen's Counsel
Queen's speech
Queensberry rules
Queensland
Queensland nut
Queenstown
Quelpart
Quemoy
Quesnay
Quetzalcoatl
Quezon City
Quiberon
Quilmes
Quimper
Quinn
Quinquagesima
Quintana Roo
Quintero
Quirinal
Quirinus
Quirites
Quito
Quixote
Quimran
Quonset hut
R
R and R
R.
R.A.
R.A.A.F.
R.A.M.
R.C.
R.C.A.F.
R.C.M.P.
R.C.P.
R.C.S.
R.E.
R.I.
R.I.B.A.
R.I.P.
R.M.A.
R.M.S.
R.N.
R.Q.
Randers
Ranger
Rangoon
Ranjit Singh
Rank
Rapa Nui
Rapallo
Raphael
Rarotonga
Rask
Rasputin
Rathenau
Rattigan
Ravel
Ravenna
Rawalpindi
Ray
Rayleigh
Rb
Rd.
Re
Reade
Reading
Realpolitik
Rebecca
Received Standard
Recent
Rechabite
Recife
Reconstructionism
Reconstructionist
Red
Red China
Red Crescent
Red Cross
Red Indian
Red Poll
Redeemer
Redmond
Redon
Redstone
Ref. Ch.
Reform Bill
Reform Judaism
Reformed
Reg.
Regensburg
Rh-positive
Rhadamanthus
Rhaetia
Rhaetian
Rhaetian Alps
Rhaetic
Rhea
Rhea Silvia
Rhee
Rheinland
Rhesus factor
Rhetic
Rhine
Rhineland
Rhineland-Palatinate
Rhode Island
Rhode Island Red
Rhodes
Rhodes scholarship
Rhodesia
Rhodesian man
Rhodesian ridgeback
Rhodian
Rhodos
Rhondda
Rialto
Ribbentrop
Ribera
Ricardo
Riccio
Rice
Richard I
Richard II
Richard III
Richards
Richardson
Richelieu
Richmond
Richter
Richthofen
Ridley
Riemann
Riemannian geometry
Rienzi
Riesling
Rig-Veda
Riga
Rigel
Rigi
Rijeka
Riksdag
Riley
Rilke
Rimbaud
Rimini
Rimsky-Korsakov
Ringer's solution
Rio Branco
Rio de Janeiro
Riot Act
Rip Van Winkle
Ripley
Ripon
Ripuarian
Risorgimento
Ritter
Rivera
Rivers
Riviera
Riyadh
Rizal
Rizzio
Rn
Roanoke Island
Rob Roy
Robbe-Grillet
Robbia
Robert I
Robeson
Robespierre
Robin Goodfellow
Robin Hood
Robson
Roca
Rochdale
Rochelle powders
Rochelle salt
Rock
Rockefeller
Rockhampton
Rockies
Rockingham
Rockwell
Rocky Mountain goat
Rocky Mountain spotted fever
Rocky Mountains
Rommel
Romney
Romney Marsh
Romulus
Roncesvalles
Ronsard
Roodepoort-Maraisburg
Roosevelt
Roquefort
Rorschach test
Rosa
Roscius
Roscommon
Rosetta
Rosetta stone
Rosewall
Rosh Hashanah
Rosicrucian
Rosinante
Ross
Ross Dependency
Ross Ice Shelf
Ross Island
Ross Sea
Ross and Cromarty
Rossetti
Rossini
Rossiya
Rostand
Rostock
Rostov
Rota
Rotarian
Rotary Club
Rotherham
Rothermere
Rothko
Rothschild
Rotorua
Rotterdam
Rottweiler
Rouault
Roubaix
Rouen
Rouget de Lisle
Roulers
Roundhead
Rousseau
Russian wolfhound
Russianize
Russo-
Russo-Japanese War
Russophobe
Ruth
Ruthenia
Ruthenian
Rutland
Ruwenzori
Ruysdael
Ruyter
Rwanda
Rwy.
Ryazan
Rybinsk
Ryder
Ryeland
Ryswick
Ryurik
S
S.
S. Dak.
S. of Sol.
S.D.
S.J.
S.J.D.
S.M.
S.P.
S.R.O.
S.T.D.
S.W.A.
S.W.G.
SAM
SAT
SD
SE
SEATO
SG
SHA
SHAEF
SHAPE
SHF
SLR
SOP
SOS
SP
SS
SSE
SSM
SSR
SST
SSW
SW
Saadi
Saar
Saarinen
Sab.
Saba
Sabadell
Sabaean
Sabah
Sabatier
Sabbat
Sabbatarian
Sabbath
Sabbatical
Sabellian
Sabin
Sabine
Sable
Sachsen
Sackville
Sacra Romana Rota
Sacramentarian
Sacred College
Sacred Heart
Sadducee
Sade
Sadi
Safar
Safid Rud
Sagitta
Sagittarius
Saguache
Saguenay
Saguia el Hamra
Sagunto
Sahaptin
Sahara
Saharan
Saharanpur
Saida
Saint Bernard
Saint Patrick's Day
Saint Swithin's Day
Saint Valentine's Day
Saint-Just
Saint-Mihiel
Saint-Pierre
Saint-Simon
Saint-Simonianism
Sainte-Beuve
Saipan
Saiva
Sakai
Sakti
Sal
Saladin
Salado
Salamanca
Salamis
Salem
Salerno
Salford
Salian
Salic
Salinger
Salisbury Plain
Salisbury steak
Salish
Salk
Salk vaccine
Sallust
Salmanazar
Salonika
Salop
Salt Lake City
Salta
Saltillo
Salto
Saluki
Salvador
Salvation Army
Salzburg
Sam.
Sama-Veda
Samara
Samarang
Samaria
Samaritan
Samhita
Samoaan
Samos
Samothrace
Samoyed
Samoyedic
Samson
Samsun
Samuel
San
San Bernardino
San Blas
San Fernando
San Francisco
San Francisco Bay
San Ildefonso
San Jose scale
San Juan
San Juan Islands
San Juan Mountains
San Marino
San Pedro Sula
San Remo
San Salvador
San Stefano
Sanctus
Sanctus bell
Sand
Sandakan
Sandalwood Island
Sandhurst
Sandrocottus
Sandwich Islands
Sandwich glass
Sanger
Sangraal
Sanhedrin
Sankhya
Sanmicheli
Sans.
Sanskrit
Sanskritic
Santa
Santa Ana
Santa Anna
Santa Catalina
Santa Clara
Santa Claus
Santa Cruz
Santa Fe
Santa Gertrudis
Santa Isabel
Santa Maria
Santa Marta
Santayana
Santee
Santiago
Santiago de Cuba
Santiago del Estero
Santo Domingo
Santos-Dumont
Saorstat Eireann
Sapir
Sapphic ode
Sapphira
Saracen
Saragossa
Saransk
Sarasvati
Saratoga trunk
Saratov
Sarawak
Sardanapalus
Sardinia
Sardinian
Sardis
Sardou
Sargasso Sea
Sargent
Sargon II
Sarmatia
Sarmen
Saronic Gulf
Saros
Sarpdedon
Sarraute
Sarre
Sarthe
Sarto
Sartre
Sarum use
Sask.
Saskatchewan
Sassanid
Sasseneach
Sassoon
Sat.
Satan
Satanism
Satsuma
Satsuma ware
Saturday
Saturn
Saturnalia
Saturnian
Sauternes
Sava
Savage
Savaii
Savannah
Savoie
Savona
Savonarola
Savoy
Savoy Alps
Savoyard
Sax.
Saxe-Coburg-Gotha
Saxo Grammaticus
Saxon
Saxony
Sayers
Sazerac
Sb
Se
Scafell Pike
Scaliger
Scamander
Scanderbeg
Scandian
Scandinavia
Scandinavian
Scapa Flow
Scaramouch
Scarborough
Scarlatti
Scarron
Schadenfreude
Schaerbeek
Schaffhausen
Scheldt
Schelling
Schiedam
Schiller
Schlegel
Schleiermacher
Schlesien
Schleswig
Schleswig-Holstein
Schliemann
Schmidt
Schmidt telescope
Schnabel
Schnitzler
Schopenhauer
Schopenhauerism
Schrecklichkeit
Schubert
Schumacher
Schuman
Schutzstaffel
Schwaben
Schwann
Schwarzwald
Schweinfurt
Schweitzer
Schweiz
Schwerin
Scipio
Scopas
Scorpio
Scorpius
Scot
Scot.
Scotch
Scotch broth
Scotch mist
Scotch tape
Scotch terrier
Scotch woodcock
Scotism
Scotland
Scotland Yard
Scots
Scotsman
Scott
Scotticism
Scottie
Scottish
Scottish Gaelic
Scottish terrier
Scotus
Scout
Scrabble
Scranton
Scriabin
Scribe
Script.
Scripture
Serooge
Sculptor
Scutari
Scutum
Scylla
Scyros
Scythia
Se
Sea Islands
Seabee
Seaborg
Sealyham terrier
Seattle
Second Advent
Second Coming
Second Empire
Second International
Second Republic
Secunderabad
Securities and Exchange Commission
Security Council
Sedan
Seddon
Sedgemoor
Seebeck effect
Seeger
Sefer Torah
Seidlitz powders
Seine
Seine-et-Marne
Sejm
Selangor
Selden
Selene
Seleucia
Seleucid
Seljuk
Selkirk Mountains
Seltzer
Sem.
Semang
Semele
Seminole
Semipalatinsk
Semiramis
Semite
Semitic
Semitics
Sempach
Senate
Sendai
Seneca
Senegal
Senegambia
Senghor
Senlac
Sennacherib
Sennar
Seoul
Sepoy Rebellion
Sept.
September
September Massacre
Septembrist
Septuagesima
Septuagint
Sequoia National Park
Serajevo
Serapis
Serb
Serbo-Croatian
Sergipe
Seringapatam
Serpasil
Serpens
Servia
Sessions
Sestos
Set
Seth
Seton
Seurat
Sevastopol
Seven Years' War
Seventh-Day Adventist
Severini
Severn
Severus
Seville
Seville orange
Seward
Seward Peninsula
Sexagesima
Sextans
Seychelles
Sfax
Sforza
Shaban
Shabuoth
Shackleton
Shadrach
Shadwell
Shaftesbury
Shah Jahan
Shahaptian
Shahjahanpur
Shaitan
Shakespearean sonnet
Shakhty
Shakta
Shakti
Shan
Shang
Shanghai
Shangri-la
Shannon
Shantung
Shari
Sharon
Shasta daisy
Shavian
Shaw
Shawnee
Shawwal
Shays
Shcherbakov
Sheba
Shebat
Shechem
Sheerness
Shekinah
Shelley
Shemite
Shensi
Shenyang
Sheol
Shepard
Sherbrooke
Sheridan
Sherman
Sherrington
Sherwood
Shetland
Shetland pony
Shetland sheepdog
Shetland wool
Shevat
Shiah
Shield of David
Shiism
Shiite
Shikoku
Shilha
Shillong
Shiloh
Shinar
Shinto
Shipka Pass
Shiva
Shizuoka
Shluh
Shoa
Sholapur
Sholokhov
Shorter Catechism
Shorthorn
Shoshone
Shoshonean
Shostakovich
Shreveport
Shrewsbury
Shropshire
Shrove Tuesday
Shrovetide
Shufu
Shulamite
Shushan
Shute
Shylock
Si
Sialkot
Siam
Siamese
Siamese cat
Siamese fighting fish
Siamese twins
Sian
Sibelius
Siberia
Sibylline Books
Sicanian
Sicilia
Sicilian Vespers
Sickert
Sicyon
Siddons
Sidi Ifni
Sidney
Sidon
Sidra
Siegbahn
Siege Perilous
Siegfried
Siemens
Siena
Sienese
Sienkiewicz
Sierra Leone
Sierra Madre
Sierra Nevada
Sig.
Sigismund
Sigmund
Signac
Signorelli
Sigurd
Sikang
Sikh
Sikhism
Sikkim
Sikorsky
Silastic
Silesia
Siloam
Silures
Silurian
Silvanus
Simchath Torah
Simeon
Simeon Stylites
Simferopol
Simhath Torah
Simla
Simon
Simon Magus
Simon Peter
Simonides
Simple Simon
Sin
Sinai
Sinaloa
Sinatra
Sinclair
Sind
Sindhi
Sing Sing
Singapore
Singer
Singhalese
Singspiel
Sinhalese
Sining
Sinn Fein
Sino-
Sino-Tibetan
Sion
Siouan
Sioux
Siple
Siqueiros
Sir Roger de Coverley
Siracusa
Siraj-ud-daula
Siret
Sirus
Sisera
Sisley
Sismondi
Sistine Chapel
Sisyphean
Sisyphus
Sita
Sitka
Sitsang
Sitter
Sitting Bull
Sitwell
Siva
Sivan
Sivas
Six Day War
Six Nations
Sixtus V
Skara Brae
Skaw
Skelton
Skinner
Skinner box
Skuld
Skye
Skye terrier
Skylab
Skyros
Slav
Slave State
Slavic
Slavism
Slavonic
Slavophile
Slesvig
Sligo
Sloan
Sloppy Joe
Slovak
Slovakia
Slovene
Slovenia
Sm
Smetana
Smith
Smithson
Smithsonian Institution
Smoky Mountains
Smolensk
Smollett
Smuts
Smyrna
Sn
Snake River
Snell's law
Sno-Cat
Snorri Sturluson
Snow
So.
Sobranje
Soche
Sochi
Social Credit
Social Register
Socialist Labor Party
Society Islands
Society of Friends
Society of Jesus
Socinian
Socinus
Socotra
Socrates
Socratic
Socratic irony
Socratic method
Soddy
Sodium Pentothal
Sodom
Soekarno
Soemba
Soembawa
Soenda Islands
Soerabaja
Sofia
Sogdian
Sogdiana
Soho
Soissons
Sokoto
Sokotra
Sol
Sol.
Solent
Soleure
Solferino
Solingen
Solo man
Solomon
Solomon Islands
Solomon's seal
Solon
Solothurn
Solutrean
Solvay process
Solway Firth
Soma
Somali
Somaliland
Somerset
Somme
Somnus
Son
Son of God
Son of Man
Sonora
Soo Canals
Soochow
Soong
Sophia
Sophocles
Sophy
Sorb
Sorbian
Sordello
Sorrento
Sothic year
Soudan
Soul
Sound
Sousa
South
South Africa
South African
South African Dutch
South America
South Arabia
South Australia
South Bend
South Carolina
South China Sea
South Dakota
South Downs
South Georgia
South Island
South Korea
South Pole
South Sea Islands
South Seas
South Shetland Islands
South Shields
South Vietnam
Southdown
Southeast
Southeast Asia Treaty Organization
Southern Alps
Southern Cross
Southern Rhodesia
Southern Yemen
Southerner
Southey
Southport
Southwest
Soutine
Soviet Russia
Soviet Union
Soyuz
Sp.
Spa
Spaak
Spain
Spalato
Spam
Spandau
Spaniard
Spanish
Spanish America
Spanish Armada
Spanish Civil War
Spanish Guinea
Spanish Main
Spanish Morocco
Spanish Sahara
Spanish bayonet
Spanish cedar
Spanish fly
Spanish guitar
Spanish mackerel
Spanish moss
Spanish paprika
Spanish rice
Spanish-American
Spanish-American War
Spartacus
Spartan
Speaker
Speedwriting
Spence
Spencer
Spencerian
Spencerianism
Spender
Spenserian
Spenserian sonnet
Spenserian stanza
Sphinx
Spinoza
Spinozism
Spires
Spirit
Spithead
Spitsbergen
Split
Spock
Spode
Spokane
Sporades
Springfield
Springfield rifle
Sq.
Sr
Sr.
Sra.
Srinagar
Srta.
St.
St. Andrews
St. Ex.
Stabat Mater
Stafford
Staffordshire
Staffordshire terrier
Stakhanovism
Stalinabad
Stalingrad
Stalinism
Stalinist
Stalinsk
Stambul
Stamford
Standard English
Stanford-Binet test
Stanley
Stans
Star Chamber
Star of Bethlehem
Star of David
Star-Spangled Banner
Stara Zagora
Stark
Stars and Stripes
Staten Island
Stationers' Company
Statius
Statue of Liberty
Stavanger
Stavropol
Ste.
Steele
Steen
Stefansson
Steiermark
Stein
Steiner
Stella
Stellite
Sten gun
Stendhal
Stentor
Stephen
Stephenson
Sterlitamak
Stern
Stetson
Stettin
Stevenage
Stevens
Stevenson
Stheno
Stillson wrench
Stilton
Stirling
Stirling's formula
Stockholm
Stockton-on-Tees
Stoic
Stoicism
Stoke-on-Trent
Stokowski
Stone Age
Stonehenge
Storting
Stout
Stowe
Strachey
Stradivari
Stradivarius
Stafford
Straits Settlements
Stralsund
Strasbourg
Stratford-on-Avon
Straus
Stravinsky
Strega
Stromboli
Struma
Stuart
Sunderland
Sundsvall
Sung
Sungari
Sungkiang
Sunnite
Suomi
Suprematism
Supreme Being
Supreme Court
Supreme Court of Judicature
Supreme Soviet
Supt.
Sur
Surakarta
Surat
Suribachi
Surinam
Surinam toad
Surrey
Susa
Susanna
Susian
Susquehanna
Sussex
Sussex spaniel
Sutlej
Sutta Pitaka
Sutton Hoo
Suwannee
Sverdlovsk
Sverige
Sw.
Swadeshi
Swahili
Swanee
Swansea
Swat
Swatow
Swaziland
Swede
Swedenborgian
Swedenborgianism
Swedish
Swedish massage
Swedish mile
Sweet
Swiss
Swiss Guard
Swiss chard
Swiss cheese
Switz.
Switzer
Switzerland
Sybaris
Sydney
Sylvanus
Symonds
Syncom
Synge
Syr.
Syracuse
Syria
Syriac
Syrian
Syrtis Major
Syzran
Szabadka
Szczecin
Szechwan
Szeged
Szombathely
Szymanowski
T
T-bar
T-bone steak
T-group
T-man
T-shirt
T.H.I.
TAT
TC
TD
TKO
TNT
TV
TV dinner
TVA
Ta
Taal
Tabasco
Table Mountain
Tabor
Tabriz
Tacitus
Tacna-Arica
Tadzhik
Taegu
Taejon
Tafilelt
Taft
Tagalog
Tagore
Tahiti
Tahitian
Tahoe
Taichung
Taimyr Peninsula
Taisho
Taiwan
Taiwan Strait
Taj Mahal
Tajo
Takamatsu
Takao
Talbot
Talca
Talcahuano
Taliesin
Tallahassee
Tallinn
Tallis
Talmud
Talmud Torah
Talmudist
Talos
Tamatave
Tamaulipas
Tamburlaine
Tamerlane
Tamil
Tammany Hall
Tammuz
Tampa
Tampere
Tamworth
Tana
Tanach
Tanagra
Tanana
Tanana river
Tancred
Tanga
Tanganyika
Tangier
Tanguy
Tanjore
Tannenberg
Tanta
Tantalus
Tantra
Tanzania
Tao
Taoism
Tara
Taranto
Tarbes
Tarentum
Targum
Tarim
Tarkington
Tarmac
Tarn
Tarn-et-Garonne
Tarnopol
Tarpeia
Tarpeian Rock
Tarragona
Tarrasa
Tarshish
Tarsus
Tartar
Tartarean
Tartarus
Tartary
Tartu
Tartuffe
Tartuffery
Tashi Lama
Tashkent
Tasman
Tasman Sea
Tasmanian devil
Tasmanian wolf
Tass
Tasso
Tatar
Tatary
Tate
Tatra Mountains
Tatum
Taunton
Taurus
Tavel
Taverner
Tawney
Tay-Sachs disease
Taylor
Tb
Tbilisi
Te
Tchad
Te Deum
Teach
Tebet
Technicolor
Tecumseh
Tees
Teflon
Tegucigalpa
Teheran
Tehuantepec
Teide
Tel Aviv
Telamon
Telegonus
Telegu
Telemachus
Telemann
Telephoto
Telescopium
Teletype
Teletypesetter
Tell
Teller
Tellus
Telstar
Telugu
Tempe
Templar
Temple of Artemis
Temuco
Ten Commandments
Tenebrae
Tenedos
Tenerife
Tengri Nor
Teniers
Tenn.
Tennessee
Tennessee Valley Authority
Tennessee Walking Horse
Tenniel
Tennyson
Tepic
Ter Borch
Terai
Terceira
Terence
Tereshkova
Teresina
Tereus
Terni
Ternopil
Terpsichore
Terramycin
Terrier
Terry
Tersanctus
Tertullian
Terylene
Tessin
Testament
Teton Range
Tetragrammaton
Tetzel
Teucer
Teut.
Teutoburger Wald
Teuton
Teutonic
Teutonism
Teutonize
Tevere
Tevet
Tex.
Texas
Texas Rangers
Texas fever
Teyde
Tezel
Th
Th.B.
Th.D.
Thackeray
Thaddeus
Thai
Thailand
Thais
Thales
Thalia
Thames
Thanatos
Thanet
Thant
Thapsus
Thar Desert
Thebaid
Thebes
Themis
Themistocles
Theocritus
Theodora
Theodosius I
Theophilus
Theophrastus
Theotokos
Theravada
Theresa
Thermidor
Thermit
Thermopylae
Thermos
Tbersites
Theseus
Thespian
Thess.
Thessalian
Thessalonians
Thetis
Thimbu
Third International
Third Reich
Third Republic
Thirty Years' War
Thirty-nine Articles
Thisbe
Thomas
Thomas of Woodstock
Thomism
Thompson
Thompson submachine gun
Thomson
Thomson effect
Thor
Thorazine
Thoreau
Thorn
Thorndike
Thorpe
Thorvaldsen
Thoth
Thousand Island dressing
Thousand Islands
Thracian
Thraco-Phrygian
Three Rivers
Thucydides
Thule
Thun
Thuner See
Thurber
Thurgau
Thurs.
Thursday
Thursday Island
Thyestes
Ti
Tiber
Tiberias
Tiberius
Tibetan
Tibeto-Burman
Ticino
Ticonderoga
Tieck
Tien Shan
Tiepolo
Tierra del Fuego
Tiffany glass
Tiflis
Tiglath-pileser I
Tiglath-pileser III
Tigre
Tigrinya
Tijuana
Tilburg
Tillich
Tilsit
Timaru
Timbuktu
Times Square
Timisoara
Timon of Athens
Timor Sea
Timoshenko
Timothy
Timour
Tindal
Tintoretto
Tipperary
Tiresias
Tirich Mir
Tirol
Tiros
Tirpitz
Tirso de Molina
Tiruchirapalli
Tishri
Tisiphone
Tisza
Tit.
Titan
Titanesque
Titania
Titanism
Titanomachy
Tithonus
Titian
Titicaca
Titograd
Titoism
Titus
Tityus
Tiu
Tiv
Tivoli
Tjirebon
TI
Tlaxcala
Tlemcen
Tlingit
Tm
Tob.
Tobey
Tobit
Tobolsk
Tocantins
Tocharian
Todd
Togliatti
Togo
Togoland
Tojo
Tokay
Tokharian
Tokyo
Toledo
Toluca
Tom
Tom Collins
Tom Thumb
Tom and Jerry
Tombouctou
Tommy
Tommy gun
Tomsk
Tonga
Tonkin
Tonle Sap
Toowoomba
Topeka
Tophet
Torah
Torino
Toronto
Torquay
Torquemada
Torrance
Torre del Greco
Torrens
Torres Strait
Torricelli
Torrid Zone
Tortola
Tortuga
Tory
Toryism
Toscana
Toscanini
Toul
Toulon
Toulouse
Toulouse-Lautrec
Touraine
Tourane
Tourcoing
Tournaï
Tourneur
Tours
Toussaint L'Ouverture
Tower of London
Townsville
Toyama
Trabzon
Tractarianism
Trafalgar
Traherne
Trajan
Tralee
Transalpine Gaul
Transcaucasia
Transylvanian Alps
Trapani
Trappist
Travancore
Treasury
Trebizond
Treblinka
Tree
Trengganu
Trentino-Alto Adige
Trento
Trenton
Trevelyan
Treviso
Triangulum Australe
Trichinopoly
Tridentine
Tridentum
Trier
Trieste
Trumurti
Trincomalee
Trinidad
Trinidad and Tobago
Trinitarian
Trinitarianism
Trinity
Trinity Sunday
Tripitaka
Triple Alliance
Triple Entente
Tripoli
Tripolemus
Tripura
Tristan
Tristan da Cunha
Triton
Trivandrum
Trobriand Islands
Trojan
Trojan War
Trollope
Trondheim
Trossachs
Trotskyism
Trotckyist International
Trotskyite
Troy
Troyes
Trudeau
Trujillo
Truman
Truman Doctrine
Tsana
Tasaritsyn
Tshombe
Tsimshian
Tsingyuan
Tsushima
Tswana
Tu.
Tuamotu Archipelago
Tuareg
Tubman
Tucana
Tuck
Tucson
Tudor
Tuesday
Tuinal
Tula
Tunbridge Wells
Tungting
Tungus
Tungusic
Tunis
Tunisia
Tupi
Tupi-Guarani
Tupungato
Turanian
Turco
Turenne
Turgot
Turin
Turk
Turk's-cap lily
Turk's-head
Turk.
Turkestan
Turkey
Turkey red
Turki
Turkic
Turkish
Turkish Empire
Turkish bath
Turkish coffee
Turkish delight
Turkish rug
Turkish tobacco
Turkish towel
Turkmens
Turkoman
Turku
Turner
Turpin
Tuscan
Tuscany
Tuscarora
Tutankhamen
Tutuila
Tver
Twain
Tweed
Tweeddale
Tweedledum and Tweedledee
Tweedsmuir
Twelfth Night
Twelfth tide
Twi
Twickenham
Two Sicilies
Tyburn
Tyche
Tycho
Tyler
Tyndale
Tyndall
Tyndall effect
Tyndareus
Tynwald
Typhoeus
Typhon
Tyr
Tyre
Tyrian
Tyrian purple
Tyrolienne
Tyrone
Tyrr
Tyrrhenian Sea
Tyumen
U
U Thant
U bolt
U-boat
U-turn
U.
U.A.R.
U.C.
U.K.
U.S.
U.S.A.
U.S.S.
U.V.
UAM
UFO
UHF
UN
UNESCO
UNICEF
UPI
UPI
USA
USIA
USM
USN
Ubangi
Ubangi-Shari
Ubiquitarian
Ucayali
Udall
Udine
Ufa
Uganda
Ugaritic
Ugrian
Ugric
Uralian
Uralic
Urania
Uranian
Uranus
Urban II
Urdar
Urdu
Urey
Urfa
Urga
Uriah
Uriel
Urim and Thummim
Urmia
Urquhart
Ursa Major
Ursa Minor
Ursula
Ursulae
Uru.
Uruguay
Urumchi
Ushant
Ushas
Usk
Uspallata Pass
Ust-Kamenogorsk
Utah
Utgard-Loki
Uther
Utica
Uto-Aztecan
Utopia
Utrecht
Utrillo
Uttar Pradesh
Utu
Uxmal
Uzbek
V
V neck
V-1
V-2
V-Day
V-E Day
V-J Day
V-mail
V-shaped
V-type engine
V.
V. Rev.
V.A.
V.C.
V.I.
V.P.
V.R.
V.W.
VAR
VAT
VC
VD
VHF
VIP
VISTA
VLF
VTOL
Va.
Vaal
Vaasa
Vaduz
Vaishnava
Vaisya
Valais
Valdai Hills
Valdemar I
Valence
Valencia
Valenciennes
Valentine
Valentinian I
Valentino
Valera
Valkyrie
Valladolid
Valletta
Valley Forge
Vallombrosa
Valois
Valona
Valparaiso
Van
Van Allen belt
Van Buren
Van Diemen's Land
Van Dyck
Van Gogh
Vance
Vancouver
Vandal
Vanderbilt
Vandyke
Vandyke beard
Vandyke brown
Vandyke collar
Vane
Vanir
Vanity Fair
Vanua Levu
Var
Varanasi
Vardar
Vardhamana
Varese
Vargas
Varityper
Varro
Varuna
Vasco da Gama
Vaseline
Vashti
Vat.
Vatican
Vatican City
Vauban
Vaucluse
Vaud
Vaudois
Vaughan
Vaughan Williams
Veda
Vedanta
Vedda
Vedic
Vega
Veii
Vela
Ven.
Venetia
Venetian
Venetian blind
Venetian glass
Venetian red
Venetic
Venezia Giulia
Venezia Tridentina
Venezuela
Venice
Venite
Venlo
Venn diagram
Ventris
Venturi tube
Venus
Venus's flower basket
Venus's looking-glass
Venus's-flytrap
Venus's-hair
Venusberg
Venusian
Veracruz
Vercelli
Vercingetorix
Verde
Verdun
Vereeniging
Verein
Vergil
Vermeer
Vermont
Verner's law
Vernoleninsk
Verona
Veronese
Verrazano
Verrocchio
Vertumnus
Verulamium
Verwoerd
Vespasian
Vesper
Vespucci
Vesta
Vesuvius
Veterans Administration
Veterans Day
Viborg
Vic.
Vicar of Christ
Vichy
Vicksburg
Vicky
Vistula
Vitebsk
Vitoria
Vitruvius Pollio
Vivian
Viyella
Vladikavkaz
Vladimir
Vladivostok
Vlaminck
Vlissingen
Vltava
Vogul
Volans
Volga
Volgograd
Volkslied
Volsci
Volscian
Volsung
Volsunga Saga
Volta
Voltaire
Volturno
Vorlage
Voronezh
Voroshilov
Voroshilovgrad
Voroshilovsk
Vortumnus
Vosges
Vostok
Votyak
Vouvray
Vries
Vt.
Vuelta Abajo
Vuillard
Vul.
Vulcan
Vulg.
Vulgate
Vulpicula
Vyatka
Vyborg
W
W.
W.A.
W.C.
W.C.T.U.
W.D.
W.I.
W.O.
WAAC
WAAF
WHO
WNW
WRAC
WRAF
Waadt
Waal
Wabash
Wace
Wad Medani
Wadai
Wade
Wadi Halfa
Wafd
Wagga Wagga
Wagner
Wagram
Wahhabi
Waikiki
Wakashan
Wakayama
Wake Island
Wakefield
Waksman
Wal.
Walachia
Waldemar I
Waldenburg
Waldenses
Waldheim
Waldorf salad
Waler
Wales
Walfish Bay
Walhalla
Walkyrie
Wall Street
Wallace
Wallachia
Wallasey
Wallenstein
Waller
Wallis
Walloon
Wallsend
Walpurgis Night
Walsingham
Walter
Walvis Bay
Wandering Jew
Wanderjahr
Wanhsien
Wanne-Eickel
War Between the States
War of 1812
War of Secession
War of the Austrian Succession
War of the Spanish Succession
Warbeck
Ward
Warhol
Warren
Warrington
Wars of the Roses
Warsaw Pact
Warta
Wartburg
Warwick
Warwickshire
Wash
Wash.
Washington
Washington palm
Waterford
Waterloo
Watling Island
Watson
Watt
Watteau
Watts
Watusi
Waugh
Waves
Wayland
Wayne
Waziristan
Wb
Weald
Webb
Weber
Weddell Sea
Wedekind
Wedgwood
Wedgwood blue
Wednesday
Wehrmacht
Weichsel
Weimar Republic
Weimaraner
Weismannism
Weisshorn
Weizmann
Welch
Welles
Wellesley
Wellesz
Wellington boots
Wells
Welsh
Welsh corgi
Welsh dresser
Welsh rabbit
Welsh rarebit
Welsh springer spaniel
Welsh terrier
Weltanschauung
Weltpolitik
Weltenschmerz
Wembley
Wenceslaus
Wend
Wendish
Wensleydale
Wentworth
Wesley
Wesleyan
Wesleyanism
Wessex
West
West Berlin
West Bromwich
West End
West Flanders
West Germanic
West Germany
West Hartlepool
West Irian
West Pakistan
West Point
West Prussia
West Sussex
West Virginia
Western
Western Australia
Western Church
Western Hemisphere
Western Ocean
Western Roman Empire
Western Samoa
Westfalen
Westminster
Westminster Abbey
Westmorland
Westphalia
Wetterhorn
Wexford
Weymouth
Wheatstone bridge
Whig
Whiggism
Whistler
Whit
Whitaker
White House
White Mountains
White Nile
White Russia
White Russian
White Sea
White Volta
Whitechapel
Whitehall
Whitehead
Whitehorse
Whitney
Whitsun
Whitsunday
Whitsuntide
Whittington
Whittle
Whyalla
Wichita
Wick
Wickliffe
Wicklow
Wieland
Wittgenstein
Witwatersrand
Wobbly
Woden
Wolf
Wolfe
Wolff
Wolfram von Eschenbach
Wollongong
Wolof
Wolsey
Wolverhampton
Wood
Woodbridge
Woods
Woolf
Woolley
Woolworth
Worcester
Worcestershire
Wordsworth
World Bank
World Court
World Health Organization
World Series
World War I
World War II
Worms
Worship
Worth
Wotan
Wotton
Wrens
Wright
Wuhan
Wuhu
Wulfilas
Wundt
Wyandotte
Wyatt
Wycliffite
Wye
Wyeth
Wyo.
Wyoming
X
X chromosome
XL
XP
Xanthippe
Xanthus
Xavier
Xe
Xenocrates
Xenophases
Xenophon
Xeres
Xerox
Xerxes I
Xhosa
Ximenes
Xmas
Xn.
Xnty.
Xt.
Xuthus
Y
Y chromosome
Y.
Y.M.C.A.
Y.M.H.A.
Y.T.
Y.W.C.A.
Y.W.H.A.
YHVH
Yahata
Yahrzeit
Yahweh
Yahwistic
Yajur-Veda
Yakut
Yakutsk
Yalta
Yalu
Yama
Yamashita
Yang
Yangtze
Yanina
Yank
Yankee
Yankee Doodle
Yankeeism
Yap
Yarkand
Yukon time
Yurev
Z
Zabrze
Zacatecas
Zacynthus
Zagazig
Zagreb
Zagreus
Zagros Mountains
Zama
Zambia
Zamboanga
Zamora
Zante
Zapata
Zaporozhye
Zarathustra
Zebedee
Zebulun
Zech.
Zechariah
Zeebrugge
Zeeland
Zeeman effect
Zeist
Zeitgeist
Zen
Zend-Avesta
Zeno of Citium
Zeno of Elea
Zenobia
Zeph.
Zephaniah
Zephyrus
Zeppelin
Zermatt
Zetland
Zeus
Zeuxis
Zhdanov
Zhukov
Ziegfeld
Zilpah
Zimbabwe
Zinfandel
Zinovievsk
Zion
ab origine
ab ovo
ab urbe condita
ab-
aba
abaca
abacist
aback
abacus
abaft
abalone
abamp
abampere
abandon
abandoned
abase
abash
abate
abatement
abatis
abattoir
abaxial
abb
abba
abbcy
abbatial
abbess
abbey
abbot
abbreviate
abbreviated
abbreviation
abcoulomb
abdicate
abdication
abdomen
abdominal
abdominous
abduce
abducent nerve
abducent
abduct
abduction
abductor
abeam
abecedarian
abecedarium
abecadary
abnormality
abnormity
aboard
abode
abohm
abolish
abolition
abomasum
abominable
abominate
abomination
aboral
aboriginal
aborigine
aborning
abort
aborticide
abortifacient
abortion
abortionist
abortive
aboulia
abound
about
about ship
about-face
about-ship
above
aboveboard
aboveground
abr.
abracadabra
abradant
abrade
abranchiate
abrasion
abrasive
abraxas
abreact
abreaction
abreast
abri
abridge
abridgment
abroach
abroad
abrogate
abrupt
absorbefacient
absorbent
absorbent cotton
absorber
absorbing
absorptance
absorption
absorption spectrum
absorptivity
absquatulate
abstain
abstemious
abstention
abstergent
abstentionance
abstract
abstract expressionism
abstract noun
abstract of title
abstracted
abstraction
abstractionism
abstractionist
abstriction
abstruse
absurd
absurdity
abulia
abundance
abundant
abundant number
abundant year
abuse
abusive
abut
abutilon
abutment
abuttal
abuttals
abutter
abutting
abuzz
abvolt
abwatt
aby
abysm
abysmal
abyss
abyssal
cacia
academe
academia
academic
academic freedom
academic year
academician
academicism
academy
acaleph
acanthaceous
acantho-
acanthocephalan
acanthoid
acanthopterygian
acanthous
acanthus
acariasis
acaricide
acarid
acaroid
acarology
acarpous
acarus
acatalectic
acaudal
acaulescent
ace.
accede
accel.
accelerando
accelerant
accelerate
acceleration
accelerator
accelerometer
accent
accent mark
accentor
accentual
accentuate
accentuation
accept
acceptable
acceptance
acceptant
acceptation
accepted
accepter
acceptor
access
access time
accessary
accessible
accession
acession number
accessory
accessory nerve
acciaccatura
accidence
accident
accident insurance
accidental
accidie
accipiter
accipitrine
acclaim
acclamation
acclimate
acclimatize
acclivity
accolade
accommodate
accommodating
accommodation
accommodation bill
accommodation ladder
accommodation train
accommodative
accompaniment
accompanist
accompany
accompanyist
accomplice
accomplish
accomplished
accomplishment
accord
accordance
accordant
according
according as
according to
accordingly
accordion
accost
accouchement
accoucheur
account
account book
account current
account for
account payable
account receivable
accountable
accountancy
accountant
accounting
accouplement
accouter
accouterment
accouthe
accredit
acrescent
acrete
accretion
accroach
accrual
accrue
acct.
acculturate
acculturation
acculturize
accumbent
accumulate
accumulation
accumulation point
accumulative
accumulator
accuracy
accurate
accursed
accusal
accusation
accusative
accusatorial
accusatory
accuse
accused
accustom
accustomed
ace
acedia
acentric
acephalous
acerate
acerb
acerbate
acerbic
acerbity
acerose
acervate
acescent
acetabulum
acetal
acetaldehyde
acetamide
acetanilide
acetate
acetate rayon
acetic
acetic acid
acetic anhydride
acetify
aceto-
arctometer
acetone
acetone body
acetophenetidin
acetous
acetum
acetyl
acetylate
acetylicholine
acetylene
acyltide
acetylsalicylic acid
acye-deucy
ache
achene
achieve
achievement
achievement age
achievement quotient
achievement test
achlamydeous
achlorhydria
achondrite
achondroplasia
achromat
achromatic
achromatic lens
achromaticity
achromatin
achromatism
achromatize
achromatous
achromic
acicula
acicular
aciculate
aciculum
acid
acid drop
acid dye
acid rock
acid soil
acid test
acid-fast
acid-forming
acid-head
acidic
acidify
acidimeter
acidimetry
acidity
acidophil
acidophilus milk
acidosis
acidulant
acidulate
acidulent
acidulous
acierate
acinaciform
aciniform
acinus
ack-ack
acknowledge
acknowledgment
aclinic line
acme
acne
acnode
acolyte
aconite
acorn
acorn barnacle
acorn squash
ad rem
ad val.
ad valorem
ad-
ad-lib
adactylous
adage
adagietto
adagio
adamant
adamantine
adamsite
adapt
adaptable
adaptation
adapter
adaptive
adaxial
add
add up
add.
addax
addend
addendum
adder
adder's-mouth
adder's-tongue
addict
addicted
addiction
addictive
adding machine
additament
addition
additional
additive
additory
addle
addlebrained
addlepated
address
addressee
addressing machine
adduce
adduct
adduction
adductor
ademption
adenectomy
adenine
adenitis
ado-
adenocarcinoma
adenoid
adenoidal
adenoidectomy
adenoma
adenosine
adenosine triphosphate
adenovirus
adept
adequacy
adequate
adermin
adhesive
adhere
adherence
adherent
adhesion
adhesive
adhesive plaster
adhesive tape
adhibit
adiabatic
adiaphorism
adiaphorous
adiathermancy
adieu
adipocere
adipose
adipose fin
adit
adj.
adjectivity
adjacency
adjacent
adjectival
adjective
adjoin
adjoining
adjoint
adjourn
adjournment
adjt.
adjudge
adjudicate
adjudication
adjunct
adjunction
adjure
adjust
adjustment
adjutant
adjutant bird
adjutant general
adjuvant
adman
admass
admeasure
admeasurement
adminicle
administer
administrate
administration
administrative
administrator
admirable
admiral
admiralty
admiralty metal
admiration
admire
admissible
admission
admissive
admit
admittance
admittedly
admix
admixture
admonish
admonition
admonitory
adnate
ado
adobe
adobe flat
adolescence
adolescent
adopt
adopted
adoptive
adorable
adoration
aeon
aonian
aer-
aerate
aerator
aeri-
aerial
aerial bomb
aerial ladder
aerial mine
aerial perspective
aerial photograph
aerial torpedo
aerialist
aerie
aerification
aeriform
aerify
aero
aero-
aeroballistics
aerobatics
aerobe
aerobic
aerobiology
aerobiosis
aerodonetics
aerodontia
aerodrome
aerodynamics
aerodyne
aeroembolism
aerogram
aerograph
aerography
aerolite
aerology
aeromancy
aeromarine
aeromechanic
aeromechanics
aeromedical
aerometeorograph
aerometer
aerometry
aeron.
aeronaut
aeronautical engineering
aeronautics
eaeroneurosis
aeropause
eaerophagia
eaerophobia
eaerophone
eaerophyte
aeroplane
aeroscope
aerosol
aerospace
aerosphere
aerostat
aerostatic
aerostatics
aerostation
aerothepapeutics
aerothermodynamics
aerugo
aery
aesthesia
aesthete
aesthetic
aesthetic distance
aesthetically
aestheticism
aesthetics
aestival
aestivate
aestivation
aet.
aether
aetiology
afar
afeard
afebrile
affable
affair
affaire
affaire d'honneur
affairs
affect
affectation
affected
affecting
affection
affectional
affectionate
affective
affenpinscher
afferent
affettuoso
affiance
affianced
affiant
affiche
affidavit
affiliate
affiliation
affinal
affine
affined
affinitive
affinity
affirm
affirmation
affirmative
affirmatory
affix
affixation
afflatus
afflict
affliction
afflictive
affluence
affluent
afflux
afford
afforest
affranchise
affray
affricate
affricative
affright
affront
affusion
afghan
afghani
aficionado
afield
afire
aflame
afloat
aflutter
afoot
afore
aforementioned
aforesaid
aforethought
aforetime
afoul
afraid
afreet
afresh
afrit
aft
after
after-dinner
afterbirth
afterbody
afterbrain
afterburner
afterburning
aftercare
afterclap
afterdamp
afterdeck
aftereffect
afterglow
aftergrowth
afterguard
afterheat
afterimage
afterlife
aftermath
aftermost
afternoon
afternoon tea
afternoons
afterpiece
aftersensation
aftershaft
aftershock
aftertaste
afterthought
aftertime
afterward
afterwards
afterword
afterworld
afteryears
aftmost
aga
again
against
agalloch
agama
agamete
agamic
agamogenesis
agapanthus
agape
agar
agamic
agamet
agate line
agateware
agave
agecy.
age
age of consent
age of discretion
age-old
aged
agee
ageless
agency
agenda
agenesis
agent
agent provocateur
agential
agentival
agentive
ageratum
agger
aggiornamento
agglomerate
agglomeration
agglutinate
agglutination
agglutinative
agglutinin
agglutinogen
aggrade
aggrandize
aggravate
aggravation
aggregate
aggregation
aggress
aggression
aggressive
aggressor
aggrieve
aggrieved
agha
aghastr
age
agility
agio
agiotage
agist
agitate
agitation
agitato
agitat
agitator
agitprop
agleam
aglet
agley
aglimmer
aglitter
aglow
agma
agminate
agnail
agnate
agnomen
agnosia
agnostic
agnosticism
ago
agog
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agon
agora
agoraphobia
agouti
agr.
agaffe
agranulocytosis
agrapha
agraphia
agrarian
agree
agreeable
agreed
agreement
agrestic
agribusiness
agric.
agriculture
agriculturist
agrimony
agro-
agrobiology
agrology
agron.
agronomics
agronomy
agrostology
aground
ague
agueweed
aguish
ah
aha
ahead
ahem
ahimsa
ahoy
ai
aid
aide
aide-de-camp
aiglet
aigrette
aiguille
aiguillette
aikido
ail
ailanthus
aileron
aileron roll
ailing
ailment
ailurophile
ailurophobe
aim
aimless
ain
ain't
air
air alert
air bag
air base
air bed
air bladder
air brake
air cargo
air coach
air conditioner
air conditioning
air cover
air curtain
air cushion
air cylinder
air drill
air fleet
air force
air gas
air gun
air hammer
air hole
air jacket
air lane
air letter
air line
air log
air mass
air mile
air plant
air pocket
air power
air pump
air raid
air rifle
air route
air sac
air scoop
air service
air shaft
air sleeve
air sock
air space
air spring
albite
album
albumen
albumenize
albumin
albuminate
albuminoid
albuminous
albuminuria
albumose
albumurn
alcahest
alcaide
alcalde
alcazar
alchemist
alchemize
alchemy
alcheringa
alcohol
alcoholic
alcoholicity
alcoholism
alcoholize
alcoholometer
alcove
aldehyde
alder
alder buckthorn
alderman
aldol
aldose
aldosterone
aldrin
ale
aleatory
alectryomancy
alee
alegar
alehouse
alembic
aleph
aleph-null
alerion
alert
aleuromancy
aleurone
alevin
alewife
alexandrite
alexia
alexin
alexipharmic
alfalfa
alfilaria
alforja
alfresco
alg.
alg.
alga
algae
algarroba
algebra
algebraic
algebraic number
algebraist
alglesia
algetic
algicide
algid
algin
alginate
alginate acid
algo-
algod
algolagnia
algology
algometer
algophobia
algor
algorithm
alias
alibi
alible
alicyclic
alidade
alien
alienable
alienage
alienate
alienation
alienee
alienism
alienist
alienor
aliform
alight
align
alignment
alike
aliment
alimentary
alimentary canal
alimentation
alimony
aline
aliped
aliphatic
aliquant
aliquot
alit
aliunde
alive
alizarin
alk.
alkahest
alkali
alkali disease
alkali flat
alkali metal
alkali soil
alkalify
alkalimeter
alkaline
alkaline earth
alkalinity
alkalinize
alkalize
alkaloid
alkalosis
alkane
alkanet
alkene
alkyd
alkyd resin
alkyl
alkylation
alkyne
all
all clear
all fours
all hail
all in
all right
all-
all-American
all-around
all-embracing
all-fired
all-important
all-inclusive
all-night
all-out
all-powerful
all-purpose
all-round
all-star
all-time
alla breve
alla prima
allanite
allantoid
allantois
allargando
allative
allay
allegation
allege
alleged
allegedly
allegiance
allegorical
allegorist
allegorize
allegory
allegretto
allegro
allele
allelomorph
alleluia
allemande
allergen
allergic
allergist
allergy
allethrin
alleviate
alleviation
alleviative
alleviator
alley
alley cat
alleyway
allheal
alliaceous
alliance
allied
allies
alligator
alligator lizard
alligator pear
alligator wrench
alliterate
alliteration
alliterative
allium
allness
allo-
allocation
allochthonous
allocution
alodial
alodium
allogamy
allograph
allomerism
allometry
allomorph
allomorphism
allonge
allonym
allopath
alopatric
allophane
allophone
alloplasm
allot
allotment
allotrope
allotropy
allottee
allover
allow
allowable
allowance
allowed
allowedly
alloy
alloy steel
allseed
allspice
allude
allure
allurement
alluring
allusion
allusive
alluvial
alluvial fan
alluvion
alluvium
ally
allyl
allyl alcohol
allyl resin
alma mater
almanac
almamintine
alnemar
almighty
almond
almond oil
almond-eyed
almoner
almonry
almost
alms
almmsgiver
almshouse
almssman
almsswoman
almucantar
almuce
alodium
aloe
aloes
aloeswood
aloft
aloha
aloin
alone
along
alongshore
alongside
aloof
alopecia
aloud
alow
alp
alpaca
alpenglow
alpenhorn
alpenstock
alpestrine
alpha
alpha and omega
alpha decay
alpha iron
alpha particle
alpha ray
alpha test
alphabet
alphabetic
alphabetical
alphabetize
alphanumeric
alphitomancy
alphorn
alphosis
alpine
alpine garden
alpinist
already
alright
also
also-ran
alt
alt.
altar
altar boy
altar bread
altar cloth
altar rail
altar stone
altar wine
altarpiece
altazimuth
alter
alter ego
alterable
alterant
alteration
alternative
altercate
altercation
altered chord
alternant
alternate
alternate angles
alternately
alternating current
alternating personality
alternation
alternation of generations
alternative
alternator
althon
although
alti-
altigraph
altimeter
altimetry
altissimo
altitude
alto
alto clef
alto horn
alto-
alto-relievo
alto-rilievo
altocumulus
altogether
altostratus
altricial
altruism
altruist
altruistic
aludel
alula
alum
alum.
alumina
aluminate
aluminiferous
aluminium
aluminize
aluminothermy
aluminous
aluminum
aluminum bronze
aluminum oxide
alumna
alumnus
alumroot
alunite
alveolar
alveolar ridge
alveolate
alveolus
alvine
always
alyssum
am
amadavat
amadou
amah
amain
amalgam
amalgamate
amalgamation
amandine
amanita
amanuensis
amaranth
amaranthaceous
amaranthine
amarelle
amaryllidaceous
amaryllis
amass
amateur
amateurish
amateurism
amative
amatol
amatory
amaurosis
amaze
amazed
amazement
amazing
amazon
amazonite
ambages
ambagious
ambary
ambassador
ambassador-at-large
ambassador
amber
amendment
amends
amenity
ament
amentia
amerce
americium
amesace
amethyst
ametropia
ami
amiable
amianthus
amicable
amice
amicus curiae
amid
amidase
amide
amido-
amidships
amidst
amie
amigo
amimia
amine
amino
amino acid
amino resin
amino-
aminobenzoic acid
aminoplast
aminopyrine
amir
amiss
amitosis
amity
ammeter
ammine
ammo
ammonal
ammonate
ammonia
ammonia solution
ammoniac
ammoniacal
ammoniate
ammonic
ammonify
ammonite
ammonium
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium hydroxide
ammonium nitrate
ammunition
amnesia
amnesty
amniocentesis
ammion
amoeba
amoebaean
amoebic
amoebic dysentery
amoebocyte
amoeboid
amok
among
amongst
amontillado
amor patriae
amoral
amoretto
amorino
amorist
amoroso
amorous
amorphism
amorphous
amortization
amortize
amortizement
amount
amour
amour-propre
amp.
ampeolopsis
amperage
ampere
ampere-hour
ampere-turn
ampersand
amphetaamine
amphi-
amphiarthrosis
amphiaster
amphibian
amphibiotic
amphibious
amphibole
amphibolite
amphibology
amphibolous
amphiboly
amphibrach
amphichroic
amphicoelous
amphictyon
amphicyton
amphidiploid
amphigory
amphimacer
amphinixis
amphioxus
amphipod
amphiprostyle
amphisbaena
amphistylar
amphitheater
amphithecium
amphitropous
amphora
amphoteric
ample
amplexicaul
ampliate
amplification
amplifier
amplify
amplitude
amplitude modulation
amply
ampoule
ampulla
amputate
amputee
amrita
amt.
amu
amuck
amulet
amuse
amused
amusement
amusement park
amusement tax
amusing
amygdala
amygdalate
amygdalin
amygdaline
amygdaloid
amyl
amyl acetate
amyl alcohol
amyl nitrite
amylaceous
amylace
amylen
amylo-
amyloid
amyloysis
amylopectin
amylopsin
amylose
amyllum
amyotonia
an
an’t
an-
an.
an
ana-
anabaena
anabantid
anabas
anabasis
anabatic
anabiosis
anabolism
anabolite
anabran
anacardiaceous
anachronism
anachronistic
anachronous
anaclinal
anaclitic
anacluthia
anacluthon
anaconda
anacrusis
anadem
anadiptosis
anadromous
anaemia
anaemic
anaerobe
anaerobic
anaesthesia
anaesthesiology
anaesthetize
anaglyph
anagnorisis
anagoge
anagram
anagrammatize
anal
anal fin
anal intercourse
anal.
analcite
anelects
analemma
analeptic
analgesia
analgesic
analog
analog computer
analogical
analogize
analogous
analogue
analogy
analphabetical
analysand
analyse
analysis
analysis of variance
analysis situs
analyst
analytic
analytic geometry
analyze
analyzer
anamnesis
anamorphic
anamorphism
anamorphoscope
anamorphosis
anandrous
ananthous
anapest
anaphase
anaphora
anaphrodisiac
anaphylaxis
anaplastic
anaplasty
anapyxis
anarch
anarchic
anarchism
anarchist
anarchy
anarthria
anarthrous
anasarca
anastigmat
anastigmatic
anastomose
anastomosis
anastrophe
anat.
anatase
anathema
anathematize
anatomical
anatomist
anatomize
anatomy
anatropous
anatto
ancestor
ancestral
ancestress
ancestry
anchor
anchor deck
anchor ice
anchor light
anchor man
anchor ring
anchor watch
anchorage
anchoress
anchorite
anchoveta
anchovy
anchovy pear
anchusin
anchylose
ancienne noblesse
ancient
ancient history
anciently
ancilla
ancillary
ancipital
ancon
ancona
ancylostomiasis
and
and/or
andalusite
andante
andantino
andesine
andesite
andiron
andradite
andro-
androclinium
androecium
androgen
androgyne
androgynous
android
androsphinx
androsterone
ane
anear
anecdotage
anecdotal
anecdote
anecdotic
anecdotist
anechoic
anelace
anele
anemia
anemic
anemo-
anemochore
anemograph
anemography
anemology
anemometer
anemometry
anemone
anemophilous
anemoscope
anent
anergy
aneroid
aneroid barometer
aneroidograph
anesthesia
anesthesiologist
anesthesiology
anesthetic
anesthetist
anesthetize
anethole
aneurin
aneurysm
anew
anfractuosity
anfractuous
angary
angel
angel cake
angel food cake
angel shark
angelfish
angelic
angelica
angelology
anger
angina
angina pectoris
angio-
angiology
angioma
angiosperm
angle
angle bracket
angle iron
angle of attack
angle of bank
angle of deviation
angle of dip
angle of incidence
angle of pitch
angle of reflection
angle of refraction
angle of roll
angle plate
angler
anglesite
angleworm
anglicize
angling
angora
angostura bark
angry
angry young man
angst
angstrom
anguilliform
anguine
anguish
anguished
angular
angular acceleration
angular momentum
angular velocity
angularity
angulate
angulation
angwantibo
anhedral
anhinga
anhydride
anhydrous
ani
aniconic
anil
anile
aniline
aniline black
aniline dye
anility
anim.
anima
animadversion
animadvert
animal
animal heat
animal husbandry
animal kingdom
animal magnetism
animal spirits
animal starch
animalcule
animalism
animalist
animality
animalize
animate
animated
animated cartoon
animation
animatism
animato
animator
animism
animosity
animus
anion
anise
aniseed
aniseikonia
anisette
aniso-
anisole
anisomerous
anisometric
anisometropia
anisotropic
ankerite
ankh
ankle
ankle-deep
anklebone
anklet
ankus
ankylosaur
ankylose
ankylosis
ankylostomiasis
anlace
anlage
ann.
anna
annabergite
annal
annalist
anole
anomalism
anomalistic
anomalistic month
anomalistic year
anomalous
anomaly
anomie
anon
anon.
anonym
anonymous
anopheles
anorak
anorexia
anorexia nervosa
anorthic
anorthite
anorthosite
anosmia
another
anoxemia
anoxia
ansate
anserine
answer
answer for
answerable
ant
ant bear
ant hill
ant-
ant.
anta
antacid
antagonism
antagonist
antagonistic
antagonize
antalkali
antarctic
ante
ante meridiem
ante-
ante-bellum
ante-mortem
anteater
antebellum
antecede
antecedence
antcedency
antecedent
antecedents
antechamber
antechoir
antedate
antediluvian
antefix
antelope
antemeridian
antemundane
antenatal
antenna
antenna array
antennule
antepast
antependium
antepenult
anterior
anteroom
antetype
anteversion
antevert
anthelion
anthelmintic
anthem
anthemion
anther
antheridium
antherozoid
anthesis
anthill
antho-
anthocyanin
anthodium
anthologize
anthology
anthophore
anthotaxy
anthozoan
anthracene
anthracite
anthracnose
anthracoid
anthracosilicosis
anthracosis
anthraquinone
anthrax
anthrop.
anthropo-
anthropocentric
anthropogenesis
anthropogeography
anthropography
anthropoid
anthropoid ape
anthropol.
anthropolatry
anthropologist
anthropology
anthropometry
anthropomorphic
anthropomorphism
anthropomorphize
anthropomorphosis
anthropomorphous
anthropopathy
anthropophagi
anthropophagite
anthropophagy
anthroposophy
anthurium
anti
anti-
anti-G suit
anti-Semite
anti-icer
antiar
antibaryon
antibiosis
antibiotic
antibody
antic
anticatalyst
anticathexis
anticathode
anticlorantichlor
anticholinergic
anticipant
anticipate
anticipation
anticipative
anticipatory
anticlastic
anticlerical
anticlimax
anticlinal
anticline
anticlinorium
anticlockwise
anticoagulant
anticyclone
antidepressant
antidiseaseantarianism
antidote
antidromic
antifebrile
antifouling
antifouling paint
antifreeze
antifriction
antigen
antigorite
antihalation
antihelix
antihero
antihistamine
antiknock
antilepton
antilog
antilogarithm
antilogism
antilogy
antimacassar
antimagnetic
antimalarial
antimasque
antimatter
antimere
antimicrobial
antimissile
antimissile missile
antimoniac
antimonious
antimony
antimony potassium tartrate
antimonyl
antineutrino
antineutron
anting
antinode
antinomian
antinomy
antinucleon
antioxidant
antiparallel
antiparticle
antipasto
antipathetic
antipathy
antiperiodic
antiperistalsis
antipersonnel
antiperspirant
antiphlogistic
antiphon
antiphonal
antiphonary
antiphony
antiphrasis
antipodal
antipode
antipodes
antipole
antipope
antiproton
antipyretic
antipyrine
antiq.
antiquarian
antiquary
antiquate
antiquated
antique
antiquity
antirachitic
antirrhinum
antiscorbutic
antisepsis
antiseptic
antisepticize
antiserum
antislavery
antisocial
antispasmodic
antistrophe
antisyphilitic
antitank
antithesis
antitoxic
antitoxin
antitrades
antitragus
antitrust
antitype
antivenin
antworld
antler
antlia
antlion
antonomasia
antonym
antre
antrorse
antrum
anuran
anuria
anurous
anus
anvil
anxiety
anxious
anxious seat
any
anybody
anyhow
anyone
anyplace
anything
anytime
anyway
anyways
anywhere
anywheres
anywise
aorist
aoristic
aorta
aortic insufficiency
aortic stenosis
aoudad
ap-
apace
apache
apache dance
apanage
aparejo
apart
apartheid
apartment
apartment house
apatetic
apatheic
apathy
apatite
ape
ape-man
apeak
aperient
aperiodic
aperture
apery
apetalous
apex
aphaeresis
aphanite
aphasia
aphasic
aphelion
apheliotropic
aphesis
aphid
aphis
aphonia
aphonic
aphorism
aphoristic
aphorize
aphotic
aphrodisia
aphrodisiac
aphthous fever
aphyllous
apian
apiarian
apiarist
apiary
apical
apices
apiculate
apiculture
apiece
apish
apivorous
aplacental
aplanatic
aplanospore
aplasia
aplastic anemia
aplenty
aplite
aplomb
apnea
apo-
apocalypse
apocalyptical
apocarp
apocardous
apochromatic
apocopate
apocope
apocrine
apocryphal
apocynaceous
apocynthion
apodal
apodictic
apodosis
apoenzyme
apogamy
apogee
apogeotropism
apogaph
apolitical
apologete
apologetic
apologetics
apologia
apologist
apologize
apologue
apology
apolune
apomict
apomixis
apomorphine
aponeurosis
apopemptic
apophasis
apophthegm
apophyge
apophyllite
apophasis
apoplectic
apoplexy
aporia
aport
aposematic
aposiopesis
apospory
apostasy
apostate
apostatize
apostil
apostle
apostolate
apostolic
apostolic delegate
apostrophe
apostrophize
apothecaries' measure
apothecaries' weight
apothecary
apothecium
apothegm
apothem
apotheosis
apotheosize
apotropaic
app.
appal
appall
appalling
appanage
apparatus
apparatus criticus
apparel
apparent
apparent horizon
apparent magnitude
apparent time
apparent wind
apparition
apparitor
appassionato
appeal
appealing
appear
appearance
appease
appeasement
appel
appellant
appellate
appellation
appellative
appellee
append
appendage
appendant
appendectomy
appendicectomy
appendicitis
appendicle
appendicular
appendix
apperceive
apperception
appertain
appetence
appetency
appetite
appetitive
appetizer
appetizing
applaud
applause
apple
apple brandy
apple butter
apple green
apple of discord
apple-pie bed
apple-pie order
applecart
applejack
apples
apples and pears
applesauce
appliance
applicable
applicant
application
applicative
applicator
applicatory
applied
applique
apply
appoggiatura
appoint
appointed
appointee
appointive
appointment
appointor
apportion
apportionment
appose
apposite
apposition
appositive
appraisal
appraise
appreciable
appreciate
appreciation
appreciative
apprehend
apprehensible
apprehension
apprehensive
apprentice
appressed
apprise
approach
approachable
approbate
approbation
appropriate
appropriation
approval
approve
approved school
approver
approx.
approximal
approximate
approximation
appulse
appurtenance
appurtenant
apraxia
apricot
apriorism
apron
apron stage
apropos
apse
apsis
apt
apt.
apteral
apterous
apterygial
apteryx
aptitude
aptitude test
apyretic
aqua
aqua ammoniae
aqua fortis
aqua regia
aqua vitae
aquacade
aqualung
aquamanile
aquamarine
aquanaut
aquaplane
aquarelle
aquarist
aquarium
aquatic
aquatint
aquavit
aqueduct
aqueous
aqueous ammonia
aquiculture
aquifer
aquilegia
aquiline
aquiver
ar.
arabesque
arabinose
arable
araceous
arachnid
arachnoid
aragonite
arak
araliaceous
arapaima
araroba
archdeaconry
archdiocese
archducal
archduchess
archduchy
archduke
arched
archegonium
archenemy
archenteron
archeology
archer
archerfish
archery
archesporal
archetype
archfiend
archi-
archicarp
archidiaconal
archiepiscopacy
archiepiscopal
archiepiscopate
archil
archimage
archimandrite
archine
arching
archipelago
archiphoneme
archiplasm
archit.
architect
architectonic
architectonics
architectural
architecture
architrave
archival
archive
archives
archivist
archivolt
archlute
archon
archoplasm
archpriest
archt.
archway
archiform
arciform
arcograph
arctic
arctic fox
arcuate
arcuation
ardeb
ardency
ardent
ardent spirits
ardor
arduous
are
area
area bombing
area code
areaway
areca
aren't
arena
arena theater
arenaceous
arenicolous
areola
arethusa
argal
argali
argent
argentic
argentiferous
argentine
argentite
argentous
argentum
argil
argillaceous
argilliferous
argillite
arginine
argol
argon
argosy
argot
arguable
argue
argufy
argument
argumentation
argumentative
argumentum
argumentum ad hominem
argy-bargy
argyle
aria
aria da capo
arid
ariel
arietta
aright
aril
arillode
ariose
arioso
arise
arista
aristate
aristocracy
aristocrat
aristocratic
arithmetic
arithmetic mean
arithmetic progression
arithmetician
arithmomancy
ark
arkose
arm
armada
armadillo
armament
armature
armchair
armed
armed forces
armed neutrality
armes parlantes
armet
armful
armhole
armiger
armilla
armillary
armillary sphere
arming
armipotent
armistice
armlet
armoire
armor
armor plate
armored
armored cable
armored car
armorer
armorial
armorial bearings
armory
armour
armoured
armourer
armoury
armpit
armrest
arms
arms race
armure
army
army ant
army corps
army group
armyworm
arnica
aroid
aroma
aromatic
aromaticity
aromatize
arose
around
arouse
arpeggio
arpent
arquebus
arr.
arack
arraign
arraignment
arrange
arrangement
arrant
arras
array
arrear
arrearage
arrears
arrest
arrester
arresting
arresting gear
arrestment
arrhythmia
arris
arrival
arrive
arrivederci
arriviste
arroba
arrogance
arrogant
arrogate
arrondissement
arrow
arrowhead
arrowroot
arrowwood
arrowworm
arrowy
arroyo
ars poetica
arse
arsenal
arsenate
arsenic
arsenic acid
arsenic trioxide
arsenical
arsenide
arsenious
arsenite
arsenopyrite
arsine
arsis
arson
arsonist
arsphenamine
arsy-varsy
art
art paper
art song
art.
artefact
artel
artemisia
arterial
arterialize
arterio-
arteriole
arteriosclerosis
arteriotomy
arteriovenous
arteritis
artery
artesian well
artful
arthralgia
arthritus
arthro-
arthromere
arthropod
arthrospore
artichoke
article
article of faith
articular
articulate
articulation
articulator
articulatory phonetics
artifact
artifice
artificer
artificial
artificial horizon
artificial insemination
artificial kidney
artificial language
artificial magnet
artificial radioactivity
artificial respiration
artificiality
artillery
artillery plant
artilleryman
artiodactyl
artisan
artist
artiste
artistic
artistry
aesthetic
asexual
ash
ash blond
ash gray
ashamed
ashcan
ashen
ashes
ashlar
ashlaring
ashore
ashram
ashtray
ashy
aside
asinine
ask
ask for
askance
askew
asking price
aslan
asleep
aslope
asocial
asomatous
asp
asparagine
asparagus
aspartic acid
aspect
aspect ratio
aspectual
aspen
asper
aspergillosis
aspergillum
aspergillus
asperity
asperse
aspiration
aspersorium
asphalt
asphaltite
asphodel
asphyxia
asphyxiant
assiduous
assign
assignable
assignat
assignation
assignee
assignment
assignor
assimilable
assimilate
assimilation
assimilative
assist
assistance
assistant
assistant professor
assize
assizes
assn.
assoc.
associate
associate professor
association
association football
association of ideas
associationism
associative
assoil
assonance
assort
assorted
assortment
asst.
assuage
assuasive
assume
assumed
assumed bond
assuming
assumpsit
assumption
assumptive
assurance
assure
assured
assurgent
astatic
astatine
astrol.
astrolabe
astrology
astromancy
astrometry
astronaut
astronautics
astronavigation
astronomer
astronomical
astronomical clock
astronomical telescope
astronomical unit
astronomical year
astronomy
astrophotography
astrophysics
astrosphere
astute
astylar
asunder
aswarm
asyllabic
asylum
asymmetric
asymmetry
asymptomatic
asymptote
asymptotic
asynchronism
asyndeton
at
at-home
at.
at. no.
at. wt.
ataghan
ataman
ataractic
ataraxia
atarvism
atavistic
ataxia
ate
atelectasis
atelier
athanasia
athanor
atheism
atheist
atheistic
atheling
athematic
athenaeum
atheroma
atherosclerosis
athirst
athlete
athlete's foot
athletic
athletic supporter
athletics
athodyd
athwart
athwartships
atilt
atingle
atiptoe
atlantes
atlas
atm.
atman
atmo-
atmolysis
atmometer
atmosphere
atmospheric
atmospheric electricity
atmospheric perspective
atmospheric pressure
atmospherics
atoll
atom
atom bomb
atom smasher
atom-bomb
atomic
atomic age
atomic bomb
atomic clock
atomic cocktail
atomic energy
atomic heat
atomic mass
atomic mass unit
atomic number
auberge
aubergine
auburn
auction
auction bridge
auctioneer
auctorial
aud.
audacious
audacity
audible
audience
audient
audile
audio
audio frequency
audio-
audio-visual
audiogenic
audiology
audiometer
audiophile
audiovisual
audiphone
audit
audition
auditor
auditorium
auditory
auf Wiedersehen
aug.
augend
auger
auger bit
aught
augite
augment
augmentation
augmentative
augmented
augmenter
augur
augury
august
auk
auklet
auld
auld lang syne
auxiliary language
auxiliary verb
auxin
auxochrome
av.
avadavat
avail
availability
available
avalanche
avant-garde
avarice
avaricious
avast
avatar
avaunt
avdp.
ave
avenge
avens
aventurine
avenue
aver
average
averment
averse
aversion
avert
avg.
avian
aviary
aviate
aviation
aviation badge
aviation cadet
aviation medicine
aviator
aviatrix
aviciculture
avid
avidin
avidity
avifauna
avigation
avion
avionics
avirulent
avitaminosis
avn.
avocado
avocation
avocet
avoid
avoidance
avoir.
avoidedupois
avouch
avow
avowal
avowed
avulsion
avuncular
avunculate
aw
await
awake
awaken
awakening
award
aware
awash
away
awe
awe-inspiring
awes
awe
awe
awe
awe
awelist
awestricken
awful
awfully
awhile
awhirl
awkward
awkward age
awl
awlwort
awn
awning
awoke
awry
ax
ax.
axe
axenic
baculiform
bad
bad blood
bad check
bad debt
bad time
bad-mouth
bad-tempered
badderlocks
baddie
bade
badge
badger
badinage
badlands
badly
badman
badminton
bael
baffle
bag
bagasse
bagatelle
bagel
baggage
baggage car
bagging
baggy
baggywrinkle
bagman
bagnio
bagpipe
baggpiges
bags
baguette
baguio
bagwig
bagworm
bah
bahadur
baht
bahuvrihi
bail
bail bond
bailable
bailee
bailey
bailie
bailiff
bailiwick
bailment
bailor
bailsman
bain-marie
bainite
bairn
bait
baize
bake
baked Alaska
baked beans
bakehouse
baker
baker's dozen
bakery
baking
baking powder
baking soda
baklava
baksheesh
bal
bal.
balalaika
balance
balance lug
balance of payments
balance of power
balance of trade
balance rudder
balance sheet
balance spring
balance wheel
balanced
balancer
balas
balata
balboa
balbriggan
balcony
bald
bald cypress
bald eagle
baldachin
balderdash
baldhead
baldheaded
baldpate
baldric
bale
baleen
baleen whale
balefire
baleful
baler
balk
balky
ball
ball and chain
ball bearing
ball boy
ball cock
ball game
ball lightning
ball mill
ball of fire
ball valve
ball-and-socket joint
ball-peen hammer
ballad
ballad opera
ballad stanza
ballade
balladeer
balladist
balladmonger
balladry
ballast
ballata
ballerina
ballet
ballflower
ballista
ballistic
ballistic galvanometer
ballistic missile
ballistics
ballocks
ballon
ballon d'essai
ballonet
balloon
balloon jib
balloon sail
balloon tire
bandanna
bandbox
bandeau
banded
banderilla
banderillero
bandero
bandicoot
bandit
banditry
bandmaster
bandog
bandoleer
bandolier
bandoline
bandore
bandsman
bandstand
bandurria
bandwagon
bandwidth
bandy
bandy-legged
bane
banberry
baneful
bang
bang on
bang-up
bangalore torpedo
banger
bangle
bangtail
bani
banian
banish
banister
banjo
bank
bank acceptance
bank account
bank balance
bank bill
bank check
bank clerk
bank discount
bank examiner
bank holiday
bar magnet
bar mitzvah
bar sinister
bar.
barathea
barb
barbarian
barbaric
barbarism
barbarity
barbarize
barbarous
barbate
barbecue
barbecue sauce
barbed
barbed wire
barbel
barbell
barbellate
barber
barber chair
barber's itch
barberry
barbershop
barbet
barbette
barbican
barbicel
barbital
barbitone
barbiturate
barbituric acid
barbiturism
barbule
barbwire
barcarole
barchan
bard
barde
bare
bare-handed
bareback
barefaced
barefoot
barehanded
bareheaded
barely
barometric pressure
barometrograph
barometry
baron
baron of beef
baronage
baroness
baronet
baronetage
baronetcy
barong
barony
baroque
baroque organ
baroscope
barouche
barque
barquentine
barrack
barracks
barracks bag
barracoon
barracuda
barrage
barrage balloon
barramunda
barranca
barrator
barratry
barre
barred
barrel
barrel chair
barrel organ
barrel roll
barrel vault
barrel-chested
barrelhouse
barren
barrens
barret
barrette
barretter
barricade
barrier
barrier reef
barring
basic anhydride
basic slag
basically
basicity
basidiomycete
basidiospore
basidium
basified
basil
basilar
basilic vein
basilica
basilisk
basin
basinet
basion
basipetal
basis
bask
basket
basket chair
basket fern
basket hilt
basket weave
basket-handle arch
basketball
basketry
basketwork
basking shark
basophil
bass
bass clef
bass drum
bass guitar
bass horn
bass viol
bassarisk
basset
basset horn
bassinet
bassist
basso
basso cantante
basso continuo
basso profundo
basso-rilievo
bassoon
basswood
bast
bastard
bastard measles
bastard title
bastard wing
bastardize
bastardy
baste
bastille
bastinado
basting
bastion
bat
batch
bate
bateau
batfish
batfowl
bath
bath salts
bath towel
bathe
bathetic
bathhouse
bathing beauty
bathing suit
batho-
batholith
bathometer
bathos
bathrobe
bathroom
bathtub
bathtub gin
bathy-
bathyal
bathymetry
bathypelagic
bathyscaphe
bathysphere
batik
batiste
batman
baton
batrachian
bats
batsman
batt
bay window
bayadere
bayard
bayberry
bayonet
bayou
baywood
bazaar
bazooka
bbl.
bd.
bd. ft.
bdellium
bdl.
be
be-
be-all and end-all
beach
beach ball
beach buggy
beach flea
beach grass
beach plum
beach umbrella
beach wagon
beachcomber
beachhead
beacon
bead
bead-ruby
beaded
beading
beadle
beadledom
beadroll
beadsman
beady
beagle
beak
beaker
beam
beam antenna
beam compass
beam wind
beam-ends
beam-power tube
beaming
beamy
bean
bean caper
bean sprout
bean tree
beanery
beanfeast
beanie
beano
beanpole
beanstalk
bear
bear down
bear garden
bear hug
bear off
bear on
bear out
bear up
bear with
bear's-ear
bear's-foot
bearable
bearberry
bearcat
beard
bearded
bearded darnel
bearded lizard
bearded tit
bearded vulture
beardless
bearer
bearing
bearing plate
bearing rein
bearish
bearskin
bearwood
beast
beast of burden
beastings
beastly
beat
beat down
beat up
beat-up
beaten
beater
beatific
beatification
beatify
beating
beatitude
beatnik
beau
beau geste
beau ideal
beau monde
beaut
beautician
beautiful
beautifully
beautify
beauty
beauty parlor
beauty queen
beauty salon
beauty sleep
beauty spot
beaux
beaver
beaverette
bebeerine
bebeeru
bebop
becalm
becalmed
became
because
beccafico
bechance
becharm
beck
becket
becket bend
beckon
becloud
become
becoming
bed
bed and board
bed chair
bed jacket
bed linen
bed of roses
bedabble
bedaub
bedazzle
bedbug
bedchamber
bedclothes
bedcover
bedder
bedding
bedeck
bedel
bedesman
bedevil
bedew
bedfast
bedfellow
bedight
bedim
bedizen
bedlam
bedlamite
bedmate
bedpan
bedplate
bedpost
bedrabbles
bedraggle
bedraggled
bedrail
bedridden
bedrock
bedroll
bedroom
bedside
bedsore
bedspread
bedspring
bedstead
bedstraw
bedtime
bedtime story
bedwarmer
bee
bee beetle
bee fly
bee glue
bee killer
bee moth
befriend
befuddle
beg
beg off
began
begat
beget
beggar
beggar's-lice
beggarly
beggarweed
beggary
begin
beginner
beginning
begird
begone
begonia
begorra
begot
begotten
begrime
begudge
beguile
beguine
begum
begun
behalf
behave
behavior
behavior pattern
behavioral science
behaviorism
behead
beheld
behemoth
behest
behind
behindhand
behold
beholden
behoof
behoove
beige
being
bejewel
bel
bel canto
benefic
benefice
beneficence
beneficent
beneficial
beneficiary
benefit
benefit of clergy
benempt
benevolence
benevolent
bengaline
benighted
benign
benignant
benignity
benison
benjamin
benne
bennet
benny
bent
bent grass
benthos
bentonite
bentwood
benumb
benzaldehyde
benzene
benzene hexachloride
benzene ring
benzidine
benzine
benzo-
benzoate
benzoate of soda
benzocaime
benzofuran
benzoic
benzoic acid
benzoin
benzol
benzophenone
benzoyl
benzoyl peroxide
benzyl
bequeath
bequest
besprinkle
best
best bower
best girl
best man
best seller
bestead
bestial
bestiality
bestialize
bestiary
bestir
bestow
bestraddle
bestrew
bestride
bet
bet.
beta
beta decay
beta iron
beta particle
beta ray
beta test
betaine
betake
betatron
betel
betel nut
betel palm
beth
bethel
bethink
bethought
betide
betimes
betoken
betony
betook
betray
betroth
betrothal
betrothed
betta
better
better half
betterment
betting shop
bibliog.
bibliogony
bibliographer
bibliography
bibliolatry
bibliology
bibliomancy
bibliomania
bibliopegy
bibliophage
bibliophile
bibliopole
bibliotaph
bibliotheca
bibliotherapy
bibulous
bicameral
bicapsular
bicarb
bicarbonate
bicarbonate of soda
bice
bicentenary
bicentennial
bicephalous
biceps
bichloride
bichloride of mercury
bichromate
bicipital
bicker
bickering
bicollateral
bicolor
biconcave
biconvex
bicorn
bicuspid
bicycle
bicycle pump
bicycle race
bicyclic
bid
bid price
bid up
bidarka
biddable
bidden
bigeye
biggin
bighead
bighorn
bight
bigmouth
bignonia
bignoniaceous
bigot
bigoted
bigotry
bigwig
bijection
bijou
bijouterie
bijugate
bike
bikini
bilabial
bilabiate
bilander
bilateral
bilateral symmetry
bilberry
bilbo
bile
bilection
bilestone
bilge
bilge keel
bilharziasis
biliary
biliary calculus
bilinear
bilingual
bilious
bilk
bill
bill of attainder
bill of exchange
bill of fare
bill of health
bill of indictment
bill of lading
bill of particulars
bill of sale
billabong
billboard
billbug
billet
billet-doux
billfish
billfold
billhead
billhook
billiard
billiard ball
billiard parlor
billiard table
billiards
billing
billingsgate
billion
billionaire
billon
billow
billowy
billposter
billy
billy club
billy goat
billycock
bilobate
bilocular
biltong
bimah
bimanous
bimbo
bimestrial
bimetallic
bimetalism
bimolecular
bimonthly
bin
bin-
binal
binary
binary code
binary digit
binary fission
binary form
binary star
binary system
bineate
binaural
bind
bind over
binder
bindery
binding
binding energy
bindle
bindweed
bine
binge
binghi
bingle
bingo
binnacle
binocular
binoculars
binomial
binomial distribution
binomial nomenclature
binomial theorem
binominal
binturong
binucleate
bio-
bioastronautics
biocatalyst
biocellate
biochemical oxygen demand
biochemistry
bioclimatology
biodegradable
biodynamics
bioecology
bioenergetics
biofeedback
biog.
biogen
biogenesis
biogeochemistry
biogeography
biographer
biographical
biography
biol.
biological
biological clock
biological warfare
biologist
biology
bioluminescence
biolysis
biomass
biome
biomedicine
biometrics
biometry
bionics
bionomics
biophysics
bioplasm
biopsy
bioscope
bioscopy
biosphere
biostatics
biosynthesis
biota
biotechnology
biotic
biotin
biotite
biotope
biotype
bipack
biparietal
biparous
bipartisan
bipartite
biparty
biped
bipetalous
biphenyl
bipinnate
biplane
bipod
bipolar
bipropellant
biquadrate
biquadratic
biquarterly
biracial
biradial
biramous
birch
birch beer
bird
bird call
bird cherry
bird dog
bird of paradise
bird of passage
bird of prey
bird pepper
bird shot
bird's-eye
bird's-foot
bird's-foot trefoil
bird's-nest fungus
bird-dog
bird-watcher
birdbath
birdcage
birdhouse
birdie
birdlike
birdlime
birdman
birdseed
birefringence
bireme
biretta
birl
birr
birth
birth certificate
birth control
birth rate
birthday
birthday suit
birthmark
birthplace
birthright
birthroot
birthstone
birthwort
bis
biscuit
bise
bisect
bisector
bisectrix
biserrate
bisexual
bishop
bishop's-cap
bishopric
bisk
bismuth
bismuthic
bismuthinite
bismuthous
bison
bisque
bissextile
bister
bistort
bistoury
bistre
bistro
bisulfate
bit
bit part
bitartrate
bitch
bitchy
bite
biting
biting midge
bitstock
bitt
bitten
bitter
bitter apple
bitter end
bitter orange
bitter principle
bitterling
bittern
bitternut
bitterroot
bitters
bittersweet
bitterweed
bitty
bitumen
bituminize
bituminous
bituminous coal
bivalent
bivalve
bivouac
biweekly
biyearly
biz
bizarre
bk.
bkey.
bkg.
bks.
bl.
blab
blabber
blabbermouth
black
black and white
black art
black bass
black bear
black belt
black bile
black bindweed
black body
black book
black bottom
black box
black bread
black buck
black diamond
black eye
black flag
black fly
black fox
black frost
black gang
black grouse
black guillemot
black hole
black horehound
black knot
black lead
black letter
black light
black magic
black mark
black market
black marketeer
black measles
black mustard
black nightshade
black opal
black pepper
black powder
black power
black pudding
black quarter
black rat
black rot
black rust
black sea bass
black sheep
black spot
black spruce
black tea
black tie
black velvet
black vomit
black walnut
black whale
black widow
black-and-blue
black-and-white
black-backed gull
black-eyed Susan
black-eyed pea
black-market
black-marketeer
blackamoor
blackball
blackberry
blackbird
blackboard
blackcap
blackcock
blackdamp
blacken
blackface
blackfellow
blackfish
blackguard
blackguardly
blackhead
blackheart
blacking
blackjack
blackleg
blacklist
blackmail
blackness
blackout
blackpoll
blacksmith
blacksnake
blackstrap molasses
blacktail
blackthorn
blacktop
blackwater fever
bladder
bladder campion
bladder ketmia
bladder worm
bladdernose
bladdernut
bladderwort
blade
blaeberry
blague
blah
blain
blamable
blame
blamed
blameful
blameless
blameworthy
blanc fixe
blanch
blancmange
bland
blandish
blandishment
blandishments
blank
blank cartridge
blank check
blank endorsement
blank verse
blank wall
blankbook
blanket
blanket stitch
blanketing
blankety-blank
blankly
blare
blarney
blaspheme
blasphemous
blasphemy
blast
blast furnace
blast lamp
blast off
blast-off
blasted
blastema
blasting
blasto-
blastocoe1
blastocyst
blastoderm
blastogenesis
blastomere
blastopore
blastosphere
blastula
blat
blatant
blate
blather
blatherskite
blaubok
blaze
blazer
blazing star
blazon
blazonry
bldg.
bleach
bleacher
bleachers
bleaching powder
bleak
blear
blear-eyed
bleary
bleary-eyed
bleat
bleb
bleed
bleeder
bleeder's disease
bleeding
bleeding heart
blemish
bleach
blend
blende
blended whiskey
blender
blennioid
blenny
blent
blepharitis
blesbok
bless
blessed
blessing
blest
blether
blew
blight
blighter
blimey
blimp
blind
blind alley
blind date
blind gut
blind pig
blind snake
blind spot
blind staggers
blind tiger
blindage
blinders
blindfish
blindfold
blinding
blindly
blindman's buff
blindstory
blindworm
blink
blinker
blinkers
blinking
blintz
blintze
blip
bliss
blissful
blister
blister beetle
blister copper
blister rust
blistery
blithe
blither
blithering
blithesome
blitz
blitzkrieg
blizzard
blk.
bloat
bloated
bloater
blob
bloc
block
block and tackle
block diagram
block lava
block letter
block out
block plane
block print
block tin
blockade
blockage
blockbuster
blockbusting
blocked
blockhead
blockhouse
blocking
blockish
blocky
bloke
blond
blood
blood and thunder
blood bank
blood bath
blood brother
blood cell
blood count
blood donor
blood feud
blood fluke
blood group
blood grouping
blood heat
blood money
blood orange
blood plasma
blood platelet
blood poisoning
blood pressure
blood pudding
blood relation
blood sausage
blood serum
blood sport
blood test
blood transfusion
blood type
blood vessel
blood-and-thunder
blood-red
bloodcurdling
bleded
bloodfin
bloodhound
bloodless
bloodletting
bloodline
bloodmobile
bloodroot
bloodshed
bloodshot
bloodstain
bloodstained
bloodstock
bloodstone
bloodstream
bloodsucker
bloodthirsty
bloody
bloody flux
bloody shirt
bloody-minded
bloom
bloomer
bloomers
bloomery
blooming
bloomy
blooper
blossom
blot
blotch
blotchy
blotter
blotting paper
blotto
blouse
blouson
blow
blow off
blow out
blow over
blow up
blow-by-blow
blower
blowfish
blowfly
blowgun
blowhard
blowhole
blowing
blown
blowout
blowpipe
blowsy
blowtorch
blowtube
blowup
blowy
blowzed
blowzy
blub
blubber
blubberhead
blubberty
blucher
bludge
bludgeon
blue
blue baby
blue blood
blue book
blue cheese
blue chip
blue crab
blue devils
blue fox
blue grouse
blue gum
blue jay
blue jeans
blue laws
blue mold
blue note
blue ointment
blue peter
blue point
blue racer
blue ribbon
blue shark
blue spruce
blue vitriol
blue whale
blue-collar
blue-eyed Mary
blue-eyed grass
blue-green
blue-green algae
blue-pencil
blue-ribbon jury
blue-sky law
bluebell
blueberry
bluebill
bluebird
bluebonnet
bluebottle
bluecoat
bluefish
bluegill
bluegrass
blueing
bluejacket
blueness
bluenose
bluepoint
blueprint
blues
bluestocking
bluestone
bluet
bluetongue
blueweed
boating
boatload
boatman
boatsman
boatswain
boatswain's chair
boatyard
bob
bob skate
bobbery
bobbin
bobbin lace
bobbinet
bobble
bobby
bobby pin
bobbysocks
bobbysoxer
bobcat
bobolink
bobsled
bobsledding
bobsleigh
bobstay
bobwhite
bocage
boccie
bock beer
bod
bode
bodega
bodgie
bodice
bodiless
bodily
boding
bodkin
body
body blow
body cavity
body corporate
body language
body politic
body snatcher
body stocking
bodycheck
bodyguard
bodywork
boffin
bog
bog asphodel
bog down
bog oak
bogbean
bogey
bogeyman
boggart
boggle
bogie
bogle
bogtrotter
bogus
bogy
bohunk
boil
boil down
boiled
boiled dinner
boiled shirt
boiled sweet
boiler
boiler room
boilermaker
boiling
boiling point
boisterous
bola
bold
bold-faced
boldface
bole
bolection
bolero
boletus
bolide
bolivar
boliviano
boll
boll weevil
bollard
bollix
bollworm
bolo
bologna
bolometer
boloney
bolster
bolt
bolter
boltonia
boltrope
bolus
bomb
bomb bay
bomb ketch
bomb rack
bomb shelter
bombacaceous
bombard
bombardier
bombardon
bombast
bombastic
bombazine
bombe
bomber
bombproof
bombshell
bombsight
bombycid
bon mot
bon ton
bon vivant
bon voyage
bona fide
bona fides
bonanza
bonbon
bond
bond paper
bondage
bonded
bonded warehouse
bondholder
bondmaid
bondman
bondsman
bondstone
bondswoman
bondwoman
bone
bone ash
bone china
bone meal
bone of contention
bone oil
bone-dry
boneblack
bonefish
bonehead
boner
boneset
bonesetter
boneyard
bonfire
bongo
bonhomie
bonito
bonkers
bonne
bonne bouche
bonne foi
bonnet
bonnet monkey
bonnet rouge
bonny
bonnycaliber
bonsai
bonspiel
bonzepoko
bonus
bony
bony labyrinth
bonze
bonzer
boo
boo-boo
boob
booby
booby hatch
booby prize
booby trap
boodle
boogeyman
boogie
boogie-woogie
boohoo
book
book club
book end
book jacket
book learning
book of account
book review
book scorpion
book value
bookbinder
bookbindery
bookbinding
bookcase
bookcraft
bookee
booking
booking office
bookish
bookkeeper
bookkeeping
booklet
booklover
bookmaker
bookman
bookmark
bookmobile
bookplate
bookrack
bookrest
bookseller
bookshelf
bookstack
bookstall
bookstand
bookstore
bookworm
boom
boom shot
boom town
boomer
boomerang
boomkin
boon
boondocks
boondoggle
boong
boor
boorish
boost
booster
booster shot
boot
boot tree
born
borne
borneol
bornite
boron
boron carbide
borosilicate
borough
borough-English
borrow
borrowing
borsch
borscht
borscht circuit
borstal
bort
borzoi
boscage
boschbok
boschvark
bosh
bosk
bosket
bosky
bosom
bosomed
bosomy
boson
bosquet
boss
bossa nova
bossism
bossy
bosun
bot
bot.
botanical
botanical garden
botanist
botanize
botanomancy
botany
botch
botchy
botel
botfly
both
bother
boundary condition
boundary layer
boundary line
boundary rider
bounded
bounden
bounder
boundless
bounds
bounteous
bountiful
bounty
bouquet
bouquet garni
bourbon
bourdon
bourg
bourgeois
bourgeoisie
bourgeon
bourn
bourse
bouse
boustrophedon
bout
boutique
boutonniere
bovid
bovine
bow
bow compass
bow out
bow saw
bow tie
bow window
bowdlerize
bowel
bowel movement
bower
bowerbird
bowery
bowfin
bowhead
bowie knife
bowing
bowknot
bowl
bowl over
boyla
boysenberry
bozo
bp.
br'er
br.
bra
brabble
brace
brace and bit
bracelet
bracer
braces
brach
brachial
brachiate
brachi- 
brachiopod
brachium
brachy-
brachycephalic
brachylogy
brachypterous
brachyuran
bracing
bracken
bracket
bracketing
brackish
bract
bracteate
bracteole
brad
bradawl
brady-
bradycardia
bradytelic
brae
brag
braggadocio
braggart
braid
braided
braiding
brail
brain
brain coral
brain drain
brain fever
brain stem
brain wave
brainchild
brainless
brainpan
brainsick
brainstorm
brainstorming
brainwash
brainwashing
brainwork
brainy
braise
brake
brake band
brake drum
brake horsepower
brake lining
brake parachute
brake shoe
brakeman
brakesman
bramble
brambling
brambly
bran
branch
branch line
branch out
branched chain
branchia
branching
branchiopod
brand
brand-new
brandish
brandling
brandy
branks
branle
branny
brant
brash
brashy
brasier
brasilein
brasilin
brass
brass band
brass hat
brass knuckles
brass tacks
brassard
brassbound
brasserie
brassica
brassie
brassiere
brassware
brassy
brat
brattice
brattishing
bratwurst
braunite
bravado
brave
bravery
bravissimo
bravo
bravura
braw
brawl
brawn
brawny
braxy
bray
brayer
braze
brazen
brazen-faced
brazier
brazil
brazilin
brazilin
breach
breach of promise
breach of trust
bread
bread and butter
bread knife
bread mold
bread-and-butter pickle
breadbasket
breadboard
breadfruit
breadnut
breadroot
breadstuff
breadth
breadthways
breadwinner
break
break and entry
break down
break in
break into
break of day
break out
break through
break up
breakable
breakage
breakaway
breakbone fever
breakdown
breaker
breakfast
breakfast food
breakfront
breaking
breaking and entering
breakneck
breakout
breakthrough
breakup
breakwater
bream
breast
breast drill
breast-beating
breast-feed
breastbone
breastpin
breastplate
breaststroke
breastsummer
breastwork
breath
breathe
breathed
breather
breathing
breathing space
breathless
breathtaking
breathy
breccia
brecciate
bred
brede
bree
breech
breech delivery
breechblock
breechcloth
breeches
breeches buoy
breetching
breechloader
breed
breeder
breeder reactor
breeding
breeks
breeze
breeze block
breezeway
breezy
bregma
brei
brenmsstrahlung
brent
brethren
breve
brevet
breviary
brevier
brevity
brew
brewage
brewer's yeast
brewery
brewhouse
brewing
brewis
brewmaster
briar
briarroot
briarwood
bribe
bribery
bric-a-brac
brick
brick cheese
brick red
brickbat
brickkiln
bricklayer
bricklaying
brickle
brickwork
bricky
brickyard
bricole
bridal
bridal wreath
bride
bride price
bridegroom
bridesmaid
bridewell
bridge
bridge deck
bridge lamp
bridgeboard
bridgehead
bridgework
bridging
bridele
bridle
bridle path
bridlewise
bridoon
brief
briefcase
briefing
briefless
briefs
brier
brierroot
brierwood
brig
brigade
brigadier
brigadier general
brigand
brigandage
brigandine
brigantine
britska
brittle
britzka
broach
broad
broad arrow
broad bean
broad gauge
broad jump
broad jumper
broad seal
broad-faced
broad-leaved
broad-minded
broad-spectrum
broadax
broadbill
broadbrim
broadcast
broadcaster
broadcasting
broadcloth
broaden
broadleaf
broadloom
broadside
broadsword
broadtail
brocade
brocatel
broccoli
broch
brochette
brochure
brock
brocket
brogan
brogue
broider
broil
broiler
broke
broken
broken heart
broken wind
broken-down
brokenhearted
broker
brokerage
brolly
bromal
bromate
brome grass
bromeosin
bromic
bromic acid
bromide
bromide paper
bromidic
brominate
bromine
bromism
bromo-
bromoform
bronchi
bronchia
bronchial
bronchial pneumonia
bronchial tube
bronchiectasis
bronchiole
bronchitis
broncho-
bronchopneumonia
bronchoscope
bronchus
bronco
broncobuster
bronze
brooch
brood
brooder
broody
brook
brook trout
brookite
brooklet
brooklime
brookweed
broom
broomcorn
broomrape
broomstick
bros.
brose
broth
brothel
brother
brother-in-law
brotherhood
brotherly
brougham
brought
brouhaha
brow
browband
browbeat
brown
brown algae
brown bear
brown belt
brown bread
brown coal
brown rat
brown rice
brown rot
brown sauce
brown study
brown sugar
brown thrasher
brown trout
brown-nose
brown-tail moth
browned-off
brownie
browning
browntout
brownstone
browse
brucellosis
brucine
brucite
bruin
bruise
bruiser
bruit
brumal
brumby
brume
brunch
brunch coat
brunet
brunette
brunt
brush
brush aside
brush discharge
brush off
brush turkey
brush up
brush-off
brushwood
brushwork
brusque
brusquerie
brut
brutal
brutality
brutalize
brute
brutify
brutish
bryology
bryony
bryophyte
bryozoan
btl.
btry.
bu.
bub
bubal
bubaline
bubble
bubble and squeak
bubble bath
bubble chamber
bubble dance
bubble gum
bubbler
bubbly
bubo
bubonic plague
bubonocele
buccal
buccaneer
buccinator
buentaur
buck
buck and wing
buck fever
buck up
buckaroo
buffet
buffet car
buffing wheel
bufflehead
buffo
buffoon
bug
bugaboo
bugbane
bugbear
bugeye
bugger
buggery
buggy
bughouse
bugle
bugleweed
bugloss
bugs
buhl
buhr
buhrstone
build
build up
builder
builder's knot
building
building line
built
built-in
built-up
bul.
bulp
bulbar
bulbiferous
bulbil
bulbous
bulbul
bulge
bulimia
bulk
bulk modulus
bulkhead
bulky
bull
bull fiddle
bull mastiff
bull nose
bull session
bull snake
bull terrier
bull tongue
bull's-eye
bull-necked
bull-roarer
bull.
bulla
bullace
bullate
bullbat
bulldog
bulldoze
bulldozer
bullet
bulletin
bulletin board
bulletproof
bullfight
bullfighter
bullfinch
bullfrog
bullhead
bullheaded
bullhorn
bullion
bullish
bullnose
bullock
bulpen
bullring
bullshit
bullwhip
bully
bully beef
bullyboy
bullyrag
bulrush
bulwark
bum
bun's rush
bumble
bumblebee
bumbledom
bumbling
bumboat
bunf
bunkin
bummalo
bummer
bump
bump into
bump off
bumper
bumpkin
bumptious
bumpy
bun
bunch
bunch grass
bunch light
bunchy
bunco
buncombe
bund
bundle
bundle of isoglosses
bundle up
bung
bungalow
bunghole
bungle
bunion
bunk
bunk bed
bunker
bunkhouse
bunkmate
bunko
bunkum
bunny
bunny hug
bunt
bunting
buntline
bunya-bunya
bunyip
buoy
buoyage
buoyancy
buoyant
buprestid
bur
bur marigold
bur oak
bur reed
buran
burble
burbot
burden
burden of proof
burdened
burdensome
burdock
bureau
bureaucracy
bureaucrat
bureaucratic
bureaucratize
burette
burg
burgage
burgee
burgeon
burger
burgess
burgh
burgher
burglar
burglar alarm
burglarious
burglarize
burglary
burgle
burgomaster
burgonet
burgoo
burgrave
burial
burial ground
burial mound
burier
burin
burka
burke
burl
burlap
burlesque
burletta
burley
burly
burn
burn in
burn off
burn out
burned
burned out
burned-out
burner
burnet
burning
burning bush
burning glass
burnish
burnisher
burnoose
burnout
burnsides
burnt
burnt almond
burnt offering
burnt sienna
burnt umber
burp
burp gun
burr
burr
burrow
burrstone
bury
bursa
bursar
bursarial
bursary
burse
burseraceous
bursiform
bursitis
burst
burstone
burthen
burton
burweed
bury
burying beetle
burying ground
bus
bus.
busboy
busby
bush
bush house
bush jacket
bush pilot
bush telegraph
bush wren
bushbuck
bushcraft
bushed
bushel
bushelman
bushhammer
bushing
bushman
bushmaster
bushranger
bushtit
bushwa
bushwhack
bushwhacker
bushy
busily
business
business English
business agent
business college
business cycle
business end
business suit
businesslike
businessman
businesswoman
busk
buskin
buskined
busload
busman
busman's holiday
buss
bust
bust-up
bustard
bustee
buster
bustle
busty
busy
busybody
busyness
busywork
but
butacaine
butadiene
butane
butanol
butanone
butch
butcher
butcher knife
butcher paper
butcher shop
butcher's saw
butcher's-broom
butcherbird
butchery
butene
butler
butlery
butt
but hinge
butt joint
butt plate
butt shaft
butt weld
butte
butter
butter bean
butter muslin
butter up
butter-and-eggs
butterball
butterbur
buttercup
butterfat
butterfingers
butterfish
butterflies
butterfly
butterfly bush
butterfly valve
butterfly weed
buttermilk
butternut
butternut squash
butterscotch
butterwort
buttery
buttock
buttocks
button
button quail
button tree
button up
buttonball
buttonhole
buttonhole stitch
buttonhook
buttons
buttonwood
buttress
butyl
butyl alcohol
butylene
butyraseous
butyraldehyde
butyrate
butyric acid
butyrin
buxom
buy
buy in
buy into
buy off
buy out
buy up
buyer
buyers' market
buying power
buzz
buzz bomb
buzz off
buzz saw
buzzard
buzzer
bwana
bx.
by
by and by
by and large
by-
by-and-by
by-bidder
by-blow
by-election
cacodemon
cacodyl
cacoepy
cacogenics
cacography
cacology
cacomistle
cacophonous
cacophony
cactus
cacuminal
cad
cadastre
cadaver
cadaverine
cadaverous
caddie
caddie cart
caddis
caddis fly
caddish
caddy
cade
cadelle
cadence
cadency
cadency mark
cadent
cadenza
cadet
cadge
cadi
cadmium
cadmium orange
cadmium yellow
cadre
caduceus
caducity
caducous
ciaecilian
ciaecum
ciaenogenesis
ciaeoma
ciaesalpinaceous
ciaesium
ciaespite
ciaespitose
ciaesura
ciafard
cafeteria
caffeine
caftan
cage
cageling
cagey
cahier
cahoot
caiman
cain
caird
cairn
cairngorm
caisson
caisson disease
caitiff
cajeput
cajole
cajolery
cajuput
cake
cakes and ale
cakewalk
cal.
calabash
calaboose
caladium
calamanco
calamander
calamine
calamint
calamite
calamitous
calamity
calamondin
calamus
calash
calathus
calathus
calaverite
cal-
calc-tufa
calcaneus
calcar
calcareous
calcariferous
calceiform
calceolaria
calces
calci-
calic
calcicole
calciferol
calicferous
calcific
calcification
calcifuge
calciy
calcinine
calmine
calcte
calcite
calcium
calium arsenate
calcium carbide
calium carbonate
calium chloride
calium cyanamide
calium cyclamate
calium hydroxide
calium light
calium oxide
calium phosphate
calculable
calculate
calculated
calculated risk
calculating
calculating machine
calculation
calculator
calculous
calculus
calculus of variations
caldarium
calderam
caldron
caldefance
caldefaction
caldefactory
calendar
calendar clock
calendar day
calendar month
calendar watch
calendar year
calendar
calens
calendula
calenture
calf
calf love
calf's-foot jelly
calfskin
caliber
calibrate
calibre
calices
caliche
caliele
calico
calico bush
calico cat
calif
califate
californium
caliginous
calipash
calipee
caliper
caliph
caliphatate
calisaya
calisthenics
calix
calk
call
call box
call down
call forth
call girl
call in
call letters
call loan
call money
call number
call off
call out
call rate
call slip
call up
call-board
call-up
calla
callable
callant
callboy
caller
calli-
calligraphy
calling
calling card
calliope
calliopsis
callipash
calliper
callipygian
callisthenics
callosity
callous
callow
callus
calm
calmative
calomel
caloric
calorie
calorific
clorific
clorimeter
calotte
caloyer
calpac
calque
caltrop
calumet
calumniate
calumniation
calumnious
calumny
calutron
calvaria
calve
calves
calvities
calx
calyces
calyce
cale
callipso
calyptra
calyptrogen
calyx
cam
campanulaceous
campanulate
camper
campestral
campfire
campground
camphene
camphor
camphor ball
camphor ice
camphor tree
camphorate
camphorated oil
campion
campo
campo santo
camporee
campstool
campus
campy
camshaft
can
can buoy
can opener
can't
can.
canaigre
canaille
canakin
canal
canal boat
canal ray
canalculus
canalize
canard
canary
canary grass
canary seed
canary yellow
canasta
canaster
canc.
cancan
cancel
cancelate
cancellation
cancer
cancer stick
canned
cannel coal
cannelloni
canner
cannery
cannibal
cannibalism
cannibalize
cannikin
canning
cannon
cannon bone
cannon cracker
cannon fodder
cannon shot
cannonade
cannonball
cannoneer
cannonry
cannot
cannula
cannular
canny
canoe
canoewood
canon
canon law
canoness
canonical
canonical hour
canonicals
canonicate
canonicity
canonist
canonize
canonry
canoodle
canopy
canorous
canso
canst
cant
cant hook
cantabile
cantaloupe
cantankerous
cantata
cantarice
canteen
canter
cantharides
canthus
canticle
cantilena
cantilever
cantilever bridge
cantillate
cantina
canting arms
cantle
canto
canton
cantonment
cantor
cantoris
cantrip
cantus
cantus firmus
canty
canula
canvas
canvasback
canvass
canyon
canzona
canzone
canzonet
cauotchouc
cap
cap and bells
cap and gown
cap cloud
cap of estate
cap of maintenance
cap rock
cap screw
cap-a-pie
cap.
capability
capable
capacious
capacitance
capacitate
capacitive reactance
capacitor
capacity
caparison
cape
cape gooseberry
capelin
caper
capercaillie
capeskin
capful
capias
capillaceous
capillarity
capillary
capillary tube
capita
capital
capital account
capital expenditure
capital gain
capital gains tax
capital goods
capital levy
capital punishment
capital ship
capital stock
capital surplus
capitalism
capitalist
capitalistic
capitalization
capitalize
capitally
capitate
capitation
capitol
capitular
capitulary
capitulate
capitulation
capitulum
caplin
capo
capon
caponize
caporal
capote
capparidaceous
capper
capping
cappuccino
capreolate
capriccio
capriccioso
caprice
capricious
caprrification
caprifig
caprifoliaceous
caprine
capriole
caproic acid
caps.
capsaicin
capsicum
capsize
capstan
capstan bar
capstan lathe
capstone
capsular
capsulate
capsule
capsulize
captain
captain of industry
captain’s chair
captainship
caption
captious
captivate
captive
captive balloon
captivity
captor
capture
capuche
capuchin
caput
capybara
car
car coat
car park
carabao
carabin
carabineer
carabiniere
caracal
caracara
caracole
caracul
carafe
caramel
caramelize
crangid
carapace
carat
caravan
caravansary
caravel
caraway
carbamate
carbamic acid
carbamidine
carbn
carbazole
carbide
carbine
carbineer
carbo-
carbohydrate
carbolated
carbolic acid
carbolize
carbon
carbon 14
carbon black
carbon copy
carbon cycle
carbon dating
carbon dioxide
carbon disulfide
carbon microphone
carbon monoxide
carbon paper
carbon process
carbon steel
carbon tetrachloride
carbon tissue
carbon-14 dating
carbonaceous
carbonado
carbonate
carbonation
carbonic
carbonic acid
carbonic-acid gas
carboniferous
carbonization
carbonize
carbonous
carbonyl
carbonyl chloride
carboxyl group
carboxylase
carboxylate
carboxylic acid
carboy
carbuncle
carburet
carburetor
carburize
carbamylamine
carcajou
carcanet
carcass
carcinogen
carcinoma
carcinomatosis
card
card catalog
card index
card punch
card table
card vote
card-carrying
cardamom
cardboard
cardholder
cardiac
cardialgia
cardigan
cardinal
cardinal flower
cardinal number
cardinal points
cardinal virtues
cardinalate
carding
cardio-
cardiogram
cardiograph
cardioid
cardiology
cardiomegaly
cardiovascular
carditis
cardoon
cards
cardsharp
carduaceous
care
careen
career
careerism
careerist
carefree
careful
careless
caress
caressive
caret
caretaker
careworn
carfare
cargo
carhop
caribou
caricature
caries
carillon
carillonneur
carina
carinate
carioca
cariole
carious
caritas
cark
carl
carline
carling
carload
carmagnole
carman
carminative
carmine
carnage
carnal
carnal knowledge
carnallite
carnassial
cartilage
cartilage bone
cartilaginous
cartload
cartogram
cartography
cartomancy
carton
cartoon
cartouche
cartridge
cartridge belt
cartridge brass
cartridge clip
cartridge paper
cartridge pen
cartulary
cartwheel
caruncle
carve
carve up
carvel
carvel-built
carven
carving
carving knife
caryatid
caryo-
caryophyllaceous
caryopsis
casa
casaba
cascabel
cascade
cascara
cascara sagrada
cascarilla
case
case history
case knife
case law
case shot
casease
caseate
caseation
casebook
casebound
casefy
casein
caseinogen
casemaker
casemate
casement
caseose
caseous
casern
casework
caseworm
cash
cash crop
cash discount
cash in
cash on delivery
cash register
cash-and-carry
cashbook
cashbox
cashew
cashier
cashier's check
cashmere
casing
casino
cask
casket
casque
cassaba
cassareep
cassation
cassava
casserole
cassette
cassia
cassimere
cassino
cassis
cassiterite
cassock
cassoulet
cassowary
cast
cast about
cast down
cast iron
cast steel
cast-iron
cast-off
castanets
castaway
caste
caste mark
castellan
castellany
castellated
castellatus
caster
castigate
casting
casting vote
castle
castle in the air
castled
castoff
castor
castor bean
castor oil
castor-oil plant
castrate
castration complex
castrato
casual
casualty
casualty insurance
casuist
casuistry
casus belli
cat
cat brier
cat burglar
cat nap
cat rig
cat whisker
cat's cradle
cat's-ear
cat's-eye
cat's-foot
cat's-paw
cat's-tail
cat-and-dog
cat-eyed
cat-o'-mountain
cat-o'-nine-tails
cat.
cata-
catch-as-catch-can
catchall
catcher
catchfly
catching
catchment
catchpenny
catchpole
catchup
catchweight
catchword
catchy
cate
catechetical
catechin
catechism
catechist
catechize
catechol
catechu
catechumen
categorical
categorical imperative
categorize
category
catena
catenane
catenary
catenate
catenoid
cater
cater-cornered
cater-cousin
cateran
catercorner
caterer
catering
caterpillar
caterpillar hunter
caterwaul
catfall
catfish
catgut
cath-
catharsis
cathartic
cathead
cathedral
cathepsin
catheter
catheterize
cathexis
cathode
cathode glow
cathode ray
cathode-ray tube
cathodic protection
cathodoluminescence
catholic
catholicity
catholicize
catholicism
cathode
caution
catkin
catlike
catling
catmint
catnap
catnip
catoptrics
catsup
cattail
cattalo
cattery
cattish
cattle
cattle egret
cattle plague
cattleman
cattleya
catty
catty-cornered
catwalk
caucus
cia
cia
cia
cia
cia
cia
caulescent
caulicle
cauliflower
cauliflower ear
cauline
caulis
caulk
caus.
causal
causalgia
causality
causation
causative
cause
causerie
causeuse
causeway
causey
caustic
cauterant
cauterize
cauterity
cautery
caution
cautions
caution money
cautionary
cautious
cavalcade
cavalier
cavalierly
cavalla
cavalry
cavalry twill
cavalryman
cavatina
cave
cave art
cave dweller
cave in
cave-in
caveat
caveat emptor
caveator
cavefish
caveman
cavendish
cavern
cavernous
cavesson
cavetto
caviar
cavicorn
cavie
cavil
cavitation
cavity
cavity resonator
cavo-relievo
cavo-rilievo
cavort
cavy
caw
cay
cayenne
cayenne pepper
cayman
cayuse
cc.
cd
cd.
cease
cease-fire
ceaseless
cecity
cicum
cedar
cedar of Lebanon
cedar waxwing
cede
cedilla
ceiba
ceil
ceilidh
ceiling
ceiling light
ceilometer
celadon
celandine
celebrant
celebrate
celebrated
celebration
celebrity
celeriac
celerity
celery
celery salt
celesta
celestial
celestial equator
celestial globe
celestial guidance
celestial horizon
celestial latitude
celestial longitude
celestial mechanics
celestial navigation
celestial pole
celestial sphere
celestite
celiac
celibacy
celibate
celiotomy
cell
cell division
cell membrane
cell wall
cella
cellar
cellarage
cellarer
cellarret
cellist
cello
cellobiose
celloidin
cellophane
cellular
cellule
cellulitis
cellulose
cellulose acetate
cellulose nitrate
cellulosic
cellulous
celom
celt
celtuce
cembalo
cement
cementation
cementite
cementum
cemetery
cen.
cenacle
cenesthesia
cenobite
cenogenesis
cenotaph
cense
censer
censor
censorious
censorship
censurable
censure
census
cent
cent.
cental
centare
centaur
centaury
centavo
centenarian
centenary
centennial
center
center of buoyancy
center of curvature
center of effort
center of flotation
center of gravity
center of mass
center of percussion
center of pressure
center of symmetry
center punch
centerboard
centering
centerpiece
centesimal
centesimo
centi-
centiare
centigrade
centigram
centiliter
centillion
centime
centimeter
cephalalgia  
cephalic  
cephalic index  
cephalization  
cephalo-  
cephalochordate  
cephalometer  
cephalopod  
cephalothorax  
ceraceous  
ceramal  
ceramic  
ceramics  
ceramist  
cerargyrite  
cerate  
cerated  
ceratodus  
ceratoid  
cercaria  
cercus  
cere  
cereal  
cerebellum  
cerebral  
cerebral palsy  
cerebrate  
cerebration  
cerebritis  
cerebro-  
cerebroside  
cerebrospinal  
cerebrospinal fluid  
cerebrospinal meningitis  
cerebrovascular  
cerebrum  
cerecloth  
cerement  
ceremonial  
ceremonious  
ceremony  
ceresin  
cereus  
ceria  
ceric  
cerise  
cerium  
cermet
chalaza
calcanthite
calcedony
calco-
calcocite
caligraphy
calcopyrite
caldron
tale
calec
chalk
chalk out
chalk talk
chalk up
chalkboard
chalkstone
chalky
challah
challenge
challenging
challis
chalone
chalutz
chalybeate
chalybite
cham
chamade
chamber
chamber concert
chamber music
chamber of commerce
chamber orchestra
chamber pot
chambered nautilus
chamberlain
chambermaid
chambers
chambray
chameleon
chamfer
chamfer bit
chamfron
chammy
chamois
chamomile
champ
champac
champaca oil
champagne
champaign
champerty
champignon
champion
championship
chance
chance-medley
chancel
chancellery
chancellor
chancellorship
chancery
chancre
chancroid
chancy
chandelier
chandelle
chandler
chandlery
change
change of life
change of venue
change ringing
change-up
changeable
changeful
changeless
changeling
changeover
changing bag
channel
channel iron
channelize
chanson
chanson de geste
chant
chanter
chanterelle
chanteuse
chantey
chanticleer
chantress
chantry
chanty
chaos
chaotic
chap
chap.
chaparajos
chaparral
chaparral pea
chapatti
chapbook
chape
chapeau
chapeau bras
chapel
chapel of ease
chaperon
chaperone
chapfallen
chapiter
chaplain
chaplet
chapman
chappie
chaps
chapter
chaqueta
char
charabanc
character
character actor
character sketch
character witness
characteristic
characteristically
characterization
characterize
charactery
charade
charades
charcoal
charcuterie
chard
chare
charge
charge account
charge nurse
charge of quarters
chargeable
charged
charger
charily
chariness
chariot
charioteer
charisma
charismatic
charitable
charity
charivari
charkha
charlady
charlatan
charlatanism
charlatanry
charley horse
charlock
charlotte
charlotte russe
charm
charmed circle
charmer
charmuse
charming
charnel
charnel house
charpoy
charqui
charr
chart
chart house
chart room
charter
charter colony
charter member
chartered accountant
chartist
chartography
chartreuse
chartulary
charwoman
chary
chase
chaser
chasing
chasm
chassepot
chasseur
chassis
chaste
chaste tree
chasten
chastise
chastity
chastity belt
chasuble
chat
chateau
chatelain
chatelaine
chatoyant
chattel
chattel mortgage
chatter
chatter mark
chatterbox
chatterer
chatty
chaudfroid
chauffer
chauffeur
chaulmoogra
chaunt
chausses
chaussure
chauvinism
chaw
chayote
chazan
cheap
cheap-jack
cheapen
cheapskate
cheat
cheater
check
check in
check list
check out
check valve
checkbook
checked
checker
checkerberry
checkerbloom
checkerboard
checkered
checkers
checkerwork
chemical warfare
cemiluminescence
cemil de fer
cemise
cemisette
cemism
cemisorb
cemisorption
cemist
cemistry
cemmy
cemoth-
cemoprophylaxis
cemoreceptor
cemosmosis
cemosphere
cemosynthesis
cemotaxis
cemotherapy
cemotropism
cemurgy
cemille
cemopod
cemongsam
cemque
cemquer
cemquerboard
cemquered
cemrimoya
cemrish
cemroot
cemry
cemry bomb
cemry laurel
cemry picker
cemsonese
cemt
cemub
cemvil
cemvonets
cemss
cemssboard
cemssman
cemst
cemst of drawers
cemst of viols
cemst voice
cemst-on-cemst
chesterfield
chestnut
cesty
cetah
cheval glass
cheval-de-frise
chevalier
chevet
chevot
chevrette
chevron
chevrotain
chey
chew
chew out
chew over
chew up
chewing gum
chewink
chewy
chez
chg.
chi
chi-square test
chiack
chiao
chiarosscuro
chiasma
chiasmus
chiastic
chiastolite
chibouk
chic
chicalote
chicane
chicanery
chiccory
chichi
chick
chickabiddy
chickadee
chickaree
chicken
chicken breast
chicken coop
chicken feed
chicken hawk
chicken out
chicken pox
chicken wire
chicken-hearted
chicken-livered
chickenhearted
chickpea
chickweed
chicle
chico
chicory
chide
chief
chief justice
chief mate
chief of state
chief petty officer
chief warrant officer
chiefly
chieftain
chiffchaff
chiffon
chiffonier
chiffrobe
chigetai
chigger
chignon
chigoë
chilblain
child
child psychology
child's play
childbearing
childbed
childbed fever
childbirth
childe
childhood
childish
childlike
children
chile
chili
chili con carne
chili pepper
chili sauce
chiliad
chiliarch
chiliasm
chipper
chipping sparrow
chippy
chirk
chirm
chiro-
chirography
chiromancy
chiropodist
chiropody
chiropractic
chiropractor
chiropteran
chirp
chirpy
chirr
chirrup
chirrupy
chirurgeon
chisel
chiseler
chit
chitarrone
chitchat
chitin
chiton
chitter
chitterlings
chivalric
chivalrous
chivalry
chivaree
chive
chivy
chlamydate
chlamydeous
chlamydospore
chlamys
chlor-
chloral
chloral hydrate
chloramine
chloramphenicol
chlorate
chlorodane
chlorella
chlorenchyma
chloric
chloric acid  
chloride  
chloride of lime  
chlorinate  
chlorine  
chlorine dioxide  
chlorite  
chloro-  
chloroacetic acid  
chlorobenzene  
chloroform  
chlorohydrin  
chlorophyll  
chloropicrin  
chloroplast  
chloroprene  
chlorosis  
chlorothiazide  
chlorous  
chlorous acid  
chlorpromazine  
clortetracycline  
chm.  
choanocyte  
chock  
chock-a-block  
chock-full  
chocolate  
choice  
choir  
choir loft  
choir school  
choirboy  
choirmaster  
choke  
choke coil  
choke up  
choke-full  
chokeberry  
chokebore  
chokecherry  
chokedamp  
choker  
choking  
chol-  
cholecalciferol  
cholecyst  
cholecystectomy
cholecystitis
cholecystotomy
cholent
choler
cholera
cholera morbus
choleric
cholesterol
choli
cholic acid
choline
cholinesterase
cholla
chomp
chon
chondriosome
chondrite
chondro-
chondroma
chondrule
choo-choo
chook
choose
chosey
choosy
chop
chop chop
chop suey
chopfallen
chophouse
chopine
choplogic
chopper
chopping
choppy
chops
chopstick
choragus
choral
chorale
chorale prelude
chord
chordate
chordophone
chore
chore boy
chorea
choreodrama
choreograph
choreographer
choreography
choriamb
choric
choriocarcinoma
chorion
chorister
chorizo
chorography
choroid
choroiditis
chortle
chorus
chorus boy
chorus girl
chose
chosen
chosen people
chou
chough
chow
chow chow
chow mein
chow-chow
chowder
chrestomathy
christ
chrismatic
chrisom
christcross
christcross-row
christen
christening
chroma
chromate
chromatic
chromatic aberration
chromatic scale
chromaticity
chromaticity diagram
chromaticness
chromatics
chromatid
chromatin
chromatism
chromato-
chromatogram
chromatograph
chromatography
chromatology
chromatolysis
chromatophore
chrome
chrome alum
chrome green
chrome red
chrome steel
chrome yellow
chromic
chromic acid
chrominance
chromite
chromium
chromium steel
chromo
chromo-
chromogen
chromogenic
chromolithograph
chromolithography
chromomere
chromonema
chromophore
chromoplast
chromoprotein
chromosome
chromosome number
chromosphere
chromous
chromyl
chron.
chronaxie
chronic
chronic alcoholism
chronicle
chronicle play
chrono-
chronogram
chronograph
chronological
chronologist
chronology
chronometer
chronometry
chronon
churchless
churchlike
churchly
churchman
churchwarden
churchwoman
churchy
churchyard
churinga
churl
churlish
churn
churning
churr
churriguereque
chute
chutney
chutzpah
chyack
chyle
chyme
chymotrypsin
ci-devant
ciao
ciborium
cicada
cicala
cicatrix
cicatriz
 cicely
 cicer
 cicerone
 cichlid
 cicisbeo
 cider
 cig
 cigar
cigar store
cigarette
 cigarette holder
cigarette lighter
 cigarette paper
 cigarillo
 cilia
 ciliary
 ciliary body
 ciliate
 cilice
ciliolate
ciliary
cimbalom
cimex
cinch
cinchona
cinchonidine
cinchonine
cinchonism
cinchonize
cincture
cinder
cinder block
cinder track
cine-
cineaste
cinema
cinematograph
cinematography
cineraria
cinerarium
cinerary
cinerator
cinereous
cingulum
cinnabar
cinnamic acid
cinnamon
cinnamon bear
cinnamon stone
cinquain
cinque
cinquecento
cinquedecimo
cipher
cipolin
cir.
circa
circadian
circinate
circle
circle

circuit

circuit binding
circuit breaker
circuit judge
circuit rider
circuitous
circuitry
circuit
circular
circular function
circular measure
circular mil
circular polarization
circular saw
circular triangle
circularize
circulate
circulating capital
circulating decimal
circulating library
circulating medium
circulation
circum-
circumambient
circumambulate
circumbendibus
circumcise
circumcision
circumference
circumferential
circumflex
circumfluent
circumfluous
circumfuse
circumgyration
circumjacent
circumlocution
circumlunar
circumnavigate
circumnutate
circumpolar
circumrotate
circumscissile
circumscribe
circumscription
cum-solar
circumspect
circumspection
circumstance
circumstantial
circumstantial evidence
circumstantiality
circumstantiate
circumvallate
circumvent
circumvolution
circus
cire perdue
cirque
cirrate
cirrhosis
cirro-
cirrocumulus
cirrose
cirrostratus
cirrus
cirroid
cis-
cisalpine
cisco
cislunar
cismontane
cispadane
cissoid
cist
cistaceeous
cistern
cisterna
cit.
citadel
citation
cite
cithara
cither
citized
citify
citizen
citizenry
citizenship
citole
citral
citrange
citrate
citreous
citric
citric acid
citriculture
citrin
citrine
citron
citron wood
citronella
citronellal
citrus
citrus fruit
cittern
city
city council
city desk
city editor
city father
city hall
city man
city manager
city planning
city slicker
city-state
cityscape
civ.
civet
civic
civics
civies
civil
civil day
civil death
civil disobedience
civil engineer
civil engineering
civil law
civil liberty
civil list
civil marriage
civil rights
civil servant
civil service
civil war
civilian
civility
civilization
civilize
civilized
civilly
civism
civvies
civil
clabber
clashan
clack
clad
cladding
cladoceran
cladophyll
claim
claimant
claiming race
clair-obscur
clairaudience
clairvoyance
clairvoyant
clam
clam up
clamant
clamatorial
clambake
clamber
clammy
clamor
clamorous
clamp
clamper
clamshell
clamworm
clan
clandestine
clang
clangor
clank
clannish
clansman
clap
clap on
clapboard
clapper
clapperclaw
claptrap
claque
claqueur
clarabella
clarence
claret
claret cup
clarify
clarinet
clarino
clarion
clarity
clarkia
claw bar
claw hammer
claw hatchet
clay
clay mineral
clay pigeon
claybank
claymore
claypan
claytonia
clean
clean hands
clean out
clean up
clean-cut
clean-limbed
clean-shaven
cleaner
cleaning
cleaning woman
cleanly
cleanse
cleanser
cleansing tissue
cleanup
clear
clear away
clear off
clear out
clear up
clear-air turbulence
clear-cut
clear-eyed
clear-sighted
clearance
clearcole
clearheaded
clearing
clearing house
clearly
clearness
clearstory
clearway
clearwing
cleat
cleavable
cleavage
cleave
clock
clock golf
clock watcher
clockmaker
clockwise
clockwork
clod
cloddish
clodhopper
clodhopping
clog
cloison
cloister
cloistered
cloistral
clomb
clamp
clone
clonic spasm
clonus
clop
clos
close
close call
close down
close harmony
close in
close juncture
close out
close quarters
close shave
close with
close-fitting
close-grained
close-hauled
close-knit
close-lipped
close-stool
close-up
closed
closed chain
closed circuit
closed corporation
closed primary
closed shop
closed-circuit television
closed-end investment company
closefisted
closemouthed
closer
closet
closet drama
closing
clostridium
closure
clot
cloth
clothbound
clothe
clothes
clothes moth
clothes pole
clothes tree
clothesbasket
clotheshorse
clothesline
clothespin
clothespress
clothier
clothing
clot
clothed
clot
clothing
clot
cloth
clothed
cloud
cloud chamber
cloud cover
cloud rack
cloud-capped
cloudberry
cloudburst
clouded
cloudland
cloudless
cloudlet
cloudscape
cloudy
clough
clout
clove
clove hitch
clove pink
cloven
cloven hoof
clover
cloverleaf
clown
cloven white
clownery
cloy
cloying
club
club chair
cub foot
club moss
club sandwich
club steak
club topsail
clubbable
clubby
club foot
club haul
clubhouse
club man
club woman
cluck
clue
clueless
clumber spaniel
clump
clumsy
clung
clunk
clupeid
clupeoid
cluster
clustered
clutch
clutter
clypeate
clypeus
clyster
cm
cml.
cnenmis
cnidoblast
co-
co-ed
coop
co-opt
co-star
co-worker
coacervate
coach
coach box
coach dog
coach horse
coach house
coach screw
coach-and-four
coacher
coachman
coachwhip
coachwork
coact
coaction
coactive
coadjutant
coadjutor
coadjutress
coadjutrix
coadunate
coagulant
cogulase
cogulate
cogulum
c coal
c coal car
c coal gas
c coal heaver
c coal hole
c coal mine
c coal oil
c coal scuttle
c coal tar
c coaler
c coalesce
c coalfield
c coalfish
c coalition
c coaly
c coaming
c coaptation
c coarctate
c coarse
c coarse-grained
c coarsen
c coast
c coast artillery
c coast guard
c costal
c coastal plain
c coaster
c coastguardsman
coastland
costline
costward
costwise
coot
coat
coat hanger
coat of arms
coat of mail
coated
coatee
coati
coating
coattail
coauthor
coax
coaxial
coaxial cable
cob
cob money
cobalt
cobalt bloom
cobalt blue
cobalt bomb
cobalt green
cobaltic
cobaltite
cobaltous
cobber
cobble
cobbler
cobblestone
cobelligerent
cobia
coble
cobnut
cobra
cobra de capello
coburg
cobweb
cobwebby
coca
cocaine
cocainism
cocainize
cocci
coccid
coccidiodermatitis
coccidiosis
coccus
coccyx
cochineal
cochlea
cochlate
cock
cock of the walk
cock-a-doodle-doo
cock-a-hoop
cock-a-leekie
cock-and-bull story
cock-of-the-rock
cockade
cockalorum
cockatiel
cockatoo
cockatrice
cockboat
cockchafer
cockcrow
cocked hat
cocker
cocker spaniel
cockerel
cockeye
cockeyed
cockfight
cockhorse
cockiness
cockle
cockleboat
cocklebur
cockleshell
cockloft
cockney
cockneyfy
cockneyism
cockpit
cockroach
cockscomb
cockshey
cockspur
cocksure
cockswain
cocktail
cocktail hour
cocktail lounge
cocktail party
cocktail table
cnockup
cocky
coco
cocoa
cocoa bean
cocoa butter
cconut
cconut butter
cconut oil
cconut palm
ccoon
ccotte
cod
cod-liver oil
coda
coddle
code
codeclination
codeine
codex
codfish
codger
codices
codicil
codification
codify
codling
codling moth
codon
codpiece
coeducation
coefficient
coe-
coelecanth
coeleenterate
coelelenteron
celiac
coelom
coelostat
coenesthesia
coenobite
coenocyte
coenosarc
coenurus
coenzyme
coequal
coerce
coercion
coercive
coessential
coetaneous
coeternal
coeternity
coeval
coeexecutor
coeexist
coeextend
coeextensive
coff
coffee
coffee break
coffee cup
coffee maker
coffee mill
coffee nut
coffee shop
coffee table
coffee tree
coffee-colored
coffeehouse
coffeepot
coffer
cofferdam
coffin
coffin bone
coffin nail
coffle
cog
cog railway
cog.
cogency
cogent
cogitable
cogitate
cogitation
cogitative
cognac
cognate
cognition
cognition
cognizable
cognizance
cognizant
cognize
cognomen
cognoscenti
cogon
cogwheel
cohabit
coeur
cohere
coherence
coherent
cohesion
cohesive
cohabate
cohort
cohosh
cohune
coif
coiffeur
coffture
coign
coign of vantage
coil
coil spring
coin
coin box
coin silver
coinage
coincide
coincidence
coincident
coincidental
coincidentally
coinstantaneous
coinsurance
coinsure
coir
cotion
coitus
coitus interruptus
coke
coke oven
col
col-
col.
cola
cola nut
colander
colatitude
colcannon
colchicine
colchicum
cold chisel
cold comfort
cold cream
cold cuts
cold duck
cold feet
cold frame
cold front
cold light
cold pack
cold rubber
cold shoulder
cold snap
cold sore
cold steel
cold storage
cold sweat
cold turkey
cold war
cold water
cold wave
cold-blooded
cold-hearted
cold-shoulder
cold
colectomy
cole
colemite
coleopteran
coleoptile
coleorhiza
coleslaw
coleus
colewort
colic
colicroot
colicweed
coliseum
colitis
coll.
collaborate
collaboration
collaborationist
collaborative
collage
collagen
collapse
collar
collar cell
collarbone
collard
collat.
collate
collateral
collateral trust bond
collation
collative
collator
colleague
collect
collectanea
collected
collection
collective
collective agreement
collective bargaining
collective farm
collective noun
collective ownership
collective security
collective unconscious
collectivism
collectivity
collectivize
collector
colleen
college
collegian
collegiate
collegiate church
collegiate institute
collegium
collenchyma
collet
collide
collie
collier
colliery
colligate
collimate
collimator
collinear
collins
collinsia
collision
collision course
collision insurance
collision mat
collocate
collocation
colloctor
collodium
collocation
collogue
colloid
colloidal
collop
colloq.
colloquial
colloquialism
colloquium
colloquy
collotype
collude
collusion
collusive
colly
collyrium
collywobbles
colo-
colobus
colocynth
cologarithm
cologne
colon
colonel
colonial
colonialism
colonic
colonist
colonize
colonnade
colony
colophon
colophony
coloquintida
color
color bar
color blindness
color filter
color line
color scheme
color sergeant
come in
come into
come of
come off
come out
come over
come round
come through
come to
come up
come upon
come-hither
come-on
comeback
comedian
comedic
comedienne
comedietta
comedo
comedown
comedy
comedy of manners
comely
comer
comestible
comet
comeuppance
comfit
comfort
comfort station
comfortable
comforter
comfrey
comfy
comic
comic book
comic opera
comic relief
comic strip
comical
coming
comitative
comitia
comity
comm.
comma
comma bacillus
comma fault
commercialize
commie
comminate
commination
commingle
comminate
commingled fracture
commiserate
commissar
commissariat
commissary
commission
commission plan
commissionaire
commissioned officer
commissioner
commissure
commit
commitment
committal
committee
committeeman
committeewoman
commix
commixture
commode
commodious
commodity
commodity exchange
commodore
common
common carrier
common chord
common cold
common council
common denominator
common divisor
common fraction
common ground
common knowledge
common law
common logarithm
common man
common measure
common multiple
common noun
common people
common pleas
common prayer
common property
common room
common school
common scold
common sense
common stock
common time
common touch
common year
common-law marriage
commonable
commonage
commonality
commonalty
commoner
commonly
commonplace
commonplace book
commons
commonsense realism
commonweal
commonwealth
commorancy
commorant
commotion
commove
communal
communalism
communalize
commune
communicable
communicant
communicate
communication
communications satellite
communications zone
communicative
communion
communion cloth
communion of saints
communism
communist
communistic
communitarian
community
community chest
community college
community singing
communize
commutable
commutate
commutation
commutation ticket
commutative
commutative law
commutator
commute
 commuter
commutual
comose
comp
comp.
compact
compaction
compagnie
compander
companion
companion ladder
companionable
companionate
companionate marriage
companionship
companionway
company
company officer
company union
compar.
comparable
comparative
comparative government
comparative linguistics
comparative literature
comparative method
comparator
compare
comparison
compartment
compartmentalize
compass
compass card
compass course
compass plant
compass rose
compass saw
compassion
compassionate
compatible
compatriot
compeer
compel
compellation
compelling
compendious
compendium
compensable
compensate
compensation
compensatory
compete
competence
competency
competent
competition
competitive
competitor
compilation
compile
compiler
complacence
complacency
compliant
complain
complainant
complaint
complaisance
complaisant
complect
complected
complement
complemental
complementary
complementary angle
complementary color
complementary distribution
complete
completion
complex
complex fraction
complex number
complex sentence
complex variable
complexion
comlexioned
conc.
concatenate
concatenation
concave
concavity
concavo-concave
concavo-convex
conceal
concealment
concede
conceit
conceited
conceivable
conceive
concelebrate
concent
concenter
concentrate
concentrated
concentration
concentration camp
concentre
concentric
concept
conceptacle
conception
conceptual
conceptualism
conceptualize
cconcern
cconcerned
cconcerning
cconcernment
cconcert
concert grand
concert overture
concert pitch
concertante
concerted
concertgoer
concertina
concertino
concertize
concertmaster
concerto
concerto grosso
concession
concessionaire
confirmatory
confirmed
confiscable
confiscate
confiscatory
confiture
conflagrant
conflagration
conflation
conflict
confluence
confluent
conflux
confocal
conform
conformable
conformal
conformance
conformation
conformist
conformity
confound
confounded
confraternity
confrere
confront
confuse
confusion
confutation
confute
cong.
conga
congeal
congelation
congener
congeneric
congenial
congenital
conger
conger eel
congeries
congest
congius
conglobate
conglomerate
conglomerination
conglutinate
congo eel
congo snake
congou
congratulant
congratulate
congratulation
congratulatory
congregate
congregation
congregational
congress
congressional
congressman
congresswoman
congruence
congruency
congruent
congruity
congruous
conic
conic projection
conic section
conics
conidiophore
conidium
conifer
coniferous
coniine
coniology
conium
conj.
conjunctural
conjecture
conjoin
conjoined
conjoint
conjugal
conjugate
conjugated
conjugated protein
conjugation
conjunct
conjunction
conjunctiva
conjunctive
conjunctivitis
conjuncture
conjuration
conjure
conjure up
conjuror
conk
conk out
conker
conn
connate
connatural
connect
connected
connecting rod
connection
connective
connective tissue
conning tower
coonription
connivance
connive
connivent
connoisseur
connotation
connotative
connote
connubial
conoid
conoscenti
conquer
conquieror
conquest
conquian
conquistador
cons
cons.
consanguinous
consanguinity
conscience
conscience clause
conscience money
conscience-stricken
conscientious
conscientious objector
conscionable
conscious
consciousness
conscript
conscript fathers
conscription
consecrate
consecration
consecution
consecutive
consensual
consensus
consensus gentium
consent
consentaneous
consentient
consequence
consequent
consequential
consequently
conservancy
conservation
conservation of charge
conservation of energy
conservation of mass
conservationist
conservatism
conservative
conservatoire
conservator
conservatory
conserve
consider
considerable
considerate
consideration
considered
considering
consign
consignee
consignment
consignor
consist
consistence
consistency
consistent
consistory
consociate
consol
consolation
consolation prize
consolatory
console
console table
consolidate
consolidated school
consolidation
consols
consolute
consonance
consonant
consonantal
consort
consortium
conspecific
conspectus
conspicuous
conspicuous consumption
conspiracy
conspire
constable
constabulary
constancy
constant
constantan
constellate
constellation
consternate
consternation
constipate
constipation
constituency
constituent
constitute
constitution
constitutional
constitutional monarchy
constitutional psychology
constitutionalism
constitutionality
constitutionally
constitutive
constr.
constrain
constrained
constraint
constrict
constriction
constrictive
constrictor
constringe
constringent
construct
construction
constructionist
constructive
constructivism
construe
consubstantial
consubstantiate
consubstantiation
consuetude
consuetudinary
consul
consul general
consular agent
consulate
consult
consultant
consultation
consultative
consumable
consume
consumedly
consumer
consumer credit
consumer goods
consumer price index
consumerism
consummate
consummation
consumption
consumptive
cont.
contact
contact lens
contact print
contact printing
contactor
contagion
contagious
contagium
contain
container
container ship
containerize
containment
contaminant
contaminate
contamination
contango
contd.
conte
contemn
contemp.
contemplate
contemplation
contemplative
contemporaneous
contemporary
contemporize
contempt
contemptible
contemptuous
contend
content
contented
contention
contentious
contentment
conterminous
contest
contestant
contestation
context
contextual
contexture
contiguity
contiguous
continence
continent
continental
continental breakfast
continental divide
continental drift
continental shelf
contingence
contingency
contingent
continual
continually
continuance
continuant
continuate
continuation
continuation school
continuative
continuator
continue
continued fraction
continuity
continuity girl
continuo
continuous
continuous spectrum
continuous waves
continuum
conto
contort
contorted
contortion
contortionist
contortive
contour
contour feather
contour interval
contour line
contour map
contour sheet
contr.
contra
contra-
contraband
contrabandist
contrabass
contrabassoon
contraception
contraceptive
contract
contract bridge
contracted
contractile
contraction
contractive
contractor
contractual
contracture
contradance
contradict
contradiction
contradictory
contradistinction
contradistinguish
contrail
contraindicate
contralto
contraoctave
controversy
controvert
contumacious
contumacy
contumelious
contumely
contuse
contusion
conundrum
conurbation
conure
convalesce
convalescence
convalescent
convection
convector
convenance
convene
convenience
convenient
convent
conventicle
convention
conventional
conventionalism
conventionality
conventionalize
conventioneer
conventioner
convivial
converge
convergence
convergent
conversable
conversant
conversation
conversation piece
conversational
conversationalist
conversazione
converse
conversion
convert
converted
converter
convertible
convertiplane
convertite
cooling-off period
coolish
coolth
coom
coomb
coon
coon’s age
cooncan
coonhound
coonskin
coontie
coop
coop.
cooper
coopage
cooperate
cooperation
cooperative
cooperative society
coopy
coordinate
coordinating conjunction
coordination
coot
cootch
cootie
cop
cop out
copacetic
copaiba
copal
copalite
copalm
coparcenary
coparcener
copartner
cope
copeck
copepod
coper
copestone
copier
copilot
coping
coping saw
coping stone
copious
coplanar
copolymers

copolymerize
copper
copper pyrites
copperas
copperhead
copperplate
coppersmith
coppery
coppice
copra
copro-
coprolalia
coprolite
coprology
coprophagous
coprophilic
coprophilous
copse
copter
copula
copulate
copulation
copulative
copy
copy desk
copy editor
copy paper
copy-edit
copybook
copyboy
copycat
copyhold
copyholder
copyist
copyread
copyreader
copyright
copywriter
coaq au vin
coquelicot
coquet
coquetry
coquette
coquilla nut
coquillage
coquille
coquina
coquito
cor anglais
co.
coraciiform
coracle
coracoid
coral
coral reef
coral snake
coral tree
coralline
corallite
corallloid
coranto
corban
corbeil
corbel
corbicula
corbie
corbie gable
cord
cordage
cordate
corded
cordial
cordiality
cordierite
cordiform
cordilleria
cording
cordite
cordless
cordoba
cordon
cordon bleu
cordon sanitaire
cordovan
cords
corduroy
corduroy road
corduroys
cordwain
cordwainer
cordwood
core
corelation
corelative
coreligionist
corncrib
cornea
corned
cornel
cornelian
cornemuse
corneous
corner
cornered
cornerstone
cornerwise
cornet
cornecty
cometist
cornett
cornfield
cornflakes
cornflower
cornhusk
cornhusking
cornice
corniculate
cornstalk
cornstarch
cornu
cornucopia
cornute
cornuted
corny
corody
corolla
corollaceous
corollary
corona
corona discharge
coronach
coronagraph
coronal
coronal suture
coronary
coronary insufficiency
coronary thrombosis
coronation
coronener
coronet
coroneted
coronograph
corp.
corpora
corporal
corporal punishment
corporate
corporation
corporative
corporator
corporeal
corporeity
corposant
corps
corps de ballet
corps diplomatique
corpse
corpsman
corpulence
corpulent
corpus
corpus callosum
corpus delicti
corpus juris
corpus luteum
corpus striatum
corpuscle
corpuscular theory
corr.
corrade
corrail
corrasion
correct
correction
correctitude
corrective
correl.
correlate
correlation
correlation coefficient
correlative
correlative conjunction
correspond
correspondence
correspondence principle
correspondence school
correspondent
corrida
corridor
corrie
corrigendum
corigible
corival
corroborant
corroborate
corroboration
corroboree
crode
crody
croson
corrosive
corrosive sublimate
corrugate
corrugated iron
corrugated paper
corrugation
corrupt
corruptible
corruption
corsage
corsair
corse
corselet
corset
cortege
cortex
cortical
corticate
corticosteroid
corticosterone
cortisol
cortisone
corundum
coruscate
coruscation
corves
corvette
corvine
corybantic
corydalis
corymb
coryphaeus
coryza
cos
cos lettuce
cosec
cosecant
coseismal
cotangent
cote
cotemporary
cotenant
coterie
coterminal
coth
cothurnus
cotidal
cotillion
cotinga
cotoneaster
cotquean
cotta
cottage
cottage cheese
cottage loaf
cottage piano
cottage
cottager
cottar
cotter
cotter pin
cottier
cotton
cotton batting
cotton belt
cotton cake
cotton candy
cotton flannel
cotton gin
cotton grass
cotton mill
cotton picker
cotton stainer
cotton wool
cottonade
cottonmouth
cottonseed
cottonseed meal
cottonseed oil
cottontail
cottonweed
cottonwood
cottony
cottony-cushion scale
cotyledon
coucal
couch
couch grass
cochant
couching
cougar
cough
cough drop
cough up
could
couldn't
couldst
coulee
coulisse
couloir
coulomb
coulomter
coulter
coumarin
coumarone
council
council fire
council of state
council of war
council school
council-manager plan
councillor
councilman
councilor
councilwoman
counsel
counsellor
counselor
counselor-at-law
count
count noun
count on
count palatine
countable
countdown
countenance
counter
counter-
counteraccusation
counteract
counterattack
counterattraction
counterbalance
counterblast
counterblow
countertype
countervail
counterweigh
counterweight
counterword
counterwork
countess
counting house
countless
countrified
country
country club
country cousin
country dance
country gentleman
country house
country music
country rock
country seat
country store
country-and-western
country-bred
country-dance
country-wide
countryfied
countryman
countryside
countrywoman
county
county commissioner
county court
county palatine
county seat
coup
coup d'oeil
coup de main
coup de plume
coupe
couple
coupler
couplet
coupling
coupon
coupon bond
courage
courageous
courante
coureur de bois
courier
courlan
course
courser
courses
coursing
court
court card
court dress
court hand
court of appeals
court of chancery
court of first instance
court of honor
court of inquiry
court of record
court of wards
court plaster
court tennis
court-martial
courteous
courtesan
courtesy
courtesy title
courthouse
courtier
courtly
courtly love
courtroom
courtship
courtyard
couscous
cousin
cousin-german
couteau
couthie
couture
couturier
couvade
covalence
covariance
cove
coven
covenant
covenantee
covenanter
covenantor
cover
cracked
cracker
cracker bonbon
cracker-barrel
crackerjack
cracking
crackle
crackeware
crackling
cracknel
crackpot
cracksman
cradle
cradlesong
cradling
craft
craft union
craftsman
craftwork
crafty
crag
craggy
craggsman
crake
cram
cram-full
crambo
crammer
cramoisy
cramp
cramped
crampon
cranage
cranberry
cranberry bush
crane
crane fly
cranial
cranial index
cranial nerve
craniate
cranio-
craniology
craniometer
cranimetry
craniotomy
cranium
crank
crankcase
crankle
crankpin
crankshaft
cranky
crannog
cranny
crap
crap out
crape
crape myrtle
crappie
craps
crapshooter
crapulent
crapulous
craquelure
crash
crash boat
crash dive
crash helmet
crash pad
crash-land
crashing
crasis
crass
crassulaceous
cratch
crate
 crater
crunch
cravat
 crave
 craven
 craving
craw
crawfish
crawl
crawler
crawly
crayfish
 crayon
craze
crazed
crazy
crazy bone
crazy paving
crazy quilt
crazyweed
creak
creaky
cream
cream cheese
cream of tartar
cream puff
cream sauce
cream soda
cream-colored
creamcups
creamer
creamery
creamy
crease
create
creatinine
creation
creationism
creative
creative imagination
creativity
creator
creatural
creature
creature comforts
creaturely
credence
credendum
credent
credential
credenza
credibility gap
credible
credit
credit account
credit card
credit insurance
credit life insurance
credit line
credit man
credit rating
credit slip
credit standing
credit union
creditable
creditor
credits
credo
credulity
credulous
creed
creek
creel
creep
creeper
creepie
creeping Jennie
creeping bent grass
creeps
creepy
creese
cremate
cremator
crematorium
crematory
crenate
crenation
crenel
crenelate
crenelation
crenellate
crenulate
crenulation
creodont
creole
creolized
cresol
creosote
creosote bush
crepe
crepe de Chine
crepe hair
crepe paper
crepe rubber
crepitate
crept
crepuscular
crepuscular light
crepuscule
crescendo
crescent
crescentic
cresol
cress
cresset
crest
crestfallen
cresting
cretaceous
cretic
cretin
cretinism
cretenne
crevasse
crevise
crew
crew cut
crew neck
crewel
crewelwork
crib
cribbage
cribbage board
cribbing
crible
cribiform
cribwork
crick
cricket
cricoid
crier
crim.
crim. con.
crime
crime passionel
criminal
criminal conversation
criminal law
criminal syndicalism
criminality
criminate
criminology
crimmer
crimp
crimple
crimpy
crimson
crine
cringe
cringle
crinite
crinkle
crinkleroot
crinkly
crinkum-crankum
crinoid
crinoline
crinose
crinum
criollo
crippling
crisis
crisis theology
crisp
crispate
crispation
crisper
crispy
crisscross
crissum
crista
cristate
cristobalite
crit.
criterion
critic
critical
critical angle
critical mass
critical philosophy
critical point
critical pressure
critical state
critical temperature
critical volume
criticaster
criticism
criticize
critique
critter
croak
croaker
croaky
crocein
crochet
crochet hook
crocidolite
crock
crocked
crockery
crocket
crocodile
crocodile bird
crocodile tears
crocodilian
crocoite
crocus
croft
crofter
croissant
cromlech
cromorne
crone
cronk
crony
cronyism
crook
crookback
crooked
croon
crop
crop out
crop rotation
crop up
crop-dusting
crop-eared
cropland
cropper
croquet
croquette
crone
crosier
cross
cross bun
cross fire
cross hairs
cross of Lorraine
cross product
cross relation
cross section
cross wires
cross-bench
cross-check
cross-country
cross-crosslet
cross-examine
cross-eye
cross-eyed
cross-fade
cross-fertilization
cross-fertilize
cross-garnet
cross-grained
cross-index
cross-legged
cross-link
cross-pollinate
cross-pollination
cross-purpose
cross-question
cross-refer
cross-staff
cross-stitch
crossarm
crossbar
crossbeam
crossbill
crossbones
crossbow
crossbred
crossbreed
crosscurrent
crosscut
crosscut saw
crosse
crossed
crosshatch
crosshead
crossing
crossing over
crossjack
crosslet
crossly
crossness
crossopterygian
crossover
crossover network
crosspatch
crosspiece
crossroad
crossroads
crossruff
crosstie
crosstree
crosswalk
crossway
crossways
crosswind
crosswise
crossword puzzle
crotch
crotchet
crotchety
croton
croton oil
crotalic acid
crouch
croup
croupier
croupous pneumonia
crouse
crouton
crow
crow blackbird
crow's-foot
crow's-nest
crowbar
crowberry
crowboot
crowd
crowded
crowfoot
crown
crown cap
crown colony
crown glass
crown graft
crown imperial
crown jewels
crown land
crown lens
crown of thorns
crown post
crown prince
crown princess
crown saw
crown vetch
crown wheel
crowned
crowning
crownpiece
crownwork
croze
crustal
crusted
crusty
crutch
crux
crux ansata
cruzado
cruzeiro
cruth
cry
cry down
cry out
crybaby
crying
cryotherapy
cryo-
cryobiology
cryogen
cryogenics
cryohydrate
cryolite
cryology
cryometer
cryoscope
cryoscopy
cryostat
cryosurgery
cryotherapy
crypt
cryptanalysis
cryptic
crypto-
cryptoanalysis
cryptoclastic
cryptocrystalline
cryptogam
cryptogenic
cryptogram
cryptograph
cryptography
cryptology
cryptomeria
cryptonym
cryptonymous
cryptozoic
cryptozoite
cry.
crystal
crystal ball
crystal counter
crystal detector
crystal gazing
crystal lattice
crystal pickup
crystal set
crystal system
crystal violet
crystal vision
crystalline
crystalline lens
crystallite
crystallization
crystallize
crystallo-
crystallography
crystalloid
cs.
csc
csch
c.t.
cetenidium
ctenoid
ctenophore
ctn
c.tr.
c.t.
cub
cub reporter
cubage
cubature
cubby
cubbyhole
cube
cube root
cubeb
cubic
cubic measure
cubical
cubicle
cubiculum
cubiform
cubism
cubit

cubital
cubitiere
cuboid
cumulative voting
cumuliform
cumulonimbus
cumulostratus
cumulous
cumulus
cunctation
cuneal
cuneate
cuneiform
cunnilingus
cunning
cup
cupbearer
cupboard
cupboard love
cupcake
cupel
cupellation
cupid
cupidity
cupola
cupped
cupping
cupping glass
cupreous
cupric
cupriferous
cuprite
cupro-
cupronickel
cuprous
cuprum
cupulate
cupule
cur
cur.
curable
curacy
curagh
curare
curarize
curassow
curate
curative
curator
curb
curb bit
curb roof
curbing
curbstone
curch
curculio
curcuma
curd
curd cheese
curdle
cure
cure-all
curet
curettage
curfew
curia
curie
curio
curiosa
curiosity
curious
curium
curl
curl up
curler
curliew
curlicue
curling
curling iron
curlpaper
curly
curmudgeon
currajong
currant
currency
current
current account
current assets
current density
current expenses
current liabilities
curricule
curriculum
curriculum vitae
currier
curriery
currish
curry
curry powder
custodian
custody
custom
custom-built
custom-made
customable
customary
customer
customer's man
customhouse
customs
customs union
custos
custumal
cut
cut across
cut and thrust
cut down
cut glass
cut in
cut off
cut out
cut up
cut-and-dried
cutaneous
cutaway
cutback
cutch
cutcherry
cute
cuticle
cuticula
cutie
cutin
cutinize
cutis
cutis vera
cutlass
cutlass fish
cutler
cutlery
cutlet
cutoff
cutout
cutpurse
cutter
cutthroat
cutthroat trout
cycloparaffin
cyclopedia
cyclopentane
cycloplegia
cyclopropane
cyclorama
cyclosis
cyclostyle
cyclothymia
cyclotron
cyder
cygnet
cyl.
cyliner
cylinder
head
press
cylindrical
cylindrical coordinates
cylindroid
cylix
cyma
cymar
cymatium
cymbal
cymbiform
cyme
cymene
cymogene
cymograph
cymoid
cymophane
cymose
cynic
cynical
cynicism
cynosure
cyperaceous
cypher
cypress
cypress vine
cyprinid
cyprinodont
cyprinoid
cypripedium
cypsela
cyst
cystectomy
cysteine
cystic
cystic fibrosis
cysticercoid
cysticercus
cystine
cystitis
cysto-
cystocarp
cystocele
cystoid
cystolith
cystoscope
cystotomy
cytaster
cyto-
cytochemistry
cytochrome
cytogenesis
cytogenetics
cytokinesis
cytologist
cytology
cytolysin
cytolysis
cyton
cytoplasm
cytoplasm
cytosine
cytotaxonomy
czar
czardas
czardom
czarevitch
czarevna
czarina
czarism
czarist
d
d.w.t.
dB
da Vinci
da capo
dab
dab hand
dabber
dabble
dabchick
dabster
dace
dacha
dachshund
dacoit
dacoity
dactyl
dactylic
dactylo-
dactylogram
dactylography
dactyloology
dad
daddy
daddy-longlegs
dado
daedal
daemon
daft
daft
daff
daft
dag
dagger
daggerboard
daglock
dago
dagoba
daguerreotype
dah
dahabeah
 Dahlia
daily
daily double
daily dozen
daimon
daimony
daisty
daiquiri
daider
daider
daider
daidermaid
daiderman
daider
daider
daider
dal segno
dale
dalesman
daleth
dalliance
dally
dalmatic
daltonism
dam
damage
damages
damaging
daman
damar
damascene
damask
damask rose
dame
dame school
dammar
damn
damnable
damnation
damnatory
dammed
dammedest
damnify
damning
damoiselle
damp
dampen
damper
damper pedal
dampproof
damsel
damselfish
damselfly
damson
dance
dance hall
dance of death
dancer
dancette
dandelion
dander
dandify
dandiprat
dandle
darn
damed
darnel
darnier
darning egg
darning needle
dart
dartboard
darter
dash
dashboard
dashed
dasheen
dasher
dashing
dashpot
dastard
dastardly
dasyure
dat.
data
data processing
datary
datcha
date
date line
date palm
date slip
date stamp
date-stamp
dated
dateless
dateline
dative
dato
datolite
datum
datum plane
datura
daub
daube
daubery
daughter
daughter of Eve
daughter-in-law
daughterly
daunt
dauntless
dauphin
dauphine
davenport
davit
daw
dawdle
dawn
day
day bed
day blindness
day coach
day laborer
day letter
day lily
day loan
day nursery
day room
day school
day shift
day-care center
day-to-day
daybook
daybreak
daydream
dayflower
dayfly
daylight
daylight-saving time
daylong
days
days of grace
dayspring
daystar
daylight
daze
dazzle
dbl.
dd.
de
de Broglie
de Broglie wave
de Gaulle
de Kooning
de Lesseps
defactiv
defide
defjure
defjuro
delos Angeles
de novo
de profundis
de rigueur
de trop
de-
de-Stalinization
de-emphasize
deacon
deaconess
deaconry
deactivate
dead
dead beat
dead center
dead duck
dead end
dead flat
dead hand
dead heat
dead letter
dead load
dead man's handle
dead march
dead matter
dead point
dead reckoning
dead set
dead time
dead water
dead weight
dead-and-alive
dead-ball line
dead-stick landing
deadbeat
deaden
deadening
deadeye
deadfall
deadhead
dealdight
deadline
deadlock
deadly
deadly nightshade
deady sins
deadpan
deadweight
deadwood
deaf
deaf-and-dumb
deaf-and-dumb alphabet
deaf-mute
deafen
deafening
deal
dealate
dealer
dealfish
dealing
dealings
dealt
deanimate
dean
deanery
dear
dearly
dearth
deary
dearth
death
death adder
death bell
death camas
death cell
death certificate
death chair
death cup
death duty
death house
death instinct
death knell
death mask
death rate
death rattle
death ray
death row
death sentence
death warrant
death wish
death’s-head
death’s-head moth
deathbed
deathblow
deathday
deathful
deathless
deathlike
deathly
deathtrap
deathwatch
deb
deb.
debacle
debag
debar
debark
debase
debatable
debate
debrauch
debrauched
debrauchee
debrauchery
debenture
debenture bond
debilitate
debility
debit
debonair
debouch
debouchment
dehrief
debris
debt
debt service
debtor
debug
debunk
debus
debut
debutant
debutante
dec.
deca-
decade
decadence
decadent
decaffeinate
decagon
decagram
decahedron
decal
decalcify
decalcomania
decalescence
decaliter
decalogue
decameter
decamp
decanal
decane
decani
decant
decanter
decapitate
decapod
decarbonate
decarbonize
decarburize
decare
decastere
decastyle
decasyllabic
decasyllable
decathlon
decay
dec.
decese
deceased
decedent
deceit
deceitful
deceive
decelerate
deceleron
decemvir
decemvirate
decencies
decency
decennary
decennial
decennium
decent
decentralization
decentralize
decception
decptive
decptive cadence
decerebrate
decern
deci-
deciare
decibel
decide
decided
decidua
deciduous
deciduous tooth
decigram
decile
deciliter
decillion
decimal
decimal classification
decimal fraction
decimal point
decimal system
decimalize
decimate
decimeter
decipher
decision
decisive
deck
deck chair
deck hand
deck officer
deck tennis
deckhand
deckhouse
deckle
deckle edge
decl.
declaim
declamation
declamatory
declarant
declaration
declarative
declaratory
declare
declared
declarer
declass
declassify
decension
decinate
decination
decinatory
decinature
decline
declinometer
declivitous
declivity
declivous
decoc
decocion
decode
decoder
decollate
decolonize
decolorant
decolorize
decommission
decomposition
decomposed
decomposer
decompound
decompress
decompression sickness
decongestant
deconsecrate
decorticate
decortication
decoy
decrepit
decrepitude
decresc.
decrescendo
decrescent
decretal
deer mouse
deerhound
deerskin
deerstalker
def.
deface
defalcate
defalcation
defamation
defamatory
defame
default
defaulter
defeasance
defeasible
defeat
defeatism
defeatist
defecate
defect
defection
defective
defective number
defective year
defector
defence
defend
defendant
defenestration
defense
defense mechanism
defensible
defensive
defer
deferecence
deferen
deferral
deferral
defers
deferral
defered
deferred
deferred annuity
defiance
defiant
defibrillator
deficiency
deficiency disease
deficient
deficient number
deficit
deficit spending
defilade
defile
define
definiendum
definiens
definite
definite article
definite integral
definitely
definition
definitive
deflagrate
deflate
deflation
deflect
deflected
deflection
deflective
deflexed
deflocculate
defloration
deflower
defluxion
defoliant
defoliate
deforce
deforest
deform
deforation
defomed
deformity
defraud
defray
defrayal
defrock
defrost
defroster
def
defunct
defy
deg.
degas
degauss
degeneracy
degenerate
degeneration
degenerative joint disease
de glutinate
de glutition
degradable
degradation
degrade
degraded
degrading
degrease
degree
degree of freedom
degree-day
degression
degust
dehisce
dehiscence
dehiscent
dehorn
dehumanize
dehumidifier
dehumidify
dehydrate
dehydrogenase
dehydrogenate
dehypnotize
deice
deicer
decide
dectic
defic
defication
deform
defy
defign
defil
definosophist
defism
defist
defity
defect
defecta
defected
defection
defa-
dekaliter
dekameter
dekko
del.
deliverance
delivery
delivery room
dell
della Robbia
delocalize
delouse
delphinium
delta
delta connection
delta iron
delta ray
delta wing
deltaic
deltoid
delubrum
delude
deluge
delusion
delusive
deluxe
delve
demagnetize
demagoge
demagogue
demagoguery
demagogy
demand
demand bill
demand deposit
demand loan
demand note
demandant
demanding
demantoid
demarcate
demarcation
demarche
demark
demasculinize
dematerialize
deme
demean
demeanor
dement
demented
dementia
dementia praecox
demerit
demesne
demi-
demi-sec
demibastion
demicanton
demigod
demijohn
demilitarize
demilune
demimondaine
deminonde
demineralize
demirelief
demirep
demise
demisemiquaver
demission
demit
demitasse
demiurge
demivolt
demo
demo-
demob
demobilize
democracy
democrat
democratic
democratize
demodulate
demodulation
demodulator
demography
demoiselle
demolish
demolition
demolition bomb
demon
demonetize
demoniac
demonic
demonism
demonize
demonography
demonolater
demonolatry
demonology
denomination
denominational
denominationalism
denominative
denominator
denotation
denotative
denote
denouement
denounce
dense
densify
densimeter
densitometer
density
dent
dent.
dental
dental floss
dental surgeon
dentalium
dentate
dentation
dentelle
denti-
denticle
denticulate
denticulation
denticiform
dentifrice
dentil
dentil band
dentilabial
dentilingual
dentist
dentistry
dentition
dentoid
denture
denudate
denudation
denude
denumerable
denunciate
denunciation
denunciatory
deny
deadand
deodar
deoantorant
deoodorize
deontology
deooxidize
deoxygenate
deoxyribonuclease
deoxyribonucleic acid
deoxyribose
dep.
depart
departed
department
department store
departmentalism
departmentalize
departure
depend
dependable
dependence
dependency
dependent
dependent variable
depersonalization
depersonalize
depict
depicture
depilate
depilatory
deplane
deplete
deplorable
deplore
deploy
deplume
depolarize
depolymerize
depone
deponent
depopulate
deport
deporation
deporte
deportment
deposal
depose
deposit
deposit slip
descendible
descent
describe
description
descriptive
descriptive geometry
descriptive linguistics
descry
desecrate
desegregate
desensitize
desert
desert boots
desert fathers
desert rat
deserted
desertion
deserve
deserved
deservedly
deserving
desex
desexualize
deshabille
desiccant
desiccate
desiccated
desiccator
desiderata
desiderate
desiderative
desideratum
design
designate
designation
designed
designedly
designer
designing
desinence
desirable
desire
desired
desirous
desist
desk
desman
desmid
desmoid
desolate
desolation
desorb
despair
despairing
despatch
desperado
desperate
desperation
despicable
despise
despite
despiteful
despoil
despoliation
despond
despondency
despondent
despot
despotic
despotism
despumate
desquamate
dessert
dessert wine
dessertspoon
dessiatine
destination
destine
destined
destiny
destitute
destitution
destrier
destroy
destroyer
destroyer escort
destruct
destructible
destruction
destructionist
destructive
destructive distillation
destructor
desuetude
desulphurize
desultory
detach
detached
detachment
detail
detail drawing
detail man
detailed
detain
detainer
detect
detection
detective
detector
detent
detention
detention home
deter
deterge
detergency
detergent
deteriorate
deterioration
determinable
determinant
determinate
determination
determinative
determine
determined
determiner
determinism
deterrence
deterrent
detest
detestable
detestation
dethrone
detinue
detonate
detonation
detonator
detour
detoxicate
detoxify
detract
detraction
detrain
detribalize
detriment
detrimental
detrital
detrition
detritus
detrude
detruncate
detrusion
detumescence
deuce
duced
deus ex machina
deuteragonist
deuteranope
deuteranopia
deuterium
deuterium oxide
deutero-
deuterogamy
deuteron
deutoplasrn
deutzia
deva
devaluate
devaluation
devalue
devastate
devastating
devastation
develop
developer
developing
development
devest
deviant
deviate
deviation
deviationism
device
devil
devil's advocate
devil's darning needle
devil's food cake
devil's grip
devil's tattoo
devil-may-care
deviled
devilfish
dextroglucose
dextrogyrate
dextrorotation
dextrorse
dextrose
dextrosinistral
dextrous
dey
dg
dharana
dhara
dharna
dhobi
dhole
dhoti
dhow
dhyana
di-
di.
dia-
diabetic
diabetes
diabetes insipidus
diabetes mellitus
diabetic
diabolerie
diabolic
diabolism
diabolize
diabolo
diacustic
diacetylmorphine
diacronic
diacid
diaconal
diaconate
diaconicon
diaconicum
diacritic
diacritical
diactinic
diadelphous
diadem
diadromous
diaeresis
diag.
diagenesis
diageotropism
diagnose
diagnosis
diagnostic
diagnostician
diagnostics
diagonal
diagram
diagraph
diakinesis
dial
dial telephone
dial tone
dial.
dialect
dialect atlas
dialect geography
dialectal
dialectic
dialectical
dialectical materialism
dialectician
dialecticism
dialectics
dialectologist
dialectology
diallage
dialogism
dialogist
dialogize
dialogue
dialyse
dialyser
dalysis
dialytic
dialyze
diam.
diamagnet
diamagnetic
diamagnetism
diameter
diametral
diametrically
diamine
diamond
diamond drill
diamond jubilee
diamond point
diamondback
diamondback rattlesnake
diamondback terrapin
diandrous
dianetics
dianoetic
dianoia
dianthus
diapason
diapause
diapedesis
diaper
diaper rash
diaphane
diaphaneity
diaphanous
diaphone
diaphony
diaphoresis
diaphoretic
diaphragm
diaphysis
diaphophysis
diapositive
diarchy
diarist
diarrhea
diarrhoea
diarthrosis
diary
diaspore
diastase
diastasis
diastema
diaster
diastole
diastrophism
diastyle
diatessaron
diathermic
diathermy
diathesis
diatom
diatomaceous
diatomaceous earth
diatomic
diatomite
diatonic
diatribe
dicotyledon
dicrotic
dict.
dicta
dictate
dictation
dictator
dictatorial
dictatorship
diction
dictionary
dictionary catalog
dictum
did
didactic
didactics

diddle
didn't
dido
didst
didymium
didymous
didynamous
die
die down
die out
die-hard
dieback
diecious
diehard
dieldrin
dielectric
dielectric constant
dielectric heating
diencephalon
dieresis
dies non
diesel
diesel cycle
diesel engine
diesel oil
diesel-electric
desis
diestock
diet
dietary
dietetic
dietetics
digestion
digestive
digestive biscuit
digged
digger
digger wasp
diggings
dight
digit
digital
digital clock
digital computer
digitalin
digitalis
digitalism
digitalize
digitate
digitiform
digitgrade
digitize
digitoxin
diglot
dignified
dignify
dignitary
dignity
digraph
digress
dgression
digressive
dihedral
dihedral angle
dihedron
dihybrid
dihydric
dihydrostreptomycin
dik-dik
dike
dilapidate
dilapidated
dilapidation
dilatant
dilatation
dilate
dilation
dilative
dilatometer
dilator
dilatory
dildo
dilemma
dilettante
dilettantism
diligence
diligent
dill
dill pickle
dilly
dilly bag
dillydally
diluent
dilute
dilution
diluvial
diluvium
dim
dim.
dime
dime novel
dime store
dimenhydrinate
dimension
dimer
dimercaprol
dimerous
dimeter
dimetric
dimidiate
diminish
diminished
diminished seventh chord
diminuendo
diminution
diminutive
dimissory
dimissory letter
dimity
dimmer
dimorph
dimorphism
dimorphous
dimple
dimwit
din
dinar
dine
dine out
diner
dinergic
dinette
ding
ding-dong
dingbat
dinge
dinghy
dingle
dingo
dingus
dingy
dining car
dining hall
dining room
dining table
dinitrobenzene
dink
dinky
dinner
dinner clothes
dinner dress
dinner jacket
dinner plate
dinnerware
dinoflagellate
dinosaur
dinosaurian
dinothere
dint
diocesan
diocese
diode
dioecious
diopside
dioptrase
diophtometer
dioptric
dioptrics
diorama
diorite
dioxide
dip
dipeptide
dipetalous
diphase
diphenyl
diphenylamine
diphenylhydantoin
diphosgene
diphtheria
diphthong
diphthongize
diphyllous
diphyodont
dipl.
diplegia
diplex
diplo-
diploblastic
diplocardiac
diplococcus
diplodocus
diploid
diploma
diplomacy
diplomat
diplomate
diplomatic
diplomatic corps
diplomatic immunity
diplomatic pouch
diplomatics
diplomatist
dioplia
diplopod
diplosis
diplostemonous
dipnoan
dipody
dipole
dipper
dippy
dipsomania
dipsomaniac
dipstick
dipteral
dipteron
dipterocarpaceous
dipterous
diptych
dir.
dire
direct
direct action
direct current
direct distance dialing
direct evidence
direct lighting
direct mail
direct object
direct primary
direct tax
directed
direction
direction finder
directional
directions
directive
directly
director
directorate
directorial
directory
directrix
direful
dirge
dirham
dirigible
dirk
dirndl
dirt
dirt-cheap
dirty
dis-
disability
disability clause
disability insurance
disable
disabled
disabuse
disaccharide
disaccord
disaccredit
disaccustom
disadvantage
disadvantaged
disadvantageous
disaffect
disaffection
disaffiliate
disaffirm
disafforest
disagree
disagreeable
disagreement
disallow
disannul
disappear
disappearance
disappoint
disappointed
disappointment
disapprove
disarm
disarmament
disarming
disarrange
disarray
disarticulate
disassemble
disassembly
disassociate
disaster
disastrous
disavow
disavowal
disband
disbar
disbelief
disbelieve
disbranch
disbud
disburden
disburse
disbursement
disc
disc jockey
disc.
discalced
discant
discard
discarnate
discern
discernible
discerning
discernment
discharge
disciple
discount broker
discount house
discount rate
discount store
discountenance
discounter
discourage
discouragement
discourse
discourteous
discourtesy
discover
discovers
discovery
discred
discreditable
discree
discrepancy
discreant
discrete
discretion
discretionary
discriminant
discriminate
discriminating
discrimination
discriminative
discriminator
discriminatory
discrown
discursion
discursive
discus
discuss
discussant
discussion
disdain
disdainful
disease
diseased
disembark
disembarrass
disembodied
disembodied
disembowel
disembroil
 disenable
 disenchant
 disen cumbersome
 disen dow
 disenfranchise
 dis engage
 dis engagement
 disentail
 disentangle
 disen thrall
 disen throne
 disen title
 disen tomb
 disen twine
 dise palous
 dise quilibrium
 dis establish
 dis estee m
 dise ur
 dise use
 dis favor
 dis feature
 dis figure
 dis figuration
 dis figure ment
 dis forest
 dis franchise
 dis frock
 dis gorge
 dis grace
 dis grace ful
 dis gruntle
 dis guise
 dis gust
 dis gust ing
 dish
 dish out
 dish up
 dish abille
 dish armonious
 dish armony
 dish cloth
 dish cloth gourd
 dis hearten
 dished
 dis herison
 dis hevel
disheveled
dishonest
dishonesty
dishonor
dishonorable
dishonorable discharge
dishpan
dishrag
dish towel
dishwasher
dishwater
disillusion
disillusionize
disincentive
disinclination
disincline
disinclined
disinfect
disinfectant
disinfection
disinfect

disillusionous
disinheritance
disintegrate
disintegration
disinter
disinterest
disinterested
disject
disjecta membra
disjoin
disjoined
disjoint
disjointed
disjunct

disjunction
disjunctive
disjuncture
disk
disk harrow
disk-seal tube
dislike
dislimn
dislocate
dislocation
dislodge
disloyal
disloyalty
dismal
dismantle
dismast
dismay
dismember
d dismissing
dismissal
disservice
dismount
disobedience
disobedient
dis obey
disoblige
disoperation
disorder
disordered
disorderly
disorderly conduct
disorderly house
disorganization
disorganize
disorient
disorientate
disown
disparagement
disparage
disparate
disparity
dispart
dis passion
dispassionate
dispatch
dispatch boat
dispatch box
dispatch case
dispatcher
dispel
dispender
dispensable
dispensary
dispensation
dispensatory
dispense
dispenser
dispeople
dispermous
dispersal
dispersant
disperse
dispersion
dispensive
dispersoid
dispirit
dispirited
displace
displaced person
displacement
displacement ton
displant
display
displayed
displayed
displease
displeasure
displode
dislume
disport
disposable
disposable income
disposal
dispose
disposed
disposition
dispossess
disposure
dispraise
dispraise
disprize
disprize
disproof
disproof
disproportion
disproportionate
disproportionation
disprove
disputable
disputant
disputation
disputatious
dispute
disqualification
disqualify
disquiet
disquieting
disquietude
disquisition
disrate
disregard
disregardful
disrelish
disremember
disrepair
disreputable
disrepute
disrespect
disrespectable
disrespectful
disrobe
disrupt
disruption
disruptive
disruptive discharge
dissatisfaction
dissatisfactory
dissatisfied
dissatisfy
dissect
dissected
dissection
dissector tube
disseise
disseisin
dissemblance
dissemble
disseminate
deseminate
deseminule
dissension
dissent
dissenter
dissentent
dissentious
dissepiment
dissert
dissertate
dissertation
disserve
disservice
dissever
dissidence
dissident
dissimilar
dissimilarity
dissimilate
dissimilation
dissimilitude
dissimulate
dissimulation
dissipate
dissipated
dissipation
dissociable
dissociate
dissociation
dissogeny
dissoluble
dissolute
dissolution
dissolve
dissolvent
dissonance
dissonancy
dissonant
dissuade
dissuasion
dissuasive
dissyllable
dissymmetry
dist.
distaff
distaff side
distal
distance
distant
distaste
distasteful
distemper
distend
distended
distich
distichous
distil
distill
distillate
distillation
distilled
distiller
distillery
distinct
distinction
distinctive
distinctive feature
distinctly
distinguish
distinguished
distinguishing
distort
distorted
distortion
distr.
distract
distracted
distraction
distrain
distrain
distract
distraught
distress
distress merchandise
distressed
distressful
distributary
distribute
distributee
distribution
distribution function
distributive
distributor
district
district attorney
district court
distrust
distrustful
disturb
disturbance
disturbed
disturbing
disulfide
disulfiram
disunion
disunite
disunity
disuse
disused
disvalue
disyllable
dit
ditch
ditchwater
ditheism
dither
dithionite
dithyramb
dithyrambic
dittany
ditto
ditto mark
dittography
ditty
ditty bag
ditty box
diuresis
diuretic
diurnal
diurnal parallax
div.
diva
divagate
divalent
divan
divaricate
dive
dive bomber
dive-bomb
diver
diverge
divergence
divergency
divergent
divers
diverse
diversification
diversified
diversiform
diversify
diversion
diversity
diver
diverticulitis
diverticulosis
diverticulum
divertimento
diverting
divertissement
divest
divestiture
divi-divi
divide
divided
divided highway
dividend
divider
do in
do over
do up
do with
do without
do-all
do-gooder
do-goodism
do-it-yourself
do-nothing
do-nothingism
do-or-die
doable
dobbin
dobby
dobra
dobsonfly
doc
doc.
docent
doch-an-dorrach
docile
dock
dockage
docker
docket
dockhand
dockyard
doctor
doctorate
doctinaire
doctoral
doctoral theology
documentary
documentation
dodder
doddered
doddering
dodeca-

dodecagon
dodecahedron
dodecaneonic acid
dodecasyllable

dodge
dodger
dodo
doe
doer
does
doeskin
doff
dog
dog Latin
dog biscuit
dog clutch
dog collar
dog days
dog fennel
dog in the manger
dog paddle
dog rose
dog sled
dog tag
dog's-tail
dog's-tongue
dog-day cicada
dog-car
dog-eared
dog-eat-dog
dog-tired
dogbane
dogberry
dogcart
dogcatcher
doge
dogface
dogfight
dogfish
dogged
dogger
doggerel
doggery
doggish
doggo
doggone
doggoned
doggy
doghouse
dogie
dogleg
dogleg fence
doglike
dogma
dolt
dom
dom.
domain
dome
domesday
domestic
domestic fowl
domestic science
domesticate
domesticity
domicile
domiciliary
domiciliate
dominance
dominant
dominant tenement
dominate
domination
dominations
domineer
domineering
dominical
dominical letter
dominie
dominion
dominions
dominium
domino
domino theory
dominoes
don
don't
dona
donate
donation
donative
done
donee
dong
donga
donjon
donkey
donna
donnish
donnybrook
donor
doodad
doodle
doodlebug
doodlesack
doolie
doom
doom palm
doonsday
door
doorbell
doorframe
doorjamb
doorkeeper
doorknob
doorman
doormat
doornail
doorelease
doorplate
doorpost
doorsill
doorsstep
doorsstone
doorstop
doorsway
dooryard
dopec
dopec fiend
dopecster
dopecy
don
donado
dorm
dormancy
dormant
dormer
dormeuse
dormie
dormitory
dormouse
dornick
doronicum
dorp
dorsad
dorsal
dorsal fin
dorser
dorsiferous
dorsiventral
dorso-
dorsoventral
dorsum
dorty
dory
dosage
dose
dosimeter
doss
dossal
dosser
dossier
dost
dot
dot product
dottage
dotard
dotation
dote
doth
doting
dotted
dotterel
dottle
dotty
double
double Dutch
double agent
double back
double bar
double bass
double bassoon
double bed
double boiler
double bond
double chin
double cross
double dagger
double decomposition
double eagle
double entendre
double entry
double exposure
double fault
double feature
double first
double flat
double glazing
double harness
double hitch
double indemnity
double jeopardy
double negative
double play
double pneumonia
double refraction
double rhyme
double salt
double sharp
double standard
double star
double tackle
double take
double time
double-acting
double-bank
double-breasted
double-check
double-cross
double-dealing
double-decker
double-edged
double-faced
double-header
double-helical gear
double-hung
double-jointed
double-minded
double-park
double-quick
double-reed
double-ripper
double-space
double-stop
double-talk
double-team
double-time
double-tongue
double-tongued
doubleganger
doubleheader
doubleness
doubles
doublet
doublethink
doubleton
doubletree
doubling
doubloon
doublure
doubly
doubt
doubtful
doubting Thomas
doubtless
douce
douceur
douche
dough
doughboy
doughnut
doughy
doughy
doum palm
douma
dour
doura
dourine
douse
douzepers
dove
dovecote
dovekie
dovelike
dovetail
dovetail plane
dovetail saw
dovetailed
dow
dowable
dowager
dowdy
dowel
dower
dower house
dowery
dowie
dowitcher
down
down payment
down under
down-and-out
down-at-heel
down-bow
down-to-earth
downbeat
downcast
downcome
downcomer
downdraft
downfall
downgrade
downhaul
downhearted
downhill
downpipe
downpour
downrange
downright
downs
downspout
downstage
downstairs
downstate
downstream
downstroke
downswing
downtown
downtrend
downtrodden
downturn
downward
downward mobility
downwards
downwash
downwind
dony
downy mildew
dowry
dowsabel
dowse
dowser
dowsing rod
doxology
doxy
doyen
doyenne
doyley
doze
doz.
dozee

dozens
dressing gown
dressing room
dressing sack
dressing station
dressing table
dressing-down
dressmaker
dressy
drew
dribble
driblet
dribs and drabs
dried
dried-up
drier
driest
drift
drift anchor
drift angle
drift ice
drift net
drift netter
drift tube
driftage
drifter
driftwood
drill
drill press
drilling
drillmaster
drillstock
drily
drink
drinkable
drinker
drinking
drinking fountain
drinking song
drinking water
drip
drip-dry
dripping
dripping pan
drippy
dripstone
drive
drive at
drive-in
drivel
driven
driver
driver ant
driver's seat
driveway
driving
driving wheel
drizzle
drogue
droit
droit des gens
droit du seigneur
droll
drollery
dromedary
dromond
drone
drongo
drool
droop
droopy
drop
drop black
drop cloth
drop curtain
drop forge
drop hammer
drop kick
drop leaf
drop letter
drop off
drop scene
drop shipment
drop shot
drop-forge
drop-kick
droplet
droplight
dropline
dropout
dropper
dropping
droppings
drops
dropsical
dropsonde
dropsy
dropwort
droshky
drosophila
dross
drought
droughty
drove
drover
drown
drowse
drowsy
drub
drubbing
dudge
drudging
drug
drug addict
drugget
druggist
drugstore
druid
drum
drum corps
drum major
drum majorette
drum out
drumbeat
drumfire
drumfish
drumhead
drumhead court-martial
drumlin
drummer
drumstick
drunk
drunkard
drunken
drunkenometer
drupe
drupelet
druse
dry
dry battery
dry cell
dry cleaner
dry cleaning
dry distillation
dry dock
dry farming
dry fly
dry goods
dry kiln
dry law
dry martini
dry measure
dry mop
dry nurse
dry offset
dry plate
dry rot
dry run
dry up
dry-bone ore
dry-bulb thermometer
dry-clean
dry-nurse
dry-salt
dryad
dryasdust
dryer
drying
drying oil
dryly
drypoint
drysalter
du Bellay
duad
dual
dual carriageway
dual personality
dual-purpose
dualism
dualistic
duality
duarchy
dub
dubbin
dubbing
dubiety
dubious
dubitable
dubitation
ducal
ducat
duce
duchess
duchy
duck
duck hawk
duck soup
duckbill
duckboard
ducking stool
duckling
duckpin
ducks
ducks and drakes
ducktail
duckweed
ducky
duct
ductile
ductless gland
dud
dude
dude ranch
dudeen
dudgeon
duds
due
due bill
duel
duelist
duello
duenna
dues
duet
duff
duffel
duffel bag
duffel coat
duffer
dug
dugong
dugout
duiker
duke
dukedom
dulcet
dulciana
dulcify
dulcimer
dulcinea
dulia
dysprosium
dysteleology
dysthymia
dystopia
dystrophy
dysuria
dz.
dziggetai
e
e'en
e'er
e.
e.e.
e.g.
e.o.
e.o.m.
ea.
each
each other
eager
eager beaver
eagle
eagle boat
eagle eye
eagle owl
eagle ray
eagle-eyed
eaglestone
eaglet
eaglewood
eagre
ealdorman
ear
ear lobe
ear shell
ear trumpet
ear-piercing
ear-splitting
earache
eardrop
eardrum
eared
earlap
ear flap
earful
earing
earl
earlap
earldom
easing
east
east by north
east by south
east-northeast
east-southeast
eastbound
easterly
eastern
easternmost
easting
eastward
eastwardly
eastwards
easy
easy chair
easygoing
eat
eat out
eat up
eatable
eatables
eatage
eaten
eating
eating house
eats
eau
eau de Cologne
eau de Javelle
eau de vie
eaves
eavesdrop
ebb
ebb tide
ebon
ebonite
ebonize
ebony
ebracteate
ebullience
ebullient
ebullition
eburnation
ec-
eccholic
eccentric
eccentricity
ecchymosis
ecl.
ecclesia
ecclesiastic
ecclesiastical
ecclesiastical calendar
ecclesiastical law
ecclesiastical mode
ecclesiasticism
ecclesiolatry
ecclesiology
eccrine
ecclerinology
edysiat
edysis
ecessis
echelon
echidna
echinate
echino-
echinoderm
echinoid
echinus
echo
echo chamber
echo sounder
echoic
echoism
echolalia
echolocation
echopraxia
echovirus
echt
eclair
eclampsia
eclat
eclectic
eclecticism
eclipse
eclipse plumage
ecliptic
eclogite
eclogue
eclosion
eclogue
ecol.
ecology
econ.
econometrics
economic
economic cycle
economic determinism
economic geography
economical
economically
economics
economist
economize
economizer
economy
ecospecies
eosphere
ecosystem
etone
etype
ecphonesis
eru
estasy
estatic
estatics
ethyma
ecto-
ectoblast
ectoderm
ectoenzyme
ectogenous
ectomere
ectomorph
ectoparasite
ectophyte
ectopia
ectopic pregnancy
ectoplasm
ectosarc
ectropion
ectype
ecumenical
ecumenical council
ecumenicalism
ecumenicism
ecumenicist
ecumenicity
ecumenism
eczema
ed.
edacious
edacity
edaphic
eddo
eddy
eddy current
edelweiss
edema
edentate
dge
dge tool
dgebone
dger
dgeways
dgewise
dging
dgy
edh
edible
edibles
edict
edification
edifice
edify
edile
edit
edit.
editio princeps
edition
editor
editor in chief
editorial
editorialize
educ.
educable
educate
educated
educatee
education
educational
educationist
educative
educator
educatory
eduze
educt
eduction
eductive
edulcorate
eel
eelgrass
eellike
eelpout
eelworm
eerie
effable
efface
effect
effective
effector
effects
effectual
effectually
effectuate
effeminacy
effeminate
effeminize
efendi
eferring
effervesce
effervescent
effete
efficacious
efficacy
efficiency
efficiency apartment
efficient
efficient cause
effigy
effloresce
efflorescence
efflorescent
effluence
effluent
effluvium
efflux
effort
effortful
effortless
effrontery
effulgence
effulgent
effuse
effusion
effusive
eft
egard
egalitarian
egest
egesta
egestion
egg
egg and dart
egg roll
egg timer
egg tooth
egg white
egg-shaped
eggbeater
eggcup
egger
egghead
eggnog
eggplant
eggs Benedict
eggshell
eggshell porcelain
egis
eglantine
ego
ego ideal
ego trip
egocentric
egocentrism
egoism
egoist
egomania
egotism
egotist
egregious
egress
egression
egret
eh
eider
eider duck
eiderdown
eidetic
eidolon
eigenfunction
eigenvalue
eight
eighteen
eighteenmo
eighteenth
eightfold
eighth
eighth note
eighth
eight
eikon
einkorn
einsteinium
eisegesis
eistaddfod
either
ejaculate
ejaculation
ejaculatory
eject
ejecta
ejection
ejection seat
ejective
ejertment
ejector
ejector seat
el
elaborate
elaboration
elaeoptene
elan
eland
elapid
elapse
elasmobranch
elastance
elastic
elastic limit
elastic modulus
elasticity
elasticize
elastin
elastomer
elate
elated
elater
elaterid
elaterin
elaterite
elaterium
elation
electrify
electro
electro-
electroacoustics
electroanalysis
electroballistics
electrobiology
electrocardiogram
electrocardiograph
electrocautery
electrochemistry
electrocorticogram
electrocute
electrode
electrodeposit
electrodialysis
electrodynamic
electrodynamics
electrodynamometer
electroencephalogram
electroencephalograph
electroform
electrograph
electrojet
electrokinetic
electrokinetics
electroler
electroluminescence
electrolyse
electrolysis
electrolyte
electrolytic
electrolytic cell
electrolytic interrupter
electrolyze
electromagnet
electromagnetic
electromagnetic field
electromagnetic induction
electromagnetic radiation
electromagnetic spectrum
electromagnetic unit
electromagnetic wave
electromagnetism
electromechanical
electrometallurgy
electrometer
electromotive
electromotive force
electromotor
electromyography
electron
electron affinity
electron camera
electron gun
electron lens
electron microscope
electron multiplier
electron optics
electron telescope
electron tube
electron-ray tube
electronarcosis
electronegative
electronic
electronic brain
electronic data processing
electronic music
electronic organ
electronics
electrophilic
electrophone
electrophoresis
electrophorus
electrophotography
electrophysiology
electroplate
electropositive
electroscope
electroshock
electroshock therapy
electrostatic
electrostatic generator
electrostatic induction
electrostatic unit
electrostatics
electrostriction
electrosurgery
electrotechnics
electrotechnology
electrotherapeutics
electrotherapy
electrothermal
electrothermics
electrotonus
electrotype
electrum
electuary
eleemosynary
elegance
elegancy
elegant
elegiac
elegiac couplet
elegiac pentameter
elegist
elegit
elegize
elegy
elem.
element
elemental
elementary
elementary particle
elementary school
elemi
elenchus
eleoptene
elephant
elephant bird
elephant seal
elephant shrew
elephant's-ear
elephant's-foot
elephantiasis
elephantine
elevate
elevated
elevation
elevator
eleven
elevenses
eleventh
eleventh hour
elevon
elf
elfin
elfish
elfland
elflock
elicit
elide
eligibility
eligible
eliminate
elimination
elision
elite
elitism
elixir
elk
elkhound
ell
ellipse
ellipsis
ellipsoid
elliptic geometry
elliptic spring
ellipticity
elm
elm leaf beetle
elocution
eloign
elongate
elongation
elope
eloquence
eloquent
else
elsewhere
elucidate
elude
elusion
elusive
elute
elutriate
eluviation
eluvium
elver
elves
elvish
elytron
em
em dash
em quad
em-
emaciate
emaciated
emaciation
emanate
emanation
emanative
emancipate
emancipated
emancipation
emancipator
emarginate
emasculate
embalm
embank
embankment
embargo
embark
embarkation
embarkment
embarrass de richesses
embarrass
embarrassment
embassy
embattle
embattled
embay
embayment
embed
embellish
embellishment
ember
embezzle
embitter
emblaze
emblazon
emblazonment
emblazonry
emblem
emblematize
emblems
embodiment
embody
embolden
embolectomy
embolic
embolism
embolus
emboly
embonpoint
embosom
emboss
embosser
embouchure
embow
embowed
embowel
embower
embrace
embracer
embracery
embranchment
embrangle
embrasure
embrocate
embrocation
embroider
embroideress
embroidery
embrace
embrue
embryectomy
embryo
embryo sac
embryogeny
embryol.
embryologist
embryology
embryonic
embryotomy
embus
emcee
emend
emendate
emendation
emerald
emerge
emergence
emergency
emergent
emergent evolution
emeritus
emersed
emersion
emery
emery board
emery wheel
emesis
emetica
emetine
emf
emigrant
emigrate
emigration
eminence
eminent
eminent domain
emir
emirate
emissary
emission
emission spectrum
emissive
emissivity
emit
emitter
emenagogue
emmer
emmert
emmetropia
emollient
emolument
emote
emotion
emotional
emotionalism
emotionality
emotionalize
emotive
emotive meaning
empale
empanel
empathic
empathize
empathy
empennage
emperor
emperor penguin
empery
emphasis
emphasize
emphatic
emphysema
empire
empiric
empirical
empirical formula
empiricism
emplace
emplacement
emplane
employ
employee
employer
employment
employment agency
employment exchange
empoison
emporium
empower
empress
emprise
empri
tor
empty
empty word
empty-handed
empty-headed
empurple
empyema
empyreal
empyrean
emu
emulate
emulation
emulous
emulsifier
emulsify
emulsion
emulsoid
emunctory
en
en attendant
en bloc
en brosse
en clair
en dash
en famille
en masse
en passant
en plein air
en prise
en quad
en rapport
en route
en suite
en-
enable
encl.
enclasp
enclave
enclitic
enclose
enclosure
encode
encomiast
encomiastic
encomium
encompass
encore
encounter
encourage
encouragement
encrime
encrime
encrime
encroach
encroachment
encrust
encultivation
encumber
encumbrance
encumbrancerency.
encyclical
encyclopedia
encyclopedic
encyclopedist
encyst
end
end man
end matter
end organ
end point
end product
end use
end-
end-all
end-blow
end-blown
end-of-day glass
end-stopped
endamage
endamoeba
endanger
endarch
endbrain
endear
endearment
deavor
demic
dermic
game
ending
ive
less
long
most
endo-
endoblast
ocardial
carditis
cardium
carp
centric
cranium
crine
crine gland
ocrinology
ocrinotherapy
derm
dermis
dontics
donist
oenzyme
ergic
ogamy
ogen
ogenous
ymph
ometriosis
ometrium
omorphic
omorphic
oparite
opeptidase
ophyte
plasm
orse
orsed
orssee
orsement
oscope
keleton
osmosis
enlist
enlisted man
enlistee
enlistment
enliven
enmesh
enmity
enmead
enneagon
enneahedron
enneastytle
ennoble
ennui
enol
enormity
enormous
enosis
enough
enounce
enow
enphytotic
enplane
enquire
enrage
enrapture
enravish
enrich
enrichment
enrobe
enrol
enroll
enrollee
enrollment
enroot
ens
ensample
ensanguine
ensconce
enscroll
ensemble
ensepulcher
ensheathe
enshrine
enshroud
ensiform
ensign
ensilage
ensile
entice
enticement
entire
entirely
entirety
entitle
entity
ento-
entoblast
entoderm
entoil
entomb
entomo-
entomol.
entomologize
entomology
entomophagous
entomophilous
entomostracan
entophyte
entopic
entourage
entozoic
entozoon
entr'acte
entrails
entrain
entrammel
entrance
entranceway
entrant
entrap
entre nous
entreat
entreaty
entrechat
entree
entremets
entrench
entrenching tool
entrenchment
entrepreneur
entresol
entropy
entrust
entry
entryway
entwine
epeirogeny
epencephalon
epentheses
epergne
epexegesis
eph-
ephah
ephebe
ephedrine
ephemeran
ephemeral
ephemerality
ephemerid
ephemeris
ephemeris time
ephemeront
ephod
ephor
epi-
epiblast
epiboly
epic
epic simile
epicalyx
epicanthus
epicardium
epicarp
epicedium
epicene
epicenter
epiclesis
epicontinental
epicotyl
epicrisis
epicritic
epicure
epicurean
epicycle
epicyclic train
epicycloid
epideictic
epidemic
epidemic encephalitis
epidemic pleurodynia
epidemiology
epidermis
epidiascope
epididymis
epidote
epifocal
epigastrium
epigean
epigene
epigenesia
epigeneous
epigious
epiglottis
epigone
epigram
epigrammatist
epigrammatize
epigraph
epigraphic
epigrapy
epigynous
epilate
epilepsy
epileptic
epileptoid
eplimmnion
epilogue
epimorphism
epinasty
epinephrine
epineurium
epiphany
epiphenomenalism
epiphenomenon
epiphora
epiphagm
epiphysis
epiphyte
epiphysitic
epirogeny
episcopacy
episcopal
episcopalian
episcopalmism
episcopate
episiotomy
episode
episodic
episaptic
epistasis
epistaxis
epistemic
epistemology
episternum
epistle
epistolary novel
epistrophe
epistyle
epitaph
epitasis
epithalamium
epithelioma
epithelium
epithet
epitome
epitomize
epizoic
epizoon
epizootic
epoch
epoch-making
epochal
epode
eponym
eponymous
eponymy
epos
epoxy
epoxy resin
epsilon
epsomite
eq.
equable
equal
equal sign
equalitarian
equality
equalize
equalizer
equally
equanimity
equanimous
equate
equation
equation of time
equator
equatorial
equerry
equestrian
equestrienne
equi-
equiangular
equidistance
equidistant
equilaterial
equilibrant
equilibrate
equilibrist
equilibrium
equimolecular
equine
equine distemper
equinoctial
equinoctial circle
equinoctial line
equinoctial point
equinoctial year
equinox
equip
equipage
equipment
equipose
equipollent
equiponderance
equiponderate
equipotential
equiprobable
equistetum
equitable
equitant
equitation
equites
equities
equity
equity capital
equity of redemption
equity security
equiv.
equivalence
equivalency
equivalent
equivalent circuit
equivalent weight
equivocal
equivocate
equivocation
equivoque
er
eroto-
erotogenic
erotomania
er
err
errancy
errand
errand boy
errant
errantry
errata
erratic
erratum
errhine
erring
erroneous
error
error of closure
ersatz
erst
erstwhile
erubescence
erubescent
eruct
eructate
erudite
erudition
erumpent
erupt
eruption
eruptive
erynge
erysipelas
erysipeloid
erythema
erythric
erythric
erythroid
erythro-
erthroblast
erythroblastosis
erthocyte
erthocytometer
erythromycin
erthropoiesis
escadrille
escalade
escalate
escalator
especially
esperance
espial
espionage
esplanade
espousal
espouse
espresso
esprit
esprit de corps
espy
esquire
essay
essayist
essayistic
esse
essence
essential
essential oil
essentialism
essentiality
essive
essonite
est.
establish
establishment
establishmentarian
estafette
estaminet
estancia
estate
estate agent
estate car
estate tax
esteem
ester
esterase
esterify
esthesia
esthete
estimable
estimate
estimation
estimative
estipulate
estival
estivate
estivation
 ethic
ethical
ethicize
ethics
ethmoid
ethnarch
ethic
ethnic group
ethno-
ethnocentrism
ethnogeny
ethnography
ethnol.
ethnology
ethnomusicology
ethology
ethos
ethyl
ethyl acetate
ethyl alcohol
ethyl carbamate
ethyl ether
ethylate
ethylene
ethylene glycol
ethylene group
ethylene series
ethyne
etiolate
etiology
etiquette
etna
etude
etui
etymologize
etymology
etymon
eu-
eucaine
eucalyptol
eucalyptus
eucharis
euchologion
euchology
euchre
euchromatin
euchromosome
eudemon
eudemonia
eudemonics
eudemonism
eudiometer
eugenics
eugenol
euglena
euhemerism
euhemerize
eulachon
eulogia
eulogist
eulogistic
eulogium
eulogize
eulogy
eunuch
eunuchize
eunuchoidism
euonymus
eupatorium
eupatrid
eupepsia
euphemism
euphemize
euphonic
euphonious
euphonium
euphonize
euphony
euphorbia
euphorbiaceous
euphoria
euphrary
euphroe
euphuism
eutplastic
eureka
eurhythmic
eurhythmics
eurhythm
euripus
europium
eury-
eurypterid
eurythermal
eurythmic
eurythmics
eusporangiate
eutectic
eutectoid
euthanasia
euthenics
etherian
eutrophic
euxenite
evacuant
evacuate
evacuation
evacuee
evade
evaginate
evaluate
evanesce
evanescent
evang
evangelical
evangelicalism
evangelism
evangelist
evangelistic
evangelize
evanish
evaporate
evaporated milk
evaporation
evaporimeter
evaporite
evapotranspiration
evasion
evasive
eve
evection
even
even out
even up
even-handed
even-tempered
evenfall
evenhanded
evening
evening dress
evening gown
evening primrose
evening school
evening star
evenings
evensong
event
eventful
eventide
eventual
eventuality
eventually
eventuate
ever
everglade
evergreen
everlasting
evermore
eversion
evert
evertor
every
every one
everybody
everyday
everyone
everyplace
everything
everyway
everywhere
evict
evictee
evidence
evident
evidential
evidentiary
evidently
evil
evil eye
evil-minded
evildoer
evince
evincive
eviscerate
evitable
evite
evocation
evocative
evocator
evoke
evolute
evolution
evolutionary
evolutionist
evolve
evonymus
evulsion
evzone
ewe
ewe lamb
ewe-neck
ewer
ex
ex cathedra
ex dividend
ex hypothesi
ex int.
ex libris
ex officio
ex parte
ex post facto
ex voto
ex-
ex-serviceman
ex.
exacerbate
exact
exacting
exaction
exactitude
exactly
exaggerate
exaggerated
exaggeration
exaggerative
exalt
exaltation
exalted
exam
examen
examinant
examination
examine
examinee
example
exanimate
exanthema
exarate
exarch
exarchate
excl.
exclaim
exclamation
exclamation mark
exclamation point
exclamatory
exclava
exclusion
exclude
exclusion principle
exclusive
excogitate
excommunicate
excommunication
excommunicative
excommunicatory
excoriate
excoriation
excrement
excrescence
excrecence
excrecent
excreta
excrete
excretion
excretory
excruciate
excruciating
excruciation
exculpate
excurrent
excursion
excursionist
excursive
excursus
excurvate
excurvature
excurved
excusatory
excuse
exeat
exec.
excreable
excreate
excreation
excrative
excratory
executant
execute
execution
executioner
executive
executive council
executive officer
executive session
executor
executory
executrix
exedra
exegesis
exegete
exegetic
exegetics
exemplar
exemplary
exemplary damages
exempli gratia
exemplification
exemplificative
exemplify
exemplum
exempt
exemption
exenterate
exequatur
exequies
exercise
exerciser
exercitation
exergue
exert
exertion
exeunt
exequent
exequent omnes
exfoliate
exfoliation
exhalant
exhalation
exhale
exhaust
exhaust fan
exhaustion
exhaustive
exhaustless
exhibit
exhibition
exhibitioner
exhibitionism
exhibitionist
exhibitive
exhibitor
exhilarant
exhilarate
exhilaration
exhilarative
exhort
exhortation
exhortative
exhume
exigency
exigent
exigible
exiguous
exile
eximious
exine
exist
existence
existent
existential
existential psychology
existentialism
exit
exo-
exobiology
exocarp
exocentric
exocrine
exocrine gland
exodontics
exodontist
exodus
exoenzyme
exoergic
exogamy
exogenous
exon
exonerate
exophthalmos
exorable
exorbitance
exorbitant
exorcise
exorcism
exorcist
exordium
exoskeleton
exosmosis
exosphere
exospore
exostosis
exoteric
exothermic
exotic
exotic dancer
exotoxin
exp.
expand
expanded
expanded metal
expander
expanding universe theory
expansive
expansible
expansile
expansion
expansion bolt
expansion chamber
expansionism
expansive
expatriate
expatriate
expect
expectancy
expectant
expectation
expected value
expecting
expectorant
expectorate
expectoration
expediency
expedient
expediential
expedite
expedition
expeditionary
expeditious
expel
expellant
expellee
expeller
expend
expendable
expenditure
expense
expense account
expensive
experience
experience table
experienced
experiential
experientialism
experiment
experiment station
experimental
experimentalism
experimentalize
experimentation
expert
expertise
expertism
expertize
explicable
expiate
expiation
expiatory
expiration
expiratory
expire
expiry
explain
explanation
explanatory
explant
expletive
explicable
explicate
explication
explication de texte
explicative
explicit
explode
exploded view
exploit
exploitation
exploiter
exploration
exploratory
explore
explorer
explosion
explosive
exponent
exponential
exponible
export
exportation
expose
exposed
exposition
expositor
expository
expostulate
expostulation
expostulatory
exposure
exposure meter
expound
express
express rifle
expressage
expression
expressionism
expressive
expressivity
expressly
expressman
expressway
expropriate
expungable
expulsion
expulsive
expunction
expunge
expunge
expurgate
expurgatory
exquisite
exr.
exsanguinate
exsanguine
exscind
exsect
exsert
exsiccate
ext.

extant
extemporaneous
extemporary
extemporary
extempore
extemporize
extend
extended
extended family
extender
extensible
extensile
extension
extension ladder
extensity
extensive
extensometer
extensor
extent
extenuate
extenuation
extenuatory
exterior
exterior angle
exteriorize
exterminate
exterminatory
extern
external
external ear
external-combustion engine
externalism
externality
externalization
externalize
exteroceptor
exterritorial
extinct
extinction
extinctive
extine
extinguish
extinguisher
extirpate
extol
extort
extortion
extortionary
extortionate
extortioner
extra
extra cover
extra dividend
extra-
extrabold
extracanonical
extracellular
extract
extraction
extractive
extractor
extracurricular
extraditable
extradite
extradition
extrados
extragalactic
extragalactic nebula
extrajudicial
extramarital
extramundane
extramural
extraneous
extranuclear
extraordinary
extraordinary ray
extrapolate
extrasensory
extrasensory perception
extrasystole
extraterrestrial
extraterritorial
extraterritoriality
extrauterine
extravagance
extravagancy
extravagant
extravaganza
extravagate
extravasate
extravasation
extravascular
extravehicular
extraversión
extravert
extreme
extreme unction
extremely
extremely high frequency
extremism
extremist
extremity
extricate
extrinsic
extrorse
extroversion
extrovert
extrude
extrusion
extrusive
exuberance
exuberant
exuberate
exudate
exudation
exude
exult
exultant
exultation
exurb
exurbanite
exurbia
exuviae
exuviate
eyas
eye
eye rhyme
eye shadow
eye socket
eye splice
eye-catching
eye-opener
eye-opening
eyeball
eyebolt
eyebright
eyebrow
eyebrow pencil
eyecup
eyed
eyeful
eyeglass
eyeglasses
eyehole
eyelash
eyeless
eyelet
eyeleteer
eyelid
eyepiece
eyes left
eyes right
eyeshade
eyeshot
eyesight
eyesore
eyespot
eyestalk
eyestrain
eyetooth
eyewash
eyewitness
eyot
eyra
eyre
eyrie
eyrir
f
f.
f.c.
f.o.b.
f.p.
f.p.s.
f.s.
f.v.
fa
fa-la
fab
fabaceous
fable
fabled
fabliau
fabric
fabricant
fabricate
fabrication
fabulist
fabulous
fac.
face
face card
face out
face powder
face towel
face up to
face value
face-harden
face-lift
face-lifting
face-off
face-saving
faceless
faceplate
facer
facet
facetiae
facetious
facia
facial
facial angle
facial index
facial nerve
facies
facile
facile princeps
facilitate
facilitation
facility
facing
facsimile
facsimile telegraph
fact
fact-finding
faction
factional
factious
factitious
factitive
factor
factor analysis
factor of production
factor of safety
factorage
factorial
factoring
factorize
factory
factory farm
factory ship
factotum
factual
facture
facula
facultative
faculty
fad
faddish
faddist
fade
fade-in
fade-out
fadeless
fader
fadge
fading
fado
faeces
faena
faerie
faery
fag
fag end
fagaceous
faggot
faggoting
fagot
fagoting
fahlband
faience
fail
fail-safe
failing
faille
failure
fain
faint
faintheart
fainthearted
faints
fair
fair copy
fair game
fair play
fair sex
fair trade
fair-haired
fair-minded
fair-spoken
fair-trade
fair-trade agreement
fair-weather
fairground
fairing
fairish
fairlead
fairly
fairway
fairy
fairy godmother
fairy ring
fairy tale
fairyland
fait accompli
faiettes vos jeux
faith
faith healer
faith healing
faithful
faithless
faitour
fake
faker
fakery
fakir
falbala
falcate
falchion
falciform
falcon
falcon-gentle
falconer
falconet
falconiform
falconry
faldstool
fall
fall among
fall away
fall back
fall behind
fall down
fall for
fall guy
fall in
fall line
fall off
fall on
farmer cheese
general
farmhand
farmhouse
farming
farmland
farmstead
farmyard
cosmos
far
faro
farouché
farago
farrier
farriery
farrow
farseeing
farsighted
fart
farther
fartermost
farthest
farthing
farthingale
fasces
fascia
fasciate
fasciation
fascicle
fascicule
fasciculus
fascinate
fascinating
fascination
fascinator
fascine
fascism
fascist
fash
fashion
fashion plate
fashionable
fast
fast day
fast neutron
fastback
fasten
fastening
fastidious
fastigate
fastigium
fastness
fat
fat cat
fat-soluble
fat-witted
fatal
fatalism
fatality
fatally
fatback
fate
fated
fateful
fathead
father
father confessor
father figure
father image
father-in-law
fatherhood
fatherland
fatherless
fatherly
fathom
fathomless
fatidic
fatigue
fatigued
fatting
fatness
fatso
fatten
fattish
fatty
fatty acid
fatty degeneration
fatty oil
fatuous
fatuity
fatuous
faubourg
faucal
fauces
faucet
faugh
fault
fault plane
faultfinder
faultfinding
faultless
faulty
faun
fauna
faute de mieux
fauteuil
faux pas
faveolate
favonian
favor
favorable
favored
favorite
favorite
favoritism
favour
favourable
favourite
favouritism
favus
fawn
fawn lily
fay
fayalite
faze
feal
fealty
fear
fearful
fearfully
fearless
fearnought
fearsome
feasible
fear
feast
feast day
feat
feather
feather bed
feather duster
feather grass
feather palm
feather star
feather-veined
featherbedding
featherbrain
feathercut
feathered
featheredge
featherhead
feathering
feathers
featherstitch
featherweight
feathery
featly
feature
feature-length
featured
featureless
feaze
febr-
febricite
febrifacient
febrific
febrifugal
febrifuge
febrile
fec.
fecal
feces
fecit
feck
feckless
fecula
feculent
fecund
fecundate
fecundity
fed
fed up
federal
federal district
federalese
federalism
federalist
federalize
federate
federation
federative
fedora
fee
fee simple
fee tail
feeble
feeble-minded
feebleminded
feed
feedback
feeder
feeder line
feeding
feel
feeler
feeler gauge
feeling
feet
feeze
feign
feigned
feint
feints
feisty
felafel
feldspar
felicitic
felicitate
felicitation
felicitous
felicity
felid
feline
fell
fellah
fellatio
feller
fellmonger
felloe
fellow
fellow creature
fellow feeling
fellow traveler
fellowman
fellowship
felly
felo-de-se
felon
felonious
felonry
felony
felsite
felspar
felt
felting
felucca
fem.
female
female impersonator
female suffrage
feme
feme covert
feme sole
feminacy
female
feminine
feminine caesura
feminine ending
feminine rhyme
femininity
feminism
feminize
femme
femme de chambre
femme fatale
femoral
femur
fen
defence
fence-sitter
fencer
fencible
fencing
fend
fender
fenestella
fenestra
fenestrated
fenestration
fenland
fennec
fennel
fennelflower
fenny
fenugreek
feoff
feoffee
fer-de-lance
feral
ferbam
fere
feretory
feria
ferial
ferine
ferity
fermata
ferment
fermentation
fermentative
fermi
fermion
fermium
fern
fern seed
femery
ferocious
ferocity
ferrate
ferreous
ferret
ferret badger
ferri-
ferriage
ferric
ferric oxide
ferricyanic acid
ferricyanide
ferriferous
ferrite
ferritin
ferro-
ferrocene
ferrochromium
ferroconcrete
ferrocyanic acid
ferrocyanide
ferroelectric
ferromagnesian
ferromagnetic
ferromagnetism
ferromanganese
ferrosilicon
ferotype
ferrous
ferruginous
ferrule
ferry
ferryboat
ferryman
fertile
fertility
fertility cult
fertility symbol
fertilization
fertilize
fertilizer
ferula
ferule
fervency
fervent
fervid
fervor
fescue
fess
fess point
festal
fester
festinate
festination
festival
festive
festivity
festoon
festoon cloud
festoonery
fetal
fetation
fetch
fetch up
fetching
fete
fete day
fetial
fetich
feticide
fetid
fetiparous
fetish
fetishism
fetishist
fetlock
fetor
fetter
fetter bone
fibrilliform
fibrin
fibrinogen
fibrinolysin
fibrinolysis
fibrinous
fibro-
fibroblast
fibroid
fibroin
fibroma
fibrosis
fibrous
fibrovascular
fibster
fibula
fiche
fichu
fickle
fico
fictile
fiction
fictional
fictionalize
fictionist
fictitious
fictive
fid
fiddle
fiddle pattern
fiddle-de-dee
fiddle-faddle
fiddlehead
fiddler
fiddler crab
fiddlestick
fiddlewood
fiddling
fideicommissary
fideicommissum
fideism
fidelity
fidge
fidget
fidgety
fiducial
fiduciary
fidus Achates
fie
fief
field
field army
field artillery
field battery
field captain
field corn
field day
field emission
field event
field glass
field glasses
field goal
field guide
field gun
field hockey
field hospital
field magnet
field marshal
field mouse
field of force
field of view
field of vision
field officer
field spaniel
field trial
field trip
field winding
field work
fielder
fieldfare
fieldpiece
fieldsman
fieldstone
fieldwork
fiend
fiendish
fierce
fieri facias
fiery
fiery cross
fiesta
fife
fife rail
fifteen
fifteenth
fifth
filet lace
delicate
delicate
filial
delicate
delicate
filiation
filibeg
delicate
filicide
filiform
filigree
filigreed
filing
filings
fill
fill in
fill out
fill up
fill-in
fillagree
fille de chambre
fille de joie
filled gold
filler
fillet
filling
filling station
fillip
fillister
filly
film
film library
film pack
film star
filmdom
filmy
filoplume
filose
fils
filter
filter bed
filter paper
filter tip
filterable
filth
filthy
filthy lucre
filtrate
fire clay
fire company
fire control
fire department
fire drill
fire engine
fire escape
fire extinguisher
fire fighter
fire hydrant
fire insurance
fire irons
fire marshal
fire opal
fire power
fire red
fire resistance
fire sale
fire screen
fire ship
fire station
fire tower
fire trench
fire wall
fire-cure
fire-eater
fire-new
fire-resistant
firearm
fireback
fireball
firebird
fireboard
fireboat
firebox
firebrand
firebrat
firebreak
firebrick
firebug
firecracker
firecrest
firedamp
firedog
firedrake
firefly
fireguard
firehouse
first post
first principle
first quarter
first reading
first refusal
first sergeant
first string
first water
first-born
first-class
first-day cover
first-degree burn
first-foot
first-nighter
first-rate
firsthand
firstling
firstly
firth
fisc
fiscal
fiscal year
fish
fish and chips
fish cake
fish fry
fish hawk
fish joint
fish ladder
fish louse
fish meal
fish out
fishbolt
fishbowl
fisher
fisherman
fisherman's bend
fishery
fisheye lens
fishgig
fishhook
fishing
fishing rod
fishing smack
fishing tackle
fishmonger
fishnet
fishplate
fishskin disease
fishtail
fishwife
fishworm
fishy
fissi-
fissile
fission
fission bomb
fissional
fissiparous
fissirostral
fissure
fissure of Rolando
fissure of Sylvius
fist
fistic
fisticuffs
fistula
fistulous
fit
fit in
fit out
fit up
fitch
fitful
fitly
fitment
fitted
fitter
fitting
five
five hundred
five senses
five-and-ten
five-finger
five-spot
five-star
fivefold
fivepenny
fiver
fives
fix
fix up
fixate
fixation
fixative
fixed
fixed assets
fixed capital
fixed charge
fixed idea
fixed oil
fixed price
fixed satellite
fixed star
fixed-do system
fixer
fixing
fixity
fixture
fizzig
fizz
fizzle
fizzy
fjeld
fjord
fl.
fl. dr.
fl. oz.
flabbergast
flabby
flabellate
flabellum
flaccid
flack
flacon
flag
flag day
flag of convenience
flag of truce
flag officer
flag rank
flag-waving
flagella
flagellant
flagellate
flagelliform
flagellum
flageolet
flagging
flaggy
flagitious
flagman
flagon
flagpole
flagrant
flagrante delicto
flagship
flagstaff
flagstone
flail
flair
flak
flak jacket
flake
flake out
flake white
flaky
flam
flambeau
flamboyant
flame
flame cell
flame-out
flamen
flamenco
flameproof
flamethrower
flaming
flamingo
flammable
flan
flanch
flange
flank
flanker
flannel
flannel cake
flannelette
flap
flapdoodle
flapjack
flapper
flare
flare-up
flaring
flash
flash burn
flash card
flash flood
flash gun
flash lamp
flash photography
flaunty
flautist
flavescent
flavin
flavine
flavone
flavoprotein
flavopurpurin
flavor
flavorful
flavoring
flavorous
flavorsome
flavy
flavour
flavourful
flavouring
flaw
flawed
flawy
flax
flaxen
flaxseed
flay
fld.
flea
flea beetle
flea market
flea-bitten
fleabag
fleabane
fleabite
fleam
fleawort
fleck
flection
feld
fledge
fledgling
fledgy
flee
fleece
fleecy
fleer
fleet
fleet admiral
fleeting
flense
flesh
flesh and blood
flesh color
flesh fly
flesh wound
flesher
fleshings
fleshly
fleshpots
fleshy
fletch
fletcher
fleur-de-lis
fleurette
fleuron
flew
flews
flex
flexed
flexible
flexile
flexion
flexor
flexuosity
flexuous
flexure
fley
flibbertigibbet
flick
flicker
flickertail
flied
flier
flight
flight arrow
flight deck
flight engineer
flight feather
flight formation
flight path
flight plan
flight recorder
flight simulator
flight strip
flight surgeon
flightless
flighty
flimflam
flimsy
flinch
flinders
fling
flinger
flint
flint glass
flintlock
flinty
flip
flip side
flip-flop
flippant
flipper
flirt
flirtation
flirtatious
flit
flitch
flite
flitter
flittermouse
flitting
flivver
float
float glass
float-feed
floatable
floatage
floatation
floater
floating
floating dock
floating heart
floating island
floating policy
floating rib
floating stock
floatplane
floats
floatstone
floaty
floc
floccose
flocculant
flocculate
floccule
flocculent
florilegium
florin
florist
floristic
floruit
flory
flos ferri
floss
flossy
flotage
flotation
flotilla
flotsam
flotsam and jetsam
flounce
flouncing
flounder
flour
flour mill
flourish
flourishing
floury
flout
flow
flow chart
flow sheet
flowage
flower
flower girl
flower head
flower power
flower-de-luce
flowerage
flowered
flowerer
floweret
flowering
flowering maple
flowering moss
flowering plant
flowerless
flowerlike
flowerpot
flowery
flowing
flown
flu
flub
fluorometer
fluoroscope
fluoroscopy
fluorosis
fluorspar
flurried
flurry
flush
fluster
flute
fluted
fluter
fluting
flutist
flutter
flutter kick
flutterboard
fluttery
fluvial
fluvialite
fluvimarine
flux
flux density
fluxion
fluxmeter
fly
fly agaric
fly ash
fly casting
fly gallery
fly rod
fly sheet
fly-by-night
fly-fish
flyaway
flyback
flyblow
flyblown
flyboat
flycatcher
flyer
flying
flying boat
flying bomb
flying boxcar
flying bridge
flying buttress
flying circus
flying column
flying doctor
flying dragon
flying field
flying fish
flying fox
flying frog
flying gurnard
flying jib
flying jib boom
flying lemur
flying lizard
flying machine
flying mare
flying phalanger
flying saucer
flying squad
flying squirrel
flying start
flying wing
flyleaf
flyman
flyover
flypaper
flyspeck
flyte
flytrap
flyweight
flywheel
fm.
fo'c's'le
fo'c's'le
fo.
foal
foam
foam rubber
foamflower
foamy
fob
fob off
focal
focal infection
focal length
focal plane
focal point
focal ratio
focalize
focus
folic acid
folie
folio
foliolate
foliole
foliose
folium
folk
folk dance
folk etymology
folk medicine
folk music
folk singer
folk singing
folk song
folk tale
folk-rock
folklore
folkmoot
folksy
folkway
folkways
foil
follicle
follicle-stimulating hormone
folliculin
follow
follow out
follow through
follow up
follow-through
follow-up
follower
following
folly
foment
fomentation
fond
fondant
fondle
fondly
fondness
fondue
fons et origo
font
fontanel
food
food chain
food poisoning
foodstuff
foofaraw
fool
fool's cap
fool's errand
fool's gold
fool's paradise
fool's-parsley
fooler
foolhardy
foolish
foolproof
foolscap
foot
foot brake
foot fault
foot rot
foot rule
foot soldier
foot warmer
foot-and-mouth disease
foot-candle
foot-lambert
foot-pound
foot-pound-second
foot-poundal
foot-ton
footage
football
footboard
footboy
footbridge
footcloth
footed
footer
footfall
footgear
foothill
foothold
footie
footing
footle
footless
footlight
footlights
footling
footlocker
forbidden fruit
forbidding
forbore
forborne
forby
force
force majeure
force pump
force-feed
forced
forced landing
forced march
forceful
forcemeat
forceps
forcer
forcible
forcing house
ford
fordo
fordone
fore
fore edge
fore plane
fore-
fore-and-aft
fore-and-aft sail
fore-and-after
fore-topgallant
fore-topgallant mast
fore-topmast
fore-topsail
forearm
forebear
forebode
foreboding
forebrain
forecast
forecastle
foreclose
foreclosure
foreconscious
forecourse
forecourt
foredate
foredeck
foredo
foredoo
forefather
forefend
forefinger
forefoot
forefront
foregather
foreglimpse
forego
foregoing
foregone
foregone conclusion
foreground
foregut
forehand
forehanded
forehead
foreign
foreign affairs
foreign aid
foreign bill
foreign correspondent
foreign exchange
foreign minister
foreign mission
foreign office
foreign service
foreign-born
foreigner
foreignism
forejudge
foreknow
foreknowledge
forelady
foreland
foreleg
forelimb
forelock
foreman
foremast
foremost
forename
forenamed
forenoon
forensic
forensic chemistry
forensic medicine
forensic psychiatry
forensics
foreordain
foreordination
forepart
forepaw
forepeak
foreplay
forepleasure
forequarter
forereach
forerun
forerunner
foresaid
foresail
fosee
foeshadow
foershank
foesheet
fooshore
fooshorten
fooshow
foaside
foesight
foeskin
foespake
foespent
forest
forest ranger
forest reserve
foestage
foestall
foestation
foestay
foestaysail
forester
forestry
foretaste
foretell
forethought
forethoughtful
foretime
foretoken
foretooth
foretop
forever
forevermore
forewarn
forewent
forewing
forewoman
foreword
foreworn
foreyard
forfeit
forfeiture
forfend
foricate
forgat
forgather
forgave
forge
forgery
forget
forget-me-not
forgetful
forging
forgive
forgiven
forgiveness
forgiving
forgo
forgot
forgotten
forint
forjudge
fork
fork out
forked
forked lightning
forklift
forlorn
forlorn hope
form
form class
form drag
form genus
form letter
formal
formal cause
formal logic
formaldehyde
formalin
formalism
formality
formalize
formally
formant
fourpenny
fourscore
foursome
foursquare
fourteen
fourteenth
fourth
fourth dimension
fourth estate
fourth-class
fourthly
fovea
fovea centralis
foveola
fowl
fowling
fowling piece
fox
fox grape
fox hunting
fox squirrel
fox terrier
fox trot
fox-trot
foxed
foxglove
foxhole
foxhound
foxing
foxtail
foxy
foyer
fp
fr.
fracas
fraction
fractional
fractional currency
fractional distillation
fractionate
fractionize
fractious
fractocumulus
fractostratus
fracture
frae
fraenum
frag
fragile
fragment
fragmental
fragmentary
fragmentation
fragmentation bomb
fragrance
fragrant
frail
frailty
raise
frambesia
framboise
frame
frame aerial
frame house
frame line
frame of reference
frame-up
framework
framing
franc
franc-tireur
franchise
francium
francolin
frangible
frangipane
frangipani
frank
frankalmoign
frankforter
frankfurter
frankincense
franklin
franklinite
frankly
frankness
frankpledge
frantic
frap
frater
fraternal
fraternal insurance
fraternity
fraternity house
fraternize
fratricide
free-floating
free-for-all
free-handed
free-hearted
free-living
free-spoken
free-swimming
freeboard
freeboot
freebooter
freeborn
freedman
freedom
freedom fighter
freedom rider
freedwoman
freehand
freehold
freeholder
freelance
freeload
freeloader
freely
freeman
freemartin
freemasonry
freeness
freer
freesia
freestanding
freestone
freestyle
freethinker
freeway
freewheel
freewheeling
freewill
freeze
freeze-dry
freeze-drying
freezer
freezing
freezing mixture
freezing point
freight
freight agent
freight car
freight ton
freight train
freightage
freighter
fremd
frenetic
frenulum
frenum
frenzied
frenzy
freq.
frequency
frequency band
frequency distribution
frequency modulation
frequent
frequentation
frequentative
frequently
fresco
fresh
fresh breeze
fresh gale
freshen
freshen
freshet
freshman
freshwater
fresnel
fret
fret saw
fretful
fretted
fretwork
friable
friar
friar's lantern
friarbird
friary
fribble
fricandeau
fricassee
fricatation
fricative
friction
friction clutch
friction match
friction tape
frostbite
frostbitten
frosted
frosting
frostwork
frosty
froth
frothy
frottage
froufrou
frow
froward
frown
frowst
frowsy
frowzy
froze
frozen
frozen pudding
frt.
fructiferous
fructification
fructificative
fructify
fructose
fructuous
frug
frugal
frugivorous
fruit
fruit cup
fruit fly
fruit knife
fruit salad
fruit sugar
fruit tree
fruitage
fruitarian
fruitcake
fruiter
fruiterer
fruitful
fruition
fruitless
fruity
frumentaceous
frumenty
frump
frumpish
frumpy
frustrate
frustrated
frustration
frustule
frustum
frutescent
fry
fryer
frying pan
ft-lb
ft.
ftth.
fubsy
fuchsia
fuchsin
fucoid
fucus
fuddle
fuddy-duddy
fudge
fuel
fuel cell
fuel injection
fuel oil
fug
fugacious
fugacity
fugal
fugato
fugitive
fugleman
fugue
fulcrum
fulfil
fulfill
fulfillment
fulgent
fulgor
fulgurant
fulgurate
fulgurating
fulguration
fulgurite
fulgurous
fuliginous
full
full blood
full dress
full house
full moon
full nelson
full professor
full sail
full score
full stop
full swing
full tilt
full time
full-blooded
full-blown
full-bodied
full-faced
full-fledged
full-grown
full-length
full-mouthing
full-rigged
full-scale
full-time
fullback
fuller
fuller’s earth
fuller’s teasel
fully
fulmar
fulminant
fulminate
fulminating powder
fulmination
fulminic acid
fulminous
fulsome
fulvous
fumaric acid
fumarole
fumatorium
fumble
fume
fumed
fumigant
fumigate
fumigator
fumitory
fumy
fun
funambulist
function
function word
functional
functional calculus
functional disease
functional group
functional illiterate
functionalism
functionary
fund
fundament
fundamental
fundamental particle
fundamental unit
fundamentalism
funded debt
funds
fundus
funeral
funeral director
funeral home
funerary
funereal
funest
fungal
fungi
fungi-
fungible
fungicide
fungiform
fungistat
fungoid
fungosity
fungous
fungus
funicle
funicular
funicular railway
funiculate
funiculus
funk
funk hole
funky
funnel
funnel cloud
funnelform
funny
funny bone
funny paper
funnyman
fur
fur farm
fur seal
fur.
furan
furbelow
furbish
furcate
furcula
furculum
furfur
furfuraceous
furfural
furfuran
furious
furl
furiana
furlong
furlough
furmenty
furnace
furnish
furnishing
furnishings
furniture
furor
furee
furred
furrier
furriery
furring
furrow
furry
further
furtherance
furthermore
furthermost
furthest
furtive
furuncle
furunculosis
fury
furze
fusain
guscous
fuse
fused quartz
fusee
fusel oil
fuselage
fusibility
fusible
fusible metal
fusiform
fusil
fusilier
fusillade
fusion
fusion bomb
fusionism
fuss
fussbudget
fusspot
fussy
fustanella
fustian
fustic
fustigate
fusty
fut.
futhark
futile
futilitarian
futility
futtock
futtock plate
futtock shroud
future
future life
future perfect
futures
futurism
futuristic
futurity
fuze
fuzee
fuzz
fuzzy
fwd.
fyke
fylfot
fyrd
g
g.
g.u.
g.v.
gab
gabardine
gabble
gabbro
gabby
gabelle
gaberdine
gaberlunzie
gabfest
gabion
gabionade
gable
gable end
gable roof
gable window
gablet
gaby
gad
gadabout
gadfly
gadget
gadgeteer
gadgetry
gadid
gadoid
gadolinite
gadolinium
gadroon
gadwall
gaff
gaff-rigged
gaffe
gaffer
gag
gag rule
gaga
gage
gagger
gaggle
gagman
galnrite
gaiety
gailardia
gaily
gain
gainer
gainful
gainless
gainly
gains
gainsay
gait
gaiter
gal
gala
galactagogue
galactic
galactic circle
galactic coordinates
galactic equator
galactic latitude
galactic longitude
galactic plane
galactic poles
galacto-
galactometer
galactopoietic
galactose
galah
galangal
galantine
galanty show
galatea
galaxy
galbanum
gale
galea
galeiform
galena
galenical
galilee
galimatias
galingale
galiot
galipot
gall
gall midge
gall wasp
gallant
gallantry
gallbladder
galvanize
galvanized iron
galvano-
galvanometer
galvanoscope
galvanotropism
galyak
gam
gama grass
gamb
gamba
gambado
gambeson
gambier
gambit
gamble
gambling house
gamboge
gambol
gambrel
gambrel roof
game
game bird
game fish
game fowl
game point
game room
game theory
game warden
gamecock
gamekeeper
gamelan
gamely
gameness
gamesmanship
gamesome
gamester
gametangium
gamete
gameto-
gametocyte
gametogenesis
gametophore
gametophyte
gamic
gamin
gamine
gaming
gamma
gamma globulin
gamma iron
gamma radiation
gamma ray
gammadion
gammer
gammon
gammy
gamo-
gamogenesis
gamone
gamopetalous
gamophyllous
gamosepalous
gamp
gamut
gamy
gan
gander
gandy dancer
ganef
gang
gang plow
gang saw
gangboard
ganger
gangland
gangling
ganglion
gangplank
gangrel
gangrene
gangster
gangue
gangway
gangway ladder
ganister
ganja
gannet
ganof
ganoid
gantlet
gantline
gantry
gaol
gap
gap-toothed
gape
gapes
gapeworm
gapped scale
gar
garage
garb
garbage
garbage can
garbage truck
garbanzo
garble
garboard
garboard strake
garboil
garcon
gardant
garden
garden cress
garden party
garden warbler
gardener
gardenia
gardening
garderobe
garfish
garganey
gargantuan
garget
gargle
gargoyle
garibaldi
garish
garland
garlic
garlicky
garment
garner
garnet
garnierite
garnish
garnishee
garnishment
garniture
garotte
garpike
garret
garrison
garrison cap
garrote
garrotte
garrulity
garrulous
garter
garter belt
garter snake
garter stitch
garth
garvey
gas
gas attack
gas black
gas burner
gas chamber
gas coal
gas constant
gas engine
gas fitter
gas fixture
gas furnace
gas gangrene
gas jet
gas log
gas main
gas mantle
gas mask
gas meter
gas oil
gas plant
gas range
gas station
gas thermometer
gas tube
gas turbine
gas well
gasbag
gasconade
gaselier
gaseous
gash
gasholder
gasiform
gasify
gasket
gaskin
gaslight
gather
gathering
gauche
gaucherie
gauch
gaud
gaudery
gaudy
gauffer
gauge
gauger
gaultheria
gaunt
gauntlet
gauntry
gaun
gauss
gaussmeter
gauze
gauzy
gavage
gave
gavel
gavelkind
gavial
gavotte
gawk
gawky
gay
gaz.
gaze
gazebo
gazehound
gazelle
gazelle hound
gazette
gazetteer
gazpacho
gds.
gean
geanticlinal
geanticline
gear
gearbox
gearing
gearshift
gearwheel
gecko
genic
geniculate
genie
genii
genip
genipap
genista
genit.
genital
genitalia
genitals
genitive
genitor
genitourinary
genius
genius loci
genoa
genocide
genome
genotype
genre
genro
gens
gent
genteel
genteelism
gentian
gentian blue
gentian violet
gentianaceous
gentianella
gentile
gentilesse
gentilism
gentility
gentle
gentle breeze
gentlefolk
gentleman
gentleman's gentleman
gentleman-at-arms
gentleman-farmer
gentlemanly
gentlemen's agreement
gentleness
gentlewoman
gentry
genu
giggle
gigolo
gigot
gigue
gild
gilded
gilder
gilding
gilgai
gill
gill fungu

...
ginglymus
gin
gink
ginkgo
ginseng
gip
gipon
giraffe
girandole
girasol
gird
gider
girdle
girdle-tailed lizard
girdler
girl
girl Friday
girlfriend
girlhood
girlie
girlish
giro
girosol
girt
girth
gisarme
gismo
gist
git
gittern
give
give away
give in
give off
give out
give over
give up
give-and-take
giveaway
given
given name
gizmo
gizzard
gl.
glabella
glabrate
glabrescent
glabrous
glace
glacial
glacial acetic acid
glacial epoch
glacial period
glacialist
glaciate
glacier
glaciology
glacies
glad
glad eye
glad hand
glad rags
gladden
glade
gladiate
gladiator
gladiatorial
gladiolus
gladsome
glaikit
glair
glairy
glaive
glamorize
glamorous
glamour
glance
gland
glanders
glandular
glandular fever
glandule
glandulous
glans
glare
glaring
glary
glass
glass cutter
glass harmonica
glass jaw
glass snake
glass wool
glassblowing
glasses
glassful
glasshouse
glutathione
gluteal
glutelin
gluten
gluten bread
glutenous
gluteus
gluteus maximus
glutinous
glutton
gluttonize
gluttonous
gluttony
glyceric
glyceric acid
glyceride
glycerin
glycerinate
glycerite
glycerol
glycerol
glycerol trinitrate
glycine
glyco-
glycogen
glycogenesis
glycol
glycolic acid
glycolysis
glyconeogenesis
glycoprotein
glycoside
glycosuria
glyoxaline
glyph
glyphography
glyptic
glyptics
glyptodont
glyptograph
glyptography
gnarl
gnarled
gnarly
gnashi
gnat
gnatcatcher
gnathic
gnathion
gnathonic
gnaw
gnawing
gneiss
gnome
gnomic
gnomon
gnosis
gnostic
gnotobiotics
gnu
go
go about
go against
go ahead
go along
go around
go at
go away
go back
go by
go down
go for
go forth
go in
go into
go off
go on
go out
go over
go slow
go through
go to
go together
go under
go up
go with
go-ahead
go-between
go-by
go-cart
go-devil
go-getter
go-go dancer
goa
goad
goal
goal line
goal post
goalie
goalkeeper
goaltender
goat
goat antelope
goat's-rue
goatee
goatfish
goatherd
goatish
goatsbeard
goatskin
goatsucker
gob
gobang
gobbet
gobble
gobbledegook
gobbledygook
gobbler
gobio
goblet
goblin
gobo
goby
god
godchild
goddamn
goddamned
goddaughter
goddess
godfather
godforsaken
godhead
godhood
godless
godlike
godly
godmother
godown
godparent
godroon
gosend
gosend
goship
goson
goswit
golden plover
golden retriever
golden rule
golden section
golden syrup
golden wattle
goldeneye
goldenrod
goldenseal
goldeye
goldfinch
goldfish
goldilocks
goldsmith
goldsmith beetle
goldstone
goldthread
golem
golf
golf bag
golf ball
golf club
golf course
golfer
goliard
golly
gombroon
gomphosis
gomuti
gon-
gonad
gonadotropin
gondola
gondola car
gondolier
gone
gone away
goneness
goner
gonfalon
gonfalonier
gonfanon
gong
gong buoy
gonidium
goniometer
gonion
gonna
gono-
gonococcus
gonocyte
gonophore
gonorrhea
goo
goober
good
good Joe
good Samaritan
good afternoon
good behavior
good cheer
good day
good egg
good evening
good faith
good fellow
good humor
good looks
good morning
good nature
good night
good offices
good sort
good turn
good use
good-bye
good-fellowship
good-for-nothing
good-humored
good-looking
good-natured
good-oh
good-sized
good-tempered
goodbye
goodish
goodly
goodman
goodness
goods
goods and chattels
goodwife
goodwill
goody
goody-goody
gooey
goof
goofball
goofy
googly
googol
googolplex
gook
goon
gooney bird
goop
goosander
goose
goose barnacle
goose flesh
goose grass
goose grease
goose pimples
goose step
goose-step
gooseberry
goosefish
gooseflesh
goosefoot
goosegog


gorblimey
gorcock
gore

gorge
gorged

gorgeous

gorgerin

gorget

gorgoneion

gorilla

goring

gormand

gormandize

gormless

gorse
grace
grace cup
grace note
grace period
graceful
graceless
gracile
gracioso
gracious
grackle
grad
grade
gradation
grade
grade crossing
grade school
gradely
grader
gradient
gradin
gradual
gradualism
graduate
graduate nurse
graduate school
graduated
graduation
gradus
graffito
graft
graft hybrid
grafting
graham
graham cracker
graham flour
grain
grain alcohol
grain elevator
grained
grainfield
grains of paradise
grainy
grallatorial
gram
gram atom
gram calorie
gram equivalent
gram molecule
gram.
grama grass
gramarve
gramarcy
gramacidin
gramineous
graminivorous
grammologue
grammar
grammar school
grammalian
grammatical
grammatical gender
grammatical meaning
gramme
gramps
grampus
granadilla
granary
grand
grand duchess
grand duchy
grand duke
grand jury
grand larceny
grand mal
grand opera
grand piano
grand slam
grand tour
grand vizier
grand-
grandam
grandaunt
grandchild
granddad
granddaddy
granddaughter
grande dame
grandee
grandeur
grandfather
grandfather clause
grandfather clock
grandfatherly
grandiloquence
grandiloquent
grandiose
grandioso
grandma
grandmamma
grandmother
grandmotherly
grandnephew
grandniece
grandpa
grandpapa
grandparent
grandsire
grandson
grandstand
granduncle
grange
granger
grangerize
grani-
granite
graniteware
granitite
granivorous
granny
granny knot
grano-
granophyre
grant
grant-in-aid
grantee
grantor
granular
granulate
granulated sugar
granulation
granulation tissue
granule
granulite
granulocyte
granuloma
granulose
grape
grape fern
grape hyacinth
grape sugar
grapefruit
grapery
grapeshot
grapevine
graph
graph paper
grapheme
graphemics
graphic
graphic arts
graphics
graphite
graphitize
graphology
graphomotor
grapnel
grappa
grapple
grapple plant
grappling
grappling iron
graptolite
grasp
grasping
grass
grass cloth
grass court
grass hockey
grass roots
grass snake
grass tree
grass widow
grass-green
grass-of-Parnassus
grasshopper
grassland
grassplot
grassquit
grassy
grate
grateful
grater
graticule
gratification
gratify
gratifying
gratin
grating
gratis
gratitude
gratuitous
gratuity
gratulant
gratulate
gratulation
graupel
gravamen
grave
graveclothes
gravedigger
gravel
gravel-blind
gravelly
graven
graven image
graver
gravestone
graveyard
gravid
gravimeter
gravimetric
gravimetric analysis
graving dock
gravitate
gravitation
gravitational constant
gravitational field
gravitative
graviton
gravity
gravity cell
gravity dam
gravity fault
gravity knife
gravity wind
gravure
gravy
gravy boat
gravy train
gray
gray eminence
gray fox
gray market
gray matter
gray wolf
gray-headed
grayback
graybeard
grayish
grayling
graZe
grazier
grazing
grease
grease cup
grease gun
grease monkey
greaseball
greasepaint
greaser
greasewood
greasy
greasy spoon
great
great ape
great auk
great calorie
great circle
great council
great crested grebe
great gross
great pox
great primer
great seal
great tit
great white heron
great year
great-aunt
great-circle sailing
great-grandaunt
great-granduncle
great-nephew
great-niece
great-uncle
greatcoat
greaten
greatest
greatest common divisor
greathearted
greatly
greave
greaves
grebe
ggee
greed
greedy
greegree
green
green algae
green bean
green belt
green corn
green dragon
green fingers
green gland
green glass
green heron
green light
green manure
green mold
green monkey
green onion
green pepper
green plover
green soap
green tea
green thumb
green turtle
green vitriol
green woodpecker
green-eyed
greenback
greenbelt
greenbottle fly
greenbrier
greenery
greenfinch
greengage
greengrocer
greengrocery
greenhead
greenheart
greenhorn
greenhouse
greenhouse effect
greening
greenish
greenlet
greenling
greenness
greenockite
greenroom
greensand
greenshank
greensickness
greenstick fracture
greenstone
greensward
greenwood
greet
greeting
gregale
gregarine
gregarious
greige
greisen
gremial
gremlin
grenade
grenadier
grenadine
gressorial
grew
grey
greyback
greybeard
greyhen
greyhound
greylag
greywacke
gribble
grid
grid bias
grid variation
griddle
griddleneck
gride
gridiron
grief
grief-stricken
grievance
grieve
grievous
gritte
griffin
griffon
grig
grigi
grill
grillage
grille
grilled
grillroom
grillwork
grilse
grim
grimace
grimalkin
grime
grimy
grin
ground
grind
grindelia
grinder
grindery
grinding wheel
grindstone
gringo
grip
gripe
grippe
gripper
gripping
gripsack
gris-gris
grisaille
griseofulvin
griseous
grisette
griskin
grisly
grison
grist
gristle
gristly
gristmill
grit
grith
grits
gritty
grivation
grivet
grizzle
grizzled
grizzly
grizzly bear
gro.
groan
groat
groats
grocer
groceries
grocery
groceryman
grog
groggery
groggy
grogram
grogshop
groin
grommet
gromwell
groom
groomsman
groove
grooved
grooving plane
groovy
grope
groping
gros de Londres
gros point
grosbeak
groschen
grosgrain
gross
gross national product
gross profit
gross ton
gross weight
grossularite
grosz
grot
grotesque
grotessquary
grotto
grouch
grouchy
ground
ground bait
ground bass
ground beetle
ground cherry
ground cloth
ground cover
ground crew
ground floor
ground glass
ground hog
ground ice
ground ivy
ground log
ground loop
ground pine
ground plan
ground plate
ground plum
ground rent
ground rule
ground squirrel
ground state
ground stroke
ground swell
ground water
ground wave
ground zero
ground-controlled approach
groundage
grounder
groundhog
groundless
groundling
groundmass
groundnut
groundsel
groundsheet
groundsill
groundspeed
groundwork
group
group insurance
group marriage
group practice
group therapy
grouper
groupie
grouping
grouse
grout
grouty
grove
grovel
grow
grow into
grow out of
grow up
grower
growing
growing pains
growl
growler
grown
grown-up
grownp
growth
growth hormone
growth ring
growth stock
groyne
grozing iron
grub
grub hoe
grubby
grubstake
grudge
grudging
gruel
grueling
gruelling
gruesome
gruff
grugru
grum
grumble
grume
grummet
grumous
grumpy
grunio
grunt
grunter
grycphon
gt.
gtd.
guacharo
guacin
guaco
guaiacol
guaiacum
guan
guanabana
guanaco
guanase
guanidine
guanine
guano
 guar.
guarani
guarantee
guaranteed annual wage
guaranteed bond
guaranteed stock
guarantor
guaranty
guard
guard cell
guard hair
guard ring
guard ship
guardant
guarded
guardhouse
guardian
guardian angel
guardianship
guardrail
guardroom
guardsman
guava
guayule
gubernatorial
guberniya
guck
guddle
gudgeon
gudgeon pin
guilder-rose
guenon
guerdon
guereza
guerrilla
guess
guess-rope
guess-warp
guessimate
guesswork
guest
guest rope
guesthouse
guff
guffaw
guggle
guib
gulosity
gulp
gum
gum ammoniac
gum arabic
gum benzoin
gum dammar
gum elastic
gum elemi
gum plant
gum resin
gum up
gumbo
gumboil
gumbotil
gumdrop
gumma
gummite
gummosis
gummous
gummy
gumption
gumshoe
gumwood
gun
gun carriage
gun deck
gun dog
gun for
gun metal
gun moll
gun room
gun tackle
gun-shy
gunboat
guncotton
gunfight
gunfire
gunflint
gung ho
gunk
gunlock
gunmaker
gunman
gunnel
gunner
gunnery
gunning
guyot
guzzle
gybe
gym
gym shoe
gymkhana
gymnasiarch
gymnasiast
gymnasium
gymnast
gymnastic
gymnastics
gymno-
gymnosophist
gymnosperm
gyn-
gynaecoeum
gynaeco-
gynaecocracy
gynaecology
gynaecomastia
gynandromorph
gynandrous
gynantry
gynarchy
gynecic
gynecium
gyneco-
gynecocracy
gynecoid
gynecologist
gynecology
gyniatrics
gyno-
gynoecium
gynophore
gyp
gyp joint
gypsophila
gypsum
gypsy moth
gyral
gyrate
gyration
gyratory
gyre
gyrfalcon
gyro
gyro horizon
-gyro-
gyrocompass
gyromagnetic
gyromagnetic ratio
gyron
gyronny
gyroplane
gyroscope
gyrose
gyrostatic
gyrostabilizer
gyrostat
gyrostatic
gyrostatic compass
gyrostatics
gyros
gyve
h
h'm
h.
h.a.
h.s.
ha
ha'penny
ha-ha
haaf
haar
habanera
habeas corpus
haberdasher
haberdashery
habergeon
habile
habiliment
habilitate
habit
habit-forming
habitable
habitancy
habitant
habitat
habitation
habited
habitual
habituat
habitude
habitue
hachure
hacienda
hack
hack hammer
hackamore
hackberry
hackbut
hackery
hacking
hacking jacket
hackle
hackle fly
hackman
hackney
hackney coach
hackneyed
hawksaw
had
haddock
hade
hadj
hadji
hadn't
hadron
hadst
hae
haecceity
haem-
haema-
haemachrome
haemagglutinate
haemal
haemantic
haematite
haemato-
haematoblast
haematocele
haematocryal
haematogenesis
haematogenous
haematoid
haematoma
haematopoiesis
haematosis
haematothermal
haematoxylin
haematoxyylon
haematozoon
haemic
haemin
haemo-
haemocyte
haemoglobin
haemoid
haemolysin
haemolysis
haemophilia
haemophilic
haemorrhage
haemostasis
haemostat
haemostatic
haeres
hafiz
hafnium
haft
hag
hag-ridden
hagberry
hagbut
hagfish
haggadist
haggard
haggis
haggle
hagiarchy
hagio-
hagiocracy
hagiographer
hagiography
hagiolatry
hagiology
hagioscope
hagrider
hah
haik
haiku
hail
hail-fellow-well-met
hailstone
hailstorm
hair
hair follicle
hair hygrometer
hair seal
hair shirt
hair space
hair stroke
hair trigger
hair's-breadth
hair-raising
hairball
hairbreadth
hairbrush
haircloth
haircut
hairdo
hairdresser
hairless
hairline
hairpiece
hairpin
hairsplitter
hairsplitting
hairspring
hairstreak
hairstyle
hairtail
hairworm
hairy
hajj
hajji
hake
hakim
hal-
halation
halberd
halcyon
hale
haler
half
half blood
half boot
half brother
half cadence
half crown
half deck
half dollar
half eagle
half frame
half gainer
half hitch
half hose
half note
half sister
half step
half time
half volley
half-and-half
half-assed
half-baked
half-blood
half-blooded
half-bound
half-breed
half-caste
half-cock
half-cocked
half-hardy
half-hour
half-length
half-life
half-light
half-mast
half-moon
half-pint
half-price
half-seas over
half-slip
half-sole
half-timbered
half-track
half-truth
half-wit
half-witted
halfback
halfbeak
halfhearted
halfpenny
halftone
halfway
halfway house
halibut
halibut-liver oil
halide
halidom
halite
halitosis
hall
hallah
handicap
handicapped
handicapper
handicraft
handicraftsmen
handily
handiness
handiwork
handkerchief
handle
handlebar
handlebar moustache
handler
handling
handmade
handmaid
handmaiden
handout
handpick
handrail
hands
handsaw
handsel
handset
handshake
handshaker
handsome
handsomely
handspike
handspring
handstand
handwork
handwoven
handwriting
handy
handyman
hang
hang about
hang back
hang in
hang on
hang out
hang together
hang up
hang-up
hangar
hangbird
hangdog
hanger
hanger-on
hanging
hanging buttress
hanging post
hanging valley
hanging wall
hangman
hangnail
hangout
hangover
hank
hanker
hankering
hanky
hanky-panky
hansel
hansom
hanuman
hap
hapax legomenon
haphazard
haphazardly
hapless
haplite
haplo-
haplography
haploid
haplology
haplosis
haply
happen
happening
happenstance
happily
happiness
happy
happy hunting ground
happy-go-lucky
hapten
hara-kiri
harangue
harass
harassed
harbinger
harbor
harbor seal
harborage
harmonium
harmonize
harmony
harmotome
harness
harness cask
harness hitch
harness race
harnessed antelope
harp
harper
harping
harpist
harpoon
harpoon gun
harpsichord
harpy
harpy eagle
harquebus
harquebusier
harridan
harrier
harrow
harrumph
harry
harsh
harslet
hart
hart's-tongue
hartal
hartebeest
hartshorn
harum-scarum
haruspex
haruspicy
harvest
harvest home
harvest mite
harvest moon
harvest mouse
harvester
harvestman
has
has-been
hash
hash house
hashish
haslet
haut monde
hautbois
hautboy
haute couture
haute cuisine
hauteur
have
have at
have on
have-not
havelock
haven
haven't
haver
haversack
haversine
havildar
havoc
haw
hawfinch
hawk
hawk moth
hawk owl
hawk's-beard
hawk's-eye
hawk-eyed
hawkbill
hawker
hawking
hawksbill turtle
hawkshaw
hawkweed
hawse
hawse bag
hawsehole
hawsepiece
hawsepipe
hawser
hawser bend
hawser-laid
hawthorn
hay
hay fever
haycock
hayfield
hayfork
hayloft
haymaker
headless
headlight
headline
headliner
headlock
headlong
headman
headmaster
headmistress
headmost
headphone
headpiece
headpin
headquarters
headrace
headrail
headreach
headrest
headroom
heads
heads or tails
headsail
headset
headship
headsman
headspring
headstall
headstand
headstock
headstone
headstream
headstrong
headwaiter
headward
headwards
headwater
headwaters
headway
headwind
headword
headwork
heady
heal
heal-all
healing
health
health insurance
health physics
heathful
healthy
heap
hear
hear out
hearing
hearing aid
hearken
hearsay
hearsay evidence
hear
heart
heart attack
heart block
heart cherry
heart failure
heart murmur
heart-lung machine
heart-stricken
heart-to-heart
heart-warming
heart-whole
heartache
heartbeat
heartbreak
heartbreaker
heartbreaking
heartbroken
heartburn
heartburning
hearten
heartfelt
hearth
hearthside
hearthstone
heartily
heartland
heartless
heartrending
hearts
heartsease
heartsick
heartsome
heartstrings
heartthrob
heartwood
heartworm
hearty
heat
heat barrier
heat capacity
heat content
heat engine
heat exchanger
heat exhaustion
heat lightning
heat prostration
heat pump
heat rash
heat shield
heat wave
heated
heater
heath
heath cock
heath grass
heath hen
heathberry
heathen
heathendom
heathenish
heathenism
heathenize
heathenry
heather
heating element
heating pad
heatstroke
heaume
heave
heave down
heave to
heave-ho
heaven
heaven-sent
heavenly
heavenward
heaver
heaves
heavier-than-air
heavily
heaviness
heaving-line bend
heavy
heavy artillery
heavy bomber
heavy cream
heavy cruiser
heavy earth
heavy hydrogen
heavy spar
heavy water
heavy-armed
heavy-duty
heavy-footed
heavy-handed
heavy-hearted
heavy-laden
heavyhearted
heavyset
heavyweight
hebdomad
hebdomadal
hebdomadary
hebephrenia
hebetate
hebetic
hebetude
hecatomb
heck
heckelphone
heckle
hectare
hectic
hecto-
hectocotylus
hectogram
hectograph
hectoliter
hectometer
hector
heddle
heder
hedge
hedge garlic
hedge hyssop
hedge sparrow
hedgehog
hedgehop
hedger
hedgerow
hedonic
hedonic calculus
hedonics
hedonism
heebie-jeebies
heed
heedful
heedless
heehaw
heel
heel bone
heel-and-toe
heeled
heeler
heeling
heelpiece
heelpost
heeltap
heft
hefty
hegemony
hegira
hegumen
heifer
heigh-ho
height
height of land
height-to-paper
heighten
heinous
heir
heir apparent
heir at law
heir presumptive
heirdom
heiress
heirloom
heirship
heist
held
heliacal
helianthus
helical
helical gear
helices
helicline
helico-
helicograph
helicoid
helicon
helicopter
helio-
heliocentric
heliocentric parallax
heliograph
heliogravure
heliolatry
heliometer
hiostat
heliotaxis
heliotherapy
heliotrope
heliotropin
heliotropism
heliotype
heliozoan
heliport
helium
helix
hell
hell-bent
hell-raiser
hellbender
hellbent
hellbox
hellcat
helldiver
hellebore
heller
hellfire
hellgrammite
hellhole
hellhound
hellion
hellish
hellkite
hello
helluva
helm
helmet
helminth
helminthiasis
helminthic
helminthology
helmsman
helot
helotism
helotry
help
helper
helpful
helping
helping hand
helpless
helpmate
helpmeet
helter-skelter
helve
hem
hem-
-hema-
hemangioma
hematite
hemato-
hematology
hematuria
hemelytron
hemeralopia
hemi-
hemialgia
hemianopsia
hemicellulose
hemichordate
hemicrania
hemicycle
hemidemisemiquaver
hemielytron
hemihedral
hemihydrate
hemimorphic
hemimorphite
hemiplegia
hemipode
hemipterous
hemisphere
hemispheroid
hemistich
hemiterpene
hemitrope
hemline
hemlock
hemmer
hemo-
hemocyte
hemoglobin
hemolysis
hemophilia
heresy
heretic
heretical
hereto
heretofore
hereunder
hereunto
hereupon
herewith
heriot
heritable
heritage
heritor
herl
herm
hermaphrodite
hermaphrodite brig
hermaphroditism
hermeneutic
hermeneutics
hermetic
hermit
hermit crab
hermit thrush
hermitage
hern
hernia
herniorrhaphy
hemiotomy
hero
hero sandwich
hero worship
hero-worship
heroic
heroic age
heroic couplet
heroic tenor
heroic verse
heroics
heroin
heroine
heroism
heron
heronry
herp.
herpes
herpes simplex
herpes zoster
heteromorphic
heteronomous
heteronomy
heteronym
heterophony
heterophyllous
heterophyte
heteroplasty
heteropolar
heteropterous
heterosexual
heterosexuality
heterosis
heterosporous
heterotaxis
heterothallic
heterotopia
heterotrophic
heterotypic
heterozygote
heterozygous
heth
hetman
heulandite
heuristic
hew
hex
hexa-
hexachlorophene
hexachord
hexacosanoic acid
hexad
hexaemeron
hexagon
hexagonal
hexagram
hexahedron
hexahydrate
hexamerous
hexameter
hexamethylenetetramine
hexane
hexangular
hexanoic acid
hexapartite
hexapla
hexapod
hexapody
hexarchy
hexastich
hexastyle
hexavalent
hexone
hexosan
hexose
hexyl
hexylresorcinol
hey
heyday
hf.
hg
hgt.
hhd
hi
hi-fi
hiatus
hibachi
hibermaculum
hibernal
hibernate
hibiscus
hic
hic jacet
hiccup
hick
hickey
hickory
hid
hidalgo
hidden
hiddenite
hide
hide-and-seek
hideaway
hidebound
hideous
hideout
hiding
hidrosis
hie
hiemal
hieracosphinx
hierarch
hierarchize
hierarchy
hieratic
hiero-
hierocracy
hierodule
hieroglyphic
hierogram
hierolatry
hierology
hierophant
hifalutin
higgle
higgledy-piggledy
higgler
high
high and mighty
high blood pressure
high camp
high comedy
high command
high commissioner
high day
high explosive
high fashion
high fidelity
high frequency
high hat
high jinks
high jump
high jumper
high noon
high place
high point
high priest
high relief
high school
high schooler
high sea
high seas
high sign
high society
high spirits
high spot
high table
high tea
high tide
high time
high treason
high water
high wire
high-angle fire
high-class
high-colored
high-flown
high-grade
high-handed
high-hat
high-key
high-keyed
high-minded
high-muck-a-muck
high-octane
high-pitched
high-powered
high-pressure
high-priced
high-sounding
high-speed
high-speed steel
high-spirited
high-stepper
high-strung
high-tension
high-test
high-toned
high-up
high-water mark
high-wrought
highball
highbinder
highborn
highbound
highbred
highbrow
highchair
higher arithmetic
higher criticism
higher education
higher mathematics
higher-up
highfalutin
highflier
highjack
highland
highlight
highline
highly
highness
highroad
hight
hightail
highway
highway robbery
highwayman
hijack
hijacker
hike
hilarious
hilarity
hill
hill myna
hill station
hillbilly
hillbilly music
hillock
hillside
hilltop
hilly
hilt
hilum
him
himation
himself
hin
hind
hindbrain
hinder
hindermost
hindgut
hindmost
hindquarter
hindrance
hindsight
hindward
hinge
hinging post
hinny
hint
hinterland
hip
hip bath
hip joint
hip roof
hip-huggers
hipbone
hipparch
hipped
hippie
hippo
hippocampus
hippocras
hippodrome
hippogriph
hippopotamus
hippy
hipster
hiragana
hircine
hire
hired hand
hireling
hirsute
hirsutism
hirudin
hirundine
his
hispid
hispidulous
his
hissing
hist.
histaminase
histamine
histidine
histiocyte
histo-
histochemistry
histogen
histogenesis
histogram
histoid
histology
histolysis
histone
histopathology
histoplasmosis
historian
historiated
historic
historical
historical geology
historical linguistics
historical materialism
historical method
historical novel
historical present
historical school
historicism
historicity
historied
historiographer
historiography
history
histrionic
histrionics
histrionism
hit
hit off
hit-and-miss
hit-and-run
hit-or-miss
hitch
hitchhike
hitching post
hither
hithermost
hitherto
hitherward
hive
hives
hl
hm
ho
hoactzin
hoagy
hoar
hoard
hoarding
hoarfrost
hoarhound
hoarse
hoarsen
hoary
hoatzin
hoax
hob
hobble
hobble skirt
hobbledehoy
hobby
hobbyhorse
hobgoblin
hobnail
hobnailed
hobnob
hobo
bock
hockey
hocus
hocus-pocus
hod
hod carrier
hodden
hodgpodge
hodman
hodometer
hoe
hoecake
hoedown
hog
hog cholera
hog peanut
hogan
hogback
hogfish
hoggish
hognose snake
hognut
hogshead
hogtie
hogwash
hogweed
hoi polloi
hoick
hoicks
hoiden
hoist
hoity-toity
hokey-pokey
hokku
hokum
hold
hold back
hold down
hold forth
hold in
hold off
hold on
hold out
hold over
hold together
hold with
holdall
holdback
holden
holder
holdfast
holding
holding company
holding pattern
holdover
holdup
hole
hole in one
hole up
hole-and-corner
holeproof
holiday
holier-than-thou
holily
holiness
holism
hollandaise sauce
holler
hollo
hollow
hollow-eyed
holly
holly fern
hollyhock
holm
holm oak
holmic
holmium
holo-
holoblastic
holocaust
holocrine
holoenzyme
holograph
holography
holohedral
holomorphic
holophrastic
holophytic
holothurian
holotype
holozoic
holp
holpen
hols
holster
holt
holus-bolus
holy
holy day
holy of holies
holy orders
holy place
holy rood
holy synod
holy war
holy water
holystone
holytide
homage
homager
hombre
homburg
home
home economics
home guard
home plate
home range
home rule
home run
home-brew
home-grown
homebody
homebred
homecoming
homegrown
homeland
homeless
homelike
homely
homemade
homemaker
homemaking
homeo-
homeomorphism
homeopathic
homeopathist
homeopathy
homeostasis
homologue
homology
homolosine projection
homomorphism
homonym
homophile
homophone
homophonic
homophonous
homophony
homopolar
homopterous
homorganic
homosexual
homosexuality
homosporous
homotaxis
homothallic
homothermal
homozygote
homozygous
homunculus
homy
hon
hone
honest
honestly
honesty
honesty
honewort
honey
honey buzzard
honey guide
honey locust
honey mesquite
honey plant
honey-sweet
honeybee
honeybunch
honeycomb
honeydew
honeydew melon
honeyed
honeymoon
honeysucker
honeysuckle
honeysuckle ornament
hong
honied
horned lizard  
horned owl  
horned poppy  
horned pout  
horned screamer  
horned toad  
horned viper  
hornet  
hornet's nest  
hornpipe  
hornstone  
hornswoogle  
horntail  
hornwort  
horny  
horol.  
horologe  
horologist  
horologium  
horology  
horoscope  
horoscopy  
horotelic  
horrendous  
horrible  
horribly  
horrid  
horrific  
horrified  
horrify  
horripilate  
horripilation  
horror  
horror-struck  
hors concours  
hors d'oeuvre  
hors de combat  
horse  
horse around  
horse bean  
horse brass  
horse chestnut  
horse gentian  
horse latitudes  
horse mackerel  
horse marine  
horse nettle  
horse opera
horse pistol
horse sense
horse trader
horse-faced
horseback
horsecar
horseflesh
horsefly
horsehair
horselive
horsehead
horsehide
horselaughter
horseleech
horseman
horsmanship
horsemint
horseplay
horsepower
horsepower-hour
horseradish
horseshit
horseshoe
horseshoe arch
horseshoe crab
horseshoe magnet
horseshoes
horsetail
horseweed
horsewhip
horsewoman
horsey
horst
horsy
hort.
hortative
hortatory
horticulture
hortus siccus
hosanna
hose
hosier
hosiyer
hosp.
hospice
hospitable
hospital
hospital bed
hospital corner
hospital ship
hospitality
hospitalization
hospitalization insurance
hospitalize
hospitium
hospodar
host
hostage
hostel
hostel school
hostelry
hostess
hostile
hostility
hostler
hot
hot air
hot buttered rum
hot cake
hot cockles
hot cross bun
hot dog
hot lick
hot line
hot metal
hot money
hot pants
hot pepper
hot plate
hot potato
hot rod
hot seat
hot spot
hot spring
hot stuff
hot war
hot water
hot-air balloon
hot-blooded
hot-cathode tube
hot-press
hot-tempered
hot-water bug
hot-water bottle
hotbed
hotbox
hotchpot
hotchpotch
hotel
hoofoot
hothead
hotheaded
hothouse
hotshot
hotspur
hough
hound
hound's-tongue
hounding
houppelande
hour
hour angle
hour circle
hour hand
hourglass
houri
hourly
house
house agent
house arrest
house detective
house finch
house flag
house martin
house mouse
house of God
house of assignation
house of cards
house of correction
house of detention
house of ill repute
house of prayer
house of prostitution
house of worship
house organ
house party
house physician
house sparrow
house trailer
house-raising
houseboat
housebound
houseboy
housebreak
housebreaker
housebreaking
housebroken
housecarl
houseclean
housecoat
housefather
housefly
household
household gods
household troops
householder
housekeeper
housekeeping
housel
houseleek
houseless
houselights
houzeline
housemaid
housemaid's knee
houseman
housemaster
housemother
houseroom
housetop
housewares
housewarming
housewife
housewifely
housewifery
housework
housey-housey
housing
houstonia
hove
hovel
hover
hovercraft
how
how-do-you-do
howbeit
howdah
howdy
howe'er
however
howitzer
howl
howler
howlet
howling
howsoever
ho
hoyden
hr.
ht.
huarache
hub
hubble-bubble
hubbub
hubby
hubris
huckaback
huckleberry
huckster
huddle
hue
hue and cry
hued
huff
huffish
huffy
hug
hug-me-tight
huge
hugely
hugger-mugger
huh
hula
hula skirt
hula-hula
hulk
hulking
hulky
hull
hullabaloo
hullo
hum
human
human being
human interest
human nature
human rights
humane
humane society
humanism
humanist
humanitarian
humanitarianism
humanity
humanize
humankind
humanly
humanoid
humble
humble pie
humblebee
humbug
hunbaggery
humdinger
humdrum
humectant
humeral
humeral veil
humerus
humic
humid
humidifier
humidify
humidistat
humidity
humidor
humiliate
humiliating
humiliation
humility
humming
hummingbird
hummingbird moth
hummock
hummocky
humor
humoral
humoresque
humorist
humorous
humour
hump
humpback
humpbacked
humph
humpy
humus
hunch
hunchback
hunchbacked
hundred
hundred-percenter
hundredfold
hundredth
hundredweight
hung
hunger
hunger strike
hungry
hunk
hunker
hunkers
hunks
hunky-dory
hunt
hunt down
hunt up
hunter
hunter's moon
hunting
hunting ground
hunting horn
hunting knife
huntress
huntsman
huntsman's-cup
huppah
hurdle
hurds
hurdy-gurdy
hurl
hurley
hurling
hurly-burly
hurrah
hurricane
hurricane deck
hurricane lamp
hurried
hurry
hurry-scurry
hurst
hurt
hurter
hurtful
hurtle
hurtless
husband
husbandman
husbandry
hush
hush money
hush puppy
hush up
hush-hush
hushaby
husk
husking
husking bee
husky
hussar
hussy
hustings
hustle
hustler
hut
hutch
hutment
huzzah
hwan
hyacinth
hyaena
hyaline
hyaline cartilage
hyalite
hyalo-
hyaloid
hyaloid membrane
hyaloplasm
hyaluronic acid
hyaluronidase
hybrid
hybridism
hybridize
hybris
hydantoin
hydatid
hydnocarpate
hydnocarpic acid
hydr-
hydra
hydracid
hydrangea
hydrant
hydranth
hydrargyrum
hydrastine
hydrastinine
hydrastis
hydrate
hydrated
hydraulic
hydraulic brake
hydraulic lift
hydraulic mining
hydraulic press
hydraulic ram
hydraulics
hydazine
hydrazoic acid
hydria
hydric
hydride
hydriodic acid
hydro
hydro-
hydrobomb
hydrobromic acid
hydrocarbon
hydrocele
hydrocellulose
hydrocephalus
hydrochloric acid
hydrochloride
hydrocortisone
hydrocyanic acid
hydrodynamic
hydrodynamics
hydroelectric
hydrofluoric acid
hydrofoil
hydrogen
hydrogen bomb
hydrogen bromide
hydrogen chloride
hydrogen cyanide
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen peroxide
hydrogenenate
hydrogenize
hydrogenolysis
hydrogenous
hydrogeology
hydrograph
hydrography
hydroid
hydrokinetic
hydrokinetics
hydrologic cycle
hydrology
hydrolysate
hydrolyse
hydrolysis
hydrolyte
hydrolytic
hydrolyze
hydromagnetics
hydromancy
hydromechanics
hydromedusa
hydromel
hydrometallurgy
hydrometeor
hydrometer
hydropathy
hydrophane
hydrophilic
hydrophilous
hydrophobia
hydrophobic
hydrophone
hydrophyte
hydropic
hydroplane
hydropionics
hydrops
hydroquinone
hydroscope
hydrosol
hydosome
hydrosphere
hydrostatic
hydrostatics
hydrotaxis
hydrotherapeutics
hydrotherapy
hydrothermal
hydrothorax
hydrotropism
hydrous
hydroxide
hydroxy
hydroxy acid
hydroxy-
hydroxyl
hydroxyamine
hydrozoan
hyena
hyetal
hyetograph
hyetography
hyetology
hygiene
hygienic
hygienics
hygienist
hygro-
hygrograph
hygrometer
hygrometric
hygrometry
hygrophilous
hygroscope
hygroscopic
hygrostat
hygrothermograph
hying
hyla
hylo-
hylomorphism
hylophagous
hylotheism
hylozoism
hymen
hymeneal
hymenium
hymenopteran
hymenopterous
hymn
hymnal
hymnist
hymnody
hymnology
hyoid
hyoscine
hyoscyamine
hyoscyamus
hyp-
hyp.
hypabyssal
hypaesthesia
hypaethral
hypallage
hypanthium
hype
hyper-
hyperacidity
hyperactive
hyperaemia
hyperaesthesia
hyperbaric
hyperbaton
hyperbola
hyperbole
hyperbolic
hyperbolic function
hyperbolic geometry
hyperbolism
hyperbolize
hyperboloid
hyperborean
hypercatalectic
hypercorrect
hypercorrection
hypercritical
hypercriticism
hyperdulia
hyperemia
hyperesthesia
hyperextension
hyperfine structure
hyperfocal distance
hyperform
hypergolic
hyperkeratosis
hyperkinesia
hypermeter
hypermetropia
hyperon
hyperopia
hyperostosis
hyperparathyroidism
hyperphagia
hyperphysical
hyperpituitarism
hyperplane
hyperplasia
hyperploid
hyperpyrexia
hypersensitive
hypersensitize
hypersonic
hyperspace
hypersthene
hypertension
hypertensive
hyperthermia
hyperthyroidism
hypertonic
hypertrophy
hyperventilation
hypervitaminosis
hypesthesia
hypethral
hypha
hyphen
hyphenate
hyphenated
hypno-
hynoanalysis
hypnogenesis
hypnology
hypnosis
hypnotherapy
hypnotic
hypnotism
hypnotist
hypnotize
hypo
hypo-
hypoacidity
hypoaeolian mode
hypoblast
hypocaust
hypochlorite
hypochlorous acid
hypochondria
hypochondriac
hypochondriasis
hypochondrium
hypochromia
hypochromic anemia
hypocorism
hypocoristic
hypocotyl
hypocrisy
hypocrite
hypocycloid
hypoderm
hypoderma
hypodermic
hypodermic needle
hypodermic syringe
hypodermis
hypodorian mode
hypogastrium
hypogeal
hypogene
hypogenous
hypogeous
hypogonium
hypoglossal
hypoglossal nerve
hypoglycemia
hypognathous
hypogynous
hypoid gear
hypolimnion
hypolydian mode
hypomania
hypomixolydian mode
hyponasty
hyponitrite
hyponitrous acid
hypophosphate
hypophosphate
hypophosphoric acid
hypophosphorous acid
hypophrygian mode
hypophyge
hypophysia
hypopituitarism
hypoplasia
hypoploid
hyposensitize
hypostasis
hypostasize
hypostatize
hyposthenia
hypostyle
hypotaxis
iatric
iatrochemistry
iatrogenic
ib.
ibex
ibid.
ibidem
ibis
ibn-Rushd
ibn-Saud
ibn-Sina
ice
ice age
ice bag
ice belt
ice cave
ice cream
ice cube
ice field
ice floe
ice foot
ice front
ice hockey
ice island
ice machine
ice milk
ice needle
ice pack
ice pick
ice plant
ice point
ice sheet
ice shelf
ice show
ice skate
ice storm
ice water
ice yacht
ice-cold
ice-cream cone
ice-cream soda
ice-skate
iceberg
iceberg lettuce
iceblink
iceboat
icebound
icebox
icebreaker
icecap
iced
icefall
icehouse
iceman
ichneumon
ichneumon fly
ichnite
ichnography
ichnology
ichor
ichthyic
ichthyo-
icththyoid
ichthyol.
icthyolite
ichthyology
ichthyornis
ichthyosaur
ichthyosis
icicle
icily
iciness
icing
icing sugar
icky
icon
iconic
icono-
iconoclasm
iconoclast
iconoduly
iconography
iconolatry
iconology
iconoscope
iconostasis
icosahedron
icterus
ictus
icy
id
id est
id.
idea
ideal
ideal gas
idealism
Idealist
idealistic
ideality
idealize
ideally
ideate
ideation
ideational
ideatum
idem
idempotent
identic
identical
identical proposition
identification
identification tag
identify
identity
ideo-
ideogram
ideograph
ideography
ideologist
ideology
ideomotor
ides
idio-
idioblast
idiocrasy
idiocy
idioglossia
idiographic
idiol ect
idiom
idiomatic
idiomorphic
idiopathy
idiophone
idioplasm
idiosyncrasy
idiot
idiot board
idiotic
idiotism
idle
idle pulley
idle wheel
| idler | idocrase | idol | idolater | idolatrize | idolatrous | idolatry | idolism | idolist | idolize | idolum | idyll | idyllic | idyllist | if | iffy | igloo | ign. | igneous | ignescent | ignis fatuus | ignite | igniter | ignition | ignitron | ignoble | ignominious | ignominy | ignoramus | ignorance | ignorant | ignoratio elenchi | ignore | iguana | iguanodon | ihram | ikebana | ikon | il- | ilang-ilang | ileac | ileitis | ileo- | ileostomy | ileum | ileus | ilet | iliac |
ilium
ilk
ill
ill fame
ill feeling
ill temper
ill will
ill-advised
ill-affected
ill-assorted
ill-behaved
ill-boding
ill-bred
ill-conditioned
ill-considered
ill-defined
ill-disposed
ill-fated
ill-favored
ill-founded
ill-gotten
ill-humored
ill-judged
ill-looking
ill-mannered
ill-natured
ill-omened
ill-sorted
ill-starred
ill-suited
ill-tempered
ill-timed
ill-treat
ill-usage
ill-use
ill.
ilation
illative
illaudable
illegal
illegality
illegalize
illegible
illegitimacy
illegitimate
illiberal
illicit
illimitable
illinium
illiquid
illiteracy
illiterate
illness
illogic
illogical
illogicality
illum
illuminance
illuminant
illuminate
illuminati
illuminating
illumination
illuminative
illuminator
illumine
illuminism
illuminometer
illusion
illusionary
illusionism
illusionist
illusive
illusory
illust.
illustrate
illustration
illustrational
illustrative
illustrator
illustrious
illuviation
ilmenite
im-
image
image dissector
image orthicon
imagery
imaginable
imaginal
imaginary
imaginary number
imagination
imaginative
imagine
imagism
imago
imam
imamate
imaret
imbalance
imbecile
imbecilic
imbecility
imbed
imbibe
imbibition
imbricate
imbrication
imbroglio
imbrue
imbue
imidazole
imide
imine
iminourea
imit.
imitable
imitate
imitation
imitative
immaculate
immanent
immaterial
immaterialism
inmateriality
immaterialize
immature
immensurable
immediacy
immediate
immediate annuity
immediate constituent
immediately
immedicable
immemorial
immense
immensity
immensurable
immerge
immerse
immersed
immersion
immersionism
immesh
immethodical
immigrant
immigrate
immigration
imminence
imminent
imningle
immiscible
immitigable
immix
immixture
immobile
immobility
immobilize
immoderacy
immoderate
immoderation
immodest
immolate
immolation
immoral
immoralist
immorality
immortal
immortality
immortalize
immortelle
immotile
immovable
immune
immunity
immunize
immuno-
immunochemistry
immunogenetics
immunogenic
immunology
immunoreaction
immunotherapy
immure
immutable
imp
imp.
imp. gal.
impact
impacted
impaction
implement
impletion
implicate
implication
implicative
implicatory
implicit
implied
implode
implore
implosion
implosive
imply
impolicy
impolite
impolitic
imponderabilia
imponderable
import
importance
important
importation
importunacy
importunate
importune
importunity
impose
imposing
imposing stone
imposition
impossibility
impossible
impossibly
impost
impostor
impostume
imposture
impotence
impotent
impound
impoverish
impoverished
impower
impracticable
impractical
imprecate
imprecation
imprecise
imprecision
impregnable
impregnate
impresa
impresario
impressible
impress
impressible
impression
impressionable
impressionism
impressionist
impressive
impressment
impressure
imprest
imprimatur
imprimis
imprint
imprinting
imprison
imprisonment
improbability
improbable
improbity
impromptu
improper
improper fraction
improper integral
impropriate
impropriety
improve
improvement
improvident
improvisation
improvisator
improvisatory
improvise
improvised
improvvisatore
imprudent
impudence
impudent
impudicity
impugn
impuissant
impulse
impulse buying
inability
inaccessible
inaccuracy
inaccurate
inaction
inactivate
inactive
inadequate
inadmissible
inadvertence
inadvertency
inadvertent
inadvisable
inalienable
inalterable
inamorata
inamorato
inane
inanimate
inanition
inanity
inappetence
inapplicable
inapposite
inappreciable
inappreciative
inapprehensible
inapprehensive
inapproachable
inappropriate
inapt
inaptitude
inarch
inarticulate
inartificial
inartistic
inasmuch as
inattention
inattentive
inaudible
inaugural
inaugurate
inauspicious
inbeing
inboard
inborn
inbound
inbreathe
inbred
inbreed
inbreeding
inc.
incalculable
incalescent
incandesce
incandescence
incandescent
incandescent lamp
incantation
incantatory
incapable
incapacious
incapacitate
incapacity
incarcerate
incardinate
incardination
incarnadine
incarnate
incarnation
incase
incautious
incendiary
incendiary
incense
incensory
incentive
incept
inception
inceptive
incertitude
incessant
incest
incestuous
inch
inchmeal
inchoate
inchoation
inchoative
inchworm
incidence
incident
incidental
incidental music
incidentally
incinerate
incinerator
incipient
incipit
incise
incised
incision
incisive
incisor
incisure
incite
incitement
incivility
incl.
inclément
inclinable
inclination
inclinatory
incline
inclined
inclined plane
inclinometer
inclose
include
included
inclusion
inclusion body
inclusive
incoercible
incogitable
incogitant
incognito
incognizant
incoherence
incoherent
incombustible
income
income account
income bond
income tax
incomer
incoming
incommensurable
incommensurate
incommode
incommodious
incommodity
incommunicable
incommunicado
incommunicative
incommutable
incomparable
incompatible
incompetence
incompetent
incomplete
incompletion
incompliant
incomprehensible
incomprehension
incomprehensive
incompressible
incomputable
inconceivable
inconclusive
incondensable
incondite
inconformity
incongruent
incongruity
incongruous
inconsecutive
inconsequent
inconsequential
inconsiderable
inconsiderate
inconsistency
inconsistent
inconsolable
inconsonant
inconspicuous
inconstant
inconsumable
incontestable
incontinent
incontrollable
incontrovertible
inconvenience
inconveniency
inconvenient
inconvertible
inconvincible
incoordinate
incoordination
incorporable
incorporate
incorporated
incorporating
incorporation
incorporator
incorporeal
incorporeity
incorrect
incorrigible
incrupt
incorruptible
incorruption
incr.
incressate
increase
increasing
increase
incredible
incredulity
incredulous
increment
increcent
increation
inbring
incrust
incrustation
incubate
incubation
incubation period
incubator
incubus
incudes
inculcate
inculpable
inculpate
incult
incumbency
incumbent
incumber
incunabula
incunabulum
incur
incurable
incurious
incurrence
incurrent
incursion
incursive
incurvate
independent
independent variable
indescribable
indestructible
indeterminable
indeterminacy
indeterminacy principle
indeterminate
indeterminate sentence
indetermination
indeterminism
indevout
index
index card
index finger
index number
index of refraction
indic.
indic.
indicant
indicate
indication
indicative
indicator
indicatory
indices
indicia
indict
indictable
indiction
indictment
indifference
indifferent
indifferentism
indigence
indigene
indigenous
indigent
indigested
indigestible
indigestion
indigestive
indign
indignant
indignation
indignity
indigo
indigo blue
indigo bunting
indigo snake
indigoid
indigotin
indirect
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indirect initiative
indirect lighting
indirect object
indirect tax
indirection
indiscernible
indiscernible
indoor
indoors
indophenol
indorse
indoxyl
indraft
indrawn
indubitability
indubitable
induc.
induce
induced drag
inducement
induct
inductance
inductee
inductive
induction
induction coil
induction heating
induction motor
inductive
inductive reactance
inductor
indue
indulge
indulgence
indulgent
induline
indult
induna
induplicate
indurate
induration
indusium
industrial
industrial design
industrial life insurance
industrial park
industrial psychology
industrial school
industrial union
industrialism
industrialist
industrialize
industrials
industrious
industry
indwell
inearth
inebriant
inebriate
inebriety
inedible
inedited
ineducable
ineducation
ineffable
ineffaceable
ineffective
ineffectual
inefficacious
inefficacy
inefficiency
inefficient
inelastic
inelegance
inelegancy
inelegant
ineligible
ineloquent
ineluctable
ineludible
innenarrable
inert
ineptitude
inequality
inequitable
inequity
ineradicable
inerasable
inerrele
inerrant
inert
inert gas
inertia
inertial guidance
inertial system
inescapable
inescutcheon
inessential
inessive
inestimable
inevasible
inevitable
inexact
inexactitude
inexcusable
inexecution
inexertion
inexhaustible
inexistent
inexorable
inexpedient
inexpensive
inexperience
inexperienced
inexpert
inexpiable
inexplicable
inexplicit
inexpressible
inexpressive
inexpugnable
inexpungible
inextensible
inextinguishable
inextirpable
inextricable
inf.
infallibilism
infallible
infamous
infamy
infancy
infant
infanta
infante
infanticide
infantile
infantile paralysis
infantilism
infantine
infantry
infantryman
infarct
infarction
infare
infatuate
infatuated
infatuation
infeasible
infect
infection
infectious
infectious hepatitis
infectious mononucleosis
infective
infecund
infelicitous
infelicity
infer
inference
inferential
inferior
inferior planet
inferiority complex
infernal
infernal machine
inferno
infertile
infest
infestation
infeudation
infidel
infidelity
infeld
infighting
infiltrate
infiltration
infin.
infinite
infinitesimal
infinitesimal calculus
infinitive
infinitude
infinity
infirm
infirmary
infirmitiy
infix
inflame
inflammable
inflammation
inflammatory
inflatable
inflate
inflated
inflation
inflationary
inflationary spiral
infusion
infusionism
infusive
infusorian
ingate
ingather
ingathering
ingeminate
ingenerate
ingenious
ingenue
ingenuity
ingenuous
ingest
ingesta
ingle
inglenook
ingleside
inglorious
ingoing
ingot
ingot iron
ingraft
ingrain
ingrained
ingrate
ingratiate
ingratiating
ingratitude
ingravescent
ingredient
ingress
ingressive
ingroup
ingrowing
ingrown
ingrowth
inguinal
ingulf
ingurgitate
inhabit
inhabitancy
inhabitant
inhabited
inhabiter
inhalant
inhalation
inhalator
inhale
inhaler
inharmonic
inharmonious
inhaul
inhere
inherence
inherent
inherit
inheritable
inheritance
inheritance tax
inherited
inheritor
inheritrix
inhesion
inhibit
inhibition
inhibitor
inhibitory
inhospitable
inhospitality
inhuman
inhumane
inhumanity
inhumation
inhume
inimical
inimitable
inion
iniquitous
iniquity
init.
initial
initiate
initiation
initiative
initiatory
inject
injection
injector
injudicious
injunction
injure
injured
injurious
injury
injustice
innumerable
innutrition
inobservance
inoculable
inoculate
inoculation
inoculum
inodorous
inoffensive
inofficious
inoperable
inoperative
inopportune
inordinate
inorg.
inorganic
inorganic chemistry
inosculate
inositol
inotropic
inpatient
inpour
input
inquest
inquietude
inquiline
inquire
inquiring
inquiry
inquisition
inquisitionist
inquisitive
inquisitor
inquisitorial
inroad
inrush
ins and outs
ins.
insalivate
insalubrious
insane
insanitary
insanity
insatiable
insatiate
inscribe
inscription
inscrutable
insect
insectarium
insecticide
insectile
insectivore
insectivorous
insecure
insecurity
inseminate
insensate
insensibility
insensible
insensitive
insentient
inseparable
insert
inserted
insertion
insessorial
inset
inseverable
inshore
inshrine
inside
inside job
insider
insidious
insight
insightful
insignia
insignificance
insignificancy
insignificant
insincere
insincerity
insinuate
insinuating
insinuation
insipid
insipience
insist
insistence
insistency
insistent
insnare
insobriety
insociable
insofar as
insolate
insolation
insole
insolence
insolent
insoluble
insolvable
insolvency
insolvent
insomnia
insomniac
insomnolence
insomuch
insouciance
insouciant
insp.
inspan
inspect
inspection
inspector
inspectorate
insphere
inspiration
inspirational
inspiratory
inspire
inspired
inspirit
inspissate
inst.
instability
instable
instal
install
installation
installment
installment plan
instalment
instance
instancy
instant
instantaneity
instantaneous
instanter
instantly
instar
instate
instauration
instead
instep
instigate
instigation
instil
instill
instillation
instinct
instinctive
institute
institution
institutional
institutionalism
institutionalize
institutive
institutor
instr.
instruct
instruction
instructions
instructive
instructor
instrument
instrument flying
instrument landing
instrument panel
instrumental
instrumental conditioning
instrumentalism
instrumentalist
instrumentality
instrumentation
insubordinate
insubstantial
insufferable
insufficiency
insufficient
insufflate
insula
insular
insulate
insulation
insulator
insulin
insulin shock
insult
insulting
insuperable
insupportable
insuppressible
insurable
insurance
insure
insured
insurer
insurgence
insurgency
insurgent
insurmountable
insurrection
insurrectionary
insusceptible
int.
intact
intaglio
intake
intangible
intarsia
integer
integral
integral calculus
integrand
integrant
integrate
integrated
integration
integrator
integrity
integument
integumentary
intellect
intellection
intellectual
intellectualism
intellectuality
intellectualize
intelligence
intelligence bureau
intelligence quotient
intelligence test
intelligencer
intelligent
intelligentsia
intelligibility
intelligible
intemperate
intemperance
intemperate
intend
intendance
intendancy
intendant
intended
intendment
intenerate
intense
intensifier
intensify
intension
intensity
intensive
intensive care
intent
intention
intentional
inter
inter alia
inter alios
inter nos
inter se
inter-
inter.
interact
interaction
interactive
interatomic
interbedded
interblend
interbrain
interbreed
intercalary
intercalate
intercalation
intercede
intercellular
intercept
interception
interceptor
intercession
intercessor
intercessory
interchange
interchangeable
interclavicle
tercollegiate
intercolumniation
intercom
intercommunicate
intercommunication system
intercommunion
interconnect
intercontinental
intercontinental ballistic missile
intercostal
intercourse
intercrop
intercross
intercurrent
intercut
interdenominational
interdental
interdepartmental
interdependent
interdict
interdiction
interdictory
interdigitate
interdisciplinary
interest
interested
interesting
interface
interfaith
interfere
interference
interferometer
interferon
interfertile
interfile
interflow
interfluent
interfluve
interfuse
interglacial
intergrade
interim
interinsurance
interior
interior angle
interior decoration
interior decorator
interior monologue
interj.
interjacent
interject
interjection
interjoin
interknit
interlace
interlaminate
interlanguage
interlard
interlay
interleaf
interleave
interlibrary loan
interline
interlinear
interlineate
interlining
interlink
interlock
interlocking directorate
interlocution
interlocutor
interlocutory
interlocutress
interlocutrix
interlope
interloper
interlude
interlunar
interlunation
intermarriage
intermarry
intermeddle
intermediacy
intermediary
intermediate
intermediate frequency
interment
intermezzo
intermigration
interminable
intermingle
intermission
intermit
intermittent
intermittent fever
intermix
intermixture
intermolecular
intern
internal
internal ear
internal energy
internal evidence
internal medicine
internal rhyme
internal secretion
internal-combustion
internal-combustion engine
internalize
internat.
international
international Morse code
international candle
international law
international nautical mile
international pitch
internationalism
internationalist
internationalize
interne
interneine
internist
internment
internment camp
internode
internship
internunciad
internuncio
interoceptor
interoffice
intersulate
interpellant
interpellate
interpellation
interpenetrate
interphase
interphone
interplanetary
interplay
interplead
interpleader
interpolate
interpolation
interpose
interposition
interpret
interpretation
interpretative
interpretative dance
interpreter
interpretive
interracial
interradial
interregnum
interrelate
interrelated
interrelation
interr
interrog.
interrogate
interrogation
interrogation mark
interrogative
interrogator
interrogatory
interrupt
interrupted
interrupted screw
interrupter
interruption
interscholastic
intersect
intersection
interr
intersex
intersexual
intersidereal
interspace
intersperse
interstadial
interstate
interstellar
interstice
interstitial
interstitial-cell-stimulating hormone
interstratify
intertexture
intertidal
intertwine
intertwist
interrurban
interval
intervale
intervalometer
intervene
intervenient
intervention
interventionist
interview
interviewee
interviewer
intervocalic
interweave
interwork
intestate
intestinal
intestinal fortitude
intestine
intima
intimacy
intimate
intimidate
intimist
intinction
intime
intitule
into
intolerable
intolerance
intolerant
intonate
intonation
intonation pattern
intone
intorsion
intort
intoxicant
intoxicate
intoxicated
intoxicating
intoxication
intoxicative
intr.
intra-
intra-atomic
intracardiac
intracellular
intracranial
intractable
intracutaneous
intradermal
intrados
intramolecular
intramundane
intramural
intramuscular
intrans.
intransigence
intransigence
intransigent
intransitive
intransitive verb
intranuclear
intrastate
intracellular
intraterine
intraterine device
intravasation
intravenous
intreat
intrench
intrepid
intricacy
intricate
intrigant
intrigante
intrigue
intrinsic
intro
intro-
intro.
introduce
introduction
introductory
introgression
introit
introject
introjection
intromission
intromit
introrse
introspect
introspection
introversion
introvert
intrude
invasion
intrusive
intrust
intubate
intuit
intuition
intuitional
intuitionism
intuitive
intuitivism
intumesce
intumescence
intussuscept
intussusception
intwine
inulin
inunction
inundate
inurbane
inure
inurn
inutile
inutility
inv.
invade
invaginate
invagination
invalid
invalidate
invalidism
invalidity
invaluable
invariable
invariant
invasion
invasive
invective
inveigh
inveigle
invent
invention
inventive
inventor
inventory
inveracity
inverse
inverse function
inversely
inversion
invert
invert sugar
invertase
invertebrate
inverted comma
inverted mordent
inverted pleat
inverter
invest
investigate
investigation
investigator
investiture
investment
investment bank
investment company
investment trust
inveteracy
inveterate
invidious
invigilate
invigorate
invincible
inviolable
inviolate
invisible
invisible ink
invitation
invitatory
invite
inviting
invocate
invocation
invoice
invoke
involucel
involucre
involucrum
involuntary
involute
involuted
involution
involutional
involutional melancholia
involve
involved
invt.
inulnerable
irradiation
irrational
irrational number
irrationality
irreclaimable
irreconcilable
irrecoverable
irreducible
irrelevancy
irrelevancy
irrelevant
irrelievable
irreligion
irreligious
irremeable
irremediable
irremissible
irremovable
irrepairable
irreplaceable
irreproachable
irresistible
irresoluble
irresolute
irresolution
irresolvable
irrespective
irrespective of
irrespirable
irresponsible
irresponsive
irretentive
irretrievable
irreverence
irreverent
irreversible
irrevocable
irrigate
irrigation
irriguous
irritability
irritable
irritant
irritate
irritated
irritating
irritation
irritative
irrupt
irruption
irruptive
is
is-
isagogic
isagogics
isallobar
isatin
ischium
isentropic
isinglass
island
island of Reil
island universe
islander
isle
islet
ism
isn’t
iso-
isoagglutination
isoagglutinin
isooamyl acetate
isobar
isobaric
isobath
isocheim
isochor
isochromatic
isochronal
isochronism
isochronize
isochronous
isochroous

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 18693
isoclinal
isoclinal
isocline
isocline
isocracy
isocyanic acid
isocyanide
isodiamic
isodiamic
isodimorphism
isodynamic
isoelectric point
isoelectric
isogamete
isogamy
isogloss
isogonic
isolate
isolated
isolating
isolation
isolationism
isolationist
isolative
isolecithal
isoleucine
isoline
isologous
isomagnetic
isomer
isomeric
isomerism
isomerize
isomerous
isometric
isometrics
isometropia
isometry
isomorph
isomorphism
isoniazid
isonomy
 isoctane
isopiestic
isopleth
isopod
isoprene
isopropanol
isopropyl
isopropyl alcohol
isosceles
ivory palm
ivory tower
ivory-white
ivy
iwis
ixia
ixtle
izard
izzard
j
ja
jab
jabber
jabberwocky
jabiru
jabrandi
jabot
jacal
jacamar
jacaranda
jacinth
jack
jack bean
jack cheese
jack ladder
jack pine
jack plane
jack rabbit
jack rafter
jack staff
jack up
jack-a-dandy
jack-in-office
jack-in-the-box
jack-in-the-pulpit
jack-o’-lantern
jack-of-all-trades
jack-tar
jackal
jackanapes
jackass
jackboot
jackedaw
jackeroo
jacket
jackfish
jackfruit
jackhammer
jetliner
jetport
jetsam
jettison
jetton
jetty
jeu d'esprit
jeu de mots
jeune fille
jeune premier
jew's-harp
jewel
jeweler
jewelfish
jeweller
jewelry
jewfish
jib
jib boom
jib guy
jib-headed
jibber
jibe
jiffy
jig
jigaboo
jigger
jiggered
jiggermast
jiggery-pokery
jigging
jiggle
jigsaw
jigsaw puzzle
jihad
jill
jillion
jilt
jim-dandy
jimjams
jimmy
jimson weed
jimsonweed
jingle
jingle bell
jingo
jingoism
jink
joinery
joint
joint account
joint life insurance
joint resolution
joint stock
joint-stock company
jointed
jointer
jointer plane
jointless
jointly
jointress
jointure
jointworm
joist
joke
joker
jokester
jollification
jollify
jollity
jolly
jolly boat
jolly jumper
jolt
jolty
jongleur
jonquil
jook
jornada
jorum
josh
joss
joss house
joss stick
jostle
jot
jota
jotter
jotting
joule
jounce
jour.
journal
journal box
journaleses
journalism
jus primae noctis
jus sanguinis
jus soli
jussive
just
just intonation
just noticeable difference
juste-milieu
justice
justice of the peace
justiceship
justiciable
justiciar
justiciary
justification
justificatory
justifier
justify
justle
justly
justness
jut
jute
jutty
juvenal
juvenescence
juvenescent
juvenile
juvenile court
juvenile delinquency
juvenile delinquent
juvenilia
juvenility
juxtapose
juxtaposition
k
kHz
kV
kWh
ka
kab
kabob
kabuki
kachina
kadi
kaffiyeh
kaftan
kagu
kaiak
kaif
kail
kailyard
kain
kainite
kaiser
kaiserdom
kaiserism
kaisership
kaka
kakapo
kakemono
kaki
kala-azar
kale
kaleidoscope
kaleidoscopic
kalends
kaleyard
kaleyard school
kali
kalian
kalif
kalmia
kalong
kalpa
kalpak
kalsomine
kamacite
kamala
kame
kami
kamikaze
kampong
kamseen
kana
kangaroo
kangaroo court
kangaroo rat
kanji
kantar
kanzu
kaoliang
kaolin
kaolinite
kaon
kaph
kapok
kappa
kaput
karakul
karat
karate
karma
karmadharaya
kaross
karst
karyo-
karyogamy
karyokinesis
karyolymph
karyolysis
karyoplasm
karyosome
karyotin
karyotype
kasha
kasher
kashmir
kat
kata-
katabasis
katabatic
katabolism
katakana
katharsis
katydid
katzenjammer
kauri
kauri resin
kava
kayak
kayo
kazachok
kazoo
kb
kc
kcal
kea
kebab
keck
ked
keddah
kedge
kettledrummer
kevel
kex
key
key fruit
key money
key punch
key signature
key up
key word
keyboard
keyhole
keyhole saw
keynote
keynote address
keystone
keystroke
keyway
kg
kg.
khaddar
khaki
khalif
khamsin
khan
khanate
kharif
khat
kheda
kedive
kiang
kibble
kibbutz
kibbutznik
kibe
kibitka
kibitz
kibitzer
kiblah
kibosh
kick
kick off
kick pleat
kick turn
kickback
kicker
kickoff
kickshaw
knell
knelt
knew
knickerbockers
knickers
knickknack
knife
knife edge
knife pleat
knife switch
knife-edged
knight
knight bachelor
knight banneret
knight of the road
knight-errant
knight-errantry
knighthead
knighthood
knighthly
knish
knit
knitted
knitting
knitting needle
knitwear
knives
knob
knobby
knobkerrie
knock
knock about
knock back
knock down
knock off
knock up
knock-knee
knockabout
knocker
knockout
knockout drops
knockwurst
knoll
knop
knot
knotgrass
knothole
knotted
kylix
kymograph
kyphosis
l
l.
l.c.
l.h.
l.t.
la
la-di-da
laager
lab
lab.
labarum
labdanum
labefaction
label
labellum
labia
labia majora
labia minora
labial
labialize
labialized
labiate
labile
labio-
labiodental
labionsal
labiovelar
labium
lablab
labor
labor camp
labor of love
labor union
labor-saving
laboratory
labored
laborer
laborious
labour
labour exchange
laboured
labourer
labradorite
labret
labroid
labrum
laburnum
labyrinth
labyrinth fish
labyrinthine
labyrinthodont
lac
lac insect
laccolith
lace
lacerate
lacerated
laceration
lacewing
lacework
laches
lachrymal
lachrymator
lachrymatory
lachrymose
lacing
laciniate
lack
lackadaisical
lackaday
lacker
lackey
lacking
lackluster
laconic
laconism
lacquer
lacrimal
lacrimal duct
lacrimal gland
lacrimator
lacrimatory
lacrosse
lactalbumin
lactam
lactary
lactase
lactate
lactation
lacteal
lacteous
lactescent
lactic
lactic acid
lactiferous
lacto-
lactobacillus
lactoflavin
lactogenic hormone
lactometer
lactone
lactoprotein
lactoscope
lactose
lacuna
lacunar
lacustrine
lacy
lad
ladanum
ladder
ladder back
ladder tournament
ladder truck
laddie
lade
laden
ladies' man
lading
ladino
ladle
lady
lady bountiful
lady fern
lady's maid
lady's man
lady's-slipper
lady's-smock
lady's-thumb
lady's-tresses
lady-in-waiting
lady-killer
ladybird
ladybug
ladyfinger
ladylike
ladylove
ladyship
laev-
laevogyrate
laevorotation
laevorotatory
lag
lag screw
lagan
lagena
lager
laggard
lagging
lagniappe
lagomorph
lagoon
lah-di-dah
laic
laicize
laid
laid paper
lain
lair
laird
laissez faire
laissez-faire
laity
lake
lake dweller
lake dwelling
lake herring
lake trout
laker
lakh
laky
lalapalooza
lallation
lallygag
lam
lam.
lama
lamasery
lamb
lamb's wool
lamb's-quarters
lambaste
lambda
lambdacism
lambdoid
lambency
lambent
lambert
lambkin
lamblike
lambrequin
lambskin
lame
lame duck
lamebrain
lamed
lamella
lamellar
lamellate
lamelli-
lamellibranch
lamellicorn
lamelliform
lamellirostral
lament
lamentable
lamentation
lamented
lamia
lamina
laminar
laminar flow
laminate
laminated
lamination
laminitis
laminous
lammergeier
lamp
lamp shell
lampas
lampblack
lamper eel
lampion
lamplighter
lampoon
lamppost
lamprey
lamprophyre
lampyrid
lanai
lanate
lance
lance corporal
lance rest
lance sergeant
lancelet
lanceolate
lancer
lancers
lancet
lancet arch
lancet window
lanceted
lancewood
lanciform
lancinate
land
land agent
land bank
land crab
land grant
land measure
land mine
land of Nod
land of milk and honey
land office
land rail
land reform
land tax
land-grabber
land-office business
land-poor
landau
landauilet
landed
landfall
landgrave
landgraviate
landgravine
landholder
landing
landing craft
landing field
landing gear
landing net
landing stage
landing strip
landlady
landlocked
landloper
landlord
landlordism
landlubber
landman
landmark
landmass
landowner
lands
landscape
landscape architecture
landscape gardening
landscape architect
landsape
landsknecht
landslide
landsman
landwai[er
landward
lane
lang
lang.
langlauf
langouste
langrage
langsyne
language
 langue
 langue d'oc
 languet
 languid
 languish
languishing
languishment
languor
languorous
langur
laniard
laniary
laniferous
lank
lanky
lanner
lanneret
lanolin
lanose
lansquenet
lantana
lantern
lantern fish
lantern fly
lantern jaw
lantern slide
lanthanide
lanthanum
lanthorn
lanugo
lanyard
lap
lap dissolve
lap dog
lap joint
lap robe
lap up
laparotomy
lapboard
lapel
lapful
lapidary
lapidate
lapidify
lapillus
lapin
lapis lazuli
lappet
lapse
lapse rate
lapstrake
lapsus
lapsus calami
lapsus linguae
lapwing
lar
larboard
larcener
larcenous
larceny
larch
lard
lard oil
lardaceous
larder
larder beetle
lardon
lardy
lares and penates
large
large calorie
large intestine
large-hearted
large-minded
lat
lat.
latch
latchet
latchkey
latchstring
late
latecomer
lated
lateen
lateen sail
lately
latency
latency period
latent
latent content
latent heat
latent period
later
lateral
lateral pass
laterality
laterite
lateritious
latest
latex
lath
lathe
lather
lathery
lathi
lathing
lathy
latices
laticiferous
latifundium
latish
latissimus dorsi
latitude
latitudinarian
latria
latrine
latten
latter
latter-day
latterly
lattermost
lattice
lattice girder
latticed
latticework
latus rectum
laud
laudable
laudanum
laudation
laudatory
lauds
laugh
laugh away
laugh off
laughable
laughing
laughing gas
laughing hyena
laughing jackass
laughingstock
laughter
launce
launch
launch pad
launcher
launching pad
launder
launderette
laundress
laundry
laundryman
laundrywoman
lauraceous
laureate
laurel
lauric acid
laurustinus
lauryl alcohol
lava
lava-lava
lavabo
lavage
lavaliere
lavation
lavatory
lave
lavender
laver
laverock
lavish
lavolta
law
law agent
law court
law merchant
law of averages
law of nations
law of parsimony
law of thermodynamics
law-abiding
lawbreaker
lawful
lawgiver
lawless
lawmaker
lawman
lawn
lawn mower
lawn party
lawn sleeves
lawn tennis
lawrencium
lawsuit
lawyer
lax
laxation
laxative
laxity
lay
lay analyst
lay aside
lay away
lay brother
lay down
lay figure
lay in
lay into
lay off
lay on
lay out
lay over
lay reader
lay sister
lay to
lay up
lay-by
layer
layer cake
layette
laying on of hands
layman
layoff
layout
laywoman
lazar
lazaretto
laze
lazuli
lazulite
lazarite
lazy
lazy Susan
lazy daisy stitch
lazy tongs
lazybones
lb.
lb. ap.
lb. av.
lb. t.
lea
lea.
leach
lead
lead acetate
lead arsenate
lead colic
lead glass
lead line
lead monoxide
lead off
lead on
lead pencil
lead poisoning
lead screw
lead tetraethyl
lead time
lead-in
lead-pipe cinch
leaden
leader
leadership
leading
leading article
leading edge
leading lady
leading light
leading man
leading question
leading strings
leadsman
leadwort
leaf
leaf bud
leaf fat
leaf insect
leaf miner
leaf mold
leaf monkey
leaf spot
leaf spring
leafage
leaflet
leafstalk
leafy
league
leaguer
leak
leakage
leaky
leal
lean
lean-to
leaning
leant
leap
leap year
leaper
leapfrog
leapt
learn
learned
learning
learnt
lease
leaseback
leasehold
leaseholder
leash
least
least common denominator
least common multiple
least squares
leastways
leastwise
leather
leatherback
leatherjacket
leatherleaf
leathern
leatherneck
leatherwood
leatherworker
leathery
leave
leave behind
leave of absence
leave off
leave out
leave-taking
leaved
leaven
leavening
leaves
leaving
leavings
lebkuchen
lecher
lecherous
lechery
lecithin
lecithinase
lect.
lectern
lection
lectionary
lector
lecture
lecturer
lectureship
lecythus
led
lederhosen
ledge
ledger
ledger board
ledger line
lee
lee shore
lee tide
leeboard
leech
legged
legging
leggy
leighorn
legibility
legible
legion
legionary
legionary ant
legionnaire
legislate
legislation
legislative
legislative assembly
legislator
legislatorial
legislature
legist
legit
legitimacy
legitimate
legitimatize
legitimist
legitimize
legman
legroom
legume
legumin
leguminous
legwork
lehr
lei
leishmania
leishmaniasis
leister
leisure
leisured
leisurely
leitmotif
leitmotiv
lek
leman
lemma
lemming
lemniscate
lemniscus
lemon
lemon balm
lepidosiren
lepidote
leporid
leporide
leporine
leprechaun
leprosarium
leprose
leprosy
leprous
lepto-
lepton
leptophyllous
leptorrhine
leptosome
leptospirosis
lesbian
lesbianism
lese majesty
lesion
less
lessee
lessen
lesser
lesser panda
lesson
lessor
lest
let
let down
let in
let into
let off
let on
let out
let up
let's
letch
letdown
lethal
lethargic
lethargy
letter
letter box
letter carrier
letter drop
letter of advice
letter of credit
letter of introduction
letter of marque
letter-perfect
lettered
letterhead
lettering
letterpress
letters
letters patent
letters testamentary
lettuce
letup
leu
leucine
leucite
leuco base
leuco-
leucocratic
leucocyte
leucocytosis
leucoderma
leucoma
leucomaine
leucopenia
leucoplast
leucopoiesis
leucotomy
leukemia
leuko-
leukocyte
leukoderma
leukorrhea
lev
levant
levanter
levator
levee
level
level crossing
level line
level-headed
level-off
levelheaded
leveller
lever
leverage
leveret
leviable
leviathan
levigate
levin
levirate
levitate
levitation
levity
levo-
levorotation
levorotatory
levulose
levy
levy en masse
lewda
lewis
lewisite
lex
lex loci
lex non scripta
lex scripta
lex talionis
lex.
lexeme
lexical
lexical meaning
lexicog.
lexicographer
lexicography
lexicologist
lexicology
lexicon
lexicostatistics
lexigraphy
lexis
ley
lg.
lgth.
li
liabilities
liability
liability insurance
liable
liaison
liana
liar
liard
lib
lib.
libation
libeccio
libel
libelant
libellee
libeler
libelous
liber
liberal
liberal arts
liberal education
liberalism
liberality
liberalize
liberate
libertarian
liberticide
libertinage
libertine
libertinism
liberty
liberty cap
libidinous
libido
libra
librarian
librarianship
library
library binding
library edition
library paste
library science
librate
libration
libratory
librettist
libretto
libriform
lice
licence
license
license plate
licensee
licentiate
licentious
lich gate
lichee
lichen
lichenin
lichenology
lich
licit
lick
lickerish
lickety-split
licking
lickspittle
licorice
lictor
lid
lidless
lido
lie
lie detector
lie down
lie in
lie to
lie up
lie-abed
lied
lief
liege
liegeman
lien
lienentry
lierne
lieu
lieutenancy
lieutenant
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
life
life belt
life buoy
life cycle
life expectancy
life history
life instinct
life jacket
life mask
life net
life preserver
life raft
light verse
light-fingered
light-footed
light-headed
light-hearted
light-year
lighten
lightening
lighter
lighterage
lighterman
lightface
lighthearted
lighthouse
lighting
lightish
lightless
lightly
lightness
lightning
lightning arrester
lightning bug
lightning conductor
lightning rod
lightproof
lights
lights out
lightship
lightsome
lightweight
lignaloes
ligneous
ligni-
ligniform
lignify
lignin
lignite
lignocellulose
lignum vitae
ligroin
ligula
ligulate
ligule
ligure
likable
like
like-minded
likelihood
likely
liken
likeness
likewise
liking
likker
lilac
liliaceous
lilt
lily
lily iron
lily of the valley
lily pad
lily-livered
lily-trotter
lily-white
lima bean
limacine
limb
limbate
limber
limber hole
limber up
limbic
limbo
limbus
lime
lime burner
limeade
limekiln
limelight
limen
limerick
limes
limestone
limewater
limey
limicoline
limicolous
liminal
limit
limit point
limit switch
limitary
limitation
limitative
limited
limited company
linear
linear accelerator
linear algebra
linear measure
linear perspective
linear programming
linearity
lineate
lineation
linebacker
linebreeding
lineman
linen
linen closet
linen paper
lineolate
liner
lines
linesman
lineup
ling
ling.
lingam
lingcod
linger
lingerie
lingo
lingonberry
lingua
lingua franca
lingual
linguiform
linguini
linguist
linguistic
linguistic atlas
linguistic form
linguistic geography
linguistician
linguistics
lingulate
liniment
linin
lining
link
link motion
linkage
linkboy
linked
linking verb
linkman
links
linkwork
lin
linnet
linocut
linoleic acid
linoleum
linsang
linseed
linseed oil
linsey-woolsey
linstock
lint
lintel
linter
lintwhite
lion
lion's share
lioness
lionfish
lionhearted
lionize
lip
lip reading
lip service
lip-
lip-read
lipase
lipid
lipo-
lipo-
lipo-
lipocica
lipography
lipoid
lipolysis
lipoma
lipophilic
lipoprotein
lipstick
liq.
liquate
liquefacient
liquefied petroleum gas
liquefy
liquesce
liquescent
liqueur
liquid
liquid air
liquid crystal
liquid fire
liquid glass
liquid measure
liquid oxygen
liquid petrolatum
liquidambar
liquidate
liquidation
liquidator
liquidity
liquidity preference
liquidize
liquor
liquor up
liquorice
liquorish
lira
liriodendron
liripipe
lis pendens
lisle
lisp
lissome
lissotrichous
list
list price
listed
listel
listen
listen in
listening post
lister
listing
listless
listlessness
lists
lit
lit up
lit.
litany
litchi
litchi nut
liter
literacy
literae humaniores
literal
literal-minded
literalism
literality
literally
literary
literary agent
literate
literati
literatim
literator
literature
lith.
litharge
lithe
lithesome
lithia
lithia water
lithiasis
lithic
lithium
litho
litho-
litho.
lithograph
lithographer
lithography
lithoid
lithol.
lithology
lithomarge
lithometeor
lithophyte
lithopone
lithosphere
lithotomy
lithotrity
litigable
litigant
litigate
litigation
litigious
litmus
litmus paper
litotes
litre
litter
litterbug
little
little finger
little hours
little man
little office
little owl
little people
little slam
little theater
littlest
littoral
liturgical
liturgics
liturgist
liturgy
lituus
litz wire
livable
live
live load
live oak
live steam
live together
live wire
livelihood
livelong
lively
liven
liver
liver extract
liver fluke
liver sausage
livered
liverish
liverwort
liverwurst
livery
livery stable
liveryman
lives
livestock
livid
living
living death
living picture
living room
living wage
lobectomy
lobelia
lobeline
loblolly
loblolly boy
lobo
lobotomy
lobescouse
lobster
lobster Newburg
lobster pot
lobster thermidor
lobster trick
lobule
lobworm
loc. cit.
local
local color
local government
local option
local oscillator
local time
locale
localism
locality
localize
locally
locate
location
locative
loch
lochia
loci
lock
lock out
lock step
lock stitch
lock up
lockage
locker
locker plant
locket
lockjaw
lockout
locksmit
lockup
loco
loco citato
loggia
logging
logia
logic
logical
logical positivism
logician
logicize
logion
logistic
logistician
logistics
logjam
logo
logo-
logogram
logographic
logography
logograph
logomachy
logorrhea
logos
logotype
logroll
logrolling
logway
logwood
logy
loin
loincloth
loiter
loll
lollapalooza
lollipop
lolly
lollygag
loment
lone
lone hand
lone wolf
lonely
loner
lonesome
long
long account
long arm
long cross
long distance
long dozen
long face
long haul
long horse
long house
long hundredweight
long johns
long jump
long measure
long moss
long pig
long primer
long shot
long suit
long tom
long ton
long vacation
long wave
long-distance
long-drawn
long-drawn-out
long-eared owl
long-faced
long-headed
long-horned beetle
long-legged
long-limbed
long-lived
long-playing
long-range
long-sighted
long-standing
long-sufferance
long-suffering
long-term
long-term bond
long-winded
longan
longanimity
longboat
longbow
longcloth
longe
longeron
longevity
longevous
longhair
longhand
longicorn
longing
longish
longitude
longitudinal
longitudinal wave
longleaf pine
longs
longship
longshore
longshoreman
longsome
longspur
longueur
longways
longwise
loo
looby
look
look after
look back
look forward to
look on
look over
look through
look up
look-in
look-see
look-through
looker
looker-on
looking glass
lookout
loom
looming
loon
looney
loony
loony bin
loop
loop knot
looper
loophole
loopy
loose
loose end
loose smut
loose-jointed
loose-leaf
loose-limbed
loose-tongued
loosen
loosestrife
loosing
loot
lop
lop-eared
lope
lophobranch
lophophore
loppy
lopsided
loq.
loquacious
loquacity
loquat
loquitur
loran
lord
lord-in-waiting
lording
lording
lordly
lordosis
lords-and-ladies
lordship
lore
lorgnette
lorgnon
lorica
loricate
lorikeet
lorimer
loris
lorn
lorry
lory
lose
lose out
losel
loser
losing
loss
loss leader
loss ratio
lost
lost cause
lost tribes
lost-wax process
lot
lota
loth
lotic
lotion
lots
lottery
lotto
lotus
lotus-eater
loud
loud pedal
loud-hailer
louden
loudish
loudmouth
loudmouthed
loudspeaker
lough
louis
louis d'or
lounge
lounge lizard
lounge suit
lounging
loup
loup-garou
loupe
louping ill
lour
louse
lousewort
lousy
lout
loutish
louver
louvere
lovage
lovable
love
love affair
love apple
love child
love feast
love game
love knot
love letter
love match
love nest
love potion
love seat
love set
love-in-a-mist
love-in-idleness
love-lies-bleeding
lovebird
lovegrass
loveless
lovelock
lovelorn
lovely
lovemaking
lover
loverly
lovesick
lovesome
loving
loving cup
low
low brass
low camp
low comedy
low explosive
low frequency
low pitch
low profile
low relief
low tide
low water
low-down
low-grade
low-key
low-minded
low-necked
low-pitched
low-pressure
low-spirited
low-tension
low-water mark
lowborn
lowboy
lowbred
lowbrow
lower
lower case
lower chamber
lower class
lower criticism
lower deck
lower house
lower world
lower-case
lowerclassman
lowering
lowermost
lowest common denominator
lowest common multiple
lowland
lowlife
lowly
lox
loxodrome
loxodromic
loxodromics
loyal
loyalist
loyalty
lozenge
lozengey
luau
lubber
lubber line
lubber's hole
lubberly
lubra
lubric
lubricant
lubricate
lubricator
lubricious
lubricity
lubricious
lucarne
luce
lucent
lucerne
lucid
lucifer
luciferase
luciferin
luciferous
luck
luckily
luckless
lucky
lucrative
lucre
lucubrate
lucubration
luculent
ludicrous
lues
lueitic
luff
luff tackle
luffa
lug
lug wrench
luge
luggage
lugger
lugsail
lugubrious
lugworm
lukewarm
lull
lullaby
lulu
lumbago
lumbar
lumber
lumber room
lumbering
lumberjack
lumberman
lumberyard
lumbricalis
lumbricoid
lumen
lumen-hour
luminance
luminary
luminesce
luminescence
luminescent
luminiferous
luminosity
luminous
luminous energy
luminous flux
luminous intensity
lumisterol
luminox
lump
lumpen
lumper
lumpfish
lumpish
lumpy
lumpy jaw
luna moth
lunacy
lunar
lunar caustic
lunar eclipse
lunar module
lunar month
lunar year
lunarian
lunate
lunatic
lunatic asylum
lunatic fringe
lunation
lunch
luncheon
luncheon meat
luncheonette
lunchroom
lune
lunette
lung
lungan
lunge
lungfish
lungi
lungworm
lungwort
lunisolar
lunitidal
lunitidal interval
lunkhead
lunula
lunular
lunulate
lupine
lupulin
lupus
lupus erythematosus
lupus vulgaris
lur
lurch
lurcher
lurdan
lure
lund
lurk
luscious
lush
lushy
lust
luster
lusterware
lustful
lusthood
lustral
lustrate
lustre
lusteware
lustring
lustrous
lustrum
lusty
lusus naturae
lutanist
lute
luteal
luteinizing hormone
lutenist
luteolin
luteous
lustrstring
lutetium
luther
luting
lutist
lux
luxate
luxe
luxuriance
luxuriant
luxuriate
luxurious
luxury
lv.
Ix
lycanthrope
lycanthropy
lyceum
lych gate
lychnis
lycopodium
lyddite
lye
lying
lying-in
lyme grass
lymph
lymph cell
lymph gland
lymphadenitis
lymphangial
lymphangitis
lymphatic
lympho-
lymphoblast
lymphocyte
lymphocytosis
lymphoid
lymphoma
lymphosarcoma
lyncean
lynch
lynch law
lynching
lynx
lynx-eyed
lyonnaise
lyophilic
lyophilize
lyophobic
lyrate
lyre
lyrebird
lyric
lyricism
lyricist
lyrism
lyrist
lys-
lyse
lysergic acid
lysergic acid diethylamide
lysimeter
lysin
lysine
lysis
lyso-
lysozyme
lyssa
lythraceous
lytic
lytta
m
m.
m.m.f.
m.o.
m.p.
m.s.l.
ma
ma'am
mac
macabre
macaco
macadam
macadamia
macaque
macaroni
macaronic
macaroon
macaw
maccaboy
mace
macedoine
macerate
mach.
machete
machicolate
machicolation
machinate
machination
machine
machine bolt
machine gun
machine language
machine pistol
machine screw
machine shop
machine tool
machine-gun
machinery
machinist
machismo
machree
machzor
macintosh
mackerel
mackerel sky
mackinaw
mackintosh
mackle
macle
macro-
macrobiotic
macrobiotics
macroclimate
macrocosm
macrocytic anemia
macrogamete
macrography
macromolecule
macron
macronucleus
macrophage
macrophysics
macropterous
macroscopic
macropore
macruran
macula
maculate
maculation
macule
mad
mad staggers
madam
madame
madcap
madden
maddening
madder
madder lake
madding
made
made-up
mademoiselle
madhouse
madly
madman
madness
madras
madrepora
madrigal
madrigalist
maduro
madwort
maelstrom
maenad
maestoso
maestro
maestro di cappella
maffick
mag
mag.
magazine
magdalen
mage
magenta
maggot
maggotty
magi
magic
magic carpet
magic lantern
magical
magically
magician
magisterial
magistry
magistracy
magistral
magistrate
magma
magna cum laude
magnanimity
magnanimous
magnate
magnesia
magnesite
magnesium
magnesium oxide
magnet
magnetic
magnetic axis
magnetic bearing
magnetic circuit
magnetic compass
magnetic course
magnetic declination
magnetic dip
magnetic equator
magnetic field
magnetic flux
magnetic flux density
magnetic force
magnetic induction
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic pickup
magnetic pole
magnetic potential
magnetic quantum number
magnetic storm
magnetic tape
magnetic variation
magnetics
magnetism
magnetite
magnetize
magneto
magneto-
magnetochemistry
magnetoelectricity
magnetograph
magnetohydrodynamics
magnetometer
magnetomotive
magnetomotive force
magneton
magnetostriction
magnetron
magnific
magnification
magnificence
magnificent
magnifico
magnify
magnifying glass
magniloquent
magnitude
magnolia
magnoliaceous
magnum
magnum opus
magnus hitch
magpie
magus
maharaja
maharajah
maharanee
maharani
mahatma
mahlstick
mahogany
mahout
maid
maid of honor
maid-in-waiting
maidan
maiden
maiden name
maiden over
maiden voyage
maidenhair
maidenhead
maidenhood
maidenly
maidservant
maieutic
maigre
maihem
mail
mail car
mail order
mailable
mailbag
mailbox
mailed
mailer
mailing list
maillot
mailman
main
main body
main course
main deck
main line
making
makings
mako
mal de mer
mal du pays
mal-
mala fide
mala fides
malachite
malaco-
malacology
malacostracan
maladapted
maladjusted
maladjustment
maladminister
maladroit
malady
malaguena
malaise
malamute
malapert
malapropism
malapropos
malar
malaria
malarkey
malcontent
male
maleate
maledict
malediction
malefaction
malefactor
malefic
maleficence
maleficent
maleic acid
malemute
malevolent
malf easance
malformation
malfunction
malic acid
malice
malice aforethought
malicious
malign
malignancy
malignant
malignity
malines
malingers
malison
mall
mallard
malleable
malleable iron
mallee
mallemuck
malleolus
mallet
malleus
mallow
malm
malmsey
malnourished
malnutrition
malocclusion
malodorous
malonic acid
malonylurea
malpighiaceous
malposition
malpractice
malt
malt extract
malt liquor
maltase
malted milk
maltha
maltose
maltreat
malvaceous
malvasia
malversation
malvoisie
mam
mama
mama’s boy
mamba
mambo
mamelon
mamey
mamma
mammal
mammalian
mammalogy
mammary
mammary gland
mammet
mammiferous
mamilla
mammillary
mamillate
mammon
mammoth
mammy
man
man Friday
man about town
man in the street
man of God
man of straw
man-at-arms
man-eater
man-eating
man-hour
man-made
man-of-war
man-sized
man-to-man
mana
manacle
manage
manageable
managed currency
management
manager
managerial
managing
managing editor
manakin
manana
manas
manatee
manchineel
manciple
mandarin
mandate
mandatory
mandible
mandibular
mandola
mandolin
mandorla
mandragora
mandrake
mandrel
mandrill
manducate
mane
manes
maneuver
manful
manganate
manganese
manganese bronze
manganese steel
manganite
manganous
mange
manger
mangle
mango
mangonel
mangosteen
mangrove
manhandle
manhole
manhood
manhood suffrage
manhunt
mania
maniac
maniaca
cal
manic
manic-depressive
manicotti
manicure
manicurist
manifest
manifestation
manifestative
manifesto
manifold
manikin
manilla
manille
maniple
manipular
manipulate
manipulator
mankind
manlike
manly
manna
manned
mannequin
manner
mannered
mannerism
mannerless
mannerly
manners
mannikin
mannah
mannose
manoeuvre
manometer
manor
manor house
manpower
manque
manrope
mansard
manse
manservant
mansion
manslaughter
manslayer
manstopper
mansuetude
manta
manteau
mantel
mantelet
mantelletta
mantellone
mantelpiece
manteltree
mantic
mantilla
mantis
mantis shrimp
mantissa
mantle
mantle rock
mantling
marcescent
march
march-past
marcher
marchesa
marchese
marching orders
marchioness
marchland
marchpane
marconigraph
mare
mare liberum
mare nostrum
mare's-nest
mare's-tail
maremma
marg.
margaric acid
margarine
margarite
margay
marge
margent
margin
marginal
marginalia
marginate
margrave
margravine
marguerite
mariage de convenance
marigold
marigraph
marijuana
marimba
marina
marinade
marinara
marinate
marine
marine engineer
marine insurance
mariner
mariner's compass
marionette
marish
marital
maritime
marjoram
mark
markdown
marked
marker
market
market garden
market gardening
market order
market price
market research
market town
market value
marketable
marketing
marketplace
markhor
marking
markka
marksman
markswoman
markup
marl
marlin
marline
marlinespike
marlite
marmalade
marmalade tree
marmite
marmoreal
marmoset
marmot
marocain
maroon
marplot
marque
marquee
marquess
marquetry
marquis
marquisate
marquise
marquisette
marram grass
marriage
marriage of convenience
marriage portion
marriageable
married
marron
marrow
marrow squash
marrowbone
marrowfat
marry
marry off
marseilles
marsh
marsh elder
marsh fever
marsh gas
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marshal
marshland
marshmallow
marshy
marsipobranch
marsupial
marsupium
mart
martellato
marten
martensite
martial
martial law
martin
martinet
martingale
martingale boom
martini
martlet
martyr
martyrdom
martyrize
martyrology
martyry
marvel
marvel-of-Peru
marvellous
marvelous
marzipan
masc.
mascara
mascle
mascon
mascot
masculine
masculine caesura
masculine rhyme
maser
mash
mashie
masjid
mask
maskanonge
masked
masked ball
masker
masking tape
masochism
mason
mason bee
masonic
masonry
masque
masquer
masquerade
mass
mass media
mass meeting
mass noun
mass number
mass spectrograph
mass spectrometer
mass spectroscope
mass-produce
massacre
massage
massasauga
masseter
masseur
masseuse
massicot
massif
massive
massotherapy
massy
mast
matronymic
matt
matte
matted
matter
matter of course
matter of fact
matter-of-fact
matting
mattins
mattock
mattoid
mattress
maturate
maturation
mature
maturity
matutinal
matzo
maudlin
maugre
maul
maulstick
maun
maund
maunder
maundy
mausoleum
mauve
maverick
mavis
maw
mawkin
mawkish
max.
maxi
maxilla
maxillary
maxilliped
maxim
maximal
maximin
maximize
maximum
maxiskirt
maxwell
may
may tree
maya
mayapple
maybe
mayest
mayflower
mayfly
mayhap
mayhem
mayn't
mayonnaise
mayor
mayoralty
maypole
mayst
mayweed
mazard
maze
mazer
mazuma
mazurka
mazy
mazzard
mb
me
mea culpa
mead
meadow
meadow fescue
meadow grass
meadow lily
meadow mouse
meadow mushroom
meadow rue
meadow saffron
meadowlark
meadowsweet
meager
meagre
meal
mealie
mealtime
mealworm
mealy
mealymouthed
mean
mean distance
mean free path
mean solar day
mean solar time
mean sun
mean time
meander
meandrous
meanie
meaning
meaningful
meaningless
meanly
means
means test
meant
meantime
meanwhile
meany
measles
measly
measurable
measure
measure off
measure out
measure up
measured
measureless
measurement
measurement ton
measures
measuring cup
measuring worm
meat
meatball
meathead
meatiness
meatman
meatus
meaty
mech.
mechanic
mechanic's lien
mechanical
mechanical advantage
mechanical drawing
mechanical engineer
mechanical engineering
mechanician
mechanics
mechanism
mechanist
mechanistic
mechanize
mechanotherapy
med.
medal
medal play
medalist
medallion
medallist
meddle
meddlesome
media
mediacy
mediaeval
medial
median
median strip
mediant
mediate
mediation
mediative
mediatize
mediator
mediatorial
mediatory
medic
medicable
medical
medical examiner
medical jurisprudence
medicament
medicate
medication
medicinal
medicine
medicine ball
medicine man
medick
medico
medico-
middle
medieval
medievalism
medievalist
mediocre
mediocrity
meditate
meditation
medium
medium bomber
medium frequency
medium of exchange
medium shot
medius
medlar
medley
medulla
medulla oblongata
medullary
medullary sheath
medullated
medusa
meed
meek
meerkat
meerschaum
meet
meeting
meetinghouse
meetly
mega-
megacycle
megadeath
megagamete
megalith
megalo-
megalocardia
megalomania
megalopolis
megaphone
megaron
megasporangium
megaspore
megasporophyll
megass
megathere
megaton
megavolt
megawatt
megillah
megilp
megohm
megrims
meiny
meiosis
mel
melamed
melamine
melamine resin
melancholia
melancholic
melancholy
melanic
melanin
melanism
melanite
melano-
melanochroi
melanoid
melanoma
melanosis
melanous
melaphyre
melatonin
meld
melee
melic
melilot
melinite
meliorate
melioration
meliorism
melisma
melliferous
mellifluent
mellifluous
mellophone
mellow
melodeon
melodia
melodic
melodic minor scale
melodics
melodion
melodious
melodist
melodize
melodrama
melodramatic
melodramatize
melody
meloid
melon
melt
meltage
melting point
melting pot
melton
meltwater
mem
mem.
member
membership
membrane
membrane bone
membranophone
membranous
memento
memento mori
memo
memoir
memoirs
memorabilia
memorable
memorandum
memorial
memorial park
memorialist
memorialize
memoried
memorize
memory
memory bank
memory span
memory trace
men
men's room
menace
menadione
menagerie
menarche
mend
mendacious
mendacity
mendelevium
mender
mendicant
mendicity
mending
mene
menfolk
menhaden
menhir
menial
meninges
meningitis
meniscus
menispermaceous
menology
menopause
menorah
menorrhagia
mensal
menses
menstrual
menstruate
menstruation
menstruum
mensurable
mensural
mensuration
menswear
mental
mental age
mental block
mental deficiency
mental healing
mental hospital
mental reservation
mental retardation
mentalism
mentalist
mentality
mentally
menthol
mentholated
menticide
mention
mentor
menu
meow
meperidine
mephitic
mephitis
meprobamate
merbromin
mercantile
mercantile agency
mercantile paper
mercantilism
mercaptide
mercaptopurine
mercenary
mercer
mercerize
merchandise
merchandising
merchant
merchant bank
merchant marine
merchant navy
merchant ship
merchantable
merchantman
merciful
merciless
mercurate
mercurial
mercurialism
mercurialize
mercuric
mercuric chloride
mercuric oxide
mercurious
mercurous chloride
mercury
mercury chloride
mercury fulminate
mercury-vapor lamp
mercy
mercy killing
mercy seat
mere
merely
merengue
meretricious
merganser
merge
merger
meridian
meridian circle
meridional
meringue
merino
meristem
meristic
merit
merit system
merited
meritocracy
meritorious
merits
merle
merlin
merlon
mermaid
mermaid's purse
merman
mero-
meroblastic
merocrine
merozoite
merriment
merry
merry dancers
merry-andrew
merry-go-round
merrymaker
merrymaking
merrythought
mes-
mesa
mesarch
mescal
mescaline
mesdames
mesdemoiselles
meseems
mesencephalon
mesenchyme
mesentery
mesh
mesh knot
meshuga
meshwork
mesial
mesic
mesitylene
mesmerism
mesmerize
mesnalty
mesne
mesne lord
meso-
mesoblast
mesocarp
mesocratic
mesoderm
mesoglea
mesognathous
mesomorph
mesomorphic
meson
mesonephros
mesopause
mesosphere
mesothelium
mesothorax
mesothorium
mesotron
mesquite
mess
mess hall
mess jacket
mess kit
message
messaline
messenger
messenger RNA
messieurs
messily
messmate
messroom
messuage
messy
mestee
mestizo
met
met.
meta-
metabolic
metabolism
metabolite
metabolize
metacarpal
metacarpus
metacenter
metachromatism
metagalaxy
metage
metagensis
metagnathous
metal
metal.
metalanguage
metalepsis
metalinguistic
metalinguistics
metallic
metallic soap
metalliferous
metalline
metallist
metallize
metallo-
metallography
metalloid
metallophone
metallurgy
metalware
metalwork
metalworking
metamathematics
metamer
metameric
metamerism
metamorphic
metamorphism
metamorphose
metamorphosis
metanephros
metaph.
metaphase
metaphor
metaphosphate
metaphrase
metaphrast
metaphysic
metaphysical
metaphysics
metaplasia
metaplasm
metaprotein
metapsychology
metasomatism
metastasis
metastasize
metatarsal
metatarsus
metatherian
metathesis
metathesize
metaxylem
mete
metempirics
metempsychosis
metencephalon
meteor
meteor shower
meteor swarm
meteoric
meteoric shower
meteorite
meteoritics
meteorograph
meteoroid
meteorol.
meteorology
meter
methacrylate
methacrylate resin
methacrylic acid
methadone
methaemoglobin
methane
methane series
methanol
methylnal
methenamine
methinks
methionine
method
methodical
methodize
methodology
methoxy DDT
methoxychlor
methyl
methyl alcohol
methyl bromide
methyl chloride
methyl ethyl ketone
methyl isobutyl ketone
methyl orange
methylnal
methyamine
methyalted spirits
methylene
methylene blue
methylnaphthalene
metic
meticulous
metonym
metonymy
metope
metopic
metralgia
metre
metric
metric hundredweight
metric system
metric ton
metrical
metrics
metrify
metrist
metritis
metro
metro-
metrology
metronome
metronymic
metropolis
metropolitan
metorrhagia
mettle
mettlesome
mew
mewl
mews
mezcaline
mezereon
mezereum
mezuzah
mezza voce
mezzanine
mezzo
mezzo-relievo
mezzo-rilievo
mezzo-soprano
mezzotint
mf
mfd.
mg
mho
mi
mi.
miaow
miasma
mica
mice
micelle
micra
micro-
microampere
microanalysis
microbalance
microbarograph
microbe
microbicide
microbiology
microchemistry
microcircuit
microclimate
microclimatology
microcline
micrococcus
microcopy
microcosm
microcosmic salt
microcrystalline
microcurie
microcyte
microdont
microdot
microeconomics
microelectronics
microelement
microfarad
microfiche
microfilm
microgamete
microgram
micrography
microgroove
microhenry
microlith
micrometeorite
micrometeorology
micrometer
micrometer caliper
micrometer screw
micrometry
micromho
micromillimeter
microminiaturization
micron
micronucleus
micronutrient
microorganism
micropaleontology
microparasite
micropathology
microphone
microphotograph
microphysics
microphyte
microprint
micropyle
microreader
microscope
microscopic
microscopy
microsecond
microseism
microsome
microsporangium
microspore
microsporophyll
microstructure
microsurgery
microtome
microtone
microvolt
microwatt
microwave
microwave spectroscopy
micturition
mid
mid-
mid-Victorian
mid.
midbrain
midcourse
midday
midden
middle
middle C
middle age
middle class
middle ear
middle finger
middle game
middle ground
middle passage
middle school
middle term
middle watch
middle-aged
middle-class
middle-of-the-road
middle-of-the-roader
middlebreaker
middlebrow
middlebuster
middleman
middlemost
middleweight
middling
middlings
middy
middy blouse
midge
midget
midgut
midi
midinette
midiron
midland
midmost
midnight
midnight blue
midnight sun
midpoint
midrash
midrib
midriff
midsection
midship
midshipman
midshipmite
midships
midst
midstream
midsummer
midterm
midtown
midway
midweek
midwife
midwife toad
midwifery
midwinter
midyear
mien
miff
miffy
mig
might
mightily
mighty
mignon
mignonette
migraine
migrant
migrate
migration
migratory
mihrab
mikado
mike
mikvah
mil
mil.
milady
milch
milch cow
mild
mild steel
milden
mildew
mile
mileage
milepost
miler
miles gloriosus
milestone
miliaria
miliary
military tuberculosis
milieu
milit.
militant
militarism
militarist
militarize
military
military academy
military government
military law
military march
military pace
military police
military school
military science
militate
militia
militiaman
milium
milk
milk bar
milk chocolate
milk fever
milk glass
milk leg
milk of magnesia
milk punch
milk run
milk shake
milk sickness
milk snake
milk sugar
milk thistle
milk tooth
milk train
milk vetch
milk-and-water
milk-livered
milk-white
milker
milkfish
milking stool
milkmaid
milkman
milksop
milkweed
milkwort
milky
mill
mill wheel
millboard
milldam
milled
millenarian
millenarianism
millenary
millennial
millennium
millepede
millepore
miller
millerite
millesimal
millet
milli-
milliard
milliary
millibar
milliem
milligram
millihenry
milliliter
millimeter
millimicron
milline
milliner
millinery
milling
milling machine
million
millionaire
millipede
millisecond
millpond
millrace
millrun
millstone
millstream
millwork
millwright
milo
milord
milquetoast
mibreis
milt
milter
mim
mime
mimeograph
mimesis
mimetic
mimic
mimicry
mimosa
mimosaceous
minim
minima
minimal
minimize
minimum
minimum wage
minimus
mining
mining geology
minion
miniskirt
minister
minister plenipotentiary
minister resident
ministerial
ministrant
ministration
ministry
minimum
miniver
minivet
mink
minnesinger
minnow
minor
minor axis
minor key
minor mode
minor orders
minor planet
minor premise
minor scale
minor term
minor triad
minority
minority group
minority leader
minister
minstrel
minstrel show
minstrelsy
mint
mint julep
mint sauce
mintage
minuend
minuet
minus
minus sign
minuscule
minute
minute gun
minute hand
minute steak
minutely
minutes
minutia
minutiae
minx
minyan
miosis
mir
mirabile dictu
miracidium
miracle
miracle play
miraculous
mirador
mirage
mire
mirepoix
mirk
mirror
mirror image
mirth
mirthful
mirthless
miry
mirza
mis-
misadventure
misadvise
misalliance
misanthrope
misanthropy
misapply
misapprehend
misapprehension
misappropriate
misbecome
misbegotten
misbehave
misbehavior
misbelief
misbeliever
misc.
miscalculate
miscall
miscarriage
miscal
miscarry
miscification
miscellaneous
miscellaneous
miscarry
misch metal
mischance
mischief
mischief-maker
mischievous
miscible
misconceive
misconception
misconduct
misconstruction
misconstrue
miscount
miscreance
miscreant
miscreated
miscue
misdate
misdeal
misdeed
misdeem
misdemean
misdemeanant
misdemeanor
misdirect
misdirection
misdo
misdoin
misdo	
misdoubt
mise
miser
miserable
misericord
miserly
misery
mismeet
missetimate
misfeasance
misfeasor
misfile
misfire
misfit
misfortune
misgive
misgiving
misgovern
misguidance
misguide
misguided
mishandle
mishap
mishear
mishmash
misinform
misinterpret
misjoinder
misjudge
mislay
mislead
misleading
mise
mismanage
mismatch
mismate
misname
misnomer
miso-
misogamy
misogynist
misogyny
misology
mispickel
misplace
misplaced modifier
misplay
mispleading
misprint
misprision
misprize
mispronounce
misquotation
misquote
misread
misreckon
misreport
misrepresent
misrule
miss
miss out
missal
missal stand
missel thrush
missend
misshape
misshapen
missile
missilery
missing
missing link
mission
missionary
missionary apostolic
missioner
missis
missive
misspeak
misspell
misspend
misstate
misstep
missus
missy
mist
mistakable
mistake
mistaken
miteach
mister
mistime
mistle thrush
mistletoe
mistrook
mistral
mistranslate
mistreat
mistress
mistrail
mistrtrial
mistrust
mistrustful
misty
misunderstand
misunderstanding
misunderstood
misusage
misuse
misvalue
mite
miter
miter box
miterwort
mither
mithermace
mithridate
mithridatism
miticide
mitigate
mitis
mitochondrion
mitosis
mitrailleur
mitral insufficiency
mitral stenosis
mitral valve
mitre
mitrewort
mitt
mitten
mittimus
mitzvah
mix
mix-up
mixed
mixed bag
mixed blessing
mixed bud
mixed farming
mixed grill
mixed marriage
mixed number
mixed-up
mixer
mixologist
mixolydian mode
mixture
mizzen
mizzenmast
mizzle
mk.
mkt.
ml
ml.
mm
mm.
mneme
mnemonic
mnemonics
modesty
modicum
modification
modifier
modify
modillion
modiolus
modish
modiste
modular
modulate
modulation
modulator
module
modulus
modulus of elasticity
modulus of rigidity
modus operandi
modus vivendi
mofette
mog
mogul
mohair
mohur
moidore
moiety
moil
moire
moist
moisten
moisture
moke
mol
mol.
mol. wt.
mola
molal
molality
molar
molarity
molasses
mold
moldboard
molder
molding
moldy
mole
mole cricket
monitor
monitorial
monitory
monk
monk's cloth
monkery
monkey
monkey bread
monkey business
monkey flower
monkey jacket
monkey nut
monkey puzzle
monkey rail
monkey suit
monkey wrench
monkeypot
monkfish
monkhood
monkish
monkshood
mono
mono-
monoacid
monoatomic
monobasic
monocarpic
monochasium
monochloride
monochord
monochromat
monochromatic
monochromatism
monochrome
monocle
monoclinous
monocoque
monocot
monocotyledon
monocular
monoculture
monocycle
monocyclic
monocyte
monodic
monodrama
monody
monofilament
monogamist
monogamous
monogamy
monogenesis
monogenetic
monogenic
monogram
monograph
monogyny
monohydric
monohydroxy
monoicous
monolatry
monolayer
monolingual
monolith
monolithic
monologue
monomania
monomer
monomeric
monometallic
monometallism
monomial
monomolecular
monomorphic
mononuclear
mononucleosis
monopetalous
monophagous
monophonic
monophony
monophthong
monophyletic
monoplane
monoplegia
monoploid
monopode
monopolist
monopolize
monopoly
monopterous
monorail
monosaccharide
monosepalous
monosodium glutamate
monosome
monospermous
moralize
morass
moratorium
moray
morbid
morbidezza
morbidity
morbific
morbilli
moreau
mordacious
mordancy
mordant
mordent
more
moreen
morel
morello
moreover
mores
morganatic
morganite
morgen
morgue
moribund
morion
morn
morning
morning coat
morning dress
morning glory
morning loan
morning sickness
morning star
morning watch
morning-glory
mornings
morocco
moron
morose
morph
morpheme
morphia
morphine
morphinism
morpho-
morphogenesis
morphology
morphophoneme
morphophonemics
morphosis
morris
morris dance
morrow
morse
morsel
mort
mortal
mortal sin
mortality
mortality table
mortar
mortarboard
mortgage
mortgage bond
mortgagor
mortician
mortification
mortify
mortise
mortise lock
mortmain
mortuary
morula
mosaic
mosaic gold
mosasaur
moschatel
mosey
mosque
mosquito
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
moss
moss pink
moss rose
moss-grown
mossback
mossbunker
mosstrooper
mossy
most
mostly
motorbus
motorcade
motorcar
motorcycle
motoring
motorist
motorize
motorman
motorway
motte
mottle
mottled
motto
motu proprio
moue
mouflon
moujik
mould
moulder
moulding
mouldy
moulin
moult
mound
mount
mountain
mountain ash
mountain cat
mountain chain
mountain goat
mountain laurel
mountain lion
mountain range
mountain sheep
mountain sickness
mountaineer
mountaineering
mountainous
mountainside
mountaintop
mountebank
mounting
mourn
mourner
mourners' bench
mournful
mournning
mournning band
mourning cloak
mourning dove
mouse
mouse deer
mouse-ear
mousebird
mouser
mousetail
mousetrap
mousey
moussaka
mousse
mousseline
mousseline de laine
mousseline de soie
moustache
mousy
mouth
mouth organ
mouth-watering
mouthful
mouthpart
mouthpiece
mouthwash
mouthy
mouton
movable
movable-do system
move
move in
move out
movement
mover
movie
movie camera
movie house
moving
moving picture
moving staircase
mow
mow down
mown
moxa
moxie
mozzarella
mozzetta
mtg.
u
mu meson
much
muchness
mucilage
mucilaginous
mucin
muck
mucker
muckrake
muckraker
muckworm
mucky
muco-
mucoid
mucoprotein
mucor
mucosa
mucous
mucous membrane
mucoviscidosis
mucro
mucronate
mucus
mud
mud dauber
mud flat
mud hen
mud puppy
mud turtle
mudcat
muddle
muddle through
muddlehead
muddleheaded
muddler
muddy
mudfish
mudguard
mudlark
mudpack
mudra
mudskipper
mudslinger
mudslinging
mudstone
muenster
muezzin
muff
multiform
multilateral
multilingual
multimillionaire
multinational
multinuclear
multipara
multiparous
multipartite
multiped
multiphase
multiple
multiple alleles
multiple factors
multiple personality
multiple sclerosis
multiple voting
multiple-choice
multiplex
multiplicand
multiplicate
multiplication
multiplication sign
multiplicity
multiplier
multiply
multipurpose
multiracial
multistage
multitude
multitudinous
multivalent
multiversity
multivibrator
multivocal
multum in parvo
multure
mum
mumble
mumblety-peg
mumbo jumbo
mummer
mummery
mummify
mummy
mump
mumps
mun.
munch
mundane
municipal
municipality
municipalize
munificent
muniment
muniments
munition
munitions
muntin
muntjac
muon
murage
mural
murder
murderous
mure
murex
muriate
muriatic acid
muricate
murine
murk
murky
murmur
murmuration
murmurous
murphy
murrain
murre
murrelet
murrey
murrhine
murrhine glass
murther
mus.
musaceous
muscadel
muscadine
muscae volitantes
muscarine
muscat
muscatel
muscid
muscle
muscle sense
muscle-bound
muscovado
muscular
muscular dystrophy
musculature
muse
museology
musette
musette bag
museum
museum piece
mush
mushroom
mushroom anchor
mushroom cloud
mushy
music
music box
music drama
music hall
music of the spheres
music paper
music roll
music stand
musical
musical box
musical chairs
musical comedy
musicale
musician
musicianship
musicology
musing
musjid
musk
musk deer
musk ox
musk turtle
muskeg
muskellunge
musket
musketeer
musketry
muskmelon
muskrat
musky
muslin
musquash
muss
mussel
must
mustache
mustachio
mustang
mustard
mustard gas
mustard oil
mustard plaster
mustee
musteline
muster
muster roll
musty
mut
mutable
mutant
mutate
mutation
mutation stop
mutatis mutandis
mute
mute swan
muticous
mutilate
mutineer
mutinous
mutiny
mutism
mutt
mutter
mutton
mutton chop
muttonchops
muttonhead
mutual
mutual fund
mutual inductance
mutual induction
mutual insurance
mutual savings bank
mutualism
mutualize
mutule
muu-muu
muumuu
muzhik
muzz
muzzle
muzzle-loader
muzzy
my
my-
myalgia
myall
myasthenia
myasthenia gravis
myceto-
mycetozoan
mycobacterium
mycol.
mycology
mycorrhiza
mycosis
mydriasis
mydriatic
myel-
myelencephalon
myelin sheath
myelitis
myeloid
myiasis
mylohyoid
mylonite
myna
myo-
myocardial infarction
myocardiograph
myocarditis
myocardium
myogenic
myoglobin
myology
myopia
myopic
myosin
myosotis
myotome
myotonia
myriad
myriagram
myriameter
myriapod
myrica
myrmeco-
myrmecology
myrmecophagous
myrmidon
myrobalan
myrrh
myrtaceous
myrtle
myself
mystagogue
mysterious
mystery
mystery play
mystic
mystical
mysticism
mystify
mystique
myth
myth.
mythical
mythicize
mythify
mythological
mythologize
mythology
mythomania
mythopoeia
mythopoetic
mythos
myxedema
myxoma
myxomatosis
myxomycete
n
n’importe
n.
n.d.
n.p.
n.s.
nab
nabob
nacelle
nacre
nacred
nacreous
nacreous cloud
nadir
nae
naevus
nag
nagana
nagging
nagual
naiad
naif
nail
nail down
nail file
nail polish
nail set
nail-biting
nailbrush
nailhead
nainsook
naissant
naive
naivete
naked
naker
namby-pamby
name
name day
name-calling
name-dropper
name-dropping
nameless
namely
nameplate
namesake
nance
nancy
nankeen
nanny
nanny goat
nano-
nanoid
nanosecond
naos
nap
napalm
nape
napery
naphtha
naphthalene
naphthol
naphthyl
napiform
napkin
napoleon
nappe
napper
nappy
narcine
narcissism
narcissus
narco-
narcoanalysis
narcolepsy
narcoma
narcose
narcosis
narcosynthesis
narcotic
narcotism
narcotize
nard
nardoo
nares
narghile
narial
narrate
narration
narrative
narrow
narrow gauge
narrow-minded
narrors
narthex
narwhal
nasal
nasal index
nasalize
nascent
naseberry
nasion
nasopharynx
nasturtium
nasty
natal
natality
natant
natation
natator
natatorial
natatorium
naturalize
naturally
nature
nature study
nature worship
naturism
naturopathy
naught
naughty
naumachia
nauplius
nausea
nauseate
nauseating
nauseous
naut.
nautch
nautical
nautical mile
nautilus
nav.
naval
navar
nave
navel
navel orange
navelwort
navicert
navicular
navig.
navigable
navigate
navigation
navigator
navvy
navy
navy bean
navy blue
navy plug
navy yard
nawab
nay
naya paisa
ne plus ultra
ne'er
ne'er-do-well
neap
neap tide
necrosis
necrotomy
nectar
nectareous
nectarine
nectarous
nee
need
needful
neediness
needle
needle valve
needlecraft
needlefish
needleful
needlepoint
needless
needlewoman
needlework
needs
needy
nefarious
negate
negation
negative
negative feedback
negativism
negatron
neglect
neglectful
negligees
negligence
negligent
negligible
negotiable
negotiant
negotiate
negotiation
negus
neigh
neighbor
neighborhood
neighboring
neighborly
neither
nekton
nelly
nelson
nem. con.
nemathelminth
nematic
nemato-
nematode
nemertean
nemesis
nemine dissentiente
neolarsphenamine
neoclassic
neoclassicism
neocolonialism
neodymium
neomimpressionism
neolith
neologism
neologize
neology
neomycin
neon
neon lamp
neonatal
neonate
neophyte
neoplasm
neoplasticism
neoplasny
neoprene
neoteny
neoteric
neoterism
neoterize
neotype
nepenthe
neper
nepheline
nephelinite
nephelometer
nephew
nephogram
nepograph
nephology
nephoscope
nephralgia
nephrectomy
nephridium
nephritic
nephritis
nephro-
nephrolith
nephron
nephrosis
nephrotomy
nepotism
neptunium
neral
neritic
neroli oil
nerval
nerve
nerve gas
nerve impulse
nerve-racking
nerveless
nerves
nervine
nervous
nervous breakdown
nervous prostration
nervous system
nervy
nescience
ness
nest
nest egg
nestle
nestling
net
net national product
net profit
net ton
nether
nether world
nethermost
netsuke
netting
netting knot
nettle
nettlesome
netty
network
neume
neural
neuralgia
neurasthenia
neurasthenic
neurilemma
neuritis
neuro-
neuroblast
neurocoele
neurogenic
neuroglia
neurogram
neurologist
neurology
neuroma
neuromuscular
neuron
neuropath
neuropathy
neuropathology
neuropsychiatry
neurosis
neurosurgery
neurotic
neuroticism
neurotomy
neurovascular
neut.
neuter
neutral
neutral spirits
neutralism
neutrality
neutralization
neutralize
neutretto
neutroin
neutron
neutron star
neutrophil
never
never-never
nevermore
nevertheless
nevus
new
new broom
new criticism
new look
new moon
new wave
night watchman
nighthead
nightclub
nightdress
nightfall
nightgown
nighthawk
nightie
nightingale
nightjar
nightlong
nightly
nightmare
nightrider
nightshade
nightshirt
nightspot
nightstick
nighttime
nightwalker
nightwear
nigrescent
nigrify
nigritude
nigrosine
nihil
nihil obstat
nihilism
nihilation
nigritisde
nil
nil desperandum
nilgai
nim
nimble
nimbostratus
nimbus
nimiedad
nincompoop
nine
nine days' wonder
ninebark
ninefold
ninepins
nineteen
nineteenth
nineteenth hole
ninetieth
nitrogenous
nitroglycerin
nitrohydrochloric acid
nitrometer
nitroparaffin
nitrosamine
nitroso
nitrosyl
nitrous
nitrous acid
nitrous bacteria
nitrous oxide
nitty
nitty-gritty
nitwit
nival
niveous
nix
no
no-account
no-good
no-man's-land
no-par
no-show
nob
nobby
nobelium
nobility
noble
noble savage
noble-minded
nobleman
noblesse
noblesse oblige
noblewoman
nobody
nock
noctambulism
noctambulous
nocti-
noctiluca
noctilucent
noctule
nocturn
nocturnal
nocturne
nocuous
nod
nod off
nodal
noddle
noddy
node
nodical
nodose
nodular
node
nodus
noesis
noetic
nog
noggin
nogging
noil
noise
noiseless
noisemaker
noisette
noisome
noisy
nol-pros
nol. pros.
nolens volens
nolle prosequi
nom de guerre
nom de plume
nom.
noma
nomad
nomadic
nomadize
nomarch
nomarchy
nombles
nombril
nomen
nomenclator
nomenclature
nominal
nominal value
nominal wages
nominalism
nominant
nominant
nominative
nominee
nonism
nomograph
nomography
nomology
nomothetic
non compos mentis
non pros.
non prosequitur
non seq.
non sequitur
non troppo
non-Euclidean geometry
non-U
non-pros
nonage
nonagenarian
nonaggression
nonagon
nonalcoholic
nonaligned
nonalignment
nonanoic acid
nonappearance
nonary
nonattendance
nonbeliever
nonbelligerent
nonce
nonce word
nonchalance
nonchalant
noncombatant
noncommissioned officer
noncommittal
noncompliance
nonconcurrence
noncondensing engine
nonconductor
nonconformance
nonconformist
nonconformity
noncontributory
noncooperation
nondescript
nondirective therapy
nondisjunction
none
noneffective
nonego
nonentity
nones
nonessential
nonesuch
nonet
nonetheless
nonexistence
nonfeasance
nonferrous
nonfiction
nonflammable
nonfulfillment
nonillion
noninterference
nonintervention
nonjoinder
nonjuror
nonlegal
nonlinearity
nonmaterial
nonmetal
nonmetallic
nonmoral
nonobedience
nonobjective
nonobservance
nonoccurrence
nonpareil
nonparous
nonparticipating
nonparticipation
nonpartisan
nonpayment
nonperformance
nonperishable
nonplus
nonproductive
nonprofessional
nonprofit
nonrecognition
nonrepresentational
nonresident
nonresistance
nonresistant
nonrestrictive
nonreturnable
nonrigid
nonscheduled
nonsectarian
nonsense
nonsense verse
nonsmoker
nonstandard
nonstop
nonstriated
nonsuch
nonsuit
nonunion
nonunion shop
nonunionism
nonviolence
noodle
noodlehead
nook
noon
noonday
noontide
noontime
noose
nope
nor
nor'easter
nor'wester
nor-
noria
norite
norland
norm
normal
normal curve
normal distribution
normal pitch
normal school
normalcy
normalize
normally
normative
north
north by east
north-northeast
north-northwest
northbound
northeast
northeast by east
northeast by north
northeaster
northeasterly
northeastward
northeastwards
norther
northerly
northern
northern lights
northernmost
northing
northward
northwards
northwest
northwest by north
northwest by west
northwester
northwesterly
northwestward
northwestwards
nose
nose cone
nose dive
nose out
nose ring
nose-dive
noseband
nosebleed
nosegay
nosepiece
nosewheel
nosey
nosh
nosing
nosography
nosology
nostalgia
nostoc
nostology
nostomania
nostril
nostrum
nosy
not
not-
nota bene
notability
notable
notarial
notarize
notary
notary public
note
notate
notation
notebook
notecase
noted
notepaper
noteworthy
nothing
nothingness
notice
noticeable
notification
notify
notion
notional
notions
noto-
notochord
notorious
noturn
notum
notwithstanding
nougat
nought
noun
noun noun
noun phrase
nourish
nourishing
nourishment
nouen
nouveau riche
nouvelle vague
nova
novaculite
novation
nouvelle
nouvelle
notable
novelistic
dovelize
dovella
dovalty
dovena
dovercul
novice
novitate
novobiocin
now
nowadays
noway
nowhere
nowhither
nowise
nowt
noxious
noyade
nozzle
nr.
nt. wt.
nth
nu
nuance
nub
nubbin
nubble
nubbly
nubile
nubilous
nuclellus
nuclear
nuclear energy
nuclear family
nuclear fission
nuclear fuel
nuclear fusion
nuclear isomer
nuclear magnetic resonance
nuclear physics
nuclear power
nuclear reaction
nuclear reactor
nuclear warhead
nuclease
nucleate
nuclei
nucleic acid
nucleo-
nucleolar
nucleolated
nucleolus
nucleon
nucleonics
nucleoplasm
nucleoprotein
nucleoside
nucleotidase
nucleotide
nucleus
nuclide
nude
nudge
nudi-
nudibranch
nudicaul
nudism
nudity
nudnik
nudum pactum
nugatory
nuggar
nugget
nuisance
nuisance tax
nuke
null
null and void
nullification
nullifidian
nullify
nullipore
nullity
nullius filius
numb
numbat
number
number one
number theory
numberless
numbers pool
numbfish
numbing
numbles
numbskull
numen
oaken
oakum
oar
oared
oarfish
oarlock
oarsman
oasis
oast
oat
oat grass
oatcake
oaten
oath
oatmeal
ob-
ob.
obb.
obligato
obcordate
obdt.
obduce
obdurate
obeah
obedience
obedient
obeisance
obelisk
obelize
obese
obey
obfuscate
obi
obit
obiter dictum
obituary
obj.
object
object ball
object glass
object lesson
objectify
objection
objectionable
objective
objectivism
objectivity
objet d'art
objurgate
oblact
oblate
oblation
obligate
obligation
obligato
obligatory
oblige
obligee
obliging
obligor
oblique
oblique angle
oblique motion
oblique sailing
obliquely
obliquity
obliterate
obliteration
oblivion
oblivious
oblong
obloquy
obmutescence
obnoxious
obnubilate
oboe
oboe d'amore
oboe da caccia
obolus
obovate
obvoid
obreption
obs.
obscene
obscenity
obscurant
obscurantism
obscurcation
obscure
obscurity
obsecrate
obsequent
obsequies
obsequious
observable
observance
occasionalism
occasionally
occident
occidental
occipital
occipital bone
occipital lobe
occiput
occlude
occluded front
occlusion
occlusive
occult
occultation
occulting light
occultism
occupancy
occupant
occupation
occupational
occupational disease
occupational therapy
occupier
occupy
occur
occurrence
ocean
ocean marine insurance
ocean-going
oceanic
oceanog.
oceanography
ocelot
och
ocher
ochlocracy
ochlophobia
ochone
ochre
ochrea
ocotillo
ocrea
ocreate
oct.
octa-
octachord
octad
octagon
octagonal  
octahedral  
octahedrite  
octahedron  
octal  
octamerous  
octameter  
octan  
octane  
octane number  
octangle  
octangular  
octant  
octarchy  
octastyle  
octavalent  
octave  
octavo  
octennial  
ocet  
ocetillion  
octo-  
octodecillion  
octodecimo  
octofoil  
octogenarian  
octonary  
octopod  
octopus  
octoroon  
octosyllabic  
octosyllable  
octroi  
octuple  
ocular  
oclist  
oculo-  
oculomotor  
oculomotor nerve  
oculus  
od  
odalisque  
odd  
odd lot  
oddball  
oddity  
oddment  
odds
offend
offense
offenseless
offensive
offer
offering
offertory
offhand
office
office block
office boy
office hours
office seeker
office-block ballot
officeholder
officer
officer of the day
official
officialdom
officialese
officialism
officiant
officiary
officiate
officinal
officious
offing
offish
offprint
offset
offshoot
offshore
offsider
offspring
offstage
oft
often
oftentimes
ogdoad
ogee
ogee arch
oghaim
ogive
ogle
ogre
oh
ohmage
ohmic resistance
ohmmeter
oho
oidium
oil
oil beetle
oil cake
oil of turpentine
oil of vitriol
oil paint
oil painting
oil shale
oil slick
oilbird
oilcan
oilcloth
oilcup
oiler
oilskin
oilstone
oily
oink
ointment
oka
okapi
okay
oke
okra
old
old age
old boy
old chap
old country
old fogy
old girl
old gold
old hand
old hat
old lady
old maid
old man
old master
old rose
old school
old school tie
old soldier
old squaw
old stager
old style
old wives' tale
old woman
old-fashioned
old-line
old-time
old-timer
old-world
olden
older
oldest
oldfangled
oldie
oldster
oldwife
oleaceous
oleaginous
oleander
oleaster
oleate
olecranon
oleic
oleic acid
olein
oleo
oleo oil
oleo-
oleograph
oleomargarine
oleoresin
olericulture
oleum
olfaction
olfactory
olfactory bulb
olibanum
olid
oligarch
oligarchy
oligochaete
oligoclase
oligopoly
oligopsony
oligosaccharide
oliguria
olio
olivaceous
olive
olive branch
olive brown
olive drab
olive oil
olive-green
olivenite
olivine
olla
olla podrida
ology
oloroso
omasum
ombre
ombudsman
omega
omelet
omen
omentum
omer
ominous
omission
omit
ommatidium
ommatophore
omni-
omnibus
omnidirectional
omnifarious
omnipotence
omnipotent
omnipresent
omnirange
omniscience
omniscient
omnium-gatherum
omnivore
omnivorous
omphagia
omphalos
on
on dit
on stream
onager
onagraceous
onanism
once
once-over
oncoming
onyx
oocyte
oodles
oof
oogenesis
oogonium
oolite
oology
oomph
oophorectomy
oops
oosperm
oosphere
oospore
ootid
ooze
ooze leather
oozy
op art
op.
opacity
opah
opal
opal glass
opalesce
opalescent
opaline
opaque
opaque projector
ope
open
open chain
open circuit
open door
open hand knot
open letter
open market
open order
open policy
open primary
open secret
open sesame
open shop
open sight
open up
open-air
open-and-shut
open-eyed
open-faced
open-handed
open-heart surgery
open-hearted
open-hearth
open-hearth furnace
open-hearth process
open-minded
open-mouthed
opener
openhanded
opening
openwork
opera
opera buffa
opera cloak
opera glasses
opera hat
opera house
opera seria
operable
operand
operant
operant conditioning
operate
operatic
operating table
operation
operational
operations research
operative
operator
operculum
operetta
operon
operose
ophicleide
ophidian
ophiolatry
ophioloogy
ophite
ophthalmia
ophthalmic
ophthalmitis
ophthalmologist
ophthalmology
ophthalmoscope
ophthalmoscopy
optical rotation
optician
optics
optimal
optime
optimism
optimist
optimistic
optimize
optimum
option
optional
optometer
optometrist
optometry
opulence
opulent
opuntia
opus
opuscula
oquassa
or
ora
ora pro nobis
oracle
oracular
oral
orang
orange
orange blossom
orange pekoe
orangeade
orangery
orangewood
orangutan
orangy
orate
oration
orator
oratorical
oratorio
oratory
orb
orbicular
orbiculate
orbit
orbital
orbital velocity
orcein
orch.
orchard
orchard grass
orchardist
orchardman
orchestra
orchestral
orchestrator
orchestrion
orchid
orchidaceous
orchidectomy
orchitis
orcinol
ord.
ordain
ordeal
order
order about
order arms
order of the day
orderly
orderly officer
ordinal
ordinal number
ordinance
ordinand
ordinarily
ordinary
ordinary life insurance
ordinary ray
ordinary seaman
ordinate
ordination
ordn.
ordnance
ordonnance
ordure
ore
ore dressing
oread
orectic
oregano
org.
organ
organ of Corti
organ pipe
organdy
organelle
organic
organic chemistry
organic disease
organicism
organism
organist
organization
organization man
organize
organized labor
organized militia
organizer
organo-
organogenesis
organography
organology
organometallic
organon
organotherapy
organza
organzine
orgasm
orgeat
orgiastic
orgulous
orgy
oriel
orient
oriental
orientate
orientation
orifice
oriflamme
orig.
origami
origan
origin
original
original sin
originality
originally
originate
originative
orinasal
oriole
orison
orle
orlop
ormolu
ornament
ornamental
ornamentation
ornamented
ornate
ornery
ornis
ornithic
ornithine
ornithischian
ornithol.
ornithology
ornithomancy
ornithopod
ornithopter
ornithorhynchus
ornithosis
oro-
orobanchaceous
orogeny
orography
orometer
orotund
orphan
orphanage
orphrey
orpiment
orpine
orrery
orris
orthicon
orthaboric acid
orthocephalic
orthochromatic
orthoclase
orthodontia
orthodontics
orthodontist
orthodox
orthodoxy
orthopepy
orthogenesis
orthogenetic
orthogenic
orthognathous
orthogonal
orthographize
orthography
orthohydrogen
orthopedic
orthopedics
orthopedist
orthophosphoric acid
orthopsychiatry
orthopter
orthopteran
orthopterous
orthoptic
orthorhombic
orthoscope
orthostichy
orthotropic
orthotropous
ortolan
orts
oryx
os
oscillate
oscillating universe theory
oscillation
oscillator
oscillatory
oscillogram
oscillograph
oscilloscope
osine
oscitancy
oscitant
oscular
osculate
osculation
osculum
osier
osmic
osmious
osmium
osmiometer
osmose
osmosis
osmotic pressure
osmunda
osprey
ossein
osseous
ossicle
ossiferous
ossification
ossified
ossifrage
ossify
ossuary
osteal
osteitis
ostensible
ostensive
ostensorium
ostensory
ostentation
oste-o-
ostearthritis
osteoblast
osteoclasia
osteoclast
osteogenesis
osteoid
osteology
osteoma
osteomalacia
osteomyelitis
osteopath
osteopathy
osteophyte
osteoplastic
osteoporosis
osteotome
osteotomy
ostiary
ostiole
ostium
ostler
ostmark
ostosis
ostracism
ostracize
ostracod
ostracoderm
ostracon
ostrich
ostrich fern
ot-
otalgia
other
other world
other-directed
otherness
otherwise
otherworld
otherworldly
otic
otiose
otitis
oto-
otocyst
otolaryngology
otolith
otology
otoplasty
otorhinolaryngology
otoscope
ottar
ottava
ottava rima
otter
otto
ottoman
ouabain
oubliette
ouch
oud
ought
oui
ounce
ouphe
our
ours
ourself
ourselves
ousel
oust
ouster
out
out of bounds
out of date
out of doors
out of pocket
out of print
out sister
out-
outfoot
outfox
outgeneral
outgo
outgoing
outgoings
outgrow
outgrowth
outguard
outguess
outhaul
outhouse
outing
outland
outlander
outlandish
outlast
outlaw
outlaw strike
outlawry
outlay
outleap
outlet
outlier
outline
outlive
outlook
outlying
outman
outmaneuver
outmarch
outmoded
outmost
outnumber
outpatient
outplay
outpoint
outport
outpost
outpour
outpouring
output
outrage
outrageous
outrange
outrank
outrach
outride
outrider
outrigger
outright
outroar
outrun
outrush
outsail
outsell
outsert
outset
outshine
outshoot
outshout
outside
outside loop
outsider
outsize
outsskirts
outsmart
outsoar
outsole
outspan
outspeak
outspoken
outspread
outstand
outstanding
outstare
outstation
outstay
outstretch
outstretched
outstrip
outtalk
outthink
outturn
outvote
outward
outward-bound
outwardly
outwards
outwash
outwear
outweigh
outwit
outwork
outworn
ouzel
ouzo
ova
oval
ovals of Cassini
ovarian
ovariectomy
ovariotomy
ovaritis
ovary
ovate
ovation
oven
ovenbird
ovenware
over
over-the-counter
over-under
overabound
overabundance
overact
overactive
overage
overall
overalls
overanxious
overarch
overarm
overawe
overbalance
overbear
overbearing
overbid
overbite
overblouse
overblown
overboard
overbold
overbuild
overburden
overburdensome
overcapitalize
overcareful
overcast
overcasting
overcautious
overcharge
overcheck
overcloud
overcoat
overcome
overcompensation
overcritical
overcrop
overcurious
overdevelop
overdo
overdone
overdose
overdraft
overdraw
overdress
overdrive
overdue
overdyed
overeager
overeat
overelaborate
overestimate
overexcite
overexert
overexpose
overfeed
overfill
overflight
overflow
overfly
overglaze
overgrow
overgrowth
overhand
overhand knot
overhang
overhappy
overhasty
overhaul
overhead
overhear
overheat
overindulge
overissue
overjoy
overkill
overland
overlap
overlarge
overlay
overleap
overliberal
overlie
overline
overlive
overload
overlong
overlook
overlooker
overlord
overly
overlying
overman
overmantel
overmaster
overmatch
overmatter
overmeasure
overmodest
overmuch
overnice
overnight
overpass
overpay
overplay
overplus
overpower
overpowering
overpraise
overprint
overprize
overrate
overreach
overreact
overrefinement
override
overriding
overripe
overrule
overrun
overscore
overscrupulous
overseas
oversee
overseer
oversell
overset
oversew
overuse
overvalue
overview
overweary
overweening
overweigh
overweight
overwhelm
overwhelming
overwind
overwinter
overword
overwork
overwrite
overwrought
overzealous
ovi-
oviduct
oviform
ovine
oviparous
oviposit
ovipositor
ovoid
ovolo
ovotestis
ovovitellin
ovoviviparous
ovular
ovule
ovum
ow
owe
owing
owl
owlet
owlish
own
owner
ownership
ox
ox-eyed
oxa-
oxalate
oxalic acid
oxalis
oxazine
oxblood
pain
pained
painful
painkiller
painless
pains
painstaking
paint
paintbox
paintbrush
painted woman
painter
painter's colic
painterly
painting
painty
pair
pair production
pair royal
pair-oar
pairs
paisa
paisano
paisley
pajamas
pal
palace
palace revolution
paladin
palaeo-
palaeobotany
palaeography
palaeontography
palaeontol.
palaeontology
palaeozoology
palaestra
palais
palanquin
palatable
palatal
palatalized
palate
palatial
palatinate
palatine
palaver
palazzo
pale
paleethnology
paleface
paleo-
paleobiology
paleobotany
paleoclimatology
paleoecology
paleogeography
paleography
paleolith
paleontography
paleontology
paleopsychology
paleozoology
palestra
paletot
palette
palette knife
palfrey
palikar
palimpsest
palindrome
paling
palingenes
palinode
palisade
palish
pall
pall-mall
palladic
palladium
palladous
pallbearer
pallet
pallet knife
pallette
palliasse
palliate
palliative
pallid
pallium
pallor
palm
palm oil
palm sugar
palm wine
palmaceous
palmar
calmary
calmate
calmation
calmer
calmette
calmetto
calmistry
calmitate
calmitin
calmy
calo lo worm
palomino
calp
calpable
calpate
calpebrate
calpitant
calpitate
calpitation
calsgrave
palstave
calsy
calter
paltry
paludal
paly
pam.
pampa
pampas
pampas grass
pamper
pampero
pamphlet
pamphleteer
pan
pan gravy
pan-
panacea
panache
panada
panatella
pancake
pancake ice
panchromatic
pancratium
pancreas
pancreatic fibrosis
pancreatic juice
pancreatin
pancreatotomy
panda
pandanus
pandect
pandemic
pandemonium
pander
pandiculation
pandit
pandora
pandour
pandowdy
pandurate
pandybat
pane
panegyric
panegyrize
panel
panel heating
panel house
panel saw
panel truck
panelboard
paneling
panelist
panettone
panfish
pang
panga
pangenesis
pangolin
panhandle
panic
panic-stricken
panicle
paniculate
panier
panjandrum
panlogism
panne
pannier
pannikin
panocha
panoply
panoptic
panorama
panoramic sight
panpipe
panpsychist
pansophy
pansy
pant
pantalets
pantaloons
pantechnicon
pantelegraph
pantheism
pantheon
panther
pantie
panties
pantile
pantisocracy
panto
pantograph
pantomime
pantomimist
pantothenic acid
pantry
pants
pantsuit
panty girdle
pantywaist
panzer
pap
papa
papacy
papain
papal
papal cross
papaveraceous
papaverine
papaw
papaya
paper
paper chase
paper doll
paper knife
paper money
paper mulberry
paper tiger
paperback
paperboard
paperboy
paperhanger
paperweight
papery
papeterie
papilionaceous
papilla
papillary
papilloma
papillon
papillose
papillote
papism
papist
papistry
papoose
pappose
pappus
pappy
paprika
papule
papyraceous
papyrology
papyrus
par
par excellence
par exemple
par value
par-
par.
para
para-
para-aminobenzoic acid
parabasis
parable
parabola
parabolic
parabolize
paraboloid
paracasein
parachronism
parachute
parade
paradiddle
paradigm
paradise
paradise fish
paradisiacal
parados
paradox
paradrop
paraesthesia
paraffin
paraffin wax
paraffinic
paraformaldehyde
paraglider
paragon
paragraph
paragrapher
paragraphia
paragorgia
parahydrogen
parakeet
paraldehyde
paralipomena
parallax
parallel
parallel bars
parallel sailing
parallelepiped
parallelism
parallelize
parallelogram
paralogism
paralyse
paralysis
paralysis agitans
paralytic
paralyze
paramagnet
paramagnetic
paramagnetism
paramatta
paramecium
paramedic
paramedical
parament
parameter
paramilitary
paramnesia
paramo
paramorph
paramorphism
paramount
paramour
parang
parley
parliament
parliamentarian
parliamentarianism
parliamentary
parliamentary agent
parlor
parlormaid
parlour
parlous
parochial
parochial church council
parochial school
parochialism
parodic
parodist
parody
paroicous
parol
parole
parolee
paronomasia
paronychia
paronym
paronymous
parotic
parotid
parotitis
paroxysm
parquet
parquet circle
parquetry
parr
parrakeet
parricide
parrot
parrot fever
parrotfish
parry
parse
parssec
parsimonious
parsimony
parsley
parsnip
parson
parson bird
parson's nose
parsonage
part
part music
part of speech
part song
part-time
part.
partake
partan
parted
parterre
parthenocarpy
parthenogenesis
parti pris
parti-colored
partial
partial derivative
partial eclipse
partial pressure
partial tone
partiality
partible
participant
participate
participating insurance
participation
participial
participle
particle
particular
particularism
particularity
particularize
particularly
particulate
parting
partisan
partite
partition
partitive
partizan
partlet
partly
partner
partnership
parton
partook
partridge
pastor
pastoral
pastoral letter
pastoral staff
pastorale
pastoralist
pastoralize
pastorate
pastorship
pastose
pastrami
pastry
pasturage
pasture
pasty
pat
pat.
pat. pend.
patagium
patch
patch pocket
patch test
patchouli
patchwork
patchy
pate
patella
patellate
paten
patency
patent
patent leather
patent log
patent medicine
patent right
patentee
patently
patentor
pater
paterfamilias
paternal
paternalism
paternity
paternoster
path
pathetic
pathetic fallacy
pathfinder
pathic
pathless
pathogen
pathogenesis
pathogenic
pathognomy
pathol.
pathological
pathology
pathoneurosis
pathos
pathway
patience
patient
patin
patina
patinated
patinous
patio
patisserie
patois
patriarch
patriarchal cross
patriarchate
patriarchy
patrician
patriciate
patricide
patrilateral
patrilineage
patrilineal
patriliny
patrilocal
patrimony
patriot
patriotism
patristic
patrol
patrol car
patrol wagon
patrolman
patrology
patron
patron saint
patronage
patronize
patronizing
patronymic
patroon
patsy
patten
patter
patter song
pattern
pattern bombing
patty
patulous
paucity
pauldron
paulownia
paunch
paunchy
pauper
pauperism
pauperize
pause
pave
pavement
pavid
pavilion
paving
paving stone
pavis
pavonine
paw
pawl
pawn
pawn ticket
pawnbroker
pawnshop
pawpaw
pax
paxwax
pay
pay back
pay dirt
pay for
pay off
pay out
pay up
payable
payday
payee
payer
paying guest
payload
paymaster
payment
paynim
payoff
payola
payroll
payt.
pc.
pct.
pd.
pe
pea
pea crab
pea green
pea jacket
peace
peace offensive
peace offering
peace officer
peace pipe
peaceable
peaceful
peacemaker
peacetime
peach
peachy
peacoat
peacock
peacock blue
peacock ore
peafowl
peag
peahen
peak
peaked
peal
pean
peanut
peanut butter
peanut gallery
peanut oil
peanuts
pear
pearl
pearl barley
pearl gray
pearl millet
pearly
peart
peasant
pease
pease pudding
peasecod
peashooter
peat
peat moss
peau de soie
peavey
peba
pebble
pebble dash
pebbly
pecan
peccable
peccadillo
peccant
peccary
peccavi
peck
pecker
pecking order
pectase
pecten
pectic acid
pectin
pectinate
pectize
pectoral
pectoral girdle
pectoralis
peculate
peculation
peculiar
peculiar people
peculiarity
peculiarize
peculum
pecuniary
ped.
pedagogics
pedagogue
pedagogy
pedal
pedal point
pedalfer
pedant
pedanticism
pedantry
pedate
peddle
peddler
peddling
pederast
pederasty
pedestal
pedestrian
pedestrianism
pedestrianize
pedi-
pediatrician
pediatrics
pedicab
pedicel
pedicle
pedicular
pediculosis
pedicure
pediform
pedigree
pediment
pedlar
pedo-
pedology
pedometer
peduncle
pee
peek
peekaboo
peel
peel off
peeler
peeling
peen
peep
peep show
peep sight
peeper
peephole
peepul
peer
peer group
peerage
peeress
peerless
peeve
peeved
peevisch
pee wee
peewit
peg
peg down
peg leg
peg out
pegboard
pegmatite
peignoir
pejoration
pejorative
pekans
pekoe
pelage
pelagic
pelargonic acid
pelargonium
pelecypod
pekerine
pelf
pelham
pelican
pelisse
pelite
pell-mell
pellagra
pellet
pellicle
pellitory
pellucid
peloria
pelorus
pelota
pelt
peltast
peltate
pelting
peltry
pelvic
pelvic fin
pelvic girdle
pelvis
pemmican
pemphigus
pen
pen name
pal
penal
penal code
penal servitude
penalize
penalty
penalty box
penance
penates
pence
pencil
penchant
pencil
pend
pendant
pendant tackle
pendent
pendente lite
pendentive
pending
pendragon
pendulous
pendulum
peneplain
penetralia
penetrance
penetrant
penetrate
penetrating
penetration
peng
penguin
penholder
penicillate
penicillin
penicillium
penile
peninsula
penis
penis envy
penitence
penitent
penitential
penitentiary
penknife
penman
penmanship
penna
pennant
pennate
penni
penniless
penninite
pennon
pennoncel
penny
penny ante
penny arcade
penny-a-liner
penny-wise
pennyroyal
pennyweight
pennyworth
penology
pensile
pension
pension off
pensionary
pensioner
pensive
penstemon
penstock
pent
pent-up
penta-
pentachlorophenol
pentacle
pentad
pentadactyl
pentagon
pentagram
pentagrid
pentahedron
pentalpha
pentamerous
pentameter
pentane
pentangular
pentapody
pentapodism
pentarchy
pentastich
pentastyle
pentathlon
pentatomic
pentatonic scale
pentavalent
penthouse
pentimento
pentlandite
pentobarbital
pentode
pentomic
pentose
pentstemon
pentyl
pentylenetetrazol
penuche
penuchle
penult
penultimate
penumbra
penurious
penury
peon
peonage
peony
people
people's front
pep
pep talk
peplos
peplum
pepper
pepper mill
pepper pot
pepper tree
pepper-and-salt
peppercorn
peppergrass
peppermint
peppery
peppy
pepsin
pepsinate
pepsinogen
peptic
peptic ulcer
peptidase
peptide
peptize
peptone
peptonize
per
per annum
per capita
per contra
per diem
per mensem
per mill
per pro.
per se
per-
per.
peracid
peradventure
perambulate
perambulator
perboric acid
percale
percaline
perceivable
perceive
percent
percentage
percentile
percept
perceptible
perception
perceptive
perceptual
perch
perchance
perchloric acid
perchloride
perciipient
percolate
percolation
percolator
percuss
percussion
percussion cap
percussion instrument
percussionist
percussive
percutaneous
perdition
perdu
perdurable
perdure
peregrinate
peregrination
peregrine
peregrine falcon
pereira bark
peremptory
perennate
perennial
perfect
perfect binding
perfect cadence
perfect gas
perfect number
perfect participle
perfect pitch
perfect rhyme
perfectible
perfecting press
perfection
perfectionism
perfectionist
perfective
perfectly
perfecto
perfervid
perfidious
perfidy
perfoliate
perforate
perforated
perforation
perforce
perform
performance
performative
performing
performing arts
perfume
perfumer
perfumery
perfunctory
perfuse
perfusion
pergola
perhaps
peri
peri-
perianth
periapt
pericarditis
pericardium
pericarp
perichondrium
periclave
pericranium
pericycle
pericynthion
periderm
peridium
peridot
peridotite
perigee
perigon
perigynous
perihelion
peril
perilla oil
perilous
perilune
perilymph
perimeter
perimorph
perinephrium
perineum
perineuritis
perineurium
period
period piece
periodate
periodic
periodic law
periodic sentence
periodical
periodicity
periodontal
periodontics
perionychium
periosteum
periostitis
periotic
peripatetic
peripeteia
peripheral
periphery
periphrasis
periphrastic
peripteral
perique
perisarc
periscope
perish
perishable
perished
perishing
perissodactyl
peristalsis
peristome
peristyle
peritheciun
peritoneum
peritonitis
periwig
periwinkle
perjure
perjured
perjury
perk
perk up
perky
perlite
perm
permafrost
permalloy
permanence
permanency
permanent
permanent magnet
permanent press
permanent tooth
permanent wave
permanent way
permanganate
permanganic acid
permatron
permeability
permeable
permeance
permeate
permissible
permission
permissive
permit
permittivity
permutation
permute
pernicious
pernickety
peroneus
perorate
peroration
peroxidase
peroxide
peroxidize
peroxy-
perpend
perpendicular
perpetrate
perpetual
perpetual calendar
perpetuate
perpetuity
perplex
perplexed
perplexity
perquisite
perron
perry
perse
persecute
persecution
persecution complex
perseverance
persevere
persevering
persiflage
persimmon
persist
persistence
persistent
persnickety
person
persona
persona grata
persona non grata
personable
personage
personal
personal effects
personal equation
personal pronoun
personal property
personalism
personality
personality disorder
personality test
personalize
personally
personality
personate
personification
personify
personnel
perspective
perspicacious
perspicacity
perspicuity
perspicuous
perspiration
perspiratory
perspire
persuade
persuader
persuasion
persuasive
pert
pert.
pertain
pertinacious
pertinacity
pertinent
perturb
perturbation
pertussis
peruke
perusal
peruse
pervade
pervasive
perversion
perversity
pervert
perverted
pervious
pes
pesade
peseta
pesky
peso
pessary
pessimism
pessimist
pest
pester
pesthole
pesthouse
pesticide
pestiferous
pestilence
pestilent
pestilential
pestle
pet
pet name
petal
petaliferous
petaloid
petard
petasus
petcock
petechia
peter
petersham
petiolate
petiole
petiolule
petit
petit bourgeois
petit four
petit jury
petit larceny
petit mal
petit point
petite
petite marmite
petitio principii
petition
petitionary
petitioner
petrel
petrifaction
petrify
petrochemical
petrochemistry
petrog.
petroglyph
petrography
petrol
petrol.
petrolatum
petroleum
petroleum ether
petroleum jelly
petrolic
petrology
petronel
petrosal
petrous
petticoat
pettifog
pettifogger
pettifogging
pettish
pettitoes
petty
petty cash
petty jury
petty larceny
petty officer
petty sessions
petulance
petulancy
petulant
petunia
petuntse
pew
pewee
pewit
pewter
peyote
pf.
pfennig
pg.
phaeton
phage
phago-
phagocyte
phagocytosis
phalange
phalangeal
phalanger
phalanterian
phalanstery
phalanx
phalarope
phallic
phallicism
phallus
phanerogam
phanotron
phantasm
phantasmagoria
phantasmal
phantasy
phantom
pharaoh
pharisee
pharmaceutical
pharmaceutics
pharmacist
pharmacognosy
pharmacology
pharmacopoeia
pharmacopsychosis
pharmacy
pharos
pharyngeal
pharyngitis
pharyngo-
pharyngology
pharyngoscope
pharynx
phase
phase microscope
phase modulation
phase rule
phasis
phatic
pheasant
phellem
phelloderm
phenacaine
phenacetin
phenacite
phenanthrene
phenazine
phenetidine
phenetole
phenformin
phenix
phenobarbital
phenobarbitone
phenocryst
phenol
phenolic
phenolic resin
phenology
phenolphthalein
phenomena
phenomenal
phenomenalism
phenomenology
phenomenon
phenosafranine
phenothiazine
phenoxide
phenyl
phenyl salicylate
phenylalanine
phenylamine
phenylketonuria
pheon
phew
phi
phi-phenomenon
phial
phil.
philander
philanthropic
philanthropist
philanthropy
philately
philharmonic
philharmonic pitch
philhellene
philibeg
philippic
philo-
philodendron
philol.
philologian
philology
philomel
philoprogenitive
philos.
philosopher
philosophers' stone
philosophical
philosophism
philosophize
philosophy
philter
philtre
phiz
phlebitis
phlebosclerosis
phlebotomize
phlebotomy
phlegm
phlegmatic
phlegmy
phloem
phlogistic
phlogopite
phlox
phlyctena
phobia
phocine
phocomelia
phoebe
phoenix
phon.
phonate
phonation
phone
phoneme
phonemic
phonemics
phonetic
phonetic alphabet
phonetic law
phonetician
phonetics
phonetist
phoney
phonic
phonics
phono-
phonogram
phonograph
phonography
phonol.
phonolite
phonologist
phonology
phonometer
phonon
phonoscope
phonotypy
photocopier
photocopy
photocurrent
photodisintegration
photodrama
photodynamics
photoelasticity
photoelectric
photoelectric cell
photoelectric current
photoelectric effect
photoelectron
photoelectrotype
photoemission
photoengrave
photoengraving
photofinishing
photoflash
photoflash lamp
photoflood
photoflood lamp
photofluorography
photogelatin process
photogene
photogenic
photogram
photogrammetry
photograph
photographer
photographic
photography
photogravure
photojournalism
photokinesis
photolithography
photoluminescence
photolysis
photom.
photomap
photomechanical
photometer
photometry
photomicrograph
photomicroscope
photomontage
photomultiplier
photomural
photon
photoneutron
photoperiod
photophilous
photophobia
photophore
photopia
photoplay
photoreceptor
photoreconnaissance
photosensitive
photosphere
photosynthesis
phototaxis
phototelegraph
phototelegraphy
phototherapy
photothermic
phototonus
photopography
phototransistor
phototube
phototype
phototypography
phototypy
photovoltaic
photovoltaic cell
photovoltaic effect
photozincography
phr.
phrasal
phrase
phraseogram
phraseograph
phraseologist
phraseology
phrasing
phratry
phren.
phrenetic
phrenic
phreno-
phrenology
phrensy
phthalein
phthalic acid
phthalocyanine
phthisic
phthisis
phycology
phycomycete
phyla
phylactery
phyle
phyletic
phylloclade
phylode
phylloid
phylome
phylloquinone
phyllostaxis
phylloxera
phylogeny
phylum
phys.
physic
physic nut
physical
physical anthropology
physical chemistry
physical education
physical examination
physical geography
physical jerks
physical medicine
physical optics
physical science
physical therapy
physicalism
physicality
physician
physicist
physicochemical
physics
physiognomy
physiography
physiological
physiological psychology
physiologist
physiology
physiotherapy
physique
physoclistous
physostomous
phyto-
phytobiology
phytogenesis
phytogeography
phytography
phytohormone
phytology
phytopathology
phytophagous
phytoplankton
phytosociology
pi
pi meson
pia mater
piacular
piaffe
pianette
pianism
pianissimo
pianist
piano
piano accordion
piano player
piano roll
pianoforte
piassava
piazza
pibgorn
pibroch
pic
pica
picador
picaresque
picaroon
picayune
piccalilli
piccaninny
piccolo
piccoloist
pice
piceous
pick
pick at
pick off
pick on
pick out
pick-me-up
pickaback
pickaninny
pickax
pickaxe
piece of eight
piece out
piece-dyed
piecemeal
piecework
piecrust
piecrust table
pied
pieplant
pier
pier glass
pier table
pierce
piercing
piet
pietism
piety
piezochemistry
piezoelectricity
piffle
pig
pig bed
pig iron
pig lead
pigeon
pigeon breast
pigeon hawk
pigeon-hearted
pigeon-toed
pigeonhole
pigeonwing
pigfish
piggery
piggin
piggish
piggy
piggy bank
piggyback
pigheaded
piglet
pigling
pigment
pigmentation
pignus
pignut
pigpen
pigskin
pigsty
pigtail
pigweed
pika
pike
pikeman
pikeperch
piker
pikestaff
pilaf
pilaster
pilau
pilch
pilchard
pile
pile up
pileate
piled
pileous
piles
pileum
pileup
pileus
pilewort
pilfer
pilferage
pilgarlic
pilgrim
pilgrimage
pili
piliferous
piliform
piling
pill
pill bug
pillage
pillar
pillar box
pillbox
pillion
pilliwinks
pillory
pillow
pillow block
pillow lace
pillow sham
pillowcase
pilocarpine
pilose
pilot
pilot balloon
pilot biscuit
pilot boat
pilot burner
pilot film
pilot fish
pilot flag
pilot lamp
pilot light
pilotage
pilothouse
piloting
pilotless aircraft
pilpul
pily
pimento
pimiento
pimp
pimpernel
pimple
pimply
pin
pin curl
pin down
pin money
pin rail
pin wrench
pinafore
pinball
pinball machine
pince-nez
pincer
pincers
pinch
pinch bar
pinch effect
pinch hitter
pinch-hit
pinchbeck
pinchcock
pinchpenny
pincushion
pindling
pine
pine cone
pine marten
pine needle
pine snake
pine tar
pineal
pineal body
pineal eye
pineapple
pinery
pinetum
pinfeather
pinfish
pinfold
ping
pinguid
pinhead
pinhole
pinhole camera
pinion
pinite
pink
pink lady
pink slip
pinkeye
pinkie
pinking shears
pinkish
pinko
pinky
pinna
pinnace
pinnacle
pinnate
pinnati-
pinnatifid
pinnatipartite
pinnatiped
pinnatisect
pinniped
pinnule
pinochle
pinole
pinpoint
pinpoint bombing
pinprick
pins and needles
pinstripe
pint
pint-size
pinta
pintail
pintle
pinto
pinto bean
pinup
pinwheel
pinwork
pinworm
pinxit
piny
pion
pioneer
pious
pip
pip-squeak
pipage
pipe
pipe clay
pipe cleaner
pipe dream
pipe of peace
pipe organ
pipe up
pipeline
piper
piperaceous
piperidine
piperine
piperonal
pipestone
pipette
piping
pipistrelle
pipit
pipkin
pippin
pipsissewa
piquant
pique
piquet
piracy
piragua
piranha
pirate
pim
pirog
pirogue
piroshki
pirouette
pis aller
piscary
piscator
piscatorial
piscatory
pisci-
pisciculture
pisciform
piscina
piscine
pish
pishogue
pismire
pisolite
piss
pissed
pistachio
pistachio green
pistareen
piste
pistol
pistol grip
pistole
pistoleer
piston
piston ring
piston rod
pit
pit viper
pita
pita\n
pitch
pitch accent
pitch circle
pitch in
pitch into
pitch pine
pitch pipe
pitch ratio
pitch-black
pitch-dark
pitchblende
pitched battle
pitcher
pitcher plant
pitchfork
pitching
pitchman
pitchstone
pitchy
piteous
pitfall
pith
pith helmet
pithead
pithecanthropus
pithos
pithy
pitiable
pitiful
pitiless
pitman
piton
pitsaw
pitta
pittance
pitter-patter
pituitary
pituitary gland
pituri
pity
pivot
pivotal
pivoting
pix
pixie
pixilated
pizz.
pizza
pizzeria
pizzicato
pk.
pkg.
pkt.
pl
pl.
placable
placard
placate
placative
placatory
place
place card
plane polarization
plane sailing
plane table
plane tree
plane trigonometry
planer
planet
planet wheel
planet-struck
planetarium
planetary
planetary nebula
planetesimal
planetoid
plangent
planimeter
planimetry
planish
plank
plank-sheer
planking
plankton
planned economy
planned parenthood
plano-
plano-concave
plano-convex
planogamete
planography
planometer
planospore
plant
plant kingdom
plant louse
plant pathology
plantain
plantain lily
plantain-eater
plantar
plantation
planter
planula
plaque
plash
plashy
plasm
plasma
plasma engine
plasma membrane
plasmagel
plasmasol
plasmo-
plasmodium
plasmolysis
plasmosome
plaster
plaster cast
plaster of Paris
plasterboard
plastered
plasterwork
plastic
plastic art
plastic bomb
plastic operation
plastic surgery
plasticity
plasticize
plasticizer
plastid
plastometer
plat
plat du jour
plat.
plate
plate glass
plateau
plated
platelayer
platelet
platen
plater
platform
platform rocker
platform ticket
platina
plating
platinic
platinize
platino-
platinocyanic acid
platinocyanide
platinotype
platinous
platinum
platinum black
platinum-blond
platitude
platitudinize
platitudinous
platoon
platoon sergeant
platter
platy
platy-
platyhelminth
platypus
platysma
plaudit
plausible
plausive
play
play down
play on
play on words
play out
play up
play with
play-off
playa
playacting
playback
playbill
playbook
playboy
player
player piano
playful
playgoer
playground
playhouse
playing card
playing field
playlet
playmate
playpen
playreader
playroom
playsuit
plaything
playtime
playwright
playwriting
plaza
plea
pleach
plead
pleader
pleading
pleadings
pleasance
pleasant
pleasantry
please
pleasing
pleasurable
pleasure
pleasure principle
pleat
plebe
plebeian
plebiscite
plebs
plectognath
pectron
pectrum
pled
pledge
pledgee
pledget
pleiad
plein-air
plenary
plenipotent
plenipotentiary
plenish
plenditude
plenteous
plentiful
plenty
plenum
pleo-
pleochroism
pleomorphism
pleonasm
pleopod
pleiosaur
plessor
plethora
plethoric
pleura
pleurisy
pleurisy root
pleuro-
pleurodynia
pleuron
pleuropneumonia
plexiform
plexor
plexus
pliable
pliant
plica
plicate
plication
plier
pliers
plight
plimsoll
plinth
plio-
ploce
plod
plonk
plop
plosion
plosive
plot
plotter
plough
ploughboy
ploughman
ploughshare
plover
plow
plowboy
plowman
plowshare
ploy
pluck
pluck up
pluckless
plucky
plug
plug in
plug-ugly
plugboard
plum
plum pudding
plumage
plumate
plumb
plumb bob
plumb line
plumb rule
plumbaginaceous
plumbago
plumber
plumbery
plumbic
plumbiferous
plumbing
plumbism
plumbum
plumcot
plume
plummet
plummy
plumose
plump
plumber
plumule
plumy
plunder
plunge
plunge bath
plunger
plunging fire
plunk
pluperfect
plur.
plural
plural voting
pluralism
plurality
pluralize
pluri-
plus
plus fours
plush
plutocracy
plutocrat
pluton
plutonic
plutonium
pluvial
pluviometer
pluvious
pocosin
pod
podagra
paddy
podesta
podgy
podiatry
podite
podium
podophyllin
poem
poesy
poet
poet laureate
poet.
poetaster
poetess
poetic justice
poetic license
poeticize
poetics
poetize
poetry
pogey
pogge
pogonia
pogrom
pogy
poi
poignant
poikilothermic
poilu
poinciana
poinsettia
point
point d'appui
point duty
point group
point lace
point of articulation
point of departure
point of honor
point of order
point of view
point out
point source
point system
point up
point-blank
point-device
point-set topology
point-to-point
pointed
pointed arch
pointer
pointillism
pointing
pointless
pointsman
poise
poised
poison
poison dogwood
poison gas
poison hemlock
poison ivy
poison oak
poison sumac
poison-pen letter
poisoning
poisonous
poke
pokeberry
pokelogan
poker
poker dice
pokeweed
pokey
poky
pol.
polacca
polacre
polar
polar axis
polar bear
polar coordinates
polar distance
polar equation
polar front
polar lights
polarimeter
polariscope
polarity
polarization
polarize
polarizing microscope
polder
pole
pole horse
pole vault
poleax
poleaxe
polecat
polemic
polemics
polemist
polemoniaceous
polenta
polestar
poleyn
police
police action
police car
police court
police dog
police officer
police state
police station
policeman
policewoman
policlinic
policy
policy loan
policyholder
polio
poliomyelitis
polis
polish
polish off
polish up
polished
polit.
polite
politesse
 politic
political
political economy
political science
politician
politicize
polittick
politicking
politico
politto-
politics
polity
polka
polka dot
poll
poll tax
pollack
pollard
polled
pollen
pollen basket
pollen count
pollinate
pollination
polling booth
polling place
pollinize
pollinosis
polliwog
pollock
polster
pollute
polluted
pollywog
polo
polo pony
polo shirt
polonaise
polonium
poltergeist
poltroon
poltroonery
poly-
polyadelphous
polyamide
polyandrist
polyandrous
polyandry
polyanthus
polybasite
polychaete
polychasium
polychromatic
polychrome
polychromy
polyclinic
polyconic projection
polycotyledon
polycythemia
polydactyl
polydipsia
polyester
polyethylene
polygamist
polygamous
polygamy
polygenesis
polyglot
polygon
polygraph
polygynist
polygynous
polygyny
polyhedron
polyhistor
polyhydric
polyhydroxy
polymath
polymer
polymeric
polymerism
polymerization
polymerize
polymerous
polymorphism
polymorphonuclear
polymorphous
polymyxin
polyneuritis
polynomial
polynuclear
polyp
polypany
polypeptide
polypetalous
polyphagia
polyphone
polyphonic
polyphonic prose
polyphony
polyphyletic
polyplloid
polypody
polypoid
polypropylene
polyptych
polypus
polysaccharide
polysemy
polysepalous
polystyrene
polysyllabic
polysyllable
polysyndeton
polysynthetic
polytechnic
polytheism
polythene
polytonality
polytropheric
polytypic
polyunsaturated
polyurethane
polyvalent
polyvinyl
polyvinyl acetate
polyvinyl chloride
polyvinyl resin
polyvinylidene chloride
polyzoan
polyzoarium
polyzoic
pom-pom
pomace
pomade
pomander
pomatum
pome
pomegranate
pomelo
pomfret
pomiculture
pomiferous
pommel
pomology
pomp
pompadour
pompano
pompon
pomposity
pompous
ponce
ponceau
poncho
popcorn
pope
pope's nose
popedom
popery
popeyed
popgun
popinjay
popish
poplar
poplin
popliteal
popover
poppied
popping crease
popple
poppy
poppy seed
poppycock
poppyhead
pops
populace
popular
popular etymology
popular front
popular music
popular song
popular sovereignty
popularity
popularize
popularly
populate
population
population explosion
populous
porbeagle
porcelain
porcelain clay
porch
porcine
porcupine
pore
porgy
poriferous
porism
pork
pork barrel
pork pie
postage stamp
postal
postal card
postal order
postaxial
postbox
postboy
postcard
postconsonantal
postdate
postdiluvian
postdoctoral
poste restante
poster
posterior
posterity
postern
postexilian
postfix
postglacial
postgraduate
posthaste
posthumous
posthypnotic suggestion
postiche
posticus
postilion
postimpressionism
posting
postliminy
postlude
postman
postmark
postmaster
postmaster general
postmeridian
postmillennialism
postmistress
postmortem
postmortem examination
postnasal
postnatal
postoperative
postorbital
postpaid
postpone
postpositive
postprandial
postremogeniture
postrider
postscript
postulant
postulate
posture
posturize
postwar
posy
pot
pot cheese
pot liquor
pot marigold
pot roast
pot shot
pot-au-feu
pot-valiant
pot.
potable
potage
potamic
potash
potash alum
potassium
potassium carbonate
potassium chlorate
potassium cyanide
potassium ferricyanide
potassium ferrocyanide
potassium hydroxide
potassium nitrate
potassium permanganate
potation
potato
potato beetle
potato bug
potato chip
potato crisp
potato race
potbellied
potbelly
potboiler
potboy
poteen
potence
potency
potent
potentate
potential difference
potential divider
potential energy
potentiality
potentiate
potentilla
potentiometer
potful
pothead
potheen
pother
potherb
pothole
pothook
potherhouse
potherhunter
potiche
potion
potluck
potman
potoroo
potpie
potpourri
potsherd
potshot
pottage
potted
potter
potter wasp
potter's field
potter's wheel
pottery
pottle
potto
potti
pou sto
pouch
pouched
pouched rat
pouf
poulard
poul
poulterer
poultec
poultry
poulsman
pounce
pouncet box
pound
pound cake
pound net
pound-foolish
poundage
poundal
pour
pourboire
pourparler
pourpoint
poussette
pout
pouter
poverty
poverty-stricken
pow
powder
powder blue
powder burn
powder charge
powder flask
powder horn
powder keg
powder metallurgy
powder mill
powder monkey
powder puff
powder room
powder snow
powdered milk
powdery
power
power amplifier
power brake
power dive
power drill
power line
power loading
power of appointment
power of attorney
power pack
power plant
power politics
power saw
power series
power station
power steering
pralltriller
pram
prana
prance
prandial
prang
prank
prankster
prase
praseodymium
prat
prate
pratfall
pratincole
pratique
prattle
prau
prawn
praxis
pray
prayer
prayer beads
prayer book
prayer meeting
prayer rug
prayer shawl
prayer wheel
prayerful
praying mantis
pre-
pree-Socratic
preach
preacher
preachment
preachy
preadamite
preamble
preamplifier
prearrange
prebend
prebendary
precancel
precarious
precast
precatory
precaution
precautionary
precautious
pred.
predacious
predate
predation
predator
predatory
predecease
predecessor
predella
predesignate
predestinarian
predestinate
predestination
predestine
predetermine
predial
predicable
predicament
predicant
predicate
predicate calculus
predicative
predict
prediction
predictor
predictory
predigest
predigestion
predikant
predilection
predispose
predisposition
predominance
predominant
predominate
preemie
preeminence
preeminent
preempt
preemption
preen
preengage
preestablish
preexist
pref.
prefab
prefabricate
preface
premaxilla
premed
premedical
premeditate
premeditation
premier
premiere
premiership
premillenarian
premillennial
premillennialism
premise
premises
premium
premolar
premonish
premonition
premonitory
premundane
prenatal
prenomen
prenotion
prentice
preoccupancy
preoccupation
preoccupied
preoccupy
preordain
prep.
preparation
preparative
preparator
preparatory
preparatory school
prepare
prepared
preparedness
prepay
prepense
preponderance
preponderant
preponderate
preposition
prepositional phrase
prepositive
prepositor
prepossess
prepossessing
prepossession
preposterous
prepotency
prepotent
preprandial
prepuce
prerecord
prerequisite
prerogative
pres.
presa
presage
presbyopia
presbyter
presbyterate
presbyterial
presbyterian
presbytery
preschool
prescience
prescind
prescribe
prescript
prescriptible
prescription
prescriptive
preselector
presence
presence chamber
presence of mind
present
present arms
present participle
present perfect
present-day
presentable
presentation
presentational
presentationism
presentative
presentiment
presently
presentment
preservative
preserve
preset
preshrunk
preside
presidency
president
president-elect
presidential primary
presidentship
presidio
presidium
presignify
press
press agent
press association
press conference
press gallery
press of sail
press release
press stud
pressed glass
presser
pressing
pressman
pressmark
pressor
pressroom
pressure
pressure altimeter
pressure altitude
pressure cabin
pressure cooker
pressure gauge
pressure group
pressure head
pressure point
pressure suit
pressure-cook
pressurize
presswork
prestidigitation
prestige
prestigious
prestissimo
presto
prestress
prestressed concrete
presumable
presumably
resume
presumption
presumptive
presumptive heir
presumptuous
presuppose
presurnise
pret.
pretence
pretend
pretended
pretender
pretense
pretension
pretentious
preter-
prefixer
preterhuman
preterit
preterite
preterition
preteritive
pretermit
pretermit
preternatural
pretext
pretonic
pretor
pretify
pretty
pretty-pretty
pretyfify
pretzel
prevail
prevailing
prevalent
prevaricate
prevaricator
prevenient
prevent
preventer
preventer backstay
prevention
preventive
preview
previous
previous question
previse
prevision
prevocalic
prewar
prey
priapic
priapism
priapitis
price
price list
price support
price tag
price war
price-cutting
price-fixing
priceless
prick
prick song
pricket
pricking
prickle
prickly
prickly heat
prickly pear
prickly poppy
pride
prie-dieu
prier
priest
priest-ridden
priestcraft
priestess
priesthood
priestly
prig
priggery
priggish
prim
prim.
prima ballerina
prima donna
prima facie
prima facie evidence
primacy
primal
primarily
primary
primary accent
primary cell
primary color
primary election
primary school
primary stress
primary syphilis
principate
principium
principle
principled
prink
print
print shop
printable
printed circuit
printer
printer's devil
printer's error
printery
printing
printing press
printmaker
printmaking
prior
priorate
prioress
priority
priory
prisage
prise
prism
prismatic
prismatoid
prismoid
prison
prison psychosis
prisoner
prisoner of war
prisoner's base
prissy
pristine
prithee
prittle-prattle
priv.
privacy
private
private bill
private company
private enterprise
private eye
private first class
private parts
private practice
private school
privateer
privation
privative
privet
privilege
privileged
privileged communication
privily
privity
privy
privy chamber
privy council
privy purse
privy seal
prix fixe
prize
prize court
prize money
prize ring
prizefight
prizewinner
pro
pro forma
pro patria
pro rata
pro tem
pro tempore
pro-
proa
prob.
probabilism
probability
probability curve
probable
probable cause
probable error
probably
probate
probate court
probation
probationer
probative
probe
probity
problem
problematic
proboscidean
proboscis
proboscis monkey
proc.
procaine
procambium
procarp
procathedral
procedure
proceed
proceeding
proceeds
proceleusmatic
procephalic
process
process shot
procession
processional
prochein ami
prochronism
proclaim
proclamation
proclitic
proclivity
proconsul
proconsulate
procrastinate
procreat
procreate
procryptic
proctology
proctor
proctoscope
procumbent
procurable
procurrence
procuration
procurator
procure
procurer
prod
prod.
prodigal
prodigious
prodigy
prodrome
produce
producer
producer gas
producer goods
product
production
production line
productive
proem
profanatory
profane
profanity
profess
professed
profession
professional
professionalism
professionalize
professor
professorate
professoriate
professorship
proffer
proficiency
proficient
profile
profile drag
profit
profit and loss
profit sharing
profit-sharing
profitable
profiteer
profiterole
proligate
profluent
profound
profundity
profuse
profusion
profusive
prog
prog.
progenitive
progenitor
progeny
progestational
progesterone
progestin
proglottis
prognathous
prognosis
prognostic
prognosticate
prognostication
program
program music
programme
programmer
progress
progression
progressionist
progressist
progressive
prohibit
prohibition
prohibitionist
prohibitive
prohibitory
project
projectile
projection
projection printing
projectionist
projective
projective geometry
projector
prolactin
prolamine
prolate
prole
proleg
prolegomenon
prolepsis
proletarian
proletariat
proliferate
proliferation
proliferous
prolific
proline
prolix
prolocutor
prologize
prologue
prolong
prolongate
prolongation
prolonge
prolonge knot
prolusion
prom
prom.
promenade
promenade concert
promenade deck
promethium
prominence
prominent
promiscuity
promiscuous
promise
promisee
promising
promissory
promissory note
promontory
promote
promoter
promotion
promotive
prompt
promptbook
prompter
promptitude
promulgate
promycelium
pron.
pronate
pronation
pronator
prone
prong
pronghorn
pronominal
pronoun
pronounce
pronounced
pronouncement
pronto
pronucleus
pronunciamento
pronunciation
proof
proof sheet
proof spirit
proofread
prop
prop root
prop.
propaedeutic
propagable
propaganda
propagandism
propagandist
propagandize
propagate
propagation
propane
propanoic acid
proparoxytone
propel
propellant
propeller
propend
propene
propensity
proper
proper fraction
proper motion
proper noun
properly
propertied
property
property man
prophase
prophecy
prophesy
prophet
prophetic
prophylactic
prophylaxis
propinquity
propionic acid
propitiate
propitiatory
propitious
propjet
propjet engine
propman
propolis
proponent
proportion
proportionable
proportional
proportional representation
protest
protestation
prothalamion
prothalamium
prothallus
prothesis
prothonotary
prothorax
prothrombin
protist
protium
proto-
protoactinium
protochordate
protocol
protohistory
protohuman
protolanguage
protolithic
protomartyr
protomorphic
proton
protonema
protoplasm
protoplasm
protostele
prototherian
prototrophic
prototype
protoxide
protoxylem
protozoal
protozoan
protozoology
protozoon
protract
protractile
protraction
protractor
protrude
protrusive
protuberance
protuberance
protuberant
protuberate
proud
prudent
prudential
prudery
prudish
pruinose
prune
prunella
prunelle
pruning hook
prurient
prurigo
pruritus
prussiate
prussic acid
pry
pryer
prying
prytaneum
ps.
psalm
psalmbook
psalmist
psalmody
psalterium
psaltery
psephology
pseud.
pseudaxis
pseudo
pseudo-
pseudocarp
pseudohemophilia
pseudohermaphrodite
pseudohermaphroditism
pseudonym
pseudonymous
pseudoscope
psf
pshaw
psi
psia
psid
psilocybin
psilomelane
psittacine
psittacosis
psoas
psoriasis
psych
psychasthenia
psyche
psychedelic
psychiatrist
psychiatry
psychic
psychic energizer
psycho
psycho-
psychoactive
psychoanal.
psychoanalysis
psychobiology
psychochemical
psychodiagnosis
psychodiagnostics
psychodrama
psychodynamics
psychogenesis
psychogenic
psychognosis
psychographer
psychokinesis
psychol.
psycholinguistics
psychological
psychological block
psychological moment
psychological warfare
psychologism
psychologist
psychologize
psychology
psychomancy
psychometrics
psychometry
psychomotor
psychoneurosis
psychoneurotic
psychopath
psychopathic personality
psychopathist
psychopathology
psychopathy
psychopharmacology
psychophysics
psychophysiology
psychosexual
psychosis
psychosocial
psychosomatic
psychosomatic medicine
psychosomatics
psychosurgery
psychotechnics
psychotechnology
psychotherapy
psychotic
psychotomimetic
psychro-
psychrometer
pt
pt.
ptarmigan
pteranodon
pteridology
pteridophyte
ptero-
pterodactyl
pteropod
pterosaur
pterylglutamic acid
pteryla
ptg.
ptisan
ptomaine
ptomaine poisoning
ptosis
pts.
ptyalin
ptyalism
pub
pub.
puberty
puberulent
pubes
pubescent
pubis
publ.
public
public assistance
public charge
public debt
public defender
public domain
public enemy
public house
public law
public opinion
public prosecutor
public relations
public school
public servant
public service
public utility
public works
public-address system
public-opinion poll
public-spirited
publican
publication
publicist
publicity
publicize
publicly
publicness
publish
publisher
publishing
publishing house
puca
puccoon
puce
puck
pucka
pucker
puckery
pudding
pudding stone
puddle
puddling
pudency
pudendum
pudgy
pueblo
puerile
puerile
puerilism
puerility
puerperal
puerperal fever
puerperium
puff
puff adder
pungy
punish
punishable
punishment
punitive
punk
punkah
punkie
punner
punnet
punster
punt
puny
pup
pup tent
pupa
puparium
pupil
pupillary
pupiparous
puppet
puppet show
puppetry
puppy
puppy love
pur sang
purblind
purchasable
purchase
purchase tax
purdah
pure
pure culture
pure line
purebred
puree
purehearted
purely
purgation
purgative
purgatorial
purgatory
purge
purificator
purify
purine
purism
puritan
puritanical
purity
purl
purlieu
purlin
purloin
purple
purple gallinule
purple martin
purple medic
purple-fringed orchid
purpleness
purplish
purport
purpose
purposeful
purposeless
purposefully
purposive
purpura
purpure
purpurin
purr
purree
purse
purse seine
purse strings
purser
purslane
pursuance
pursuant
pursue
pursuer
pursuit
pursuit plane
pursuivant
pursy
purtenance
purulence
purulent
purusha
purvey
purveyance
purveyor
purview
pus
push
push broom
push button
push off
push through
push-bike
push-up
pushball
pushcart
pushed
pusher
pushing
pushover
pushy
pusillanimit
pusillanimous
puss
pussy
pussy willow
pussyfoot
pustulant
pustulate
pustule
put
put about
put across
put aside
put away
put back
put down
put forth
put forward
put in
put off
put on
put on to
put out
put over
put through
put up
put upon
put-and-take
put-down
put-on
put-out
put-put
put-up
put-upon
putamen
putative
putrefaction
putrefy
putrescent
putrescible
putrescine
putrid
putsch
putt
puttee
putter
puttier
putting green
putto
putty
putty knife
putty powder
puttyroot
puzzle
puzzlement
puzzler
pwt.
pya
pyaemia
pycnidium
pycno-
pycnometer
pye
pyelitis
pyelography
pyelonephritis
pyemia
pygidium
pygmy
pyjamas
pyknic
pylon
pylorectomy
pylorus
pyo-
pyoid
pyonephritis
pyorrhea
pyosis
pyralid
pyramid
pyramidal
pyrargyrite
pyrazole
pyre
pyrene
pyrethrin
pyrethrum
pyretic
pyrethapterapy
pyrexia
pyridine
pyridoxine
pyriform
pyrimidine
pyrite
pyrites
pyro-
pyrochemical
pyroclastic
pyroconductivity
pyroelectric
pyroelectricity
pyrogallate
pyrogallol
pyrogen
pyrogenic
pyrogenous
pyrognostics
pyrography
pyroligneous
pyroligneous acid
pyrology
pyrolysis
pyromagnetic
pyromancy
pyromania
pyrometallurgy
pyrometer
pyrometric cone
pyromorphite
pyrone
pyrope
pyrophoric
pyrophosphate
pyrophosphoric acid
pyrophotometer
pyrophyllite
pyrosis
pyrostat
pyrotechnic
pyrotechnics
pyroxene
pyroxenite
pyroxylin
pyrrhic
pyrrhotite
pyrrhuloxia
pyrrolidine
python
pythoness
pyuria
pyx
pyxidium
pyxie
q
q.
q.e.
q.t.
q.v.
qadi
qbila
qintar
ql.
qoph
qr.
qt.
qto.
qu.
qua
quack
quack grass
quackery
quacksalver
quad
quad.
quadangle
quadrangular
quadrant
quadrat
quadrate
quadratic
quadratics
quadrature
quadrennial
quadrennium
quadri-
quadratic
quadriceps
quadricycle
quadrifid
quadriga
quadrilateral
quadrille
quadriillion
quadrinominal
quadripartite
quadriplegia
quadriplegic
quadrireme
quadrisect
quadrivalent
quadivial
quadrivincial
quadroon
quadruanous
quadruiped
quadruple
quadruple time
quadruplet
quadruplex
quadruplicate
quaff
quag
quagga
quaggy
quagmire
quahog
quail
quaint
quake
quaky
qualification
qualified
qualifier
qualify
qualitative
qualitative analysis
quality
quality control
qualm
qualmish
quamash
quandary
quant
quant
quantic
quantifier
quartic
quartile
quarto
quartz
quartz glass
quartz lamp
quartziferous
quartzite
quasar
quash
quasi
quasi contract
quasi-
quasi-judicial
quasi-stellar radio source
quass
quassia
quaternary
quaternary ammonium compound
quatarnion
quaternity
quatrain
quatre
quatrefoil
quattrocento
quaver
quay
quean
queasy
queen
queen bee
queen dowager
queen mother
queen olive
queen post
queen regent
queen regnant
queen's English
queen's evidence
queen's shilling
queenhood
queenly
queer
quell
quelque chose
quench
quenchless
quenelle
quercetin
querist
quern
querulous
query
ques.
quest
question
question mark
questionable
questionary
questioning
questionless
questionnaire
questor
quetzal
queue
qui vive
quibble
quibbling
quiche
quick
quick assets
quick bread
quick fire
quick grass
quick march
quick time
quick trick
quick-change artist
quick-freeze
quick-tempered
quick-witted
quicken
quickie
quicklime
quickly
quicksand
quicksilver
quickstep
quid
quid pro quo
quiddity
quidnunc
quiescent
quiet
quieten
quietism
rabbinate
rabinical
rabinism
rabbit
rabbit ears
rabbit fever
rabbit punch
rabbitfish
rabbitry
rabble
rabble-rouser
rabble-rousing
rabblemment
rabid
rabies
raccoon
dog
race
dog
race horse
race riot
racecourse
racehorse
raceme
racemic
racemose
racer
raceway
rachis
rachitis
racial
racialism
racing
racism
rack
rack railway
rack up
rack-rent
racket
racketeer
rackety
racon
raconteur
racon
racquet
racy
rad
rad.
radar
radar beacon
radarman
radarscope
raddle
raddled
radial
radial engine
radian
radiance
radiancy
radiant
radiant energy
radiant flux
radiant heat
radiant heating
radiate
radiation
radiation sickness
radiative
radiator
radical
radical axis
radical sign
radicalism
radically
radicand
radicel
radices
radicle
radiculitis
radii
radio
radio astronomy
radio beacon
radio beam
radio compass
radio control
radio direction finder
radio frequency
radio knife
radio range beacon
radio source
radio spectrum
radio star
radio station
radio telescope
radio tube
radio wave
radio-
radioactivate
radioactive
radioactive decay
radioactive series
radioactivity
radiobiology
radiobroadcast
radiocarbon
radiocarbon dating
radiochemical
radiochemistry
radiocommunication
radioelement
radiogram
radiograph
radiography
radioisotope
radiolarian
radiolocation
radiology
radiolucent
radioluminescence
radioman
radiometeorograph
radiometer
radiomicrometer
radionuclide
radiopaque
radiophone
radiophotograph
radioscope
radioscopy
radiosensitive
radiosonde
radiosurgery
radiotelegram
radiotelegraph
radiotelegraphy
radiotelephone
radiotelephony
radiotherapy
radiothermy
radiothorium
radiotransparent
radish
radium
radium emanation
radium therapy
radius
radius of curvature
radix
radome
radon
raff
raffia
raffinate
raffinose
raffish
raffle
rafflesia
raft
rafter
rag
rag doll
rag paper
rag-and-bone man
ragamuffin
rage
ragged
ragged robin
raggedy
raggle-taggle
ragi
raglan
ragman
ragout
rags
ragtag and bobtail
ragtime
ragweed
ragwort
rah
raid
rail
railhead
railing
raillery
railroad
railroader
railway
raiment
rain
rain dance
rain gauge
rain or shine
rain tree
rain water
rainband
rainbow
rainbow trout
raincoat
raindrop
rainfall
rainmaker
rainout
rainproof
rains
rainstorm
rainwater
rainy
rainy day
raise
raised
raisin
raising
raja
rajah
rake
rake up
rake-off
rakehell
raker
raki
rakish
rale
rall.
rallentando
ralline
rally
rally round
ram
ramble
rambler
rambling
rambunctious
rambutan
ramekin
ramentum
ramie
ramification
ramiform
ramify
ramjet
rat
rat race
rat snake
rat terrier
rat-tail
rat-tat
rata
ratable
ratafia
ratal
ratan
rataplan
ratchet
ratchet wheel
rate
rate of exchange
rate-of-climb indicator
rateable
ratel
ratepayer
ratfink
rath
rathe
rather
rathskeller
ratify
rating
ratio
ratiocinate
ratiocination
ration
rational
rational number
rationale
rationalism
rationality
rationalize
rations
ratite
ratline
ratoon
ratsbane
rattan
ratter
rattiish
rattle
rattlebox
rattlebrain
rattlebrained
rattlehead
rattlepate
rattler
rattlesnake
rattlesnake fern
rattlesnake plantain
rattletrap
rattling
rattly
rattoon
rattrap
ratty
raucous
rauwolfia
ravage
rave
ravel
ravelin
ravelment
raven
ravening
ravenous
raver
ravin
ravine
raving
ravioli
ravish
ravishing
ravishment
raw
raw material
raw silk
rawboned
rawhide
rawinsonde
ray
ray flower
rayless
rayon
raze
razee
razor
razorback
razorbill
razz
razzia
razzle-dazzle
rcd.
rcpt.
rd.
re
re-
re-act
re-count
re-cover
re-create
re-creation
re-examine
re-form
re-press
re-sort
re-sound
re-trace
re-tread
reach
reach-me-down
react
reactance
reactant
reaction
reaction engine
reaction formation
reaction turbine
reactionary
reactivate
reactive
reactor
read
read in
read into
read out
readability
readable
reader
readership
readily
readiness
reading
readjust
readjustment
ready
ready money
ready reckoner
ready-made
rector
rectory
rectrix
rectum
rectus
recumbent
recuperate
recuperative
recuperator
recur
recurrence
recurrent
recurrent fever
recursion
recurvate
recurve
recurred
recusancy
recusant
recycle
red
red admiral
red algae
red ant
red blood cell
red brass
red carpet
red cent
red clay
red clover
red coral
red corpuscle
red currant
red deer
red duster
red fir
red fire
red flag
red fox
red giant
red grouse
red gum
red hat
red heat
red herring
red lead
red light
red man
red meat
red mullet
red osier
red pepper
red rag
red rose
red shift
red snapper
red squirrel
red tape
red wine
red-blooded
red-faced
red-handed
red-headed
red-hot
red-letter
red-letter day
red-light district
red-pencil
redact
redan
redbird
redbreast
redbud
redbug
redcap
redcoat
redd
redden
reddish
rede
redeem
redeemable
redeemer
redeeming
redemption
redemptioner
redo
redeploy
redevelop
redfin
redfish
redhead
redingote
redintegrate
redintegration
redistrict
redivivus
redneck
redness
redo
redolent
redouble
redoubt
redoubtable
redound
redpoll
redraft
redress
redroot
redshank
redskin
redstart
redtop
reduce
reduced
reducer
reducing agent
reducing glass
reductase
reductio ad absurdum
reduction
reductive
redundancy
redundant
redupl.
reduplicate
reduplication
reduplicative
redware
redwing
redwood
reed
reed bunting
reed grass
reed instrument
reed organ
reed pipe
reed stop
reed warbler
reedbird
reedbuck
reeding
reeducate
reedy
reef
reef knot
reef point
reefer
reek
reel
reel off
reenforce
reenter
reentering angle
reentry
reest
reeve
ref
ref.
reface
refection
refectory
reectory table
refer
referee
reference
reference book
reference mark
referendum
referent
referential
referred pain
refill
refine
refined
refinement
refinery
refit
refl.
reflate
reflation
reflect
reflectance
reflecting telescope
reflection
reflective
reflector
reflex
reflex angle
reflex arc
reflex camera
reflexion
reflexive
refluent
reflux
reforest
reform
reform school
reformation
reformatory
reformed
reformer
reformism
refract
refracting telescope
refraction
refractive
refractive index
refractometer
refractor
refractory
refrain
refrangible
refresh
refresher
refresher course
refreshing
refreshment
refrigerant
refrigerate
refrigeration
refrigerator
reft
refuel
refuge
refugee
refulgence
refulgent
refund
refurbish
refusal
refuse
refutation
refutative
refute
regain
regal
regale
regalia
regality
regard
reluctant
reluctivity
relume
rely
remain
remainder
remainderman
remains
remake
remand
remand home
remanence
remanent
remark
remarkable
remarque
rematch
remediable
remedial
remediless
remedy
remember
remembrance
remembrancer
remex
remind
remindful
reminisce
reminiscence
reminiscent
remise
remiss
remissible
remission
remit
remittance
remittance man
remittee
remittent
remitter
remnant
remodel
remonetize
remonstrance
remonstrant
remonstrate
remontant
remora
replication
reply
report
reportage
reporter
reportorial
repose
reposeful
reposit
reposition
repository
repossess
repp
reprehend
reprehensible
reprehension
represent
representation
representational
representationalism
representative
repress
repression
repressive
reprimed
reprimand
reprint
reprint
reproduce
reproduction
reproduction proof
reproductive
reprography
reproof
reprovable
reproval
reprove
rept.
reptant
resect
resection
reseda
resemblance
resemble
resent
resentful
resentment
reserpine
reservation
reserve
reserve bank
reserved
reservist
reservoir
reset
resh
reshape
reside
residence
residency
resident
resident commissioner
residential
residiary
residual
residuary
residue
residuum
resign
resignation
resigned
resile
resilience
resilient
resin
resinate
resiniferous
resinoid
resinous
resist
resistance
resistance thermometer
resistant
resistive
resistless
resistor
resnatron
resolvent
resolve
resoluted
resolution
resolutive
resolvable
resolve
resolved
resolvent
resonance
resonant
resonant cavity
resonate
resonator
resorcinol
resort
resound
resource
resourceful
resp.
respect
respectability
respectable
respectful
respecting
respective
respectively
respirable
respiration
respirator
respiratory
respire
respite
resplendence
resplendent
respond
respondence
respondent
response
responder
responsibility
responsible
responson
responsive
responsiveness
responsory
responsum
rest
rest home
rest mass
rest room
restate
restaurant
restaurateur
restful
restharrow
resting
resting place
restitution
restive
restless
restoration
restorative
restore
restrain
restrained
restrainer
restraint
restraint of trade
restrict
restricted
restriction
restrictive
result
resultant
resume
resumption
resupinate
resupine
resurge
resurgent
resurrect
resurrection
resurrection plant
resurrectionism
resurrectionist
resuscitate
resuscitator
ret
retable
retail
retain
retained object
retainer
retaining wall
retake
retral
retread
retreat
retrench
retrenchment
retribution
retributive
retrieval
retrieve
retriever
retro-
retroact
retroaction
retroactive
retrocede
retrochoir
retroflex
retroflexion
retrogradation
retrograde
retrogress
retrogression
retrogressive
retrorocket
retrorse
retrospect
retrospection
retrospective
retroversion
retrusion
retsina
return
return ticket
returnable
returnee
returning officer
retruse
reunion
reunionist
reunite
rev
rev.
revalue
revamp
revanche
revanchism
reveal
revealment
revegetate
reveille
revel
revelation
revelationist
revelatory
revelry
revenant
revenge
revengeful
revenue
revenue cutter
revenue tariff
revenuer
reverberate
reverberation
reverberator
reverberatory
revere
reverence
reverend
reverent
reverential
reverie
revers
reversal
reverse
reversible
reversion
reversioner
reverso
revert
revest
revert
revetment
review
reviewer
revile
revisal
revise
revision
revisionism
revisionist
revisory
revitalize
revival
revivalism
revivalist
revive
revivify
reviviscence
revocable
revocation
revoice
revoke
revolt
revolting
revolute
revolution
revolutionary
revolutionist
revolutionize
revolve
revolver
revolving
revolving credit
revolving door
revolving fund
revue
revulsion
revulsive
reward
rewarding
rewire
reword
rework
rewrite
rhabdomancy
rhachis
rhamnaceous
rhapsodic
rhapsodist
rhapsodize
rhapsody
rhatany
rhea
rhenium
rheo-
rheo.
rheology
rheometer
rheostat
rheotaxis
rheotropism
rhesus
rhet.
rhetor
rhetoric
rhetorical
rhetorical question
rhetorician
rheum
rheumatic
rheumatic fever
rheumatism
rheumatoid
rheumatoid arthritis
rheumy
rhigolene
rhinal
rhinarium
rhinencephalon
rhinestone
rhinitis
rhino
rhino-
rhinoceros
rhinoceros beetle
rhinology
rhinoplasty
rhinoscopy
rhizo-
rhizobium
rhizocarpous
rhizogenic
rhizoid
rhizome
rhizomorphous
rhizopod
rhizotomy
rhodamine
rhodic
rhodium
rhododendron
rhodolite
rhodonite
rhomb
rhombencephalon
rhombic
rhombohedral
rhombohedron
rhomboid
rhombus
rhonchus
rich rhyme
riches
richly
ricinoleic acid
ricinus oil
rick
rickets
rickettsia
rickety
rickey
rickrack
ricochet
ricotta
rictus
rid
riddance
ridden
riddle
ride
ride down
ride out
rident
rider
ridge
ridgelings
ridgepole
ridicule
ridiculous
riding
riding crop
riding habit
riding light
riding school
ridotto
riel
rife
riff
riffle
riffraff
rifle
rifle grenade
rifle range
rifleman
riflery
riffing
rift
rig
rig out
rimester
rimose
rimple
rimrock
rind
rinderpest
ring
ring finger
ring in
ring out
ring ouzel
ring road
ring up
ring-necked
ring-necked pheasant
ring-tailed
ring-tailed cat
ringdove
ringed
ringed plover
ringent
ringer
ringhals
ringleader
ringlet
ringmaster
ringside
ringster
ringtail
ringworm
rink
rinse
riot
riotous
rip
rip cord
rip-roaring
riparian
ripe
ripen
ripieno
riposte
ripping
ripping bar
ripple
ripple mark
ripplet
ripply
ripsaw
tide
rise
rise above
riser
rishi
risibility
risible
rising
risk
risk capital
risky
risotto
rissole
rit.
ritardando
rite
rite of passage
ritenuto
ritornello
ritual
ritual murder
ritualism
ritualist
ritualize
ritzy
riv.
rivage
rival
rivalry
rive
riven
river
river horse
riverhead
riverine
riverside
rivet
rivulet
rix-dollar
riyal
rm.
rms
roach
road
road agent
road hog
road metal
rock candy
rock crystal
rock dove
rock garden
rock lobster
rock oil
rock pigeon
rock plant
rock salt
rock wool
rock-and-roll
rock-bottom
rock-bound
rock-ribbed
rockabilly
rockaway
rockbound
rocker
rocker arm
rockery
rocket
rocket bomb
rocket engine
rocket gun
rocket launcher
rocketeer
rocketry
rockfish
rocking chair
rocking horse
rocking stone
rockling
rockoon
rockrose
rockweed
rocky
rococo
rod
rode
rodent
rodenticide
rodeo
rodomontade
roe
roe deer
roebuck
roentgen ray
roentgenogram
roentgenograph
roentgenology
roentgenoscope
roentgenotherapy
rogation
rogatory
roger
rogue
rogue's march
roguery
rogues' gallery
roguish
roll
roily
roister
role
roll
roll call
roll film
roll in
roll on
roll up
rollaway
rollback
rolled gold
rolled oats
rolled roast
roller
roller bearing
roller coaster
roller skate
roller towel
roller-skate
rollick
rollicking
rolling
rolling hitch
rolling mill
rolling pin
rolling stone
rollmop
rollway
roly-poly
rom.
romaine
roman
roman-fleuve
romance
root upooted
rootless
rootlet
rootstock
ropable
rope
rope yarn
rope's end
ropedancer
ropeway
roping
ropy
roque
roquelaure
rorqual
rosaceous
rosaniline
rosarium
rosary
rose
rose acacia
rose apple
rose beetle
rose campion
rose engine
rose geranium
rose mallow
rose moss
rose of Jericho
rose of Sharon
rose quartz
rose water
rose window
rose-water
roseate
rosebay
rosebud
rosefish
rosemary
roseola
rosette
rosewood
rosily
rosin
rosin oil
rosinweed
rostellum
roster
rostrum
rosy
rosy finch
rot
rota
rotary
rotary engine
rotary plow
rotary press
rotary pump
rotate
rotation
rotative
rotator
rotatory
rote
rotenone
rotgut
rotifer
rot
rotogravure
rotor
rotten
rottenstone
rotter
rotund
rotunda
roturier
rouble
roue
rouge
rouge et noir
rough
rough diamond
rough stuff
rough up
rough-and-ready
rough-and-tumble
rough-dry
rough-hew
rough-spoken
roughage
roughcast
roughen
roughhewn
roughhouse
roughish
roughneck
roughrider
roughshod
roulade
rouleau
roulette
rounce
round
round and round
round clam
round dance
round hand
round lot
round out
round robin
round table
round top
round trip
round-faced
round-shouldered
round-the-clock
roundabout
rounded
roundel
roundelay
rounder
rounders
roundhouse
rounding
roundish
roundlet
roundly
roundsman
roundup
roundworm
roup
rouse
rousing
routabout
rout
route
router
routine
routinize
roux
rove
rove beetle
rove-over
rover
roving
row
rowan
rowboat
rowdy
rowdyish
rowdyism
rowel
rowing boat
rowing machine
rowlock
royal
royal blue
royal duke
royal fern
royal flush
royal jelly
royal palm
royal poinciana
royal purple
royal road
royal standard
royal tennis
royalist
royalty
rpt.
rt.
rub
rub down
rub in
rub off
rub out
rub up
rub-a-dub
rubato
rubber
rubber band
rubber cement
rubber plant
rubber stamp
rubber tree
rubberize
rubberneck
rubbery
rubbing
rubbish
rubble
rubdown
rube
rubefaction
rubella
rubellite
rubela
rubescent
rubaceous
rubicund
rubidium
rubiginous
rubious
ruble
rubric
rubricate
rubrician
rubstone
ruby
ruby silver
ruby spinel
ruche
ruching
ruck
rucksack
ruckus
ruction
rudbeckia
rudd
rudder
rudderhead
rudderpost
ruddle
ruddock
ruddy
ruddy duck
rude
ruderal
rudiment
rudimentary
rue
rueful
rufescent
ruff
ruffed grouse
ruffian
ruffianism
ruffle
ruffled
rufous
rug
rugged
rugger
rugging
rugose
ruin
ruination
ruinous
rule
rule of three
rule of thumb
rule out
ruler
ruling
ruling elder
rum
rumal
rumba
rumble
rumble seat
rumen
ruminant
ruminate
rummage
rummage sale
rummer
rummy
rumor
rumormonger
rump
rumple
rumpus
rumpus room
rumrunner
run
run across
run after
run along
run around
run away
run down
run in
run into
run off
run on
run out
run over
run through
run to
run up
run-down
run-in
run-of-the-mill
run-of-the-mine
run-through
runabout
runagate
runaway
runcible spoon
rundle
rundlet
rundown
rune
runesmith
rung
runic
runlet
runnel
runner
runner and tackle
runner bean
runner-up
running
running board
running broad jump
running head
running knot
running light
running mate
running rigging
running start
running stitch
running title
runny
runoff
runt
runty
runway
rupee
rupiah
rupture
rural
rural dean
rural district
rural free delivery
sabin
sable
sable antelope
sabotage
saboteur
sabra
sabre
sabulous
sac
sacaton
saccharase
saccharate
saccharic acid
saccharide
sacchariferous
saccharify
saccharin
saccharine
saccharo-
saccharoid
saccharometer
saccharose
saccular
sacculate
saccule
sacculus
sacellum
sacerdotal
sacerdotalism
sachem
sachet
sack
sack coat
sack race
sack suit
sackbut
sackcloth
sacker
sacking
sacral
sacrament
sacramental
sacramental wine
sacramentalism
sacramentalist
sacrarium
sacred
sacred cow
sacrifice
sacrificial
sacrilege
sacrilegious
sacring
sacring bell
sacristan
sacristy
sacroiliac
sacrosanct
sacrum
sad
sad sack
sad-faced
sadden
saddle
saddle blanket
saddle horse
saddle roof
saddle seat
saddle soap
saddle-backed
saddleback
saddlegbag
saddlebow
saddlecloth
saddler
saddlery
saddletree
sadiron
sadism
sadness
sadomasochism
safari
safe
safe period
safe-conduct
safeguard
safekeeping
safelight
safety
safety belt
safety bicycle
safety factor
safety fuse
safety glass
safety lamp
safety match
safety pin
safety razor
safety valve
safflower oil
saffron
safranine
sag
saga
sagacious
sagacity
sagamore
sage
sage grouse
sage hen
sagebrush
sagittal
sagittate
sago
sago palm
saguaro
sahib
said
saiga
sail
sailboat
sailcloth
sailer
sailfish
sailing
sailing boat
sailing ship
sailmaker
sailor
sailor suit
sailor's-choice
sailplane
sain
sainfoin
saint
saint's day
saibed
sainthood
saintly
saith
sake
saker
saki
sal ammoniac
sal soda
sal volatile
salaam
salable
salacious
salad
salad bowl
salad days
salad dressing
salade
salamander
salami
salaried
salary
sale
saleable
salep
saleratus
sales
sales promotion
sales resistance
sales talk
sales tax
salesclerk
salesgirl
salesman
salesmanship
salespeople
salesperson
salesroom
saleswoman
salicaceous
salicin
salicylate
salicylic acid
salience
salient
salientian
saliferous
salify
salimeter
salina
saline
salinometer
saliva
salivary gland
salivate
salivation
sallet
sallow
sally
sally port
salmagundi
salmi
salmon
salmon pink
salmon trout
salmonberry
salmonella
salmonoid
salol
salon
saloon
saloop
salpa
salpiglossis
salpingectomy
salpingitis
salpingotomy
salpinx
salsify
salt
salt cake
salt dome
salt flat
salt lick
salt marsh
salt pork
salt water
salt-and-pepper
saltant
saltarello
saltation
saltatorial
saltatory
saltcellar
salted
salter
saltern
saltigrade
saltine
saltire
saltish
saltpeter
salts
saltus
saltwater
saltworks
saltwort
salty
salubrious
salutary
salutation
salutatory
salute
salvage
salvation
salve
salver
salverform
salvia
salvo
samadhi
samarium
samariskite
samba
sambar
sambo
same
samekh
sameness
samiel
samisen
samite
samovar
sampan
samphire
sample
sampler
sampling
samsara
samurai
sanative
sanatorium
sanatory
sanbenito
sanctified
sanctify
sanctimonious
sanctimony
sanction
sanctitude
sanctity
sanctuary
sanctum
sanctum sanctorum
sand
sand castle
sand crack
sand dab
sand dollar
sand flea
sand hopper
sand lance
sand lizard
sand martin
sand painting
sand trap
sand-blind
sandal
sandalwood
sandarac
sandbag
sandbank
sandblast
sandbox
sandbox tree
sander
sanderling
sandfly
sandglass
sandhi
sandhog
sandman
sandpaper
sandpiper
sandpit
sandstone
sandstorm
sandwich
sandwich board
sandwich man
sandy
sandy blight
sane
sang
sang-froid
sangria
sanguinaria
sanguinary
sanguine
sanguineous
sanguinolent
sanies
sanious
sanitarian
sanitarium
sanitary
sanitary belt
sanitary cordon
sanitary engineering
sanitary towel
sanitation
sanitize
sanity
sanjak
sank
sannyasi
sans
sans pareil
sans serif
sans souci
sans-culotte
santalaceous
santonica
santonin
sap
sap green
sapajou
sapanwood
sapele
saphead
sapheaded
saphena
sapid
sapient
sapiential
sapindaceous
sapless
sapling
sapodilla
saponaceous
saponify
saponin
sapor
saporific
saporous
sapota
sapotaceous
sappanwood
sapper
sapphire
sapphirine
sapphism
sappy
sapro-
saprogenic
saprolite
saprophagous
saprophyte
sapsago
sapsucker
sapwood
saraband
saran
sarangi
sarcasm
sarcastic
sarcenet
sarco-
sarcocarp
sarcoid
sарcoma
sarcomatosis
sarcothagus
sarcous
sard
sardine
sardius
sardonic
sardonyx
sargasso
sargassum
sari
sarmentose
sarmentum
sarong
saros
sarracenia
sarraceniaceous
sarrusophone
sarsaparilla
sarsen
sarsenet
sartor
sartorial
sartorius
sash
satyr
satyr play
satyriasis
sauce
saucepan
saucer
saucy
sauerbraten
sauerkraut
sauger
sauna
saunter
sauriel
saurian
saurischian
sauropod
saury
sausage
saut de basque
sauterme
sauve qui peut
savage
savagery
savagism
savanna
savant
savarin
savate
save
save-all
saveloy
saving
savings account
savings and loan association
savings bank
savior
saviour
savoir-faire
savoir-vivre
savor
savory
savour
savoury
savoy
saw
saw palmetto
saw-toothed
sawbuck
scarlet pimpernel
scarlet runner
scarlet tanager
scarlet woman
scarp
scarper
scary
scat
scat singing
scathe
scathing
scatology
scatter
scatter pin
scatter rug
scatterbrain
scattering
scaup duck
scauper
scavenge
scavenger
scenario
scenarist
scend
scene
scene dock
scenery
scenic
scenography
scent
scepter
sceptic
sceptre
sch.
schappe
schedule
scheelite
schema
schematic
schematism
schematize
scheme
scheming
scherzando
scherzo
schiller
schilling
schipperke
scission
scissor
scissors
scissors kick
scissors truss
scissure
sciurine
sciuroid
sclaff
sclera
sclerenchyma
sclerite
scleritis
scleroderma
sclerodermatous
scleroma
sclerometer
sclerophyll
scleroprotein
sclerosed
sclerosis
sclerotic
sclerotome
sclerous
scoff
scofflaw
scold
scolecite
scolex
scoliosis
scolopendrid
sconce
scone
scoop
scoop neck
scoot
scooter
scop
scope
scopolamine
scopoline
scopophilia
scopula
scorbutic
scorch
scorcher
score
scoreboard
scum
scumble
scummy
scup
scupper
scuppernong
scurf
scurile
scurrility
scurrilous
scurry
scurry
scuzzy grass
scut
scuta
scutage
scutate
scutch
scutch grass
scutcheon
scute
scutellation
scutiform
scutter
scuttle
scuttlebutt
scutum
scyphate
scyphozoan
scyphus
scythe
sd.
sea
sea anchor
sea anemone
sea bag
sea bass
sea bird
sea biscuit
sea bream
sea breeze
sea captain
sea chest
sea coal
sea cow
sea devil
sea dog
sea duck
sea eagle
sea elephant
sea fan
sea foam
sea green
sea gull
sea heath
sea holly
sea horse
sea king
sea ladder
sea lavender
sea lawyer
sea legs
sea lettuce
sea level
sea lily
sea lion
sea mew
sea mile
sea milkwort
sea moss
sea onion
sea otter
sea perch
sea pink
sea power
sea purse
sea raven
sea robin
sea room
sea rover
sea serpent
sea shell
sea slug
sea snake
sea squill
sea squirt
sea swallow
sea tangle
sea trout
sea turtle
sea urchin
sea wrack
sea-island cotton
sea-maid
seaboard
seaborne
seaware
seaway
seaweed
seaworthy
sebaceous
sebaceous gland
sebacic acid
sebi-
sebiferous
sebum
sec
sec.
secant
secateurs
secco
secede
secern
secession
secessionist
sech
seclude
secluded
seclusion
seclusive
second
second childhood
second class
second cousin
second estate
second fiddle
second floor
second growth
second hand
second lieutenant
second mate
second mortgage
second nature
second person
second reading
second sight
second string
second thought
second wind
second-best
second-class
second-degree burn
second-guess
second-rate
security
security risk
sedan
sedan chair
sedan cruiser
sedate
sedation
sedative
sedentary
sedge
sediment
sedimentary
sedimentation
sedimentology
sedition
seditious
seduce
seducer
seduction
seductive
seductress
sedulity
sedulous
sedum
see
see into
see out
see through
see-through
seed
seed capsule
seed coat
seed corn
seed leaf
seed plant
seed vessel
seedbed
seedcase
seeder
seedling
seedtime
seedy
seeing
seek
seek out
seeker
seel
seem
selective
selective service
selectivity
selectman
selector
selenate
selenious
selenious acid
selenite
selenium
selenodont
selenography
self
self-
self-abasement
self-abnegation
self-absorbed
self-absorption
self-abuse
self-acting
self-addressed
self-aggrandizement
self-analysis
self-annihilation
self-appointed
self-assertion
self-assurance
self-assured
self-centered
self-command
self-conceit
self-confessed
self-confidence
self-congratulation
self-conscious
self-consequence
self-consistent
self-contained
self-content
self-contradiction
self-control
self-deceit
self-deception
self-defense
self-delusion
self-denial
self-deprecating
self-determination
self-devotion
self-discipline
self-drive
self-driven
self-educated
self-effacement
self-effacing
self-employed
self-esteem
self-evident
self-examination
self-excited
self-executing
self-existent
self-explanatory
self-expression
self-fertilization
self-forgetful
self-fulfillment
self-governed
self-government
self-gratification
self-help
self-hypnosis
self-identity
self-immolating
self-immolation
self-important
self-improvement
self-induced
self-inductance
self-induction
self-indulgent
self-insurance
self-interest
self-justifying
self-knowledge
self-liquidating
self-loading
self-love
self-made
self-mastery
self-mortification
self-moving
self-operating
self-opinionated
self-pity
self-pollination
self-possessed
self-possession
self-preservation
self-pronouncing
self-propelled
self-propulsion
self-realization
self-regard
self-regulated
self-regulating
self-reliance
self-reliant
self-renunciation
self-reproach
self-respect
self-restraint
self-revealing
self-righteous
self-rising
self-sacrifice
self-satisfaction
self-satisfied
self-sealing
self-seeker
self-seeking
self-service
self-sown
self-starter
self-styled
self-sufficient
self-suggestion
self-support
self-supporting
self-sustaining
self-taught
self-will
self-winding
selfheal
selfhood
selfish
selfless
selfness
selfsame
sell
sell off
sell out
seller
sellers' market
selling race
selling-plater
selsyn
selvage
selves
sem.
semanterne
semantic
semantics
semaphore
semasiology
sematic
semblable
semblance
semeiology
sememe
semen
semester
semi
semi-
semiannual
semiaquatic
semiautomatic
semibreve
semicentennial
semicircle
semicircular canal
semicolon
semiconductor
semiconscious
semidurnal
semidome
semifinal
semifinalist
semifluid
semiliquid
semiliterate
semilunar
semimonthly
seminal
seminar
seminarian
seminary
semination
semiology
semiotic
semiotics
semipalmate
semipermeable
semiporcelain
semipostal
semiprofessional
semiquaver
semirigid
semiskilled
semitone
semitrailer
semitropical
semivitreous
semivowel
semiweekly
semiyearly
semolina
semper fidelis
semper paratus
sempiternal
sempstress
sen
senarmontite
senary
senate
senator
senatorial
senatus consultum
send
send down
send-off
sendal
sender
senega
senescent
seneschal
senhor
senhorita
senile
senility
senior
senior citizen
senior high school
seniority
senna
sennet
sennight
sennit
sensate
separative
separator
separatrix
sepia
sepoy
seppuku
sepsis
sept
septa
septal
septarium
septate
septavalent
septempartite
septenary
septennial
septet
septi-
septic
septic tank
septicemia
septicemic plague
septicidal
septilateral
septillion
septimal
septime
septivalent
septuagenarian
septum
septuor
septuple
septuplet
septuplicate
sepulcher
sepulchral
sepulchre
sepulture
seqq.
sequacious
sequel
sequela
sequence
sequent
sequential
sequester
sequestered
sequestrate
sequestration
sequin
sequoia
ser
sera
seraglio
serai
seraph
seraphic
serdab
sere
serena
serenade
serenata
serendipity
serene
serenity
serf
serge
sergeant
sergeant at arms
sergeant first class
sergeant major
serial
serial number
serialize
seriate
seriatim
sericeous
sericin
seriema
series
series-wound
serif
serigraph
serin
serine
seringa
seriocomic
serious
serjeant
sermon
sermonize
sero-
sero-
erology
serosa
serotherapy
serotine
serotonin
serous
serous fluid
serous membrane
serow
serpent
serpentiform
serpentine
serpigo
serranid
serrate
serrated
serration
serried
serriform
serrulate
serrulation
serum
serum albumin
serum globulin
serum hepatitis
serval
servant
serve
server
service
service book
service ceiling
service medal
service station
service stripe
serviceable
serviceberry
serviceman
servient tenement
serviette
servile
servility
serving
servitor
servitude
servo
servo system
servomechanical
servomechanism
servomotor
sesame
sesqui-
sesquialtera
sesquicarbonate
sesquicentennial
sesquioxide
sesquipedalian
sesquiplane
sessile
session
sessions
sesterce
sestertium
sestet
sestina
set
set about
set against
set aside
set back
set down
set forth
set in
set off
set on
set out
set piece
set point
set square
set theory
set to
set up
set width
seta
setaceous
setback
setiform
setose
setscrew
sett
settee
setter
setting
setting-up exercises
settle
settle down
settle for
settle in
settle with
settlement
settler
settling
settlings
setula
setup
seven
seven deadly sins
seven seas
seven-up
seven-year itch
sevenfold
seventeen
seventeen-year locust
seventeenth
seventh
seventh chord
seventh heaven
seventieth
seventy
sever
severable
several
severally
severalty
severance
severance pay
severe
severity
sew
sew up
sewage
sewan
sewellel
sewer
sewerage
sewing
sewing machine
sewn
sex
sex act
sex appeal
sex chromosome
sex hormone
sex-
sex-limited
sexagenarian
sexagenary
sexagesimal
sexcentenary
sexdecillion
sexed
sexennial
sexism
sexist
sexivalent
sexless
sexology
sexpartite
sexpot
sex
sextain
sextan
sextant
sextet
sextillion
sextodecimo
sexton
sextuple
sextuple time
sextuplet
sextuplicate
sexual
sexual intercourse
sexual reproduction
sexual selection
sexuality
sexy
sf
sferics
sfumato
sgd.
sgraffito
shabby
shabby-genteel
shack
shackle
shad
shadberry
shadbush
shadchan
shaddock
shade
shade tree
shading
shadoof
shadow
shadow play
shadowgraph
shadowy
shaduf
shady
shaft
shafting
shag
shagbark
shaggy
shaggy-dog story
shagreen
shah
shake
shake down
shake off
shake up
shake-up
shakedown
shaker
shaking
shaking palsy
shako
shaky
shale
shale oil
shall
shalloon
shallop
shallot
shallow
shalom aleichem
shalt
sham
shaman
shamanism
shamble
shambles
shame
shamefaced
shameful
shameless
shammer
shammy
shampoo
shamrock
shamus
shan’t
she'd
she'll
she's
she-devil
sheaf
shear
sheared
shears
shearwater
sheatfish
sheath
sheath knife
sheathbill
sheathe
sheathing
sheave
sheaves
shebang
shebeen
shed
shed roof
sheen
sheeny
sheep
sheep ked
sheep sorrel
sheep tick
sheep's eyes
sheep's fescue
sheep-dip
sheepcote
sheepdog
sheepfold
sheepherder
sheepish
sheepshank
sheepshead
sheepshearing
sheepskin
sheepwalk
sheer
sheer strake
sheerlegs
sheers
sheet
sheet anchor
sheet bend
sheet glass
sheet lightning
sheet metal
sheet music
sheet-fed
sheeting
sheik
sheikdom
sheikh
shekel
shelduck
shelf
shelf ice
shelf life
shell
shell bean
shell game
shell jacket
shell out
shell shock
shellac
shellacking
shellback
shellbark
shelled
shellfire
shellfish
shellproof
shelter
shelter deck
shelter tent
shelty
shelve
shelves
shelving
shend
shepherd
shepherd dog
shepherd's pie
shepherd's-purse
sherbet
sherd
sherif
sheriff
sherry
sheugh
shew
shibboleth
shied
shield
shield bug
shield fern
shier
shiest
shift
shift key
shiftless
shifty
shigella
shikari
shiksa
shill
shillelagh
shilling
shilling mark
shilly-shally
shimmer
shimmery
shimmy
shin
shinbone
shindig
shine
shiner
shingle
shingles
shingly
shinleaf
shinny
shiny
ship
ship biscuit
ship chandler
ship money
ship of the line
ship of war
ship's boat
ship's boy
ship's husband
ship's papers
ship-rigged
shipboard
shipentine
shipload
shipman
shipmaster
shipmate
shipment
shipowner
shippen
shipper
shipping
shipping ton
shipshape
shipway
shipworm
shipwreck
shipwright
shipyard
shire
shire horse
shirk
shirker
shirr
shirring
shirt
shirting
shirtmaker
shirtwaist
shirty
shish kebab
shit
shithead
shittim wood
shitty
shiv
shivaree
shive
shiver
shivery
shoal
shout
shock
shock absorber
shock therapy
shock troops
shock wave
shocker
shockheaded
shocking
shockproof
shod
shoddy
shoe
shoe leather
shoebill
shoebill
shoelace
shoemaker
shoer
shoeshine
shoestring
shofar
shogun
shogunate
shone
shoo
shoo-in
shook
shool
shoon
shoot
shoot down
shoot out
shoot up
shooter
shooting box
shooting brake
shooting gallery
shooting iron
shooting script
shooting star
shooting stick
shooting war
shop
shop assistant
shop steward
shophar
shopkeeper
shoplifter
shopper
shopping
shopping center
shopwindow
shopworn
shoran
shore
shore bird
shore leave
shore patrol
shoreless
shoreline
shoreward
shoring
shorn
short
short account
short circuit
short covering
short division
short hundredweight
short interest
short list
short shrift
short story
short subject
short ton
short-change
short-circuit
short-cut
short-lived
short-sighted
short-tempered
short-term
short-winded
shortage
shortbread
shortcake
shortcoming
shortcut
shorten
shortening
shortfall
shorthand
shorthanded
shorthorn
shortie
shortly
shorts
shortsighted
shortstop
shortwave
shot
shot glass
shot hole
shot put
shot tower
shot-putter
shote
shotgun
shotgun wedding
shotten
should
shoulder
shoulder bag
shoulder blade
shoulder pad
shoulder patch
shoulder strap
shoulder weapon
shouldn't
shouldst
shout
shout down
shove
shove off
shovel
shovel hat
shovelboard
shoveler
shovelhead
shovelnose
show
show bill
show business
show girl
show of hands
show off
show up
show-off
show-through
showboat
showbread
showcase
showdown
shower
showery
showily
showiness
showing
showman
showmanship
shown
showpiece
showplace
showroom
showy
shpt.
shr.
shrapnel
shred
shredding
shrew
shrew mole
shrewd
shrewish
shrewmouse
shriek
shrieval
shrievalty
shriev
shrief
shrift
shrike
shrill
shrimp
shrine
shrink
shrinkage
shrive
shrievel
shroff
shroud
shroud knot
shroud-laid
shrove
shrub
shrubbery
shrubby
shrug
shrug off
shrunken
shrunken
shut
shut up
shut-in
shutdown
signory
signpost
sika
sike
silage
silence
silencer
silent
silent discharge
silent majority
silent partner
silesia
silhouette
silica
silica gel
silica glass
silicate
siliceous
silici-
silicic
silicic acid
silicify
silicious
silicum
silicle
silicon
silicon carbide
silicone
silicosis
siliculose
siliqua
slique
silk
silk hat
silk oak
silk-screen printing
silk-stocking
silkaline
silken
silkweed
silkworm
silky
sill
sillabub
sillimanite
silly
silly season
silo
siloxane
silt
siltstone
silurid
sils
silvan
silver
silver age
silver bell
silver birch
silver bromide
silver certificate
silver chloride
silver fizz
silver foil
silver fox
silver frost
silver iodide
silver leaf
silver lining
silver maple
silver nitrate
silver plate
silver screen
silver standard
silver thaw
silver-eye
silver-plate
silver-tongued
silverfish
silvern
silverpoint
silverside
silversmith
silverware
silverweed
silverly
silviculture
simal
simar
simarouba
simaroubaceous
simba
simian
similar
similarity
simile
similitude
sinistrality
sinistrocular
sinistrodextral
sinistrorse
sinistrous
sink
sink in
sinkage
sinker
sinkhole
sinking
sinking fund
sinless
sinner
sinter
sinuate
sinuation
sinuosity
sinuous
sinus
sinusitis
sinusoid
sinusoidal
sinusoidal projection
sip
siphon
siphon bottle
siphonophore
siphonostele
sipper
sippet
sir
sir-reverence
sirdar
sire
siren
sirenic
siriasis
sirloin
sirocco
sirrah
sirree
sirup
sis
sisal
siskin
sissified
sissy
sister
sister-in-law
sisterhood
sisterly
sit
sit back
sit down
sit on
sit up
sit-down
sit-down strike
sit-in
sitar
site
sitology
sitter
sitting
sitting duck
sitting room
situate
situated
situation
situation comedy
situla
situs
sitz bath
sitzmark
six
six-eight time
six-footer
six-gun
six-pack
sixfold
sixpence
sixpenny
sixteen
sixteenmo
sixteenth
sixteenth note
sixth
sixth chord
sixth sense
sixtieth
sixty
sixty-four
sixty-fourmo
sixty-fourth note
sixty-nine
sizable
sizar
size
size up
sizeable
sized
sizing
sizzle
sizzler
sjambok
skald
skat
skate
skateboard
skater
skatole
skean
skean dhu
skedaddle
skeet
skeg
skein
skeleton
skeleton key
skellum
skelp
skep
skepful
skeptic
skeptical
skepticism
skerrick
skerry
sketch
sketchbook
sketchy
skew
skewback
skewbald
skewer
skewness
ski
ski jump
ski lift
ski pants
ski tow
ski troops
skiagraph
skiascope
skid
skid fin
skid row
skidproof
skidway
skied
skiff
skifflle
skiing
skijoring
skilful
skill
skill-less
skilled
skillet
skillful
skilling
skim
skim milk
skimmer
skimmia
skimp
skimpy
skin
skin diving
skin effect
skin flick
skin friction
skin graft
skin-deep
skin-dive
skinflint
skinhead
skink
skinned
skinny
skinny-dip
skintight
skip
skip distance
skip tracer
skip-bomb
skipjack
skiplane
skipper
skippet
skirl
skirling
skirmish
skirr
skirret
skirt
skirting
skit
skite
skitter
skittish
skittle
skive
skiver
skivvy
skulduggery
skulk
skull
skull and crossbones
skullcap
skunk
skunk cabbage
sky
sky blue
sky pilot
sky wave
sky-high
skycap
skydive
skyclack
skylark
skylight
skyline
skyscraper
skyscraper
skyscape
skyscraper
skyscraper
skyscraper
skyscraper
skyward
skyway
skywriting
slab
slabber
slack
slack suit
slack water
slack-jawed
slacken
slacker
sleave
sleazy
sled
sledge
sledgehammer
sleek
sleekit
sleep
sleep around
sleep with
sleeper
sleeping
sleeping bag
sleeping beauty
sleeping car
sleeping draught
sleeping partner
sleeping pill
sleeping sickness
sleepless
sleepwalk
sleepy
sleepyhead
sleet
sleety
sleeve
sleigh
sleight
sleight of hand
slender
slenderize
sleuth
sleuthhound
slew
slice
slice bar
slicer
slick
slickenside
slicker
slide
slide fastener
slide rule
slide trombone
slide valve
slide-action
slider
sliding
sliding scale
slier
sliest
slight
sighting
slightly
slily
slim
slime
slime mold
slimy
sling
sling psychrometer
slinger ring
slingshot
slink
slinky
slip
slip ring
slip stitch
slip up
slip-on
slipcase
slipcover
slipknot
slipnoose
slipover
slippage
slipper
slipperwort
slippery
slippery elm
slippy
slipsheet
slipshod
slipslop
slipstream
slipway
slit
slit trench
slither
sliver
slivovitz
slob
slob ice
slobber
slobery
slumberous
slungullion
slumlord
slump
slung
slung shot
slunk
slur
slurp
slurry
slush
slush fund
slushy
slut
sly
slype
smack
smack-dab
smacker
smacking
small
small arms
small beer
small calorie
small capital
small change
small circle
small fry
small hours
small intestine
small pica
small potatoes
small slam
small stores
small stuff
small talk
small-minded
small-scale
small-time
smallage
smalleclothes
smallish
smallmouth bass
smallpox
smallsword
smalt
smaltite
smalto
smaragd
smaragdine
smaragdite
smarm
smarmy
smart
smart aleck
smart money
smart set
smarten
smash
smash-and-grab
smash-up
smashed
smasher
smashing
smatter
smattering
smaze
smear
smear word
smearcase
smectic
smegma
smell
smelling bottle
smelling salts
smelly
smelt
smelter
smew
smidgen
smilacaceous
smilax
smile
smirch
smirk
smite
smith
smithereens
smithery
smithsonite
smithy
smitten
smock
smock frock
smock mill
smocking
smog
smoke
smoke bomb
smoke out
smoke screen
smoke tree
smoke-dry
smokechaser
smokejumper
smokeless
smokeless powder
smokeproof
smoker
smokestack
smoking
smoking car
smoking jacket
smoking room
smoko
smoky
smoky quartz
smolder
smolt
smoodle
smooth
smooth breathing
smooth muscle
smooth over
smooth plane
smooth-shaven
smooth-spoken
smooth-tongued
smoothbore
smoothen
smoothie
smoothing iron
smorgasbord
smote
smother
smothered mate
smoulder
smriri
smudge
smug
smuggle
smut
smutch
smutchy
smutty
snack
snack bar
snaffle
snafu
snag
snaggletooth
snaggy
snail
snail's pace
snail-paced
snailfish
snake
snake charmer
snake dance
snakebird
snakebite
snakemouth
snakeroot
snaky
snap
snap bean
snap ring
snap roll
snap up
snapback
snapdragon
snapper
snapping turtle
snappish
snappy
snapshot
snare
snare drum
snarl
snatch
snatch block
snatchy
snath
snazzy
sneak
sneak preview
sneak thief
sneakbox
sneaker
sneakers
sneaking
sneaky
sneck
sneer
sneeze
sneeze at
snick
snicker
snide
sniff
sniff at
sniff out
sniffle
sniffy
snifter
snigger
sniggle
snip
snipe
sniper
sniperscope
snippet
snippy
snips
snitch
snivel
snob
snobery
snobbish
snood
snook
snooker
snoop
snooperscope
snoopy
snoozy
snooze
snore
snorkel
snort
snorter
snot
snotty
snout
snout beetle
snow
snow blindness
snow bunting
snow fence
snow goose
snow ice
snow job
snow leopard
snow line
snow plant
snow-blind
snow-clad
snow-in-summer
snow-on-the-mountain
snow-white
snowball
snowberry
snowbird
snowblink
snowbound
snowcap
snowdrift
snowdrop
snowfall
snowfield
snowflake
snowman
snowmobile
snowplow
snowshed
snowshoe
snowslide
snowstorm
snowy
snowy egret
snowy owl
snub
snub-nosed
snuck
snuff
snuffbox
snuffer
snuffle
snuffy
snug
snuggery
snuggle
so
so long
so-and-so
so-called
so-so
soak
soakage
soap
soap bubble
soap powder
soapbark
soapberry
soapbox
soapstone
soapsuds
soapwort
soapy
soar
soaring
soave
sob
sob sister
sob story
sober
sober-minded
sober-sided
sobriety
sobriquet
socage
soccer
sociability
sociable
social
social anthropology
social class
social climber
social contract
social democracy
social disease
social insurance
social organization
social psychology
social science
social security
social service
social welfare
social work
social worker
social-minded
socialism
socialist
socialistic
socialite
sociality
sodium silicate
sodium sulfate
sodium thiosulfate
sodium-vapor lamp
sodomite
sodomy
soever
sofa
sofa bed
sofar
soft
soft chancre
soft clam
soft coal
soft drink
soft focus
soft goods
soft landing
soft palate
soft paste
soft pedal
soft rot
soft sell
soft shoulder
soft soap
soft spot
soft touch
soft wheat
soft-boiled
soft-cover
soft-finned
soft-pedal
soft-shell clam
soft-shell crab
soft-shelled turtle
soft-shoe
soft-spoken
softa
softball
soften
soften up
softener
softhearted
software
softwood
softy
soggy
soi-disant
soil
soil bank
soil conservation
soil pipe
soilage
soilure
soiree
sojourn
soke
sol
sol-fa
sol.
sola
solace
solan
solanaceous
solander
solano
solanum
solar
solar apex
solar battery
solar constant
solar day
solar eclipse
solar flare
solar month
solar plexus
solar system
solar wind
solar year
solarism
solarium
solarize
solatium
sold
solder
soldering iron
soldier
soldier of fortune
soldierly
soldiery
soldo
sole
solecism
solely
solemn
solemnity
solemnize
solenoid
solfatara
solfeggio
solferino
solicit
solicitor
solicitor general
solicitous
solicitude
solid
solid angle
solid fuel
solid geometry
solid-state
solid-state physics
solidago
solidarity
solidary
solidify
solidus
solifidian
solifluction
soliloquize
soliloquy
solipsism
solitaire
solitary
solitary confinement
solitude
solleret
solmization
solo
solo whist
soloist
solstice
solubility
solubilize
soluble
soluble glass
solus
solute
solution
solvable
solve
solvency
solvent
solvolysis
soma
somatic
somatic cell
somatist
somato-
somatoplasm
somatotype
somber
sombrero
sombrous
some
somebody
someday
somehow
someone
someplace
somersault
somerset
something
sometime
sometimes
someway
somewhat
somewhere
somewise
somite
sommelier
somnambulate
somnambulation
somnambulism
somnificient
somniferous
somniloquy
somnolent
son
son of a bitch
son-in-law
sonant
sonar
sonata
sonata form
sonatina
sonde
sone
song
song and dance
song cycle
song form
song sparrow
song thrush
songbird
songful
songster
songstress
songwriter
sonic
sonic barrier
sonic boom
sonic depth finder
sonic mine
sonics
soniferous
sonnet
sonnet sequence
sonnetteer
sonny
sonobuoy
sonometer
sonorant
sonority
sonorous
soon
sooner
soot
sooth
soothe
soothfast
soothsay
soothsayer
sooty
sop
sophism
sophist
sophister
sophistic
sophisticate
sophisticated
sophistication
sophistry
sophomore
sophrosyne
sopor
soporific
sopping
soppy
soprano
soprano clef
sora
sorb
sorbitol
sorbose
sorcerer
sorcery
sordid
sordino
sore
sore throat
soredium
sorehead
sorely
sorghum
sorgo
sori
soricine
sorites
sorn
sororate
sororicide
sorority
sorosis
sorption
sorrel
sorrel tree
sorrow
sorry
sort
sort out
sortie
sortilege
sortition
sorus
sostenuto
sostenuto pedal
sot
soteriology
sotted
sottish
sotto voce
sou
sou'wester
souari nut
soubise
soubrette
soubriquet
souffle
sough
sought
sought-after
soul
soul mate
soul-searching
soulful
soulless
sound
sound barrier
sound effect
sound film
sound hole
sound man
sound out
sound ranging
sound shift
sound truck
sound wave
soundboard
sounder
sounding
sounding board
sounding lead
sounding line
sounding machine
soundless
soundproof
soup
soup kitchen
soup plate
soup-and-fish
soupspoon
soupy
sour
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
source
source book
sourdine
sourdough
sow bug
sow thistle
sowens
sox
soy
soy sauce
soya bean
soybean
soybean oil
sp.
sp. ht.
spa
space
space capsule
space flight
space heater
space lattice
space medicine
space probe
space station
space suit
space writer
space-time
spaceband
spacecraft
spaced out
spaceless
spaceman
spaceport
spaceship
spacesuit
spacial
spacing
spacious
spade
spadefish
spadework
spadiceous
spadix
spae
spaetzle
spaghetti
spagyric
spahi
spake
spall
spallation
span
span loading
span-new
spancel
spandex
spandrel
spang
spangle
spaniel
spank
spanker
spanking
spanner
spar
spar buoy
spar deck
spare
sparerib
sparge
sparid
sparing
spark
spark chamber
spark coil
spark gap
spark plug
spark transmitter
sparker
sparkling plug
sparkle
sparkler
sparkling wine
sparks
sparling
sparoid
sparrow
sparrow hawk
sparrowgrass
sparry
sparse
spartaine
spasm
spasmotic
spastic
spat
spate
spathe
spathic
spathose
species
specific
specific gravity
specific impulse
specific resistance
specific volume
specification
specify
specimen
speciosity
specious
speck
speckle
speckled trout
specs
spectacle
spectacled
spectacles
spectacular
spectator
spectatress
specter
spectra
spectral
spectre
spectrochemistry
spectrogram
spectrograph
spectroheliograph
spectrohelioscope
spectrometer
spectrophotometer
spectroradiometer
spectroscope
spectroscopy
spectrum
spectrum analysis
specular
speculate
speculation
speculative
speculator
speculum
speculum metal
sped
speech
speech community
speech island
speech organ
speechless
speechmaker
speechmaking
speed
speed demon
speed limit
speed up
speedball
speedboat
speedometer
speedway
speedwell
 speedy
speiss
spelaean
speleology
spell
spell out
spellbind
spellbinder
spellbound
spelldown
speller
spelling
spelling bee
spelling book
spelling pronunciation
spelling reform
spelt
spelter
spelunker
spence
spencer
spend
spendable
spender
spending money
spendthrift
spent
speos
sperm
sperm oil
sperm whale
spermaceti
spermary
spermatic
spermatic cord
spermatic fluid
spermatid
spermatium
spermato-
spermatocyte
spermatogonium
spermatophore
spermatophyte
spermatozoid
spermatozoon
spermic
spermicide
spermine
spermiogenesis
spermogonium
spermophile
spermophyte
spermous
sperrylite
spessartite
spew
sphacelus
sphagnum
sphalerite
sphere
sphere of influence
spherical
spherical aberration
spherical angle
spherical coordinates
spherical geometry
spherical polygon
spherical trigonometry
sphericity
spherics
spheroid
spheroidal
spheroidicity
spherule
spherulite
spheury
sphincter
sphingosine
sphinx
sphinx moth
sphygmic
sphygmo-
sphygmograph
sphygmoid
sphygmomanometer
spic
spica
spicate
spiccato
spice
spiceberry
spicebush
spick-and-span
spiculate
spicule
spiculum
spicy
spider
spider crab
spider monkey
spider phaeton
spiderwort
spidery
spiegeleisen
spiel
spieler
spier
spiffing
spiffy
spigot
spike
spike heel
spike lavender
spikelet
spikenard
spiky
spile
spill
spill over
spillage
spillway
spilt
spin
spin out
spin-dry
spin-off
spinach
spinal
spinal canal
spinal column
spinal cord
spindle
spindle tree
spindlelegs
spindling
spindly
spindrift
spine
spinel
spinel ruby
spineless
spinescent
spinet
spiniferous
spinifex
spinnaker
spinnaker
spinning
spinning jenny
spinning wheel
spinode
spinose
spinous
spinster
spinthariscope
spinule
spiny
spiny anteater
spiny lobster
spiracle
spiraea
spiral
spiral galaxy
spiral staircase
spirant
spire
spirelet
spireme
spirillum
spirit
spirit level
spirit rapping
spirit writing
spirited
spiritism
spiritless
spiritoso
spirits of turpentine
spirits of wine
spiritual
spiritualism
spiritualist
spirituality
spiritualize
spiritualty
spirituel
spirituous
spiritus asper
spirketing
spiro-
spirochaetosis
spirochete
spirograph
spirogyra
spiroid
spirometer
spirt
spirula
spiry
spit
spit and polish
spit curl
spital
spitball
spite
spiteful
spitfire
spitter
spittle
spittle insect
spittoon
spitz
spiv
splanchnic
splanchnology
splash
splashboard
splashdown
splasher
splashy
splat
splatter
splay
splayfoot
spleen
spleenful
spleenwort
spleeny
splendent
splendid
splendiferous
splendor
splenectomy
splenetic
splenic
splenitis
splenius
splenomegaly
splice
spine
splint
splinter
splinter group
split
split decision
split personality
split second
split shift
split ticket
split up
split-level
splitting
splore
splotch
splurge
splutter
spodumene
spoil
spoilage
spoiler
spoilfive
spoils
spoils system
spoilsman
spoilsport
spoilt
spoke
spoken
spokeshave
spokesman
spokeswoman
spoliate
spoliation
spondaic
spondee
spondylitis
sponge
sponge bag
sponge bath
sponge cake
sponge cloth
sponge
sponger
spongin
sponging house
spongiblast
spongy
sponson
sponsor
spontaneity
spontaneous
spontaneous combustion
spontaneous generation
spontoon
spoof
spoofery
spook
spooky
spool
spoon
spoon-feed
spoonbill
spoondrift
spoonerism
spoonful
spoony
spoor
sporadic
sporangium
spore
sporocarp
sporocyst
sporocyte
sporogenesis
sporogonium
sporogony
sporophore
spree
sprig
sprightly
spring
spring balance
spring chicken
spring fever
spring line
spring tide
spring-clean
springboard
springbok
springe
springer
springer spaniel
springhalt
springhead
springhouse
springing
springlet
springtail
springtime
springwood
springy
sprinkle
sprinkler
sprinkler system
sprinkling
sprinkling can
print
sprit
sprite
spritsail
sprocket
sprout
spruce
spruce beer
spruce up
sprue
spruik
sprung
sprung rhythm
spry
spud
spue
spume
spumescent
spun
spun glass
spun rayon
spun yarn
spunk
spunky
spur
spur gear
spur wheel
spurge
spurious
spurn
spurrier
spurry
spurt
spurtle
sputnik
sputter
sputum
spy
spy out
spyglass
sq.
sqq.
squab
squabble
squad
squad car
squadron
squalene
squalid
squall
squall line
squally
squator
squama
squamation
squamosal
squamous
squamulose
squander
square
square away
square bracket
square dance
square deal
square foot
square inch
square kilometer
square knot
square leg
square matrix
square measure
square meter
square mile
square number
square off
square piano
square root
square sail
square shooter
square-rigged
square-rigger
squarely
squared
squa
squash bug
squash racquets
squashy
squat
squatness
squerter
squatting
squatting sovereignty
squaw
squawk
squeak
squeaky
squel
squeamish
squeegee
squeeze
squelch
squeatague
squib
squid
squiffy
squiggle
squiggle
squill
squinch
squint
squint-eyed
squinty
squire
squirearchy
squireen
squirm
stage left
stage manager
stage right
stage screw
stage whisper
stage-manage
stage-struck
stagecoach
stagecraft
stagehand
stagey
staggard
stagger
staggers
staghound
staging
staging area
stagnant
stagnate
stagy
staid
stain
stained glass
stainless
stainless steel
stair
stair rod
staircase
stairhead
stairs
stairway
stairwell
stake
stake race
stakeout
stalactite
stalag
stalagmite
stale
stalemate
stalk
stalking-horse
stalky
stall
stall-feed
stalling angle
stallion
stalwart
stamen
stamin
stamina
staminody
stammel
stammer
stamp
stamp mill
stamp out
stampede
stamping ground
stance
stanch
stanchion
stand
stand by
stand down
stand for
stand oil
stand on
stand out
stand over
stand pat
stand up
stand-in
stand-up
standard
standard cost
standard deviation
standard gauge
standard of living
standard time
standard-bearer
standardize
standby
standee
standfast
standing
standing army
standing broad jump
standing committee
standing lug
standing order
standing rigging
standing wave
standoff
standoffish
standpipe
standpoint
standstill
stane
stang
stanhope
stank
stannary
stannie
stannite
stannum
stanza
stapes
staphylo-
staphylococcus
staphyoplasty
staphylorrhaphy
staple
stapler
star
star anise
star cloud
star drill
star grass
star sapphire
star shell
star-crossed
star-nosed mole
star-of-Bethlehem
star-shaped
star-spangled
star-studded
starboard
starch
starchy
stardom
stare
starfish
starflower
stark
stark-naked
starlet
starlight
starlike
starling
starred
starry
starry-eyed
start
stationary
stationary engine
stationary wave
stationer
stationery
stationmaster
statism
statist
statistical
statistical mechanics
statistician
statistics
stative
statocyst
statolatry
statolith
stator
statuary
statue
statued
statuesque
statuette
stature
status
status quo
status symbol
statutable
statute
statute book
statute law
statute mile
statute of limitations
statutory
statutory rape
statvolt
staunch
staurolite
stave
stave off
staves
stay
stay-at-home
staying power
stays
staysail
std.
stead
steadfast
steading
steady
steady state
steak
steakhouse
steal
stealage
stealer
stealing
stealth
stealthy
steam
steam bath
steam engine
steam fitter
steam heat
steam heater
steam organ
steam point
steam room
steam shovel
steam turbine
steam up
steam whistle
steam-heated
steamboat
steamer
steamer chair
steamer rug
steamroller
steamship
steamtight
steamy
steapsin
stearic
stearic acid
stearin
stearoptene
steatite
steato-
steatopygia
stedfast
steed
steel
steel band
steel blue
steel engraving
steel guitar
steel mill
steel wool
steelhead
steelmaker
steels
steelwork
steelworker
steelworks
steelyard
steenbok
steep
steepen
steeple
steepelbush
steeplechase
steeplejack
steer
steerage
steerageway
steering committee
steering gear
steering wheel
steersman
steeve
stegodon
stegosaur
stein
steinbok
stela
stele
stellar
stellarator
stellate
stelliform
stellular
stem
stem turn
stemma
stemson
stemware
stench
stench bomb
stencil
steno-
stenograph
stenographer
stenography
stenopetalous
stenophagous
stenophyllous
stenosis
stenotype
stenotypy
stentor
stentorian
step
step down
step in
step rocket
step up
step-
step-up
stepbrother
stepchild
stepdame
stepdaughter
stepfather
stephanotis
stepladder
stepmother
stepparent
steppe
stepper
stepsister
stepson
ster.
steradian
stercoraceous
stercoricolous
sterculiaceous
stere
stereo
stereo-
stereobate
stereochemistry
stereochrome
stereochromy
stereogram
stereograph
stereography
stereoisomer
stereoisomerism
stereometry
stereophonic
stereophotography
stereopticon
stereoscope
stereoscopic
stereoscopy
stereotaxis
stereotomy
stereotropism
stereotype
stereotyped
stereotypy
steric
sterigma
sterilant
sterile
sterilization
sterilize
sterling
sterling silver
stern
stern sheets
stern-wheeler
sternforemost
sternmost
sternpost
sternson
sternum
sternutation
sternutatory
sternway
steroid
sterol
stertor
stertorius
stet
stethoscope
stevedore
stevedore's knot
stew
steward
stewardess
stewed
stewpan
stg.
stge.
sthenic
stibine
stibnite
stich
stichometry
stichomythia
stick
stick at
stick insect
stick out
stick to
stick together
stick-in-the-mud
sticker
sticking plaster
stickle
stickleback
stickler
stickpin
stickseed
sticktight
stickle
stiff
stiff-necked
stiffen
stile
stifling
stigma
stigmasterol
stigmatic
stigmatism
stigmatize
stilbestrol
stilbite
stile
stileto
still
still hunt
still life
still water
still-hunt
stillage
stillbirth
stillborn
stilliform
stillness
stilly
stilt
stilted
stimulant
stimulate
stimulative
stimulus
sting
stingaree
stinger
stinging hair
stinging nettle
stingo
stingy
stink
stink ball
stink bomb
stinker
stinkhorn
stinking
stinking smut
stinko
stinkpot
stinkstone
stinkweed
stinkwood
stint
stipe
stipel
stipend
stipendiary
stipitate
stipple
stipulate
stipulation
stipule
stir
stir up
stirk
stirpiculture
stirps
stirring
stirrup
stirrup cup
stirrup pump
stitch
stitching
stithy
stiver
stoa
stoat
stob
stochastic
stock
stock car
stock certificate
stock clerk
stock company
stock dividend
stock dove
stock exchange
stock farm
stock horse
stock in trade
stock market
stock option
stock raising
stock saddle
stock-still
stockade
stockbreeder
stockbroker
stockholder
stockinet
stocking
stocking cap
stockish
stockist
stockjobber
stockman
stockpile
stockroom
stocks
stocktaking
stocky
stockyard
stodge
stodgy
stogy
stoic
stoical
stoichiometric
stoichiometry
stoicism
stoke
stoke up
stokehold
stokehole
stoker
stole
stolen
stolid
stolon
stoma
stomach
stomach pump
stomach worm
stomachache
stomacher
stomachic
stomatal
stomastic
stomatites
stomata-
stomatology
stomodaeum
stone
stone curlew
stone fruit
stone parsley
stone proof
stone’s throw
stone-blind
stone-broke
stone-dead
stone-deaf
stonechat
stonecrop
stonecutter
stoned
stonefish
stonefly
stonemason
stonewall
stoneware
stonework
stonewort
stony
stony coral
stony-broke
stony-hearted
stood
stooge
stook
stool
stool pigeon
stoop
stop
stop bath
stop order
stop payment
stop work
stop-off
stopcock
stope
stopgap
stoplight
stopover
stoppage
stopped
stopped diapason
stopper
stopping
stopple
stopwatch
storage
storage battery
storax
store
store-bought
storehouse
storekeeper
storeroom
stores
storey
storied
storiette
stork
storm
storm center
storm cloud
storm cone
storm door
storm petrel
storm troops
storm warning
storm window
stormproof
stormy
stormy petrel
story
story line
storybook
storyteller
storytelling
straitlaced
strake
stramonium
strand
strange
strange particle
strangeness
stranger
strangle
stranglehold
strangles
strangulate
strangulation
strangury
strap
straphanger
strapless
strappado
strapped
strapper
strapping
strata
stratagem
strategic
strategist
strategy
strath
strathspey
strati-
straticulate
stratification
stratificational grammar
stratiform
stratify
stratigraphy
stratocracy
stratocumulus
stratopause
stratosphere
stratovision
stratum
stratus
straw
straw man
straw vote
straw wine
strawberry
strawberry blonde
strawberry bush
strawberry mark
strawberry tomato
strawberry tree
strawboard
strawflower
strawworm
stray
streak
streaky
stream
stream of consciousness
streamer
streaming
streamlet
streamline
streamlined
streamliner
streamway
streamy
street
street Arab
street certificate
street piano
streetcar
streetlight
streetwalker
strength
strengthen
strenuous
strep
streptitous
streptococcus
streptokinase
streptomycin
streptothricin
stress
stressful
stretch
stretcher
stretcher-bearer
stretchy
stretto
streusel
strew
stria
striate
striated
striation
strick
stricken
strickle
strict
striction
strictly
stricture
stride
strident
stridor
stridulate
stridulous
strife
strigil
strigose
strike
strike off
strike out
strike pay
strike up
strike zone
strikebound
strikebreaker
striker
striking
string
string along
string band
string bass
string bean
string line
string orchestra
string quartet
string tie
stringboard
stringed
stringed instrument
stringency
stringendo
stringent
stringer
stringhalt
stringpiece
stringy
strip
strip cropping
strip lighting
studio
studio couch
studious
study
stuff
stuff gown
stuffed
stuffed shirt
stuffing
stuffing box
stuffy
stull
stultify
stumble
stumbling block
stumer
stump
stumpage
stumper
stumpy
stun
stung
stunk
stunner
stunning
stunsail
stunt
stunt man
stupa
stupe
stupefacient
stupefaction
stupefy
stupendous
stupid
stupidity
stupor
sturdy
sturgeon
stutter
sty
style
stylet
styliform
stylish
stylist
stylistic
stylite
stylize
stylo-
stylobate
stylograph
stylographic
stylography
styloplum
stylus
stymie
stypsis
styptic
styraceous
styrax
styrene
suable
suasion
suave
suavity
sub
sub judice
sub rosa
sub-
subacid
subacute
subadar
subalpine
subaltern
subaltermate
subantarctic
subaeratic
subaqueous
subarctic
subarid
subassembly
subastral
subatomic
subaudition
subauricular
subaxillary
subbase
subbasement
subcartilaginous
subcelestial
subchaser
subchloride
subclass
subclavian
subclavius
subclimax
subclinical
subcommittee
subconscious
subcontinent
subcontract
subcontraoctave
subcortex
subcritical
subcutaneous
subdeacon
subdebutante
subdelirium
subdiaconate
subdivide
subdivision
subdominant
subdual
subduct
subdue
subdued
subedit
subeditor
subequatorial
suberic acid
suberin
subfamily
subfloor
subfusc
subgenus
subglacial
subgroup
subhead
subheading
subhuman
subinfeudate
subinfeudation
subirrigate
subito
subj.
subjacent
subject
subject matter
subjectify
subjection
subjective
subjective idealism
subjectivism
subjoin
subjoinder
subjugate
subjunction
subjunctive
subkingdom
sublapsarianism
sublease
sublet
sublieutenant
sublimate
sublimation
sublime
subliminal
sublimity
sublingual
sublittoral
sublunar
sublunary
submachine gun
submarginal
submarine
submarine chaser
submariner
submaxillary
submediant
submerge
submerged
submergible
submerse
submersed
submersible
submicroscopic
subminiature
subminiature camera
subminiaturize
submiss
submission
submitive
submit
submultiple
subnormal
suboceanic
suborbital
suborder
subordinate
subordinate clause
subordinating conjunction
suborn
suboxide
subphylum
subplot
subpoena
subprincipal
subreption
subrogate
subrogation
subroutine
subscapular
subscribe
subscript
subscription
subscription television
subsellium
subsequence
subsequent
subserve
subservience
subservient
subset
subshrub
subside
subsidence
subsidiary
subsidiary coin
subsidiary company
subsidize
subsidy
subsist
subsistence
subsistence allowance
subsistence farming
subsistent
subsocial
subsoil
subsoil plow
subsoil
subsonic
subsistence
substage
substance
substandard
substantial
substantialism
substantialize
substantiate
substantive
substation
substituent
substitute
substitution
substitutive
substrate
substratosphere
substratum
substructure
subsume
subsumption
subtangent
subteen
subtemperate
subtenant
subtend
subterfuge
subternatural
subterrane
subterranean
subtile
subtilize
subtitle
subtle
subtlely
subtonic
subtorrid
subtotal
subtract
subtraction
subtractive
subtractive process
subtractend
subtreasury
subtropical
subtropicals
subtype
subulate
suburb
suburban
suburbanite
suburbanize
suburbia
suburbicarian
subvene
sudd
sudden
sudden death
sudor
sudoriferous
sudorific
suds
sue
suede
suet
suet pudding
suffer
sufferable
sufferance
suffering
suffice
sufficiency
sufficient
suffix
sufflate
suffocate
suffragan
suffrage
suffragette
suffragist
suffruticose
suffumigate
suffuse
sugar
sugar apple
sugar beet
sugar bowl
sugar candy
sugar cane
sugar daddy
sugar loaf
sugar maple
sugar pine
sugar spoon
sugar-coat
sugared
sugarplum
sugary
suggest
suggestibility
suggestible
suggestion
suggestive
sui generis
sui juris
suicidal
suicide
suint
suit
suitable
suitcase
suite
suited
suiting
suitor
sukiyaki
sukkah
sulcate
sulcus
sulf-
sulfa
sulfaguanidine
sulfamerazine
sulfanilamide
sulfapyrazine
sulfapyridine
sulfate
sulfate paper
sulfate pulp
sulfathiazole
sulfatize
sulfide
sulfite
sulfonate
sulfonation
sulfonmethane
sulfur
sulfur dioxide
sulfuric
sulfuric acid
sulfurous
sulk
sulky
sullage
sullen
sully
sulph-
sulphanilamide
sulphate
sulphathiazole
sulphide
sulphonamide
sulphonate
sulphone
sulphur
sulphur-bottom
sulphurate
sulphuric
sulphurize
sulphurous
sulphuryl
sultan
sultana
sultanate
sultry
sum
sum and substance
sum total
sum up
sumac
sumach
summa
summa cum laude
summand
summarize
summary
summary court-martial
summation
summer
summer school
summer solstice
summer squash
summerhouse
summerly
summersault
summertime
summertree
summerwood
summit
summitry
summon
summons
summum bonum
sumo
sump
sumpter
sumption
sumptuary
sumptuary law
sumptuous
sun
sun bath
sun dance
sun deck
sun lamp
sun-dried
sun-god
sunbaked
sunbathe
sunbeam
sunbonnet
sunbow
sunbreak
sunburn
sunburst
sundae
sunder
sunderance
sundew
sundial
sundog
sundown
sundowner
sundries
sundry
sunfast
sunfish
sunflower
sung
sunglass
sunglasses
sunk
sunk fence
sunken
sunken garden
sunless
sunlight
sunlit
sunn
sunny
sunny side
sunny-side up
sunproof
sunrise
sunrise watch
sunroom
sunset
sunshade
sunshine
sunspot
sunstone
sunstroke
suntan
sunup
sunward
sunwise
suo loco
sup
super
super-
superable
superabound
superabundant
superadd
superaltur
superannuate
superannuated
superannuation
superb
superbomb
supercargo
supercharge
supercharger
supercilious
superclass
supercolumnar
superconductivity
supercool
superdominant
superdreadnought
superego
superelevation
supereminent
supererogate
supererogation
supererogatory
superfamily
superfecundation
superfetation
superficial
superficies
superfine
superfluid
superfluiy
superfluous
superfuse
supergalaxy
superheat
superheterodyne
superhigh frequency
superhighway
superhuman
superimpose
superimposed
superincumbent
superinduce
superintend
superintendency
superintendent
superior
superior court
superior planet
superiority
superiority complex
superjacent
superl.
superlative
superload
superman
supermarket
supermundane
supernal
supernatant
supernational
supernatural
supernaturalism
supernormal
supernova
supernumerary
superorder
superordinate
superorganic
superpatriot
superphosphate
superphysical
superpose
superposition
superpower
supersaturate
supersaturated
superscribe
superscription
supersede
supersedure
supersensible
supersensitive
supersensual
supersession
supersonic
supersonics
superstar
superstition
superstitious
superstratum
superstructure
superstructure deck
supertanker
supertax
supertonic
supervene
supervise
supervision
supervisor
supervisory
supinate
supination
supinator
supine
supp.
supper
supper club
supplant
supple
supplejack
supplement
supplemental
supplementary
supplementary angle
suppletion
suppletory
suppliant
supplicant
supplicate
supplication
supplicatory
supply
support
supportable
supporter
supporting
supportive
supportive therapy
supposal
suppose
supposed
supposing
supposition
suppositious
supposititious
suppositive
suppository
suppress
suppression
suppressive
suppressor grid
suppurate
suppuration
suppurative
supra
supra-
supralapsarian
supraliminal
supramolecular
supranational
supranatural
supraorbital
suprarenal
suprarenal gland
suprasegmental
supremacist
supremacy
supreme
supreme commander
sur-
surah
sural
surbase
surbased
surcease
surcharge
surcingle
surculose
surd
sure
sure thing
sure-footed
surefire
surely
surety
surf
surface
surface mail
surface noise
surface plate
surface structure
surface tension
surface-to-air
surface-to-surface
surfactant
surfbird
surfboard
surfboarding
surfboat
surfeit
surfing
surferch
surg.
surge
surgeon
surgeon general
surgeon's knot
surgeonfish
surgery
surgical
surgical needle
surgery
surgical needle
surmise
surmount
surmullet
surname
surpass
surpassing
surplice
surplus
surplusage
surprint
surprise
surprise party
surprising
surra
surrealism
surrebuttal
surrejoinder
surrender
surreptitious
surrey
surrogate
surround
surrounding
surroundings
sursum corda
surtax
surtout
surv.
surveillance
survey
surveying
surveyor
surveyor's chain
surveyor's compass
surveyor's level
surveyor's measure
survival
survive
survivor
susceptibility
susceptible
susceptive
sushi
suslik
suspect
suspend
suspended animation
suspend
suspendender
suspendender belt
suspense
suspense account
suspension
suspension bridge
suspensive
suspensoid
suspendor
sensory
suspicion
suspicious
suspiration
spire
sustain
sustainer
sustaining program
sustenance
swanherd
swank
swanky
swansdown
swanskin
swap
swaraj
sward
swarm
swarm spore
swart
swarth
swarthy
swash
swash letter
swashbuckler
swashbuckling
swastika
swat
swatch
swath
swathe
swats
swatter
sway
sway-back
swear
swear in
swear off
swearword
sweat
sweat gland
sweat out
sweat pants
sweat shirt
sweat suit
sweatband
sweatbox
sweated
sweater
sweater girl
sweatshop
sweaty
swede
sweeny
sweep
sweepback
sweeper
swoop
swoosh
swop
sword
sword bayonet
sword belt
sword cane
sword dance
sword grass
sword knot
sword lily
swordbill
swordcraft
swordfish
swordplay
swordsmen
swordtail
swore
sworn
swot
swound
swum
swung
sybarite
sycamine
sycamore
syce
sycee
syconium
sycophancy
sycophant
sycosis
syllabary
syllabi
syllabic
syllabify
syllabism
syllabize
syllable
syllabogram
syllabub
syllabus
syllepsis
syllogism
syllogistic
syllogize
sylph
sylphid
sylvan
sylvanite
sylviculture
sylvite
sym-
sym.
symbiosis
symbol
symbolic
symbolic logic
symbolical books
symbolics
symbolism
symbolist
symbolize
symbology
symmetrical
symmetrize
symmetry
sympathetic
sympathetic ink
sympathetic magic
sympathin
sympathize
sympathizer
sympathy
sympathy strike
sympetalous
symphonia
symphonic
symphonic poem
symphonious
symphonist
symphonize
symphony
symphony orchestra
symphysis
symplece
symposiac
symposiarch
symposium
symptom
symptomatic
symptomatology
synaeresis
synaesthesi
synagogue
synapse
synopsis
sync
syncarpous
synchro
synchro-
synchrocyclotron
synchroflash
synchronesh
synchronous
synchronism
synchronize
synchronous
synchronous converter
synchronous motor
synchroscope
synchrotron
synclastic
syncopate
syncopated
syncopation
syncope
syncretism
syncretize
syncretism
syncytium
synd.
syndactyl
syndesis
syndesmosis
syndetic
syndic
syndicalism
syndicate
syndrome
syne
synechoche
synegetic
syneiology
synecology
synecious
syneconics
syneresis
synergetic
synergism
synergist
synergistic
synergy
syngamy
syngamy
synod
t.b.
t.g.
ta
ta'en
tab
tab.
tabanid
tabard
tabaret	tabby	tabernacle	tabes	tabes dorsalis	tabescent	tablature	table	table d’hote	table linen	table talk	table tennis	table wine	tableau	tableau vivant	tablecloth	tableland	tablespoon	tablet	tableware	tabling	tabloid	taboo	tabor	taboret	tabret	tabu	tabula rasa	tabular	tabulate	tabulator	tace	tacet	tache	tachometer	tachina fly	tachistoscope	tacho-
tachograph	tachometer
tachycardia
tachygraphy
tachylyte
tachymetry
tachyphylaxis
tacit
taciturn	 taciturnity
tack
tack hammer
tacket
tackle
tackling
tacky
tacmahack
tacnode
taco
taconite	 tact	 tactful	 tactic	 tactical
tactical unit
tactician	 tactics
tactile	 taction	 tactless
tactual
tad
tadpole
tedium vitae	 tael	 taenia	 taeniacide	 taeniafuge	 taeniasis
taffeta
taffrail
taffy	 tafia
tag
tag end
tagliatelle
tagmeme
tagmemic
tagmemics
tahr
takin
taking
talapoin
talaria
talc
talcum powder
tale
talebearer
talent
talented
taler
tales
talesman
taliegrade	alion
taliped	alipes	alisman	alk
talk about
talk back
talk down
talk into
talkathon	alkative	alkfest	alkie	alking book
talking picture
talking-to	alky
tall	all oil	allage
tallboy	allith	allow	allowy	ally	ally sheet	allyho	allyman	alon	aluk	alus	am	am-o'-shanter	am-tam
tamable
tamale
tamandua
tamarrack
tamarau
tamarin
tamarrind
tamarrisk
tamasha
tambac
tambour
tamboura
tambourin
tambourine	
tame
tameless	
tamis	
tammy
tamp
tamber
tampon
tan	
tana

tanager
tanbark
tandem
tandem bicycle
tang
tangelo
tangency	
tangent
tangential
tangerine
tangible
tangle
tangleberry
tangled
tango
tangram
tangy
tanh

tank
tank car
tank farming
tank top
tank up
tanka
tankage
tankard
tanked
tanker
tannage
tannate
tanner
tannery
tannic
tannic acid
tannin
tanning
tansy
tant mieux
tant pis
tantalate
tantalic
tantalic acid
tantalite
tantalize
tantalizing
tantalous
tantalum
tantamount
tantara
tantivy	anto
tantrum
tap
tap dance
tap water
tap-dance
tape
tape deck
tape grass
tape machine
tape measure
tape recorder
tape recording
tape-record	aper
tapestry
tapetum
tapeworm
taphole
taphouse	apioca	apir
tapis
tartrazine
tarweed
tasimeter
task
task force
taskmaster
taskwork	
tass
tasse
tassel		
tasset
taste
taste bud	
tasteful		
tasteless
taster	
tasty
tat
tater
tatouay
tatter
tatterdemalion	
tattered
tatting
tattle
tattler
tattletale
tattoo
tatty
tau	
tau cross


taxed
taunt

taupe
taurine
tauro-
tauromachy

taut
tauten

tauto-
tautog

tautologism
tautologize
tautology

tautomer

tautomerism

tautonym

tavern
teaching elder
teaching fellow
teacup
teahouse
tek
.teakettle
.teakwood
.teal
team
team spirit
teammate
teamster
.teamwork
.teapot
tear
tear down
tear gas
tear into
tear off
tear-jerker
tearful
tearing
tearoom
tears
tear
tear
.tease
tease
teadel
tearer
tea spoon
teat
teatime
teatel
tech.
.technetium
tecnici
.technical
.technical knockout
.technical sergeant
.technicality
.technician
.technics
.technique
.techno-
technocracy
.technology
.techy
tectonic
tectonics
<table>
<thead>
<tr>
<th>Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>telegraphone</td>
</tr>
<tr>
<td>telegraphy</td>
</tr>
<tr>
<td>telekinesis</td>
</tr>
<tr>
<td>telemark</td>
</tr>
<tr>
<td>telemechanics</td>
</tr>
<tr>
<td>telemeter</td>
</tr>
<tr>
<td>telemetry</td>
</tr>
<tr>
<td>telemotor</td>
</tr>
<tr>
<td>telencephalon</td>
</tr>
<tr>
<td>teleology</td>
</tr>
<tr>
<td>teleost</td>
</tr>
<tr>
<td>telepathist</td>
</tr>
<tr>
<td>telepathy</td>
</tr>
<tr>
<td>telephone</td>
</tr>
<tr>
<td>telephone booth</td>
</tr>
<tr>
<td>telephone directory</td>
</tr>
<tr>
<td>telephone pole</td>
</tr>
<tr>
<td>telephone receiver</td>
</tr>
<tr>
<td>telephonic</td>
</tr>
<tr>
<td>telephonist</td>
</tr>
<tr>
<td>telephony</td>
</tr>
<tr>
<td>telephoto</td>
</tr>
<tr>
<td>telephoto lens</td>
</tr>
<tr>
<td>telephotography</td>
</tr>
<tr>
<td>teleplay</td>
</tr>
<tr>
<td>teleprinter</td>
</tr>
<tr>
<td>teleran</td>
</tr>
<tr>
<td>telescope</td>
</tr>
<tr>
<td>telescopic</td>
</tr>
<tr>
<td>telescopy</td>
</tr>
<tr>
<td>telesis</td>
</tr>
<tr>
<td>telespectroscope</td>
</tr>
<tr>
<td>telesthesia</td>
</tr>
<tr>
<td>telestich</td>
</tr>
<tr>
<td>telethermometer</td>
</tr>
<tr>
<td>telethon</td>
</tr>
<tr>
<td>typewriter</td>
</tr>
<tr>
<td>teleutospore</td>
</tr>
<tr>
<td>teleview</td>
</tr>
<tr>
<td>televisive</td>
</tr>
<tr>
<td>television</td>
</tr>
<tr>
<td>telesisor</td>
</tr>
<tr>
<td>telex</td>
</tr>
<tr>
<td>telfer</td>
</tr>
<tr>
<td>telic</td>
</tr>
<tr>
<td>teliospore</td>
</tr>
<tr>
<td>telium</td>
</tr>
<tr>
<td>tell</td>
</tr>
</tbody>
</table>
tell apart
tell off
teller
telling
telltale
tellurate
tellurian
telluric
telluride
tellurion
tellurite
tellurium
tellurize
telly
tel-
telophase
telpher
telpherage
telson
temblor
temerity	
temp.
temper
tempera
temperament
temperamental
temperance
temperate
temperate zone
temperature
temperature gradient
temperature-humidity index	tempered
tempest
tempestuous
tempi
template
temple
templet
tempo
temporal
temporal bone
temporal lobe
temporary
temporize
tempt
temptation
tempting
temptress
tempura
tempus fugit
ten
ten-gallon hat
ten-strike
tenable
tenace
tenacious
tenaculum
tenaille
tenancy
tenant
tenant farmer
tenantry
tench
tend
tendance
tendency
tendentious
tender
tenderfoot
tenderhearted
tenderize
tenderloin
tendinous
tendon
tendril
tenebrific
tenebrous
tenement
tenesmus
tenet
tenfold
tenia
teniacide
teniafuge
tenne
tennis
tennis ball
tennis elbow
tenno
teno-
tenon
tenor
tenor clef
tenorite
tenorrhaphy
tenotomy
tenpenny
tenpin
tenpins
tenrec	ense
tensile
tensile strength
tensimeter
tensiometer
tension
tensity	ensive	ensor
tent
tent caterpillar
tent stitch
tentacle
tentage
tentation
tentative	ented	enter
tenterhook	enth
tentmaker
tenuis
tenuous
tenure
tenuto
teocalli
teosinte
teppee
tepfy
tephra
tephrite
tepid
tequila
ter-
ter.
tera-
terat-
teratism
teratogenic
teratoid
terzetto
tesla
tessellate
tessellated
tessellation
tessera
tessitura
test
test case
test paper
test pattern
test pilot
test tube
testa
testaceous
testament
testamentary
testate
testator
testee
tester
testes
testicle
testify
testimonial
testimony
testis
teston
testosterone
testudinal
testudo
testy
tetanic
tetanize
tetanus
tetany
tetartohedral
tetchy
teth	ether	etherball
tetra
tete-
tetrabasic	etabrach
tetabranchiate	tetracaine
tetrachloride
tetrachord
tetracycline
tetrad
tetradymite
tetraethyl lead
tetrafluoroethylene
tetragon
tetragonal
tetragram
tetrahedral
tetrahedron
tetralogy
tetrameter
tetramethyl diarsine
tetraploid
tetrapod
tetrapody
tetrapterous
tetrarch
tetraspore
tetra static

tetrasichous
tetrasyllable
tetrametric
tetralent
tetrode
tetroxide
tetryl
tetter
text
text hand
textbook
textile
textual

textual criticism
textualism
textualist
textuary

texture
thalamencephalon
thalamus
thalassic
thalassography
thaler
thalidomide
thallic
thallium
thallophyte
then
thenar
thence
thenceforth
thenceforward
theo-
theocentric
theocracy
theocrasy
theodicy
theodolite
theogony
theol.
thelogian
theological
theological virtues
theologize
theologue
theology
theomachy
theomancy
theomania
theomorphic
theophany
theophylline
theorbo
theorem
theoretical
theoretician
theoretics
theorist
theorize
theory
theory of games
theosophy
therapeutic
therapeutics
therapist
therapsid
therapy
there
thereabout
thereabouts
thereafter
thereat
thereby
therefor
therefore
therefrom
therein
thereinafter
thereinto
thereof
thereon
thereto
thereupon
therewith
therewithal
therianthropic
term
thermae
thermaesthesia
thermal
thermal barrier
thermal conductivity
thermal efficiency
thermal spring
thermel
thermic
thermion
thermionic
thermionic current
thermionic emission
thermionic tube
thermionic valve
thermionics
thermistor
thermo-
thermobarograph
thermobarometer
thermochemistry
thermocline
thermocouple
thermodynamic
thermodynamics
thermoelectric
thermoelectric effect
thermoelectricity
thermoelectrometer
thermogenesis
thermograph
thermography
thermolabile
thermoluminescence
thermoluminescent
thermolysis
thermomagnetic
thermometer
thermometry
thermomotor
thermonuclear
thermonuclear bomb
thermonuclear reaction
thermophone
thermople
thermoplastic
thermoscope
thermosetting
thermosiphon
thermosphere
thermostat
thermostatics
thermotaxis
thermotensile
thermotherapy
theroid
theropod
thesaurus
these
thesis
thespian
theta
thetic
theurgy
thew
they
they'd
they're
they've
thi-
thiamine
thiazine
thiazole
thick
thick-knee
thick-skinned
thick-witted
thicken
thickening
thicket
thickhead
thickleaf
thickness
thickset
thief
thieve
thievery
thievish
thigh
thighbone
thigmotaxis
thigmotropism
thill
thimble
thimbleful
thimbleng
thimbleweed
thimerosal
thin
thin-skinned
thine
thing
thingumabob
thingumajig
think
think out
think over
think up
thinkable
thinker
thinking
thinner
thinnish
thiocyanic acid
thiol
thionate
thionic
thiosinamine
thiouracil
thiourea
third
third class
third degree
third dimension
third estate
third eyelid
third man
third mate
third party
third person
third rail
third reading
third-degree
third-degree burn
third-rate
thirlage
thirst
thirsty
thirteen
thirteenth
thirtieth
thirty
thirty-eight
thirty-one
thirty-second note
thirty-second rest
thirty-three
thirty-two
thirty-twomo
this
thistle
thistledown
thistly
thither
thitherto
tho
thole
tholos
thong
thoracic
thoracic duct
thoraco-
thoracoplasty
thoracotomy
thorax
thoria
thorianite
thorite
thorium
thorium series
thorn
thorn apple
thorny
thoron
thorough
thorough bass
thoroughbred
thoroughfare
three-quarter
three-quarter nelson
three-quarter time
three-ring circus
three-square
three-wheeler
threefold
threepence
threepenny bit
threescore
threesome
threemmatology
threnode
threnody
threonine
thresh
thresh out
thresher
threshing machine
threshold
threw
thrice
thrift
thriftless
thrifty
thrill
thriller
thrilling
thrippence
thrips
thrive
throat
throat microphone
throaty
throb
throe
throes
thrombin
thrombo-
thrombocyte
thromboembolism
thrombokinase
thrombophlebitis
thromboplastic
thromboplastin
thrombosis
thrombus
throne
throne room
throng
throstle
throttle
through
through street
through-composed
throughout
throughput
throughway
throve
throw
throw about
throw off
throw out
throw over
throw together
throw up
throwaway
throwback
thrower
throwing stick
thrown
thrum
thrush
thrust
thrust bearing
thrust fault
thruster
thruway
thud
thug
thuggee
thuja
thulium
thumb
thumb index
thumbnail
thumbprint
thumbs-down
thumbscrew
thumbstall
thumbtack
thump
thumping
thunder
thunderbolt
thunderclap
ticket
ticking
tickle
tickler
tickler coil
ticklish
ticktack
ticktock
tidal
tidal basin
tidal wave
tidbit
tiddly
tiddlywinks
tide
tide gate
tide over
tide table
tideland
tidemark
tidewaiter
tidewater
tideway
tidings
tidy
tie
tie beam
tie line
tie rod
tie-in
tie-up
tieback	ied
tiemannite	ier
tierce
tierge de Picardie	iercel	iff	iffin	tiger	tiger beetle	tiger cat	tiger lily	tiger moth	tiger shark	tiger snake	tiger's-eye
time clock
time constant
time deposit
time discount
time draft
time exposure
time immemorial
time loan
time lock
time money
time of day
time sharing
time sheet
time signal
time signature
time study
time zone
time-consuming
time-honored
time-lag
time-lapse photography
time-out
timecard
timekeeper
timeless
timely
timeous
timepiece
timepleaser	
timer
timeserver
timetable
timework
timeworn
timid
timing
timocracy
timorous
timothy
timpani
tin
tin can
tin god
tin hat
tin lizzie
tin soldier
tinamou
tincal
tinct
tinct.
tinctorial
tincture	tinder
tinderbox	tine
tinea	tineid	tinfoil
ting	ting-a-ling	tinge	tingle	tingly	tinhorn	tinker	tinkle
tinkling	tinned	tinner
tinnitus	tinny	tinsel	tinsmith	tinstone
tint
tintinnabulation	tintinnabulum	tintometer
tintype
tinware
tinworks	tiny
tip	tip-top
tipcat	tipi
tipper	tippet	tipple
tippler	tipstaff	tipster
tipsy	tipsy cake
tiptoe
tiptop
toga virilis
together
togetherness
toggery
toggle
toggle joint
toggle switch
togs
tohubohu
toil
toile
toilet
toilet paper
toilet set
toilet water
toiletry
toilette
toisome
toilworn
tokay
token
token payment
tokenism
tokoloshe	ola
tolan
tolbooth
tolbutamide
told
tole	tolerable	tolerance	tolerant	tolerate	toleration	tolidine
toll
toll bridge
toll call
toll road
tollbooth	toligate	tolhouse	tolly
tolu
toluate	toluene	toluic acid
toluidine
toluol
tolyl
tom
tom-tom
tomahawk
tomato
tomb
tombac
tombola
tombolo
tomboy
tombstone
tomcat
tome
tomfool
tomfoolery
tommyrot
tomorrow
tompion
tomtit
ton
tonal
tonality
tone
tone arm
tone control
tone deafness
tone down
tone language
tone poem
tone up
tone-deaf
toneless
toneme
tonetic
tong
tonga
tongs
tongue
tongue depressor
tongue twister
tongue-and-groove joint
tongue-lash
tongue-lashing
tongue-tied
tonguing
tonic
tonic accent
tonic sol-fa
tonic spasm
tonicity
tonight
tonnage
tonne
tonneau
tonometer
tonsil
tonsillectomy
tonsillitis
tonsillotomy
tonsorial
tonsure
tontine
tonus
tony	too
toodle-oo
took
tool
tool steel
tooling
toolmaker	toot
tooth
tooth and nail
tooth powder
tooth shell
toothache
toothache tree
toothbrush
toothed
toothed whale
toothless
toothlike
toothpaste
toothpick
tothsome
toothwort
toothy	tootle
toots
tootsy
top
top banana
top boot
top dog
top dressing
top hat
top off
top out
top-drawer
top-dress
top-heavy
top-hole
top-level
top-notch
topaz
topazolite
topcoat
tope
topee
toper
topflight
topfull
topgallant
topgallant mast
topgallant sail
tophus
topi
topic
topic sentence
topical
topknot
topless
toplofty
topmast
topminnow
topmost
topnotch
topo-
topo-
topog.
topographer
topography
topological group
topological space
topology
toponym
toponymy
topotype
topper
topping
topping lift
topple
tops
topsail
topside
topsoil
topsy-turvy
topsy-turvydom
toque
tor
torbernite
torch
torch song
torchbearer
torchier
torchon lace
torchwood
tore
toreador
toreador pants
torero
toreutic
toreutics
toric lens
torii
torrent
torrentil
torrentor
torn
tornado
tornado lantern
torose
torpedo
torpedo boat
torpedo tube
torpedo-boat destroyer
torpedoman
torpid
torpor
torque
torque converter
torque wrench
torques
torr
torrefy	orrent
torrential
torrid	torse
torsi
torsibility
torsion
torsion bar
torsk
toro
tort
tort-feasor
torticollis
tortile
tortilla
tortious
tortoise
tortoise-shell
tortoni
tortricid
tortuosity
tortuous
torture
torus
tosh	oss
toss off
tosspot
tot
total
total depravity
total eclipse
total recall
totalitarian
totalitarianism
totality
totalizator
totalizer
totally
totaquine	ote
tote bag
totem
totem pole
totemism
tother	oting
totipalmate
totter	ottering
toucan	ouch
touch and go
touch football
touch off
touch system
touch-and-go
touch-me-not
touchback
touchdown
touched
touchhole
touching
touchline
touchstone
touchwood
touchy
tough
tough-minded
toughen
toughie
toupee
tour
tour de force
touraco
tourbillion
tourer
touring car
tourism
tourist
touristy
tourmaline
tournament
tournedos
tourney
tourniquet
tous-les-mois
tousle
tout
tout de suite
tout ensemble
tout le monde
touter
touzle
tow
tow car
tow truck
tow-haired
towage
toward	owardly
tracer
tracer bullet
tracery
trachea
tracheid
tracheitis
tracheo-
tracheostomy
tracheotomy
trachoma
trachyte
trachytic
tracing
tracing paper
track
track down
track meet
track shoe
track-and-field
tracking station
trackless
trackless trolley
trackman
tract
tractable
tractate
tractile
traction
traction engine
tractor
trade
trade acceptance
trade book
trade discount
trade name
trade on
trade route
trade school
trade secret
trade union
trade unionist
trade wind
trade-in
trade-last
trademark
trader
tradescantia
tradesfolk
tradesman
tradespeople
tradeswoman
trading post
tradition
traditional
traditional logic
traditionalism
traditor
traduce
traffic
traffic circle
traffic court
traffic light
traffic pattern
trafficator
tragacanth
tragedian
tragedienne
tragedy
tragic
tragic flaw
tragicomedy
tragopan
tragus
trail
trailblazer
trailer
trailer camp
trailer truck
trailing arbutus
trailing edge
train
trainband
trainbearer
trained nurse
trainee
trainer
training
training school
trainload
trainman
traipse
trait
traitor
traitorous
traitect
trajectory
transferor
transfiguration
transfigure
transfinite
transfinite number
transfix
transform
transformation
transformational grammar
transformer
transformism
transfuse
transfusion
transgress
transgression
tranship
transhumance
transience
transient
transient
transilluminate
transistor
transistorize
transit
transit circle
transit instrument
transit theodolite
transition
transition element
transitive
transitory
transl.
translatable
translate
translation
translative
translator
transliterate
translocate
translocation
translucent
translucid
translunar
transmarine
transmigrant
transmigrate
transmissible
transmission
transmission line
transmit
transmittal
transmittance
transmitter
transmogrify
transmontane
transmundane
transmutation
transmute
transnational
transoceanic
transom
transonic
transonic barrier
transp.
transpacific
transpadane
transparency
transparent
transpicuous
transpierce
transpire
transplant
transpolar
transponder
transpontine
transport
transportation
transported
transporter bridge
transposal
 transpose
 transposing instrument
 transposition
 transshipment
 transsonic
 transubstantiate
 transubstantiation
 transudate
 transudation
 transude
 transvalue
 transversal
 transverse
 transverse process
 transverse wave
 transvestite
trap
door
trap-door spider
trapan
trapes
trapeze
trapeziform
trapezium
trapezius
trapezohedron
trapezoid
trapper
trappings
traprock
traps
trapshooting
trash
trash can
trashy
trass
trattoria
trauma
traumatism
traumatize
travail
trave
tavel
tavel agency
tavel agent
traveled
traveler
traveling bag
traveling salesman
travelled
traveller
traverse
travertine
travesty
trawl
trawler
tray
treacherous
treachery
treacle
tread	
treadle	
treadmill

treason
treasonable
treasonous
treasure
treasure house
treasure hunt
treasure trove
treasure-house
treasurer
treasury
treasury bill
treasury bond
treasury certificate
treasury note
treat
treatise
treatment		
treaty
treaty port
treble
treble clef
trebuchet
tredicillion
tree
tree creeper
tree farm
tree fern
tree frog
tree heath
tree kangaroo
tree of heaven
tree of knowledge of good and evil
tree of life
tree shrew
tree sparrow
tree surgery
tree swallow
tree toad
treed
treehopper
treen
treenail
treenware
tref	
trefoil
trehala
trehalose
treillage
trek
trellis
trelliswork
trematode
tremble
trembles
trembly
tremendous
tremolant
tremolite
tremolo
tremor
tremulant
tremulous
trenail
trench
trench coat
trench fever
trench foot
trench knife
trench mortar
trench mouth
trench warfare
trenchant
trencher
rencherman
trenching plane
trend
trente et quarante
trepan
tre pang
trephine
trepidation
treponema
tres pass
tress
tressure
trestle
trestle table
trestlework	tret
trews
trey
tri-
triable
triacid
triad
triadelphous
triage
trial
trial and error
trial balance
trial balloon
trial run
triangle
triangular
triangulate
triangulation
triarchy
triatomic
triaxial
triazine
tribade
tribadism
tribal
tribalism
tribasic
tribe
tribesman
triboelectricity
triboluminescence
triboluminescent
tribrach
tribromoethanol
tribulation
tribunal
tribunate
tribune
tributary
tribute
trice
triceps
triceratops
trichiasis
trichina
trichinize
trichinosis
trichite
trichloride
trichloroethylene
trichloromethane
trichlorophenoxyacetic acid
tricho-
trichocyst
trichoid
trichology
trichome
trichomonad
trichomoniasis
trichosis
trichotomy
trichroism
trichromat
trichromatic
trichromatism
trick
trick out
trickery
trickish
trickle
trickle charger
trickster
tricky
triclinic
triclinium
tricolor
tricorn
tricornered
tricostate
tricot
tricotine
tricrotic
trictrac
tricuspid
tricycle
tricyclic
tridactyl
trident
tridimensional
tricicious
tried
triennial
triennium
trier
trierarch
trifacial
trifid
trifle
trifling
trifocal
trifocals
trifoliate
trifolium
triforium
triform
trifurcate
trig
trig.
trigeminal
trigeminal nerve
trigeminal neuralgia
trigger
trigger-happy
triggerfish
triglyceride
triglyph
trigon
trigonal
trigonometric function
trigonometry
trigonous
trigraph
trihedral
trihedron
trihydric
triiodomethane
trike
trilateral
trilateration
trilby
trilemma
trilinear
trilingual
triliteral
trill
trillion
trillium
trilobate
trilobite
trilogy
trim
trim size
trim tab
trimaran
trimer
trimerous
trimester
trimetallic
trimeter
trimetric
trimetric projection
trimetrogon
trimly
trimmer
trimming
trimolecular
trimorphism
trinal
trinary
trine
trinitrobenzene
trinitroresol
trinitroglycerin
trinitrophenol
trinitrotoluene
trinity
trinket
trinomial
trio
triode
trioecious
triolein
triolet
trioxide
trip
tripalmitin
triparted
tripartite
tripartition
tripe
tripetal
tripersonal
tripetalous
triphal
triphenylmethane dye
triphibious
triphthong
triphyllite
tripinnate
triplane
triple
triple bond
triple point
triple threat
triple time
triple-nerved
triplet
tripletail
triplex
triplicate
triplicity
triploid
tripod
tripodic
tripody
tripoli
tripos
tripper
trippet
tripping
tripterous
triptych
triquetrous
trireme
trisaccharide
trisect
triserial
triskelion
trismus
trisectahedron
trisomic
triste
tristich
tristicious
trisyllable
tritanopia
trite
tritheism
tritium
triton
triturable
triturate
trituration
triumph
triumphal
triumphal arch
triumphant
triumvir
triumvirate
triune
trivalent
trivet
trivia
trivial
triviality
trivium
troat
trocar
tropism
tropo-
tropology
tropopause
tropophilous
troposphere
trot
troth
trothplight
trotline
trotter
trotting race
trotyl
trou-de-loup
troubadour
trouble
trouble spot
troubemaker
troublesome
troubulous
trough
trounce
troupe
trouper
trousers
trousseau
trout
trouvaille
trouveur
trove
trover
trow
trowel
troy
troy weight
truancy
truant
truce
truck
truck farm
truck system
truck trailer
truckage
trucker
trucking
trucking shot
truckle
truckle bed
trust territory
trustbuster
trustee
trusteeship
trustful
trusting
trustless
trustworthy
trusty
truth
truth serum
truth table
truth-function
truth-value
truthful
try
try square
trying
trying plane
tryma
tryout
trypanosome
trypanosomiasis
tryparsamide
trypsin
tryptophan
trysail
tryst
tsar
t sarevitch
t sarevna
t sarina
t sarism
tsetse fly
tsunami
tu quoque
tuatara
tub
tub chair
tuba
tubate
tubby
tube
tube foot
tubeless tire
tuber
tubercle
tubercle bacillus
tuyere
twaddle
twain
twang
twattle
twayblade
tweak
tweed	weedy	weeny
tweet
tweeter	 tweeze	 tweezer	 tweezers
twelfth	 twelve
twelve-mile limit
twelve-tone
twelve-tone row
twelvemo
twelvemonth
twentieth
twentieth	 twenty
twenty-four
twenty-fourmo
twenty-one
twenty-two
twerp
twibill
twice
twice-told
twiddle
twig
twiggy
twilight
twilight sleep
twilight zone
twill
twin
twin bed
twin bill
twin-lens reflex
twin-screw
twinberry
twine
twinfover
twinge
twink
twinkle
twinkling
twinned
twirl
twirp
twist
twist drill
twister
twit
twitch
twitter
twittery
two
two-bit
two-by-four
two-color
two-cycle
two-dimensional
two-edged
two-faced
two-four time
two-handed
two-part time
two-party system
two-phase
two-piece
two-ply
two-seater
two-sided
two-spot
two-step
two-time
two-tone
two-up
two-way
two-wheeler
twofold
twopence
twopenny
twosome
tycoon
tyg
tyling
tyke
tylosis
tymbal	ympan	ympanic
tympanic bone
tympanic membrane
tympanist
tympanites
tympanitis
tympanum
tympany
typ.
typal
type
type founder
type metal
type species
type specimen
type-high
typebar
typcase
typcast
typface
typscript
typeset
typesetter
typesetting
typwrite
typewriter
typewriting
typwritten
typhogenic
typhoid
typhoid fever
typhoon
typhus
typical
typify
typist
typo
typographer
typographical error
typography
typology
typw.
tyranical
tyranicide
tyranize
tyranosaur
tyranous
tyran
tyrant
ultraconservative
ultrafilter
ultrahigh frequency
ultraism
ultramarine
ultramicrochemistry
ultramicrometer
ultramicroscope
ultramicroscopic
ultramodern
ultramontane
ultramontanism
ultramundane
ultranationalism
ultrared
ultrasonic
ultrasonics
ultrasound
ultrastructure
ultraviolet
ultravirus
ululant
ululate
umbel
umbelliferous
umber
umbilical
umbilical cord
umbilicate
umbilication
umbilicus
umbel pie
umbles
umbra
umbrage
umbrageous
umbrella
umbrella bird
umbrella plant
umbrella tent
umbrella tree
umiak
umlaut
umpire
umpteen
un-
un-American
una corda
unabated
unable
unabridged
unaccompanied
unaccomplished
unaccountable
unaccounted-for
unaccompanied
unadvised
unaesthetic
unaffected
unalienable
unalloyed
unalterable
unaneled
unanimity
unanimous
unanswerable
unappealable
unapproachable
unapt
unarm
unarmed
unashamed
unasked
unassailable
unassuming
unattached
unattended
unavailing
unavoidable
unaware
unawares
unbacked
unbalance
unbalanced
unbar
unbated
unbearable
unbeatable
unbeaten
unbecoming
unbeknown
unbelief
unbelievable
unbeliever
unbelieving
unbelt
unbend
unbending
unbent
unbiased
unhidden
unbind
unblessed
unblinking
unblock
unblown
unblushing
unbodied
unbolt
unbolted
unboned
unbonnet
unborn
unbosom
unbound
unbounded
unbowed
unbrace
unbraid
unbreathed
unbridle
unbridled
unbroken
unbuckle
unbuild
unburden
unbutton
uncalled-for
uncanny
uncanonical
uncap
uncared-for
uncaused
unceasing
unceremonious
uncertain
uncertainty
uncertainty principle
unchain
unchancy
uncharitable
uncharted
unchartered
unchaste
unchristian
unchurch
uncial
unciform
uncinariasis
uncinate
uncinus
uncircumcised
uncircumcision
uncivil
uncivilized
unclad
unclasp
unclassical
unclassified
uncle
unclean
uncleanly
unclear
unclench
unclinch
uncloak
unclog
unclose
unclothe
uncoil
uncomfortable
uncommercial
uncommitted
uncommon
uncommonly
uncommunicative
uncompromising
unconcern
unconcerned
unconditional
unconditioned
unconformable
unconformity
unconnected
unconquerable
unconscionable
unconscious
unconsidered
unconstitutional
uncontrollable
unconventional
unconventionality
undercool
undercover
undercroft
undercurrent
undercut
underdeveloped
underdog
underdone
underdrawers
underestimate
underexpose
underexposure
underfeed
underfoot
underfur
undergarment
undergird
underglaze
undergo
undergraduate
underground
underground railroad
undergrown
undergrowth
underhand
underhanded
underhung
underlaid
underlay
underlayer
underlet
underlie
underline
underlinen
underling
underlying
undermanned
undermine
undermost
underneath
undernourished
underpainting
underpants
underpart
underpass
underpay
underpin
underpinning
undervalue
undervest
underwaist
underwater
underwear
underweight
underwent
underwing
underwood
underworld
underwrite
underwriter
undesigned
undesigning
undesirable
undetermined
undeviating
undies
undine
undirected
undistinguished
undo
undoing
undone
undoubted
undrape
undress
undressed
undue
undulant
undulant fever
undulate
undulation
undulatory
unduly
undying
unearned
unearned income
unearned increment
unearth
uneartily
uneasy
uneducated
unemployable
unemployed
unemployment
unemployment compensation
unending
unequal
unequaled
unequivocal
unerring
unessential
uneven
uneventful
unexacting
unexamplied
unexceptionable
unexceptional
unexpected
unexperienced
unexpressed
unexpressive
unfailing
unfair
unfaithful
unfamiliar
unfasten
unfathomable
unfavorable
unfeeling
unfeigned
unfetter
unfinished
unfit
unfix
unfledged
unfleshly
unflinching
unfold
unfolded
unforgettable
unformed
unfortunate
unfounded
unfreeze
unfrequented
unfriended
unfriendly
unfrock
unfruitful
unfurl
ungainly
ungenerous
unglue
ungodly
ungotten
ungovernable
ungraceful
ungracious
ungrateful
ungrounded
ungrudging
ungual
unguarded
unguent
unguentum
unguiculate
unguinous
ungula
ungulate
unhair
unhallow
unhallowed
unhand
unhandled
unhandsome
unhandy
unhappy
unharness
unhealthy
unheard
unheard-of
unhelm
unhesitating
unhinge
unhitch
unholy
unhook
unhoped-for
unhorse
unhouse
unhurried
uni-
uniaxial
unicameral
unicellular
unicorn
unicuspid
unicycle
unideaed
unidirectional
unific
unification
unifilar
uniflorous
unifoliate
unifoliolate
uniform
uniformed
uniformitarian
uniformity
uniformize
unify
unjugate
unilateral
unilingual
uniliteral
unilobed
unilocular
unimpeachable
unimposing
unimproved
uninhibited
uninspired
uninstructed
unintelligent
unintelligible
unintentional
uninterested
uninterrupted
uniocular
union
union jack
union shop
union suit
unionism
unionist
unionize
uniparous
unipersonal
uniplanar
unipod
unipolar
unique
uniseptate
unisexual
unison
unit
unit cell
unit character
unit cost
unit factor
unit price
unit trust
unitary
unitary matrix
unite
united
unitive
unity
univ.
univalence
univalent
univalve
universal
universal class
universal joint
universal motor
universal suffrage
universalism
universalist
universality
universalize
universally
universe
universe of discourse
university
university extension
univocal
unjaundiced
unjust
unkempt
unkenned
unkennel
unkind
unkindly
unknit
unknot
unknowable
unknowing
unknown
unlace
unlade
unlash
unlatch
unlawful
unlay
unlearn
unlearned
unleash
unleavened
unless
unlettered
unlicensed
unlike
unlikelihood
unlikely
unlimber
unlimited
unlisted
unlive
unload
unlock
unlooked-for
unloose
unloosen
unlovely
unlucky
unmade
unmake
unman
unmanly
unmanned
unmannered
unmannerly
unmarked
unmask
unmeaning
unmeant
unmeasured
unmeet
unmentionable
unmerciful
unmeriting
unmindful
unmistakable
unmitigated
unmixed
unmoor
unmoral
unmoved
unmoving
unmusical
unnuzzle
unnamed
unnatural
unnecessarily
unnecessary
unnerv
unnominated
unobtrusive
unoccupied
unofficial
unopened
unorganized
unorthodox
unpack
unpaged
unpaid
unpaid-for
unparalleled
unparliamentary
unpeg
unpen
unpeople
unpeopled
unperforated
unpile
unpin
unplaced
unpleasant
unpleasantness
unplug
unplumbed
unpolite
unpolitic
unpolled
unpopular
unpractical
unpracticed
unprecedented
unpredictable
unprejudiced
unpremeditated
unprepared
unpretentious
unpriced
unprincipled
unprincipled
unprintable
unproductive
unprofessional
unprofitable
unpromising
unprovided
unqualified
unquestionable
unquestioned
unquestioning
unquiet
unquote
unravel
unread
unreadable
unready
unreal
unreality
unrealizable
unreason
unreasonable
unreasoning
unreconstructed
unreel
unreeve
unrefined
unreflecting
unreflective
unregenerate
unrelenting
unreliable
unreligious
unremitting
unrepair
unreQUITed
unreserve
unreserved
unrest
unrestrained
unrestraint
unriddle
unrig
unrighteous
unripe
unrivaled
unrivalled
unrobe
unroll
unroof
unroot
unrounded
unruffled
unruly
unsaddle
unsaid
unsatisfactory
unsavory
unsay
unscathed
unschooled
unscientific
unscramble
unscratched
unscreened
unscrew
unscrupulous
unseal
unseam
unsearchable
unseasonable
unseasoned
unseat
unsecured
unseemly
unseen
unsegregated
unsellfish
unset
unsettle
unsettled
unsex
unshackle
unshakable
unshaped
unshapen
unsheath
unship
unshod
unshroud
unsightly
unskilled
unskilled labor
unskillful
unslin
unsnap
unsnarl
unsociable
unsocial
unsophisticated
unsought
unsound
unsparing
unspeakable
unspent
unsphere
unspoiled
unspoken
unspotted
unstained
unsteady
unsteel
unstep
unstick
unstop
unstoppable
unstopped
unstrained
unstrap
unstressed
unstring
unstriped
unstrung
unstuck
unstudied
unsubstantial
unsucces
 unsuccessful
 unsuitable
 unsung
 unsupportable
 unsure
 unsuspected
 unsuspecting
 unsustainable
 unswear
 unswerving
 untangle
 untaught
 unteach
 untenable
 unthankful
 unthinkable
 unthinking
 unthought-of
 unthread
 unthrone
 untidy
 untie
 until
 untimely
untinged
untitled
unto
untold
untouchability
untouchable
untouched
untoward
untraveled
untread
untried
untrimmed
untrue
untruth
untruthful
untuck
untune
untutored
untwine
untwist
unused
unusual
unutterable
unvalued
unvarnished
unveil
unveiling
unvoice
unvoiced
unwarrantable
unwarranted
unwary
unwashed
unwatched
unwearied
unweave
unweighed
unwelcome
unwell
unwept
unwholesome
unwieldy
unwilled
unwilling
unwind
unwinking
unwisdom
unwise
upland
upland cotton
upland plover
uplift
upmost
upon
upper
upper arm
upper atmosphere
upper case
upper chamber
upper class
upper crust
upper deck
upper hand
upper house
upper works
upper-case
upperclassman
uppercut
uppermost
uppish
uppity
upraise
uprear
upright
upright piano
uprise
uprising
uproar
uproarious
uproot
uprush
ups and downs
upset
upsetting
upshot
upside
upside down
upside-down cake
upsilon
upspring
upstage
upstairs
upstanding
upstart
upstate
upstream
upstretched
upstroke
upsurge
upsweep
upswing
upsy-daisy
uptake
upthrow
upthrust
uptown
uptrend
upturn
upturned
upward
upwards
upwind
ur-
uracil
uraemia
uraeus
uralite
uranalysis
uranic
uraninite
uranium
uranium 235
urano-
uranography
uranology
uranometry
uranous
uranyl
urban
urban renewal
urbane
urbanism
urbanist
urbanite
urbanity
urbanize
urbi et orbi
urceolate
urchin
urea
urease
uredium
uredo
ureide
uremia
ureter
urethra
urethrectomy
urethritis
urethroscope
uretic
urge
urgency
urgent
urger
ural
uric
uric acid
urinal
urinalysis
urinary
urinary bladder
urinate
urine
uriniferous
urn
urnfield
uro-
urochrome
urogenital
urogenous
urolith
urology
uropod
uropygial gland
uropygium
uroscopy
ursine
urticaceous
urticaria
urtication
urus
urushiol
us
usable
usage
usance
use
used
used to
useful
v.a.
v.d.
v.g.
v.i.
v.s.
v.v.
vacancy
vacant
vacate
vacation
vacationist
vaccinate
vaccination
vaccine
vaccinia
vacillate
vacillating
vacillation
vacillatory
vacua
vacuity
vacuole
vacuous
vacuum
vacuum bottle
vacuum cleaner
vacuum distillation
vacuum gauge
vacuum pump
vacuum tube
vade mecum
vadose
vagabond
vagabondage
vagal
vagarious
vagary
vagina
vaginal
vaginate
vaginectomy
vaginismus
vaginitis
vagrancy
vagrant
vagrom
vague
vagus
valueless
valuer
valval
valvate
valve
valve gear
valve trombone
valve-in-head engine
valvular
valvule
valvulitis
vambrace
vamoose
vamp
vampire
vampirism
van
van Eyck
van der Weyden
van't Hoff
vanadate
vanadic acid
vanadinite
vanadium
vanadous
vanda
vandal
vandalism
vandalize
vane
vang
vanguard
vanilla
vanillic
vanillin
vanish
vanishing cream
vanishing point
vanity
vanity case
vanquish
vantage
vantage ground
vantage point
vanward
vapid
vapor
vapor pressure
vapor tension
vapor trail
vaporescence
vaporetto
vaporific
vaporimeter
vaporizing
vaporish
vaporization
vaporize
vaporizer
vaporous
vapory
vaquero
var.
vara
vargueno
varia
variable
variable annuity
variable star
variance
variant
variate
variation
varicella
varicelloid
varices
varico-
varicocele
varicolored
varicose
varicose veins
varicotomy
varied
variegate
variegated
variegation
varietal
variety
variety meat
variety store
variform
variola
variole
variolite
varioloid
variolous
variometer
variorum
various
variscite
varistor
varitype
varix
varlet
varletry
varmint
varnish
varnish tree
varsity
varus
varve
vary
vas
vas deferens
vas-
vascular
vascular tissue
vasculum
vase
vasectomy
vaso-
vasoconstrictor
vasodilator
vasoinhibitor
vasomotor
vassal
vassalage
vassalize
vast
vastitude
vasty
vat
vat dye
vatic
vaticide
vaticinal
vaticinate
vaticination
vaudeville
vaudevillian
vault
vaulted
vaulting
vaunt
vaunt-courier
vaunting
vav
vb.
veal
veal cutlet
vector
vector field
vector sum
vedalia
vedette
veer
veery
veg
vegetable
vegetable butter
vegetable ivory
vegetable kingdom
vegetable marrow
vegetable oil
vegetable oyster
vegetable wax
vegetal
vegetarian
vegetarianism
vegetate
vegetation
vegetative
vehemence
vehement
vehicle
vehicular
veil
veiled
veiling
vein
veinlet
veinstone
veinule
vel.
velamen
velar
velarium
velarize
velate
veld
veliger
velites
venipuncture
venire facias
venireman
venison
venom
venomous
venose
venosity
venous
vent
ventage
ventail
venter
ventilate
ventilation
ventilator
ventose
ventral
ventral fin
ventricle
ventricose
ventricular
ventriculus
ventriloquism
ventriloquist
ventriloquize
ventriloquy
venture
venture capital
venturesome
venturous
venue
venule
veracious
veracity
veranda
veratridine
veratrine
verb
verb phrase
verbal
verbal noun
verbalism
verbality
verbalize
verbatin
verbena
verbenaceous
verbiage
verbid
verbify
verbose
verboten
verbam sap
verd antique
verdant
verderer
verdict
verdigris
verdin
verditer
verdure
verecund
verge
vergeboard
verger
veridical
verified
verify
verily
verisimilar
verisimilitude
verism
veritable
verity
verjuice
vermeil
vermicelli
vermicide
vermicular
vermiculate
vermiculation
vermiculite
vermiform
vermiform appendix
vermiform process
vermifuge
vermilion
vermin
vermination
verminous
vermis
vermouth
vermouth cassis
vernacular
very low frequency
vesica
vesical
vesicant
vesicade
vesicatory
vesicle
vesiculate
vesper
vesper sparrow
vesperal
vespers
vespertilionine
vespertine
vespiary
vespid
vespine
vessel
vest
vest-pocket
vesta
vestal
vestal virgin
vested
vested interest
vestiary
vestibule
vestige
vestigial
vesting
vestment
vestry
vestryman
vesture
vesuvian
vesuvianite
vet
vet.
vetch
vetchling
veteran
veterinarian
veterinary
veterinary medicine
vetiver
veto
vex
vexation
vexatious
vexed
vexillum
vi et armis
via
via media
viable
viaduct
vial
viand
viaticum
viator
vibes
vibraculum
vibracharp
vibrant
vibraphone
vibrate
vibratile
vibration
vibrations
vibrato
vibrator
vibratory
vibrio
vibrissa
viburnum
vicar
vicar forane
vicar general
vicarage
vicarial
vicariate
vicarious
vice
vice admiral
vice squad
vice versa
vice-chairman
vice-chancellor
vice-president
vice-regent
vicegerent
vicenary
vicennial
viceregal
vicereine
viceroy
vichy water
vichysoise
vicinage
vicinal
vicinity
vicious
vicious circle
vicissitude
victim
victimize
victor
victoria
victorious
victory
victory garden
victual
victualage
victualer
victualler
victuals
vide
videlicet
video
videogenic
vidette
vidicon
vie
view
viewable
viewer
viewfinder
viewing
viewless
viewpoint
viewy
vigesimal
vigil
vigil light
vigilance
vigilance committee
vigilant
vigilante
vigilantism
vignette
vigor
vigorous
vil.
vilayet
vile
vilify
vilipend
villa
village
villager
villain
villainage
villainous
villainy
villanelle
villein
villein socage
villeinage
cullenage
villiform
villose
voirosity
villous
villus
vim
vimen
vimineous
vin ordinaire
vin-
vina
vinaceous
vinaigrette
vinasse
vincible
vinculum
vindicable
vindicate
vindication
vindicative
vine
vind
vinegar
vinegar eel
vinegar fly
vinegarette
vinegarish
vinegarroon
vinegar
vinegar
vinengarde
vinegar
vinegar
vinery
vineyard
vingt-et-un
vinic
viniculture
viniferous
vinificator
vino
vinosity
vinous
vintage
vintage wine
vintager
vintner
vinyl
vinyl acetate
vinylidene
viol
viola
viola d'amore
viola da braccio
viola da gamba
violable
violaceous
violator
violation
violative
violence
violent
violet
violet ray
violin
violinist
violist
violoncellist
violoncello
violone
viosterol
viper
viper's bugloss
viperine
viperish
viperous
virago
viral
virelay
vireo
virescence
virescent
virga
virgate
virgin
virgin birth
virgin's-bower
virginal
virginity
virginium
virgulate
virgule
viridescent
viridian
viridity
virile
virilism
virility
virology
virtu
virtual
virtually
virtue
virtues
virtuosic
virtuosity
virtuoso
virtuous
virulence
virulent
virus
virus disease
vis major
visa
visage
viscacha
viscera
visceral
viscid
viscid
viscometer
viscose
viscosity
viscount
viscountcy
viscountess
viscounty
viscous
viscus
vise
visibility
visible
visible horizon
visible radiation
visible speech
vision
visional
visionary
visit
visitant
visitation
visiting card
visiting fireman
visiting nurse
visiting professor
visitor
visor
vista
visual
visual acuity
visual purple
visualize
visually
vita
vitaceous
vital
vital force
vital principle
vitalism
vitality
vitalize
vitals
vitamin
vitamin A
vitamin A2
vitamin B
vitamin B complex
vitamin B2
vitamin Bc
vitamin C
vitamin D
vitamin E
vitamin G
vitamin H
vitamin K
vitamin M
vitamin P
vitascope
vitellin
vitelline
vitellus
vitiate
vitiated
viticulture
vitiligo
vitrain
vitreous
vitreous silica
vitrescence
vitreous
vitric
vitrics
vitrification
vitriform
vitrify
vitrine
vitriol
vitriolic
vitriolize
vitta
vittle
vituline
vituperate
vituperation
viva
viva voce
vivace
vivacious
vivacity
vivarium
vive
vivid
vivify
viviparous
vivisect
vivisection
vivisectionist
vixen
viz.
vizard
vizcacha
vizier
vizierate
vizor
vo.
voc.
vocable
vocabulary
vocal
vocal cords
vocal folds
vocal score
vocalic
vocalise
vocalism
vocalist
vocalize
vocation
vocational
vocational education
vocative
vociferance
vociferant
vociferate
vociferation
vociferous
vocoid
vodka
vogue
voguish
voice
voice box
voice coil
voice part
voice vote
voiced
voiceful
voiceless
void
voidable
voidance
voile
voir dire
voiture
vol-au-vent
volant
volar
volatile
volatile oil
volatile salt
volatilize
volcanic
volcanic glass
volcanism
volcano
volcanology
vole
volitant
vortical
vorticella
votary
vote
voter
voting machine
votive
vouch
voucher
vouchsafe
vogue
vossoir
vow
vowel
vowelize
vox angelica
vox humana
vox populi
voyage
voyageur
voyeur
voyeurism
vraisemblance
vs.
vulcanism
vulcanite
vulcanize
vulcanology
vulg.
vulgar
vulgar fraction
vulgarian
vulgarism
vulgarity
vulgarize
vulgate
vulgus
vulnerable
vulnerary
vulpine
vulture
vulturine
vulva
vulvitis
vv.
vying
w
w.
w.b.
w.c.
w.f.
w.l.
w/o
wabble
wack
wacke
wacky
wad
wadding
waddle
wade
wader
wadi
wading bird
wadmal
wafer
waffle
waft
waffle
wadmal
wafer
waffle
waft
wadmal
wainscoting
wainwright
waist
waistband
waistcloth
waistcoat
waisted
waistline
wait
wait on
wait up
wait-a-bit
waiter
waiting game
waiting list
waiting room
waitress
waive
waiver
wake
wake-robin
wake-up
wakeful
wakeless
waken
wakerife
waldgrave
wale
walk
walk-in
walk-on
walk-through
walk-up
walkabout
walker
walkie-talkie
walking
walking delegate
walking fern
walking papers
walking stick
walkout
walkover
walkway
wall
wall fern
wall knot
wall pellitory
wall plate
wall rock
wall rocket
wall rue
wallaby
wallah
wallaroo
wallboard
walled plain
wallet
walleye
walleyed
wallflower
wallop
walloper
walloping
wallow
wallpaper
wally
walnut
walrus
waltz
waltz time
wamble
wame
wampum
wampumpeag
wan
wand
wander
wandering
wanderlust
wanderoo
wane
wangle
wanigan
waning moon
want
want ad
wantage
wanting
wanton
wapentake
wapiti
war
war baby
war bonnet
war bride
war correspondent
war crime
war cry
war dance
war footing
war game
war of nerves
war paint
war vessel
war whoop
war-horse
warble
warble fly
warbler
ward
ward heeler
ward off
warden
warder
wardmote
wardrobe
wardrobe trunk
wardroom
wardship
ware
warehouse
warehouseman
wareroom
wares
warfare
warfarin
warhead
warily
wariness
warison
warlike
warlock
warlord
warm
warm front
warm over
warm-blooded
warm-hearted
warm-up
warmed-over
warmhearted
warming pan
warmonger
warmongering
warmth
warn
warning
warp
warpath
warplane
warrant
warrant officer
warrantable
warrantee
warrantor
warranty
warren
warrener
warrigal
warrior
warship
warsle
wart
wart hog
warthog
wartime
warty
wary
was
wash
wash down
wash drawing
wash up
washable
washbasin
washboard
washbowl
washcloth
washday
washed up
washed-out
washed-up
washer
washerman
washerwoman
washery
washhouse
washin
washing
washing machine
washing powder
washing soda
washout
washrag
washroom
washstand
washtub
washwoman
washy
wasn't
wasp
wasp waist
waspish
wassail
wast
wastage
waste
waste pipe
wastebasket
wasteful
wasteland
wastepaper
wastepaper basket
wasting
wastrel
wat
watch
watch and ward
watch cap
watch chain
watch fire
watch night
watchband
watchcase
watchdog
watcher
watchful
watchmaker
watchman
watchtower
watchword
water
water back
water beetle
water bird
water blister
water boatman
water boy
water buffalo
water bug
water chestnut
water chinquapin
water clock
water closet
water cooler
water crake
water cure
water dog
water down
water flea
water gap
water gas
water gate
water gauge
water glass
water gum
water gun
water hammer
water hemlock
water hen
water hole
water hyacinth
water ice
water jacket
water jump
water lemon
water level
water lily
water line
water main
water meadow
water meter
water milfoil
water mill
water moccasin
water nymph
water ouzel
water ox
water parting
water pepper
water pimpernel
water pipe
water plantain
water plug
water pocket
water polo
water power
water purslane
water rail
water rat
water right
water scorpion
water shield
water snake
water softener
water spaniel
water sprite
water strider
water supply
water system
water table
water tower
water vapor
water wave
water wheel
water wings
water witch
water witching
water-cool
water-repellent
water-resistant
water-sick
water-soak
waterage
waterborne
waterbuck
watercolor
watercourse
watercraft
watercress
watered-down
waterfall
waterfowl
waterfront
wateriness
watering
watering can
watering place
watering pot
waterish
waterless
waterline
waterlog
waterlogged
waterman
watermark
watermelon
waterproof
waterscape
watershed
waterside
waterspout
watertight
waterway
waterworks
watery
watt
watt-hour
wattage
wattle
wattle and daub
wattmeter
wave
wave equation
wave front
wave function
wave mechanics
wave number
wave theory
wave train
wavelength
wavelet
wavellite
wavemeter
waver
wavy
wax
wax bean
wax flower
wax insect
wax myrtle
wax paper
waxbill
waxed paper
waxen
waxing moon
waxplant
waxwing
waxwork
waxy
way
way train
waybill
wayfarer
wayfaring
wayfaring tree
waylay
wayless
ways
ways and means
wayside
wayward
wayworn
wayzgoose
wd.
we
we're
we've
weak
weak sister
weak-kneed
weak-minded
weak-willed
weaken
weaker sex
weakfish
weakling
weakly
weakness
weal
weald
wealth
wealthy
wean
weaner
weanling
weapon
weaponeer
weaponless
weaponry
wear
wear and tear
wear down
wear off
wear out
wearable
weariful
weariless
wearing
wearing apparel
wearisome
wearproof
weary
weasand
weasel
weasel out
weasel words
weather
weather deck
weather eye
weather map
weather report
weather station
weather strip
weather vane
weather-beaten
weather-bound
weather-wise
weatherboard
weatherboarding
weathercock
weathered
weatherglass
weathering
weatherly
weatherman
weatherproof
weathertight
weatherworn
weave
weaver
weaver's hitch
weaverbird
web
web press
web spinner
web-footed
webbed
webbing
webby
weber
webfoot
webworm
wed
wedded
wedding
wedding ring
wedge
wedge heel
wedged
wedlock
wee
weed
weed out
weeds
weedy
week
weekday
weekend
weekender
weekly
ween
weeny
weep
weeper
weeping
weeping willow
weepy
weever
weevil
weevily
weft
weigela
weigh
weigh down
weigh-in
weighbridge
weight
weighted
weighting
weightless
weightlessness
weighty
weir
weird
weird sisters
weirdie
weirdo
weka
welch
welcome
weld
welfare
welfare state
welfare work
welfarism
welkin
well
well smack
well sweep
well-advised
well-appointed
well-balanced
well-being
well-beloved
well-bred
well-chosen
well-defined
well-disposed
well-done
well-dressed
well-established
well-favored
well-fed
well-fixed
well-found
well-founded
well-groomed
well-grounded
well-heel'd
well-informed
well-intentioned
well-knit
well-known
well-made play
well-mannered
well-meaning
well-nigh
well-off
well-oiled
well-ordered
well-preserved
well-read
well-rounded
well-spoken
well-stacked
well-thought-of
well-timed
well-to-do
well-turned
well-wisher
well-worn
wellborn
wellhead
whale
whaleback
whaleboat
whalebone
whalebone whale
whaler
whaling
wham
whangee
whap
wharf
wharf rat
wharbage
wharfinger
wharve
what
what'er
whatever
whatnot
whatsoe'er
whatsoever
wheat
wheat germ
wheat rust
wheatear
wheaten
wheatworm
wheedle
wheel
wheel and axle
wheel animalcule
wheel bug
wheel horse
wheel lock
wheel of fortune
wheel window
wheelbarrow
wheelbase
wheelchair
wheeled
wheeler
wheelhorse
wheelhouse
wheeling
wheelman
wheels
wheelsman
wheelwork
wheelwright
wheen
wheeze
wheezy
whelk
whelm
whelp
when
whenas
whence
whencesoever
whene'er
whenever
whenssoever
where
where'er
whereabouts
whereas
whereat
whereby
wherefore
wherefrom
wherein
whereinto
whereof
whereon
wheresoever
whereto
wherunto
whereupon
wherever
wherewith
wherewithal
wherry
whet
whether
whetstone
whew
whey
whf.
which
whichever
whichever
whichever
whichever
whicker
whidah
whiff
whiffet
whiffle
whiffler
whiffletree
while
while away
whiles
whilom
whilst
whim
whim-wham
whimper
whimsey
whimsical
whimsicality
whimsy
whin
whinchat
whine
whinny
whinstone
whiny
whip
whip graft
whip hand
whip in
whip scorpion
whip up
whipcord
whiplash
whipper-in
whippersnapper
whippet
whipping
whipping boy
whipping cream
whipping post
whippletree
whippoorwill
whipsaw
whipstall
whipstitch
whipstock
whirl
whirlaboot
whirligig
whirligig beetle
whirlpool
whirlpool bath
whirlwind
whirly
whirlybird
whish
whisk
whisk broom
whisker
whiskey
whiskey sour
whisky
whisper
whispering
whispering campaign
whispering gallery
whist
whistle
whistler
whistling
whistling swan
whit
white
white admiral
white alkali
white ant
white bear
white birch
white blood cell
white book
white bryony
white cedar
white clover
white dwarf
white elephant
white ensign
white feather
white flag
white fox
white frost
white gold
white goods
white gum
white heat
white lead
white lead ore
white leather
white leg
white lie
white matter
white meat
white metal
white mustard
white noise
white oak
white paper
white pepper
white pine
white plague
white poplar
white potato
white rainbow
white rat
white rose
white sale
white sapphire
white sauce
white slave
white slavery
white spruce
white squall
white supremacy
white tie
white turnip
white vitriol
white walnut
white water
white whale
white wine
white-collared
white-eyed
white-faced
white-footed mouse
white-headed
white-hot
white-livered
white-tailed deer
whitebait
whitebeam
whitecap
whited sepulcher
whitefish
whitefly
whiten
whiteness
whitening
whitesmith
whitethorn
whitethroat
whitewall
whitewash
whitewing
whitewood
whither
whithersoever
whitherward
whiting
whitish
whitleather
whitlow
whittle
whittling
whity
whiz
whiz-bang
who
who's
whoa
whodunit
whoever
whole
whole blood
whole gale
whole hog
whole milk
whole note
whole number
whole rest
whole step
whole wheat
whole-tone scale
whole-wheat
wholehearted
wholesale
wholesome
wholism
wholly
whom
whomever
whomp
whomsoever
whoop
whooppee
whooper
whooper swan
whooping cough
whoops
whoosh
whop
whopper
whopping
whore
whoredom
whorehouse
whoremaster
whoreson
whorish
whorl
whorled
whortleberry
whose
whoso
whosoever
whisle.
why
whydah
wick
wicked
wickedness
wicker
wickerwork
wicket
wicketkeeper
wickiup
wicopy
widdershins
wide
wide-angle
wide-angle lens
wide-awake
wide-eyed
wide-open
wide-ranging
wide-screen
widely
widen
widespread
widgeon
widget
widow
widow bird
widow's cruse
widow's mite
widow's peak
widow's walk
widower
width
widthwise
wield
weldy
wiener
wife
wifehood
wifeless
wifely
wig
wigeon
wrigging
wriggle
wiggler
wiggly
wight
wigwag
wigwam
wikiup
wild
wild boar
wild brier
wild celery
wild lettuce
wild man
wild mustard
wild oat
wild oats
wild olive
wild pansy
wild parsley
wild parsnip
wild rice
wild rose
wild rubber
wild rye
wild-eyed
wild-goose chase
wildcat
wildcat strike
wildebeest
wilder
wilderness
wildfire
wildfowl
wilding
wildlife
wildwood
wile
wilful
wiliness
will
will power
will-o'-the-wisp
willable
willed
willet
willful
willies
willing
williwaw
willow
willow pattern
willowy
willpower
willy-nilly
willy-willy
wilt
wily
wimble
wimple
win
win out
wince
winch
wind
wind cone
wind gauge
wind harp
wind indicator
wind instrument
wind rose
wind scale
wind shake
wind tee
wind tunnel
wind up
wind vane
wind-broken
wind-pollinated
wind-sucking
windage
windbag
windblown
windbound
windbreak
windburn
windcheater
winded
winder
windfall
windflower
windgall
windhover
winding
winding sheet
winding staircase
windjammer
windlass
windmill
window
window box
window dresser
window dressing
window sill
window-shop
windowlight
windowpane
windowsill
windpipe
windproof
windrow
windsail
windshield
windstorm
windswept
windtight
windup
windward
windy
wine
wine cellar
wine cooler
wine gallon
winebibber
wineglass
winegrower
winepress
winery
wineshop
wineskin
wing
witches'-broom
witching
witching hour
witchy
wite
witenagemot
with
withal
withdraw
withdrawal
withdrawn
withdrew
withe
wither
witherite
withers
withershins
withhold
withholding tax
within
withindoors
without
withoutdoors
withstand
withy
witless
witting
witness
witness box
witness stand
wits
witted
witticism
witting
wittol
witty
wive
wivern
wives
wizard
wizardly
wizardry
wizen
wizened
wk.
wkly.
wmk.
wonder-stricken
wonderful
wondering
wonderland
wonderment
wonderwork
wondrous
wonga-wonga
wonky
wont
wonted
woo
wood
wood alcohol
wood anemone
wood block
wood coal
wood duck
wood engraving
wood hyacinth
wood ibis
wood lot
wood louse
wood meadow grass
wood mouse
wood nymph
wood pigeon
wood pitch
wood pulp
wood rat
wood sorrel
wood spirit
wood sugar
wood vinegar
wood warbler
woodbine
woodborer
woodchopper
woodchuck
woodcock
woodcraft
woodcut
woodcutter
wooded
wooden
woodenhead
woodenware
woodland
woodman
woodnote
woodpecker
woodpile
woodprint
woodruff
woods
woodshed
woodsia
woodsman
woodsy
woodwaxen
woodwind
woodwork
woodworker
woodworking
woodworm
woody
woody nightshade
wooer
woof
woofer
wool
wool fat
wool stapler
woolfell
woolgathering
woolgrower
woollen
woolly
woolly bear
woolly-headed
woolpack
woolsack
woorali
woozy
wop
word
word association
word association test
word blindness
word class
word deafness
word game
word of honor
word order
word picture
word square
word stress
wordage
wordbook
wording
wordless
wordplay
words
wordsmith
wordy
wore
work
work force
work function
work of art
work on
work over
work sheet
work up
workable
workaday
workbag
workbench
workbook
workday
worked
worker
workhorse
workhouse
working
working capital
working class
working drawing
working girl
working hypothesis
working papers
working substance
workingman
workingwoman
workman
workmanlike
workmanship
workmen's compensation
workmen's compensation insurance
workout
workroom
works
works council
workshop
worktable
workwoman
world
world power
world soul
world spirit
world war
world-beater
world-shaking
world-weary
worldling
worldly
worldly-wise
worldwide
worm
worm gear
worm grass
worm lizard
worm wheel
worm-eaten
wormhole
wormseed
wormwood
wormy
worn
worn-out
worried
worriment
worrisme
worry
worrywart
worse
worsen
worser
worship
worshipful
worst
worsted
wort
worth
worthless
worthwhile
worthy
wot
would
would-be
wouldn't
wouldst
wound
wounded
woundwort
wove
wove paper
woven
wow
wowser
wrack
wraith
wrangle
wrangler
wrap
wrap up
wraparound
wrapped
wrapper
wrapping
wrasse
wrath
wrathful
wreak
wreath
wreathe
wreck
wreckage
wrecker
wreckfish
wreckful
wrecking bar
wren
wrench
wrest
wrestle
wrestling
wretch
wretched
wrier
wriest
wriggle
wriggler
wriggly
wright
wring
wrenger
wrinkle
wrinkly
wrist
wrist pin
wristband
wristlet
wristwatch
writ
writ of error
write
write off
write out
write-in
write-off
write-up
writer
writer's cramp
writhe
writhe
writing
written
wrong
wrong number
wrong-headed
wrongdoer
wrongdoing
wrongful
wrongheaded
wrongly
wrote
wroth
wrought
wrought iron
wrought-up
wrun
wry
wryneck
wulfenite
wurst
wyche
wynd
x
x-ray
x-ray therapy
x-ray tube
x-unit
xanthate
xanthane
xanthene
xanthic
xanthic acid
xanthin
xanthine
xantho-
xanthochroid
xanthochroism
xanthophyll
xanthous
xebec
xenia
xeno-
xenocryst
xenogamy
xenogenesis
xenolith
xenomorphic
xenon
xenophobe
xenophilia
xerarch
xeric
xeroderma
xerography
xerophagy
xerophilous
xerophthalmia
xerophyte
xerosere
xerosis
xi
xiphisternum
xiphoid
xylem
xylene
xyldine
xylo-
xylograph
xylography
xyloid
xylol
xylophagous
xylophone
xylotomous
xylotomy
xyster
y
y.
yabber
yacht
yachting
yachtsman
yackety-yak
yah
yahoo
yak
yakka
yam
yamen
yammer
yank
yap
yapok
yapon
yard
yard goods
yard grass
yardage
yardarm
yardman
yardmaster
yardstick
yare
yarn
yarn-dyed
yarrow
yashmak
yataghan
yaupon
yautia
yaw
yawl
yawmeter
yawn
yawning
yawp
yaws
cyclept
ye
yea
yeah
yean
yeanling
year
year-round
yearbook
yearling
yearlong
yearly
yearn
yearning
yeast
yeast cake
yeasty
yegg
yeld
yell
yellow
yellow bile
yellow brass
yellow cake
yellow fever
yellow flag
yellow jack
yellow jacket
yellow journalism
yellow metal
yellow peril
yellow poplar
yellow spot
yellow streak
yellow water lily
yellow-green
yellowbird
yellowhammer
yellowish
yellowlegs
yellows
yellowtail
yellowthroat
yellowweed
yellowwood
yelp
yen
yenta
yeoman
yeoman of the guard
yeoman's service
yeomanly
yeomanry
yep
yes
yes man
yes-man
yeshiva
yester
yester-
yesterday
yesteryear
yestreen
yet
yeti
yew
yid
yield
yielding
yip
yippee
yippie
ylang-ylang
ylem
yo-heave-ho
yo-ho
yod
yodel
yodle
yoga
yogh
yoghurt
yogi
yogini
yogurt
yoicks
yoke
yokefellow
yokel
yolk
yon
yonder
yoni
yoo-hoo
yore
you
you're
you've
young
young blood
young lady
young man
young thing
youngling
youngster
younker
your
zirconia
zirconium
zither
zizith
zloty
zo-
zoa
zodiac
zodiacal light
zombie
zonal
zonate
zonation
zone
zoning
zonked
zoo
zoo-
zoochemistry
zoochore
zoogeography
zoogloea
zoography
zooid
zool.
zoolatry
zoological garden
zoologist
zoology
zoom
zoom lens
zoometry
zoomorphism
zoon
zoonosis
zoophilia
zoophilous
zoophobia
zoophyte
zooplankton
zooplasty
zoosperm
zoosporangium
zoospore
zoot suit
zootechnics
zootomy
zootoxin
No license file was found, but licenses were detected in source scan.

License: Public Domain

the Moby project were being placed in the public domain:
been place into the public domain. Use, sell,
You can verify the public domain status by contacting

Found in path(s):

1.87 tar 1.30 5.el8
1.87.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program— to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.88 byacc 1.9.20170709-4.el8

1.88.1 Available under license :
Upstream source http://invisible-island.net/byacc/byacc.html

Berkeley Yacc is in the public domain; changes made to it by the current
maintainer are likewise unrestricted. That applies to most of the files.
A few files (currently those related to autoconf scripting) have other
licenses as noted here.

Current byacc upstream maintainer: Thomas Dickey <dickey@invisible-island.net>

Public domain notice and no warranty:
------------------------------------------------------------------
 Berkeley Yacc is an LALR(1) parser generator. Berkeley Yacc has been made
 as compatible as possible with AT&T Yacc. Berkeley Yacc can accept any input
 specification that conforms to the AT&T Yacc documentation. Specifications
 that take advantage of undocumented features of AT&T Yacc will probably be
 rejected.

 Berkeley Yacc is distributed with no warranty whatever. The code
 is certain to contain errors. Neither the author nor any contributor
 takes responsibility for any consequences of its use.

 Berkeley Yacc is in the public domain. The data structures and algorithms
 used in Berkeley Yacc are all either taken from documents available to the
 general public or are inventions of the author. Anyone may freely distribute
 source or binary forms of Berkeley Yacc whether unchanged or modified.
 Distributors may charge whatever fees they can obtain for Berkeley Yacc.
 Programs generated by Berkeley Yacc may be distributed freely.

 Please report bugs to

 robert.corbett@eng.sun.COM

 Include a small example if possible. Please include the banner string from
 skeleton.c with the bug report. Do not expect rapid responses.
------------------------------------------------------------------

Files: aclocal.m4
Licence: other-BSD
Copyright: 2004-2016,2017 by Thomas E. Dickey
 Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, distribute with modifications, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: other-BSD

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.
FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

Files: debian/*
Copyright: 2012 Thomas E. Dickey
Licence: other-BSD

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the above listed copyright holder(s) not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

THE ABOVE LISTED COPYRIGHT HOLDER(S) DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE ABOVE LISTED COPYRIGHT HOLDER(S) BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`

1.89 iproute 5.9.0-4.el8
1.89.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide...
a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.90 bzip2 1.0.6 26.el8
This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.91 intltool 0.51.0-11.el8

1.91.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices 
      stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in 
      whole or in part contains or is derived from the Program or any 
      part thereof, to be licensed as a whole at no charge to all third 
      parties under the terms of this License.

   c) If the modified program normally reads commands interactively 
      when run, you must cause it, when started running for such 
      interactive use in the most ordinary way, to print or display an 
      announcement including an appropriate copyright notice and a 
      notice that there is no warranty (or else, saying that you provide 
      a warranty) and that users may redistribute the program under 
      these conditions, and telling the user how to view a copy of this 
      License.  (Exception: if the Program itself is interactive but 
      does not normally print such an announcement, your work based on 
      the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If 
identifiable sections of that work are not derived from the Program, 
and can be reasonably considered independent and separate works in 
themselves, then this License, and its terms, do not apply to those 
sections when you distribute them as separate works.  But when you 
distribute the same sections as part of a whole which is a work based 
on the Program, the distribution of the whole must be on the terms of 
this License, whose permissions for other licensees extend to the 
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest 
your rights to work written entirely by you; rather, the intent is to 
exercise the right to control the distribution of derivative or 
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program 
with the Program (or with a work based on the Program) on a volume of 
a storage or distribution medium does not bring the other work under 
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, 
under Section 2) in object code or executable form under the terms of 
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable 
      source code, which must be distributed under the terms of Sections 
      1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.92 nftables 0.9.3-18.el8
1.92.1 Available under license:

nftables is distributed under the terms of the GPL version 2. Note that *only* version 2 of the GPL applies, not "any later version".

Patrick McHardy <kaber@trash.net>

---------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.93 gobject-introspection 1.56.1 1.el8

1.93.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
   Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
   59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a
   table of data to be supplied by an application program that uses
   the facility, other than as an argument passed when the facility
   is invoked, then you must make a good faith effort to ensure that,
   in the event an application does not supply such function or
   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
   a purpose that is entirely well-defined independent of the
   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
   be optional: if the application does not supply it, the square
   root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If
   identifiable sections of that work are not derived from the Library,
   and can be reasonably considered independent and separate works in
   themselves, then this License, and its terms, do not apply to those
   sections when you distribute them as separate works. But when you
   distribute the same sections as part of a whole which is a work based
   on the Library, the distribution of the whole must be on the terms of
   this License, whose permissions for other licensees extend to the
   entire whole, and thus to each and every part regardless of who wrote
   it.

   Thus, it is not the intent of this section to claim rights or contest
   your rights to work written entirely by you; rather, the intent is to
   exercise the right to control the distribution of derivative or
   collective works based on the Library.

   In addition, mere aggregation of another work not based on the Library
   with the Library (or with a work based on the Library) on a volume of
   a storage or distribution medium does not bring the other work under
   the scope of this License.

   3. You may opt to apply the terms of the ordinary GNU General Public
      License instead of this License to a given copy of the Library. To do
      this, you must alter all the notices that refer to this License, so
      that they refer to the ordinary GNU General Public License, version 2,
      instead of to this License. (If a newer version than version 2 of the
      ordinary GNU General Public License has appeared, then you can specify
      that version instead if you wish.) Do not make any other change in
      these notices.

      Once this change is made in a given copy, it is irreversible for
      that copy, so the ordinary GNU General Public License applies to all
      subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Adam Sampson
Adel Gadallah
Alan Knowles
Alexey Zakhlestin
Andreas Rottmann
Bastien Nocera
Brian Cameron
Chris Rivera
Christian Persch
Christophe Fergeau
Colin Walters
C. Scott Ananian
Damien Lespiau
Danielle Madeley
Dan Winship
David Ignacio
David Zeuthen
Didier 'Ptitjes
dyfet@gnutelephony.org
Eduardo Lima Mitev
Emmanuele Bassi
Florian Milner
Funda Wang
Gustavo J. A. M. Carneiro
Gustavo Noronha Silva
Halton Huo
Havoc Pennington
Holger Hans Peter Freyther
Iain Nicol
Jani Monoses
Jasper Lievisse Adriaanse
Javier Jardn
Joe Marcus Clarke
Johan Bilien
Johan Dahlin
John (J5) Palmieri
John Ehresman
Jonathan Matthew
Josselin Mouette
Jrg Billeter
Kedar Sovani
Luca Bruno
Lucas Rocha
Maciej Katafiasz
Marc-Andre Lureau
Marco Pesenti Gritti
Marina Zhurakhinskaya
Mark Doffman
Mark Lee
Matthias Clasen
Maxim Ermilov
Michael Meeks
Owen Taylor
Pavel Holejsovsky
Philip Van Hoof
Richard Hult
Robert Ancell
Robert Carr
Rob Taylor
Ryan Lortie
Saikiran Madugula
Saleem Abdulrasool
Saleem Ansari
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

   The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

   If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

   4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
gobject-introspection has two licenses; one for the typelib library, and one for the tools.

The scanner (giscanner/) and typelib libraries (girepository/) are licensed under the LGPLv2+. See the file COPYING.LGPL.

The tools (tools/) are licensed under the GPLv2+. See the file COPYING.GPL.

There is also some MIT code in giscanner/. In general where applicable files should have headers denoting their license status; if they do not, please file a bug at https://gitlab.gnome.org/GNOME/gobject-introspection/issues.

1.94 perl-constant 1.33-396.el8
1.94.1 Available under license :
No license file was found, but licenses were detected in source scan.

License:   GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548089_1591379339.64/0/perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/perl-constant.spec

No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl pragma to declare constants'
author:
- 'SÃ©bastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1009548089_1591379339.64/0/perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "...\n" if DEBUG;

use constant {
  SEC => 0,
  MIN => 1,
  HOUR => 2,
  MDAY => 3,
  MON => 4,
  YEAR => 5,
  WDAY => 6,
  YDAY => 7,
  ISDST => 8,
};

use constant WEEKDAYS => qw(}
print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], ",\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo) { use constant ... }>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

    print "Pi equals PI...
";        # WRONG: does not expand "PI"
    print "Pi equals ".PI."\n";    # right

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

    use constant ARRAY => [ 1,2,3,4 ];
    print ARRAY->[1];
    ARRAY->[1] = " be changed";
    print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as
in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<$obj> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

use constant TIMESTAMP => localtime;       # WRONG!
use constant TIMESTAMP => scalar localtime; # right

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

my @workdays = WEEKDAYS[1 .. 5];       # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];   # right

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.
use constant {  
    FOO => "A single value",
    BAR => "This", "won't", "work!",  # Error!
};

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until `use` statement is finished.

use constant {  
    BITMASK => 0xAFBAEBA8,  
    NEGMASK => ~BITMASK,  # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

use constant E2BIG => ($! = 7);  
print E2BIG, "\n";  # something like "Arg list too long"  
print 0+E2BIG, "\n";  # "7"

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/"Constant Functions"> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.
sub declared ($) {
use constant 1.01;
# don't omit this!
my $name = shift;
$name =~ s/^::/main::/;
my $pkg = caller;
my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
$constant::declared{$full_name};
}
=head1 CAVEATS
In the current version of Perl, list constants are not inlined
and some symbols may be redefined without generating a warning.
It is not possible to have a subroutine or a keyword with the same
name as a constant in the same package. This is probably a Good Thing.
A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT
ENV INC SIG> is not allowed anywhere but in package C<main::>, for
technical reasons.
Unlike constants in some languages, these cannot be overridden
on the command line or via environment variables.
You can get into trouble if you use constants in a context which
automatically quotes barewords (as is true for any subroutine call).
For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will
be interpreted as a string. Use C<$hash{CONSTANT()}> or
C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from
kicking in. Similarly, since the C<< => >> operator quotes a bareword
immediately to its left, you have to say C<< CONSTANT() => 'value' >>
(or simply use a comma in place of the big arrow) instead of
C<< CONSTANT => 'value' >>.
=head1 SEE ALSO
L<Readonly> - Facility for creating read-only scalars, arrays, hashes.
L<Attribute::Constant> - Make read-only variables via attribute
L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag
L<Hash::Util> - A selection of general-utility hash subroutines (mostly
to lock/unlock keys and values)
=head1 BUGS

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19407


Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni E<lt>F<sebastien@aperghis.net>E<gt>.

=cut

NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION
To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

Alternatively, to install with Module::Build, you can use the following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

**SUPPORT AND DOCUMENTATION**

After installing, you can find documentation for this module with the perldoc command.

    perldoc constant

You can also look for information at:

Search CPAN
    http://search.cpan.org/dist/constant

CPAN Request Tracker:
    http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
    http://annocpan.org/dist/constant

CPAN Ratings:
    http://cpanratings.perl.org/d/constant

**COPYRIGHT AND LICENCE**

Copyright (C) 1997, 1999 Tom Phoenix.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548089_1591379339.64/0/perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/README
1.95 libgcrypt 1.8.5 4.el8

1.95.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for distribution.
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

---

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Additional license notices for Libgcrypt.  

This file contains the copying permission notices for various files in the Libgcrypt distribution which are not covered by the GNU Lesser General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the GNU C Library.
* BSD_3Clause

For files:
- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S

#+begin_quote
Copyright (c) 2012, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#+end_quote

For files:
- random/jitterentropy-base.c
- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

#+begin_quote
* Copyright Stephan Mueller <smueller@chronox.de>, 2013
*
* License
* =======
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, and the entire permission notice in its entirety,
*    including the disclaimer of warranties.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote
*    products derived from this software without specific prior
*    written permission.
*
* ALTERNATIVELY, this product may be distributed under the terms of
* the GNU General Public License, in which case the provisions of the GPL are
* required INSTEAD OF the above restrictions. (This clause is
* necessary due to a potential bad interaction between the GPL and
* the restrictions contained in a BSD-style copyright.)
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
* WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
* OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
* USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
#+end_quote

* X License

For files:
- install.sh

#+begin_quote
Copyright (C) 1994 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

* Public domain

For files:
- cipher/arcfour-amd64.S

* OCB license 1

For files:
- cipher/cipher-ocb.c

OCB is covered by several patents but may be used freely by most software. See http://web.cs.ucdavis.edu/~rogaway/ocb/license.htm. In particular license 1 is suitable for Libgcrypt: See http://web.cs.ucdavis.edu/~rogaway/ocb/license1.pdf for the full license document; it basically says:
License 1  License for Open-Source Software Implementations of OCB  
(Jan 9, 2013)

Under this license, you are authorized to make, use, and distribute open-source software implementations of OCB. This license terminates for you if you sue someone over their open-source software implementation of OCB claiming that you have a patent covering their implementation.

License for Open Source Software Implementations of OCB  
January 9, 2013

1 Definitions

1.1 Licensor means Phillip Rogaway.


1.3 Use means any practice of any invention claimed in the Licensed Patents.

1.4 Software Implementation means any practice of any invention claimed in the Licensed Patents that takes the form of software executing on a user-programmable, general-purpose computer or that takes the form of a computer-readable medium storing such software. Software Implementation does not include, for example, application-specific integrated circuits (ASICs), field-programmable gate arrays (FPGAs), embedded systems, or IP cores.

1.5 Open Source Software means software whose source code is published and made available for inspection and use by anyone because either (a) the source code is subject to a license that permits recipients to copy, modify, and distribute the source code without payment of fees or royalties, or (b) the source code is in the public domain, including code released for public use through a CC0 waiver. All licenses certified by the Open Source Initiative at opensource.org as of January 9, 2013 and all Creative Commons licenses identified on the creativecommons.org website as of January 9, 2013, including the Public License Fallback of the CC0 waiver, satisfy these requirements for the purposes of this license.
1.6 Open Source Software Implementation means a Software Implementation in which the software implicating the Licensed Patents is Open Source Software. Open Source Software Implementation does not include any Software Implementation in which the software implicating the Licensed Patents is combined, so as to form a larger program, with software that is not Open Source Software.

2 License Grant

2.1 License. Subject to your compliance with the terms of this license, including the restriction set forth in Section 2.2, Licensor hereby grants to you a perpetual, worldwide, non-exclusive, non-transferable, non-sublicenseable, no-charge, royalty-free, irrevocable license to practice any invention claimed in the Licensed Patents in any Open Source Software Implementation.

2.2 Restriction. If you or your affiliates institute patent litigation (including, but not limited to, a cross-claim or counterclaim in a lawsuit) against any entity alleging that any Use authorized by this license infringes another patent, then any rights granted to you under this license automatically terminate as of the date such litigation is filed.

3 Disclaimer

YOUR USE OF THE LICENSED PATENTS IS AT YOUR OWN RISK AND UNLESS REQUIRED BY APPLICABLE LAW, LICENSOR MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE LICENSED PATENTS OR ANY PRODUCT EMBODYING ANY LICENSED PATENT, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL LICENSOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM OR RELATED TO ANY USE OF THE LICENSED PATENTS, INCLUDING, WITHOUT LIMITATION, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES PRIOR TO SUCH AN OCCURRENCE.

1.96 colorama 0.4.4

1.96.1 Available under license:

Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.97 openjpeg 2.3.1-6.el8

1.97.1 Available under license:

### MIT License

Copyright (c) 2017 by Jim Pattee <jimp03@email.com>.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium
Copyright (c) 2002-2014, Professor Benoit Macq
Copyright (c) 2001-2003, David Janssens
This code is released under the libpng license.

libpng versions 1.0.7, July 1, 2000 through 1.6.25, September 1, 2016 are Copyright (c) 2000-2002, 2004, 2006-2016 Glenn Randers-Pehrson, are derived from libpng-1.0.6, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Some files in the "scripts" directory have other copyright owners but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

END OF COPYRIGHT NOTICE, DISCLAIMER, and LICENSE.
TRADEMARK:

The name "libpng" has not been registered by the Copyright owner as a trademark in any jurisdiction. However, because libpng has been distributed and maintained world-wide, continually since 1995, the Copyright owner claims "common-law trademark protection" in any jurisdiction where common-law trademark is recognized.

OSI CERTIFICATION:

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative. OSI has not addressed the additional disclaimers inserted at version 1.0.7.

EXPORT CONTROL:

The Copyright owner believes that the Export Control Classification Number (ECCN) for libpng is EAR99, which means not subject to export controls or International Traffic in Arms Regulations (ITAR) because it is open source, publicly available software, that does not contain any encryption software. See the EAR, paragraphs 734.3(b)(3) and 734.7(b).

Glenn Randers-Pehrson
glenrp at users.sourceforge.net
September 1, 2016
/*
 * The copyright in this software is being made available under the 2-clauses BSD License, included below. This software may be subject to other third party and contributor rights, including patent rights, and no such rights are granted under this license.
 *
 * Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium
 * Copyright (c) 2002-2014, Professor Benoit Macq
 * Copyright (c) 2003-2014, Antonin Descampe
 * Copyright (c) 2003-2009, Francois-Olivier Devaux
 * Copyright (c) 2005, Herve Drolon, FreeImage Team
 * Copyright (c) 2002-2003, Yannick Verschueren
 * Copyright (c) 2001-2003, David Janssens
 * Copyright (c) 2011-2012, Centre National d'Etudes Spatiales (CNES), France
 * Copyright (c) 2012, CS Systemes d'Information, France
 *
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
 * 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS IS'
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

1.98 dejavu-fonts 2.35-7.el8

1.98.1 Available under license:
Fonts are (c) Bitstream (see below). DejaVu changes are in public domain.
Glyphs imported from Arev fonts are (c) Tavmjong Bah (see below)

Bitstream Vera Fonts Copyright
-----------------------------

Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera is
a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of the fonts accompanying this license ("Fonts") and associated
documentation files (the "Font Software"), to reproduce and distribute the
Font Software, including without limitation the rights to use, copy, merge,
publish, distribute, and/or sell copies of the Font Software, and to permit
persons to whom the Font Software is furnished to do so, subject to the
following conditions:

The above copyright and trademark notices and this permission notice shall
be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular
the designs of glyphs or characters in the Fonts may be modified and
additional glyphs or characters may be added to the Fonts, only if the fonts
are renamed to names not containing either the words "Bitstream" or the word
"Vera".
This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Bitstream Vera" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the names of Gnome, the Gnome Foundation, and Bitstream Inc., shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from the Gnome Foundation or Bitstream Inc., respectively. For further information, contact: fonts at gnome dot org.

Arev Fonts Copyright
------------------------
Copyright (c) 2006 by Tavmjong Bah. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the modifications to the Bitstream Vera Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Tavmjong Bah" or the word "Arev".
This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Tavmjong Bah Arev" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL TAVMJONG BAH BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the name of Tavmjong Bah shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from Tavmjong Bah. For further information, contact: tavmjong @ free.fr.

$Id: LICENSE 2133 2007-11-28 02:46:28Z lechimp $
Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Author: Ralph Mor, X Consortium

1.100 webrick 1.7.0

1.100.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.101 firefox 60.9.0

1.101.1 Available under license:

Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor” means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. “Contributor Version” means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. “Incompatible With Secondary Licenses”
means
that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or
that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”) means an individual or a legal entity exercising rights under this License. For legal entities, “You” includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, “control” means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair
dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients’ rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients’ rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed
in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party’s negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party’s ability to bring cross-claims or counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined by the Mozilla Public License, v. 2.0.

1.102 file 5.33-16.el8_3.1
1.102.1 Available under license :
SFile: COPYING,v 1.1 2008/02/05 19:08:11 christos Exp $  
Software written by Ian F. Darwin and others;  
maintained 1994- Christos Zoulas.

This software is not subject to any export provision of the United States
Department of Commerce, and may be exported to any country or planet.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice immediately at the beginning of the file, without modification, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.103 python 3.6.8-37.el8
1.103.1 Available under license:

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> & Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Additional Conditions for this Windows binary build

This program is linked with and uses Microsoft Distributable Code, copyrighted by Microsoft Corporation. The Microsoft Distributable Code is embedded in each .exe, .dll and .pyd file as a result of running the code through a linker.

If you further distribute programs that include the Microsoft Distributable Code, you must comply with the restrictions on distribution specified by Microsoft. In particular, you must require distributors and external end users to agree to terms that protect the Microsoft Distributable Code at least as much as Microsoft's own requirements for the Distributable Code. See Microsoft's documentation (included in its developer tools and on its website at microsoft.com) for specific details.

Redistribution of the Windows binary build of the Python interpreter complies with this agreement, provided that you do not:

- alter any copyright, trademark or patent notice in Microsoft's Distributable Code;

- use Microsoft's trademarks in your programs' names or in a way that suggests your programs come from or are endorsed by Microsoft;

- distribute Microsoft's Distributable Code to run on a platform other than Microsoft operating systems, run-time technologies or application platforms; or

- include Microsoft Distributable Code in malicious, deceptive or unlawful programs.

These restrictions apply only to the Microsoft Distributable Code as defined above, not to Python itself or any programs running on the Python interpreter. The redistribution of the Python interpreter and libraries is governed by the Python Software License included with this
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9.0 thru 1.2</td>
<td>1.2</td>
<td>1991-1995</td>
<td>CWI</td>
<td>yes</td>
</tr>
<tr>
<td>1.3 thru 1.5.2</td>
<td>1.2</td>
<td>1995-1999</td>
<td>CNRI</td>
<td>yes</td>
</tr>
<tr>
<td>1.6</td>
<td>1.5.2</td>
<td>2000</td>
<td>CNRI</td>
<td>no</td>
</tr>
<tr>
<td>2.0</td>
<td>1.6</td>
<td>2000</td>
<td>BeOpen.com</td>
<td>no</td>
</tr>
<tr>
<td>1.6.1</td>
<td>1.6</td>
<td>2001</td>
<td>CNRI</td>
<td>yes (2)</td>
</tr>
<tr>
<td>2.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>no</td>
</tr>
<tr>
<td>2.0.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version,

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
---------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").
2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
------------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License.
Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2017 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

pybench License
---------------

This copyright notice and license applies to all files in the pybench directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (mal@lemburg.com)
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee or royalty is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation or portions thereof, including modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE!

This license applies to the bootstrapper application that is embedded within the installer. It has no impact on the licensing for the rest of the installer or Python itself, as no code covered by this license exists in any other part of the product.

---

Microsoft Reciprocal License (MS-RL)

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

1. Definitions
The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under
U.S. copyright law.
A "contribution" is the original software, or any additions or changes to the software.
A "contributor" is any person that distributes its contribution under this license.
"Licensed patents" are a contributor's patent claims that read directly on its contribution.

2. Grant of Rights
(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that you create.
(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

3. Conditions and Limitations
(A) Reciprocal Grants- For any file you distribute that contains code from the software (in source code or binary format), you must provide recipients the source code to that file along with a copy of this license, which license will govern that file. You may license other files that are entirely your own work and do not contain code from the software under any terms you choose.
(B) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or trademarks.
(C) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.
(D) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.
(E) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.
(F) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement.

1.104 which 2.21 12.el8
1.104.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.
All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.105 pydbus 0.6.0 5.el8
1.105.1 Available under license :
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.106 fontconfig 2.13.1 3.el8
1.106.1 Available under license :
fontconfig/COPYING

Copyright 2005 Patrick Lam
Copyright 2009 Roozbeh Pournader
Copyright 2008,2009 Red Hat, Inc.
Copyright 2008 Danilo egan
Copyright 2012 Google, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the author(s) not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. The authors make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THE AUTHOR(S) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.107 python-decorator 4.2.1  2.el8

1.107.1 Available under license:
Copyright (c) 2005-2017, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in bytecode form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.108 gnutls 3.6.14-8.el8_3

1.108.1 Available under license:

The "inih" library is distributed under the New BSD license:

Copyright (c) 2009, Ben Hoyt
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of Ben Hoyt nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY BEN HOYT "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL BEN HOYT BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)


You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

====================================================================
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see https://www.openssl.org/~appro/cryptogams/.

====================================================================

Copyright (c) 2006-2012, CRYPTOGAMS by <appro@openssl.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain copyright notices, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the CRYPTOGRAMS nor the names of its copyright holder and contributors may be used to endorse or promote products derived from this software without specific prior written permission.

ALTERNATIVELY, provided that this notice is retained in full, this product may be distributed under the terms of the GNU General Public License (GPL), in which case the provisions of the GPL apply INSTEAD OF those given above.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#########################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
## Public domain.
##
## For details see https://shiftleft.org/papers/vector_aes/ and
## https://crypto.stanford.edu/vpaes/.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.
To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.
The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

You may convey verbatim copies of the Program’s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.
If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) by Bruce Korb - all rights reserved

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) by Bruce Korb - all rights reserved
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/philosophy/why-not-lgpl.html>. 

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19513
LICENSING
=========

Since GnuTLS version 3.1.10, the core library is released under the GNU Lesser General Public License (LGPL) version 2.1 or later (see doc/COPYING.LESSER for the license terms).

The GNU LGPL applies to the main GnuTLS library, while the included applications as well as gnutls-openssl library are under the GNU GPL version 3. The gnutls library is located in the lib/ and libdane/ directories, while the applications in src/ and, the gnutls-openssl library is at extra/.

The documentation in doc/ is under the GNU FDL license 1.3.

Note, however, that the nettle and the gmp libraries which are GnuTLS dependencies, they are distributed under a LGPLv3+ or GPLv2+ dual license. As such binaries linking to them need to adhere to either LGPLv3+ or the GPLv2+ license.

For any copyright year range specified as YYYY-ZZZZ in this package note that the range specifies every single year in that closed interval.

The MIT License (MIT)

Copyright (c) 2016 Wrymouth Innovation Ltd

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of
Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

   the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
   moral rights retained by the original author(s) and/or performer(s);
   publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
   rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
   rights protecting the extraction, dissemination, use and reuse of data in a Work;
   database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
   other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

**GNU GENERAL PUBLIC LICENSE**

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/> Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.
"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.
Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.> Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.
Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.109 libidn 2.2.0 1.el8
1.109.1 Available under license :

Libidn2 COPYING -- Licensing information.  -*- outline -*-
Copyright (C) 2011-2016 Simon Josefsson
See the end for copying conditions.

The source code for the C library (libidn2.a or libidn.so) are licensed under the terms of either the GNU General Public License version 2.0 or later (see the file COPYINGv2) or the GNU Lesser General Public License version 3.0 or later (see the file COPYING.LESSERV3), or both in parallel as here.

The command line tool, self tests, examples, and other auxiliary files, are licensed under the GNU General Public License version 3.0 or later.

The license of the Unicode character data files (which are parsed into static storage in the library) are documented in COPYING.unicode.

Other files are licensed as indicated in each file.
There may be exceptions to these general rules, see each file for precise information.

----------------------------------------------------------------------
This file is free software: you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the
Free Software Foundation, either version 3 of the License, or (at your
option) any later version.

This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this file. If not, see <http://www.gnu.org/licenses/>.
A. Unicode Copyright.

Copyright 1991-2016 Unicode, Inc. All rights reserved.
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any
person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming
to the Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files solely
for informational purposes and in the creation of products supporting the Unicode Standard, subject to the Terms
and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the particular set of data files known as the
"Unicode Character Database" can be found in the License.
Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book
editions (Unicode 5.0 and earlier), these are found on the back of the title page. The online code charts carry specific
restrictions. All other files, including online documentation of the core specification for Unicode 6.0 and later, are
covered under these general Terms of Use.
No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.
Modification is not permitted with respect to this document. All copies of this document must be verbatim.

B. Restricted Rights Legend.
Any technical data or software which is licensed to the United States of America, its agencies and/or
instrumentalities under this Agreement is commercial technical data or commercial computer software developed
exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For
technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS
202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance
with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to
the restrictions set forth in this Agreement.

C. Warranties and Disclaimers.
This publication and/or website may include technical or typographical errors or other inaccuracies . Changes are
periodically added to the information herein; these changes will be incorporated in new editions of the publication
and/or website. Unicode may make improvements and/or changes in the product(s) and/or program(s) described in

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19531
EXHIBIT 1
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
Unicode Data Files do not include PDF online code charts under the directory http://www.unicode.org/Public/.


NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2016 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that either (a) this copyright and permission notice appear with all copies of the Data Files or Software, or (b) this copyright and permission notice appear in associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.
Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.
1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.110 mpfr 3.1.6 1.el8

1.110.1 Available under license:

@c MPFR tweak: Have this in mpfr.texi to help texinfo-mode
@c @node GNU Free Documentation License
@c @appendixsec GNU Free Documentation License
@cindex GNU Free Documentation License
@center Version 1.2, November 2002

@display
Copyright @copyright{} 2000,2001,2002 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document \textit{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain \texttt{ASCII} without markup, Texinfo input format, \LaTeX{} input format, \acs{SGML} or \acs{XML} using a publicly available \acs{DTD}, and standard-conforming simple \acs{HTML}, PostScript or \acs{PDF} designed for human modification. Examples of transparent image formats include \acs{PNG}, \acs{XCF} and \acs{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, \acs{SGML} or \acs{XML} for which the \acs{DTD} and/or processing tools are not generally available, and the machine-generated \acs{HTML}, PostScript or \acs{PDF} produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in
formats which do not have any title page as such, ""Title Page"" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

A section ""Entitled XYZ"" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ""Acknowledgements", ""Dedications", ""Endorsements", or ""History"".) To ""Preserve the Title"" of such a section when you modify the Document means that it remains a section ""Entitled XYZ"" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled `"Acknowledgements" or `"Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.
@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS
You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.
If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}. 
Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```latex
\begin{verbatim}
\textbf{Copyright (C) \textvar{year} \textvar{your name}.}
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled \textquote{GNU Free Documentation License}.
\end{verbatim}
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the \textquote{with...Texts.} line with this:

```latex
\begin{verbatim}
\textbf{with the Invariant Sections being \textvar{list their titles}, with the Front-Cover Texts being \textvar{list}, and with the Back-Cover Texts being \textvar{list}.}
\end{verbatim}
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.111 go 1.12.9

1.111.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Carlos Souza <carloshrsouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicut <cnicutar@google.com>
Catalin Patulea <catalin@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatcenter.com>
Chai Shushan <chaishushan@gmail.com>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryzz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmilo <chrisfarmi@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dttimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@url.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047b@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Hon chiarovskiy <honsiorovskiy@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuı̈s <derek.buitenhuı̈s@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjay@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruvdutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fsahariar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczyski <gruszczy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@gmail.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@google.com>
Florian Uekermann <florian@uekermann-online.de> <fl@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Folke Behrens <folke@gmail.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezzo+github@google.com>
Greg Ward <greg@erg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <siawmgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Lffler <shloffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jchouchase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civil <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhan@google.com>
Junya Hayashi <ledmonster@gmail.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmlle <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboel-Hosn <abouelho@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrlé <martin.hamrlé@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moe@gmail.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@gmail.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbauro@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czaplik <czapko@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.lobby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <nikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <sonnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomph@phare.normalesup.org> <remyoudompheng@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <rikuvoipio@linaro.org>
Risto Jaakko Saarelma <saarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robphoenix.com>
Rob Pike <rl@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Obryk <obryk@gmail.com>
Robert Sesek <rsesek@google.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfo@bigibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogeppepe@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Roman Budnikov <romanyy90@yandex.ru>
Roman Shchekin <mrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <slight@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruiu.google.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb.google.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@google.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sai Cheemalapati <saicheems@gmail.com>
Sakeven Jiang <jc5930@sina.cn>
Salmn Aljamnnz <ss@0x65.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <sajmani@gmail.com>
Sami Commerot <samic@gmail.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samueltan@gmail.com>
Samuele Pedroni <pedronis@lucediuarna.net>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smsansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey ‘SnakE’ Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Frolov <sfrolov@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Ledbetter <sledbetter@gmail.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <petrovic@google.com>
Sridhar Venkatakishnan <sridhar@ladoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steve Morin <steve.morin@gmail.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2009-2017 Andrea Leofreddi <a.leofreddi@vleo.net>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Andrea Leofreddi.

Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.112 zlib 1.2.3

1.112.1 Available under license :

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:
The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.113 perl-threads 2.21 2.el8

1.113.1 Available under license:

No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Hash::Util: '0'
  IO::File: '0'
  Test::More: '0'
  XSLoader: '0'
overload: '0'
strict: '0'
warnings: '0'
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.32

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

ppport.h - Perl/Pollution/Portability version 3.32

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given
--version                   show version
--patch=file                write one patch file with changes
--copy=suffix               write changed copies with suffix
--diff=program             use diff program and options

--compat-version=version    provide compatibility with Perl version
--cplusplus                  accept C++ comments

--quiet                     don't output anything except fatal errors
--nodiag                    don't show diagnostics
--nohints                   don't show hints
--nochanges                 don't suggest changes
--nofilter                  don't filter input files

--strip                     strip all script and doc functionality from ppport.h

--list-provided             list provided API
--list-unsupported          list unsupported API
--api-info=name             show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not
automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.
Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided
to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines
should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/./
```

to display information for all known API elements.
BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.32;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\([w.]+)/;$;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '[ ]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*';
my $cce = '\*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval { require Getopt::Long; Getopt::Long::GetOptions(%opt, qw( help quiet diag! filter! hints! changes! cplusplus strip version patch=s copy=s diff=s compat-version=s list-provided list-unsupported api-info=s )) or usage(); };

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^-?h(?::elp)?$/;
die "Getopt::Long not found. Please don't use any options."
;

if ($opt{version}) {
    print "This is $0 $VERSION\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^\|]*)\|([^\|]*)\|([^\|]*)$/ }
    ? ($1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
    })
    : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001|n
AvFILLp|5.004050||p
AvFILL||
BhkDISABLE||5.021008|
BhkENABLE||5.021008|
BhkENTRY_set||5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
SVt_NULL||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVFm||
SVt_PVGv||
SVt_PVHV||
SVt_PVIO||
SVt_PVIV||
SVt_PVLV||
SVt_PVMG||
SVt_PVNV||
SVt_PV||
SVt_REGEXP[5.011000]
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_ro||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050][p
SvGROW||
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off||
SvIOK_only_UV[5.006000]
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg[5.009001][p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set||
SvLEN||
SvLOCK[5.007003]
SvMAGIC_set[5.009003][p
SvNIOK_off||
SvNIOKp||
SvNIOK||
XS_VERSION_BOOTCHECK][5.021008]
XS_VERSION]
XSprePUSH][5.006000][p
XS]
XopDISABLE][5.021008]
XopENABLE][5.021008]
XopENTRYCUSTOM][5.021008]
XopENTRY_set][5.021008]
XopENTRY][5.021008]
XopFLAGS][5.013007]
ZeroD][5.009002][p
Zero]
_aMY_CXT][5.007003][p
_add_range_to_invlist][]
_append_range_to_invlist][]
_core_swash_init][]
_get_encoding][]
_get_regclass_nonbitmap_data][]
_get_swash_invlist][]
_invlist_array_init][n
_invlist_contains_cp][n
_invlist_contents][]
_invlist_dump][]
_invlist_intersection_maybe_complement_2nd][]
_invlist_intersection][]
_invlist_invert][]
_invlist_len][n
_invlist_populate_swatch][n
_invlist_search][n
_invlist_subtract][]
_invlist_union_maybe_complement_2nd][]
_invlist_union][]
_is_cur_LC_category_utf8][]
_is_in_locale_category][5.021001]
_is_uni_FOO][5.017008]
_is_uni_perl_idcont][5.017008]
_is_uni_perl_idstart][5.017007]
_is_utf8_FOO][5.017008]
_is_utf8_char_slow][5.021001][n
_is_utf8_idcont][5.021001]
_is_utf8_idstart][5.021001]
_is_utf8_mark][5.017008]
_is_utf8_perl_idcont][5.017008]
_is_utf8_perl_idstart][5.017007]
_is_utf8_xidcont][5.021001]
_is_utf8_xidstart][5.021001]
_load_PL_utf8_foldclosures][]
_make_exactf_invlist][]
cophh_free][5.013007]
cophh_new_empty][5.021008]
cophh_store_pvn][5.013007]
cophh_store_pvs][5.013007]
cophh_store_pv][5.013007]
cophh_store_sv][5.013007]
core prototype]
coresub op]
could it be a POSIX class]
cr_textfilter]
create eval scope]
croak_memory_wrap][5.019003]
croak_no_mem]
croak_no_modify][5.013003]
croak_nocontext][n]
croak_popstack]
croak_sv][5.013001]
croak_xs_usage][5.010001]
croak][v]
csighandler][5.009003]
current_re_engine]
curse]
custom_op_desc][5.007003]
custom_op_get_field]
custom_op_name][5.007003]
custom_op_register][5.013007]
custom_op_xop][5.013007]
cv_ckproto_len_flags]
cv_clone_into]
cv_clone]
cv_const_sv_or_av][n]
cv_const_sv][5.003070]
cv_dump]
cv_forget_slab]
cv_get_call_checker][5.013006]
cv_name][5.021005]
cv_set_call_checker_flags][5.021004]
cv_set_call_checker][5.013006]
cv_undef_flags]
cv_undef]
cvgv_from_hed]
cvgv_set]
cvstash_set]
cx_dump][5.005000]
cx_dup]
cxinc]
dAXMARK][5.009003]
dAX][5.007002]p
dITEMS 5.007002
dMARK
dMULTICALL 5.009003
dMY_CXT_SV 5.007003

dMY_CXT 5.007003
dNOOP 5.006000
dORIGMARK

dSP

dTHR 5.004050

dTHXR 5.021008

dTHXa 5.006000

dTHXoa 5.006000
dTHX 5.006000
dUNDERBAR 5.009002
dVAR 5.009003
dXCPT 5.009002
dXSARGS

dXSI32

dXSTARG 5.006000
deb_curcv

deb_nocontext vn
deb_stack_all

deb_stack_n debop 5.005000
debprof dump 5.005000
debprof

debstackptrs 5.007003
debstack 5.007003
deb_start_match

deb 5.007003
defelem_target

del_sv

delete_eval_scope

delimcpy 5.004000

deprecate_commaless_var_list

despacht_signals 5.007001
destroy_matcher

die_nocontext vn
die_sv 5.013001
die unwind
die v
dirp_dup

div128

djSP

do_aexec5

do_aexec

do_aspawn

do_binmode 5.004050
do_chomp||
do_close||
do_delete_local||
do_dump_pad||
do_eof||
do_exec3||
do_execfree||
do_exec||
do_gv_dump|5.006000|
do_gvgv_dump|5.006000|
do_hv_dump|5.006000|
do_ipcctl||
do_ipcget||
do_join||
do_magic_dump|5.006000|
do_msgrcv||
do_msgsnd||
do_ncmp||
do_oddball||
do_op_dump|5.006000|
do_open6||
do_open9|5.006000|
do_open_raw||
do_opena|5.007001|
do_open|5.003070|
do_pmop_dump|5.006000|
do_print||
do_readline||
do_seek||
do_semop||
do_shmio||
do_smartmatch||
do_spawn_nowait||
do_spawn||
do_sprintf||
do_sv_dump|5.006000|
do_sysseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop||
gv_IOadd

gv_SVadd

gv_add_by_type[[5.011000]
gv_autoload4[5.004000]
gv_autoload_pvn[5.015004]
gv_autoload_pv[5.015004]
gv_autoload_sv[5.015004]
gv_check

gv_const_sv[5.009003]
gv_dump[5.006000]
gv_efullname3[5.003070]
gv_efullname4[5.006001]
gv_efullname

gv_fetchfile_flags[5.009005]
gv_fetchfile

gv_fetchmeth_autoload[5.007003]
gv_fetchmeth_internal

gv_fetchmeth_pv_autoload[5.015004]
gv_fetchmeth_pvn_autoload[5.015004]
gv_fetchmeth_pvn[5.015004]
gv_fetchmeth_pv[5.015004]
gv_fetchmeth_sv_autoload[5.015004]
gv_fetchmeth_sv[5.015004]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod_pv_flags[5.015004]
gv_fetchmethod_pvn_flags[5.015004]
gv_fetchmethod_pvn[5.015004]
gv_fetchmethod_sv_flags[5.015004]
gv_fetchmethod

gv_fetchmeth

gv_fetchpvn_flags[5.009002][p
gv_fetchpvn[5.009004][p
gv_fetchpv||
gv_fetchsv[5.009002][p
gv_fullname3[5.003070]
gv_fullname4[5.006001]
gv_fullname

gv_handler[5.007001]
gv_init_pvn[5.015004]
gv_init_pv[5.015004]
gv_init_svtype||
gv_init_sv[5.015004]
gv_init||
gv_is_in_main

gv_magicalize_isa

gv_magicalize

gv_name_set[5.009004]
gv_override

gv_setref
hv_magic
hv_name_set[5.009003]
hv_notallowed
hv_placeholders_get[5.009003]
hv_placeholders_p
hv_placeholders_set[5.009003]
hv_rand_set[5.018000]
hv_riter_p[5.009003]
hv_riter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.003070]
hv_store_flags[5.008000]
hv_stores[5.009004]
hv_store
hv.Undef_flags
hv.Undef
ibcmpLocale[5.004000]
ibcmpUtf8[5.007003]
ibcmp
incline
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_constants
init_dbargs
init_debugger
init_global_struct
init_i18n10n[5.006000]
init_i18n14n[5.006000]
init_ids
init_interp
init_main_stash
init_perllib
init_postdump_symbols
init_predump_symbols
init_stacks[5.005000]
init_tm[5.007002]
inplace_aassign
instr
intro_my[5.004000]
intuit_method
intuit_more
invert
invlist_array
invlist_clone
invlist_extend
invlist_highest
invlist_is_iterating
invlist_iterfinish
invlist_iterinit
invlist_ternext
invlist_max
invlist_previous_index
invlist_set_len
invlist_set_previous_index
invlist_trim
invoke_exception_hook
io_close
isALNUMC
isALNUM_lazy
isALPHANUMERIC
isALPHA
isASCII
isBLANK
isCNTRL
isDIGIT
isFOO_lc
isFOO_utf8_lc
isGCB
isGRAPH
isGV_with_GP
isIDCONT
isIDFIRST_lazy
isIDFIRST
isLOWER
isOCTAL
isPRINT
isPSXSPC
isPUNCT
isSB
isSPACE
isUPPER
isUTF8_CHAR
isWB
isWORDCHAR
isXDIGIT
is_an_int
is_ascii_string
is_handle_constructor
is_invariant_string
is_lvalue_sub
is_safe_syscall
is_ssc_worth_it
is_uni_alnum_lc
mXPUSHn|5.009002||p
mXPUSHp|5.009002||p
mXPUSHs|5.010001||p
mXPUSHu|5.009002||p
magic_clear_all_env|||
magic_cleararylen_p|||
magic_clearenv|||
magic_clearhints|||
magic_clearhint|||
magic_clearisa|||
magic_clearpack|||
magic_clearsig|||
magic_copycallchecker|||
magic_dump|5.006000|
magic_existspack|||
magic_freearylen_p|||
magic_freeovrld|||
magic_getarylen|||
magic_getdebugvar|||
magic_getdefelem|||
magic_getnkeys|||
magic_getpack|||
magic_getpos|||
magic_getsig|||
magic_getsubstr|||
magic_gettaint|||
magic_getuvar|||
magic_getvec|||
magic_get|||
magic_killbackrefs|||
magic_methcall1|||
magic_methcall1||v
magic_methpack|||
magic_nextpack|||
magic_regdata_cnt|||
magic_regdatum_get|||
magic_regdatum_set|||
magic_scalarpack|||
magic_set_all_env|||
magic_setarylen|||
magic_setcollxfrm|||
magic_setdbline|||
magic_setdebugvar|||
magic_setdefelem|||
magic_setenv|||
magic_sethint|||
magic_setisa|||
magic_setlvref|||

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19665
my_pclose[5.003070]
my_popen_list[5.007001]
my_popen[5.003070]
my_setenv[]
my_setlocale[]
my_snprintf[5.009004]|pvn
my_socketpair[5.007003]|n
my_sprintf[5.009003]|pvn
my_stat_flags[]
my_stat[5.021008]
my_strerror[5.021001]
my_strftime[5.007002]
my_strlcat[5.009004]|pn
my_strlcpy[5.009004]|pn
my_unexec[]
my_vsnprintf[5.009004]|n
need_utf8[]|n
newANONATTRSUB[5.006000]
newANONHASH[]
newANONLIST[]
newANONSUB[]
newASSIGNOP[]
newATTRSUB_x[]
newATTRSUB[5.006000]
newAVREF[]
newAV[]
newBINOP[]
newCONDOP[]
newCONSTSUB_flags[5.015006]
newCONSTSUB[5.004050]|p
newCVREF[]
newDEFSVOP[5.021006]
newFORM[]
newFOROP[5.013007]
newGIVVENOP[5.009003]
newGIVWHENOP[]
newGP[]
newGVOP[]
newGVREF[]
newGVgen_flags[5.015004]
newGVgen[]
newHVREF[]
newHVhv[5.005000]
newHV[]
newIO[]
newLISTOP[]
newLOGOP[]
newLOOPEX[]
newWHILEOP|5.013007|
newXS_deffile||
newXS_flags|5.009004|
newXS_len_flags||
newXSproto|5.006000|
newXS|5.006000|
new_collate|5.006000|
new_constant||
new_cstype|5.006000|
new_he||
new_logop||
new_numeric|5.006000|
new_stackinfo|5.005000|
new_version|5.009000|
new_warnings_bitfield||
next_symbol||
nextargv||
nextchar||
ninstr||
n_o_bareword_allowed||
n_o_fh_allowed||
n_o_op||
noperl_die||
not_a_number||
not_incrementable||
nотhreadhook|5.008000|
nuke_stacks||
num_overflow||
oopsAV||
oopsHV||
op_append_elem|5.013006|
op_append_list|5.013006|
op_clear||
op_contextualize|5.013006|
op_convert_list|5.021006|
op_dump|5.006000|
op_free||
op_integerize||
op_linklist|5.013006|
op_lvalue_flags||
op_lvalue|5.013007|
op_null|5.007002|
op_parent|5.021002|
op_prepend_elem|5.013006|
op_refcnt_decl||
op_refcnt_inc||
op_refcnt_lock|5.009002|
op_refcnt_unlock|5.009002|
op_relocate_sv
op_scope[5.013007]
op_sibling_splice[5.021002]
op_std_init
op_unscope
open_script
openn_cleanup
openn_setup
opmethod_stash
opslab_force_free
opslab_free_no_pad
opslab_free
pMY_CXT_[5.007003]
pMY_CXT][5.007003]
pTHX_[5.006000]
pTHX][5.006000]
packWARN[5.007003]
pack_cat[5.007003]
pack_rec
package_version
package
packlist[5.008001]
pad_add_anon[5.008001]
pad_add_name_pvn[5.015001]
pad_add_name_pvs[5.015001]
pad_add_name_pv[5.015001]
pad_add_name_sv[5.015001]
pad_add_weakref
pad_alloc_name
pad_alloc
pad_block_start
pad_check_dup
pad_compname_type[5.009003]
pad_findlex
pad_findmy_pvn[5.015001]
pad_findmy_pvs[5.015001]
pad_findmy_pv[5.015001]
pad_findmy_sv[5.015001]
pad_fixup_inner_anons
pad_free
pad_leavemy
pad_new[5.008001]
pad_push
pad_reset
pad_setsv
pad_sv
pad_swipe
pad_tidy[5.008001]
pregfree2|5.011000|
pregfree||
prescan_version|5.011004|
printfbuf||
printf_nocontext||vn
process_special_blocks||
ptr_hash||n
ptr_table_clear|5.009005|
ptr_table_fetch|5.009005|
ptr_table_find||n
ptr_table_free|5.009005|
ptr_table_new|5.009005|
ptr_table_split|5.009005|
ptr_table_store|5.009005|
push_scope||
put_charclass_bitmap_innards||
put_code_point||
put_range||
pv_display|5.006000||p
pv_escape|5.009004||p
pv_pretty|5.009004||p
pv_uni_display|5.007003|
qerror||
qsortsvu||
quadmath_format_needed||n
quadmath_format_single||n
re_compile|5.009005|
re_croak2||
re_dup_guts||
re_intuit_start|5.019001|
re_intuit_string|5.006000|
re_op_compile||
realloc|5.007002||n
reentrant_free|5.021008|
reentrant_init|5.021008|
reentrant_retry|5.021008|vn
reentrant_size|5.021008|
ref_array_or_hash||
refcounted_he_chain_2hv||
refcounted_he_fetch_pvn||
refcounted_he_fetch_pvs||
refcounted_he_fetch_pv||
refcounted_he_fetch_sv||
refcounted_he_free||
refcounted_he_inc||
refcounted_he_new_pvn||
refcounted_he_new_pvs||
refcounted_he_new_pv||
save_delete
save_destructor_x[5.006000]
save_destructor[5.006000]
save_freeop
save_freesv
save_generic_pvref[5.006000]
save_generic_svref[5.005030]
save_gp[5.004000]
save_hash
save_hdelete[5.011000]
save_heck_flags
save_heck_flags[5.011000]
save_helem[5.004050]
save_hints[5.010001]
save_hppr
save_int
save_item
save_iv[5.005000]
save_lines
save_list
save_long
save_magic_flags
save_mortalizesv[5.007001]
save_nogv
save_op[5.005000]
save_padsv_and_mortalize[5.010001]
save_pptr
save_pushi32ptr[5.010001]
save_pushptr32ptr
save_pushptrptr[5.010001]
save_pushptr[5.010001]
save_re_context[5.006000]
save_scalar_at
save_scalar
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr
save_strlen
save_svref
save_vptr[5.006000]
savepv[5.009003]
savepv
savesharedpv[5.009005]
savesharedpv[5.013006]
savesharedpv[5.007003]
savesharedsvp[5.013006]
savestack_grow_cnt|5.008001|
savestack_grow||
savesvpv|5.009002|
sawparenss||
scalar_mod_type|n
scalarboolean||
scalarkids||
scalarseq||
scalarvoid||
scalar||
scan_bin|5.006000|
scan_commit||
scan_const||
scan_formline||
scan_heredoc||
scan_hex||
scan_ident||
scan_inputsymbol||
scan_num|5.007001|
scan_oct||
scan_pat||
scan_str||
scan_subst||
scan_trans||
scan_version|5.009001|
scan_vstring|5.009005|
scan_word||
search_const||
seed|5.008001|
sequence_num||
set_ANYOF_arg||
set_caret_X||
set_context|5.006000|n
set_numeric_local|5.006000|
set_numeric_radix|5.006000|
set_numeric_standard|5.006000|
set_padlist||n
setdefout||
share_hek_flags||
share_hek|5.004000|
should_warn_nl||n
si_dup||
sighandler||n
simplify_sort||
skipspace_flags||
softref2xv||
sortcv_stacked||
sortcv_xsub||
sortcv
sortsv_flags[5.009003]
sortsv[5.007003]
space_join_names_mortal
ss_dup
ssc_add_range
ssc_and
ssc_anything
ssc_clear_locale
ssc_cp_and
ssc_finalize
ssc_init
ssc_intersection
ssc_is_anything
ssc_is_cp_posixl_init
ssc_or
ssc_union
stack_grow
start_glob
start_subparse[5.004000]
stdize_locale
strEQ
strGE
strGT
strLE
strLT
strNE
str_to_version[5.006000]
strip_return
strnEQ
strnNE
study_chunk
sub_crush_depth
sublex_done
sublex_push
sublex_start
sv_2bool_flags[5.013006]
sv_2bool
sv_2cv
sv_2io
sv_2iuv_common
sv_2iuv_non_preserve
sv_2iv_flags[5.009001]
sv_2iv
sv_2mortal
sv_2num
sv_2nv_flags[5.013001]
sv_2pv_flags[5.007002]
<table>
<thead>
<tr>
<th>Function</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>sv_newmortal</td>
<td></td>
</tr>
<tr>
<td>sv_newref</td>
<td></td>
</tr>
<tr>
<td>sv_nolocking</td>
<td>5.007003</td>
</tr>
<tr>
<td>sv_nosharing</td>
<td>5.007003</td>
</tr>
<tr>
<td>sv_nounlocking</td>
<td></td>
</tr>
<tr>
<td>sv_nv</td>
<td>5.005000</td>
</tr>
<tr>
<td>sv_only_taint_magic</td>
<td>n</td>
</tr>
<tr>
<td>sv_or_pv_pos_u2b</td>
<td></td>
</tr>
<tr>
<td>sv.peek</td>
<td>5.005000</td>
</tr>
<tr>
<td>sv_pos_b2u_flags</td>
<td>5.019003</td>
</tr>
<tr>
<td>sv_pos_b2u_midway</td>
<td></td>
</tr>
<tr>
<td>sv_pos_b2u</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pos_u2b_cached</td>
<td></td>
</tr>
<tr>
<td>sv_pos_u2b_flags</td>
<td>5.011005</td>
</tr>
<tr>
<td>sv_pos_u2b_forwards</td>
<td>n</td>
</tr>
<tr>
<td>sv_pos_u2b_midway</td>
<td>n</td>
</tr>
<tr>
<td>sv_pos_u2b</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pvbyten_force</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pvbyten</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pvbyte</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pvn_force_flags</td>
<td>5.007002</td>
</tr>
<tr>
<td>sv_pvn_force</td>
<td></td>
</tr>
<tr>
<td>sv_pvn_nomg</td>
<td>5.007003</td>
</tr>
<tr>
<td>sv_pvn</td>
<td>5.005000</td>
</tr>
<tr>
<td>sv_pvutf8n_force</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pvutf8n</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pvutf8</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_pv</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_recode_to_utf8</td>
<td>5.007003</td>
</tr>
<tr>
<td>sv_reftype</td>
<td></td>
</tr>
<tr>
<td>sv_ref</td>
<td></td>
</tr>
<tr>
<td>sv_release_COW</td>
<td></td>
</tr>
<tr>
<td>sv_replace</td>
<td></td>
</tr>
<tr>
<td>sv_report_used</td>
<td></td>
</tr>
<tr>
<td>sv_resettvn</td>
<td></td>
</tr>
<tr>
<td>sv_reset</td>
<td></td>
</tr>
<tr>
<td>sv_rvweaken</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_sethek</td>
<td></td>
</tr>
<tr>
<td>sv_setiv_mg</td>
<td>5.004050</td>
</tr>
<tr>
<td>sv_setiv</td>
<td></td>
</tr>
<tr>
<td>sv_setnv_mg</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_setnv</td>
<td></td>
</tr>
<tr>
<td>sv_setpv_mg</td>
<td>5.004050</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext</td>
<td>pv</td>
</tr>
<tr>
<td>sv_setpvf_mg</td>
<td>5.006000</td>
</tr>
<tr>
<td>sv_setpvf_nocontext</td>
<td>vn</td>
</tr>
<tr>
<td>sv_setpvf</td>
<td>5.004000</td>
</tr>
<tr>
<td>sv_setpviv_mg</td>
<td>5.008001</td>
</tr>
</tbody>
</table>
svtype||
swallow_bom||
swash_fetch||5.007002|
swash_init||5.006000|
swash_scan_list_line||
swatch_get||
sync_locale||5.021004|
sys_init3||5.010000|
sys_init||5.010000|
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
sys_term||5.010000|
taint_env||
taint_proper||
tied_method||v
tmps_grow_p||
toFOLD_uni||5.007003|
toFOLD_utf8||5.019001|
toFOLD||5.019001|
toLOWER_L1||5.019001|
toLOWER_LC||5.004000|
toLOWER_uni||5.007003|
toLOWER_utf8||5.015007|
toLOWER||
toTITLE_uni||5.007003|
toTITLE_utf8||5.015007|
toTITLE||5.019001|
toUPPER_uni||5.007003|
toUPPER_utf8||5.015007|
toUPPER||
to_byte_substr||
to_lower_latin1||n
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.015007|
to_utf8_lower||5.015007|
to_utf8_substr||
to_utf8_title||5.015007|
to_utf8_upper||5.015007|
tokenize_use||
tokeq||
if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", "."x(40-length($f)), ", "x, format_version($API{$f}{todo}), ","x;
  }
  exit 0;
}
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19686


if ($function) {
    if ($^A) {  
        if (exists $API{$function->[0]}) {  
            my @n = find_api($function->[1]);  
            push @{$depends{$function->[0]}}, @n if @n  
        }  
        undef $function;  
    } else {  
        $function->[1] = $_;  
    }  
}  

$function = [$1, ""] if m{^DPPP_\(my_(\w+)\)\};

$replace = $1 if m{^s*\$rcce\s+Replace:\s+(\d+)\s+\$rcce\s*\$\};  
$replace{$2} = $1 if $replace and m{^s*#s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};  
$replace{$2} = $1 if m{^s*#s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*\$rcce\s+Replace\s+\$rcce\}  
$replace{$1} = $2 if m{^s*\$rcce\s+Replace \((\w+)\) with \((\w+)\) \$rcce\s*\$\};

if (m{^s*\$rcce\s+(\w+)(?s:.*\w+)*\s+depends\s+on\s+(\w+)(?s:.*\w+)*\s+\$rcce\s*\$\}) {  
    my @deps = map { s/\s+//g; $_ } split /,/, $3;  
    my $d;  
    for $d (map { s/\s+//g; $_ } split /,/, $1) {  
        push @{$depends{$d}}, @deps;  
    }  
}

$need{$1} = 1 if m{^#if\s+defined\(NEED\(_\w+(?:_GLOBAL)?\)\)\};
}

for (values %depends) {  
    my %s;  
    $_ = {[sort grep !$s{$_}++, @$_]};  
}

if (exists $opt{\'api-info\'}) {  
    my $f;  
    my $count = 0;  
    my $match = $opt{\'api-info\'} =~ m!/^/(.*)/$! ? $1 : "^Q$opt{\'api-info\'}\E\$";  
    for $f (sort { lc $a cmp lc $b } keys %API) {  
        next unless $f =~ $match;  
        print "\n=== $f ===\n\n";  
        my $info = 0;  
        if (API[$f]{base} || API[$f]{todo}) {  
            my $base = format_version(API[$f]{base} || API[$f]{todo});  
            print "Supported at least starting from perl-$base\n";  
            $info++;  
        }  
    }  
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.
";
    print "Support needs to be explicitly requested by NEED_$f
" if exists $need{$f};
    print "Depends on: ", join(',', @{$depends{$f}}), 
" if exists $depends{$f};
    print "unShints{$f} if exists Shints{$f};
    print "unWARNING:un$warnings{$f} if exists $warnings{$f};
    $info++;
}
print "No portability information available.\n" unless $info;
$count++;}
$count or print "Found no API matching \'$opt['api-info']\'.\n";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
            else { warn "$_ is not a file.\n" }
        }
    }
    my @new = grep { -f } glob $_

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19688
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19689


my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19690


}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19691


if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*?!aTHX_\?)(?!aTHX\s*\(\)|[^\s)]*\))}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' . $2 }ge);
        if ($changes) {
            warning("Doesn't pass interpreter argument aTHX to Perl_$func");
            $file{changes} += $changes;
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*?!aTHX_\?)(?!aTHX\s*\(\)|[^\s)]*\))\(\)?}{ $func}\1\2;g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s{\b$func\(\)?}{ $replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        }
        else {
            diag("Uses $func");
        }
    } else {
        $warnings += hint($func);
    }
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport'un";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
$message = "No need to define NEED_$func when already needed globally";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";"
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";"

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@${global{needs}{$func}}] need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= 
"#define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define\n)/$pp/m)) {
$pp = ";
$file{changes}++;
}

unless ($file{has_inc_ppport}) {
  diag("Needs to include '\$ppport''");
  $pp .= qq(#include "$ppport"
)
}

if ($pp) {
  $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
   || ($c =~ s/^\Q$HS*\Q$HS*include.*Q$ppport\E)/Spp/m)
   || ($c =~ s/^\Q$HS*\Q$HS*include.*XSUB.*\Q$ppport\E)/$1Spp/m)
   || ($c =~ s/^/$pp/);
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport.*?[LF]//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : ";
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ";
my $warn = $warnings ? " ($warnings warning$s) " : ";
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
my $newfile = "$filename$opt{copy}";
if (-e $newfile) {
    error("$newfile' already exists, refusing to write copy of $filename’");
} else {
    local *F;
    if (open F, ">$newfile") {
        info("Writing copy of $filename' with changes to $newfile’");
        print F $c;
        close F;
    } else {
        error("Cannot open $newfile' for writing: $!");
    }
}
elseif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open $opt{patch}’ for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        } mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
} else {
    info("Looks good");
}
}
close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;.
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!$diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!$diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!$diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!$diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;.
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;
while (-e "$tmp.$suf") { $suf++; }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
  print F $str;
  close F;

  if (open F, "$prog $file $tmp |") {
    while (<F>) {
      s/Q$tmp/E/$file.patched/;
      $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  } else {
    error("Cannot open '$tmp' for writing: $!");
  }
  return undef;
}

sub rec_depend {
  my($func, $seen) = @_; 
  return () unless exists $depends{$func};
  $seen = {%{$seen||{}}};
  return () if $seen->{$func}++;
  my %s;
  grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @ {$depends{$func}};
}

sub parse_version {
  my $ver = shift;

  if ($ver =~ /^(\d+).(\d+).(\d+)/) {
    return ($1, $2, $3);
  } elsif ($ver !~ /^\d+\[\d_\]+$/) {
    die "cannot parse version '$ver'\n";
  }

  $ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /([0-9]+)([0-9]{3})([0-9]{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver'
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /([0-9]+)([0-9]{3})([0-9]{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'
        }
        $s /= 10;
    }

    $ver = sprintf "%d.03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag

{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19699


See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> };  
  my($copy) = $self =~ / =head\d\s+COPYRIGHT\s*\^\(\.*\)?\^=\w+/ms;  
  $copy =~ s/^(?=}\^\$S+)//gms;  
  $self =~ s/\^\$HS+Do NOT edit.*?\^=(...)$/copy/ms;  
  $self =~ s/\^\$SKIP.*?\^=(^\$DATA__)\^SKIP
  if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort };  
    \$@ and die "Cannot require Devel::PPPort, please install.\n";  
    if (eval \$Devel::PPPort::VERSION < $VERSION) {
      die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
  Sorry, but this is a stripped version of \$0.

  To be able to use its original script and doc functionality,
  please try to regenerate this file using:

  \$^X \$0 --unstrip

END

/;ms;
  my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
  $c =~ s{\/[\(^\*[^*]*\*+(?:[^$ccs]\[^*]*\*+)*/ | \/[\^
\]*)\[\(^\*[^\^]*\*+\)]}\b\[[^$ccs]\[^*]*\*+\])gsex;
  $c =~ s!\s+$!!mg;
  $c =~ s!^$LF!!mg;
  $c =~ s!^\s*#!#!mg;
  $c =~ s!^\s+!!mg;
  open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
";

exit 0;
}

__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

This document describes threads version 2.21

=head1 WARNING

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially L<discouraged|perlpolicy/discouraged>.

=head1 SYNOPSIS

use threads ('yield',
   'stack_size' => 64*4096,
   'exit' => 'threads_only',
   'stringify');

sub start_thread {
   my @args = @_;
   print('Thread started: ', join(' ', @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create(
    'context' => 'list',
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create(
    'context' => 'list',
    'stack_size' => 32*4096,
    'exit'     => 'thread_only',
    \&foo);
# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
} if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:

    use threads;
    use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)

It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.

If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:

    my $can_use_threads = eval 'use threads; 1';
    if ($can_use_threads) {
        # Do processing using threads
        ...
    }
} else {
    # Do it without using threads
    ...
}

=item $thr = threads-&gt;create(FUNCTION, ARGS)

This will create a new thread that will begin execution with the specified
entry point function, and give it the I&lt;ARGS&gt; list as parameters. It will
return the corresponding threads object, or C&lt;undef&gt; if thread creation failed.

I&lt;FUNCTION&gt; may either be the name of a function, an anonymous subroutine, or
a code ref.

    my $thr = threads-&gt;create('func_name', ...);
    # or
    my $thr = threads-&gt;create(sub { ... }, ...);
    # or
    my $thr = threads-&gt;create(&amp;func, ...);

The C-&lt;gt&gt;new() method is an alias for C-&lt;gt&gt;create().

=item $thr-&gt;join()

This will wait for the corresponding thread to complete its execution. When
the thread finishes, C-&lt;gt&gt;join() will return the return value(s) of the
entry point function.

The context (void, scalar or list) for the return value(s) for C-&lt;gt&gt;join() is
determined at the time of thread creation.

    # Create thread in list context (implicit)
    my ($thr1) = threads-&gt;create(sub {
        my @results = qw(a b c);
        return (@results);
    });
    # or (explicit)
    my $thr1 = threads-&gt;create({ context =&gt; 'list' },
        sub {
            my @results = qw(a b c);
            return (@results);
        });
    # Retrieve list results from thread
    my @res1 = $thr1-&gt;join();

    # Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
  });
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1},
  sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or
detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will
cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be
discarded. When the program exits, any detached threads that are still
running are silently terminated.

If the program exits without all threads having either been joined or
detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread
will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main
thread in a program being 0, and incrementing by 1 for every thread created.
Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

use threads qw(stringify);

my $thr = threads->create(...);
print("Thread $thr started\n"); # Prints: Thread 1 started

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>.
Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)> and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>>.)
=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded
to the more natural forms:

```
if ($thr1 == $thr2) {
    print("Threads are the same\n");
}
# or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}
```

(Thread comparison is based on thread IDs.)

==item async BLOCK;

C<async> creates a thread to execute the block immediately following
it. This block is treated as an anonymous subroutine, and so must have a
semicolon after the closing brace. Like C<threads-E<gt>create()>, C<async>
returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef>
if the thread terminates I<normally>. Otherwise, it returns the value of
C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This I<private> method returns a pointer (i.e., the memory location expressed
as an unsigned integer) to the internal thread structure associated with a
threads object. For Win32, this is a pointer to the C<HANDLE> value returned
by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer
to the C<pthread_t> structure used in the C<pthread_create> call (i.e.,
C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is
to provide other (XS-based) thread modules with the capability to access, and
possibly manipulate, the underlying thread structure associated with a Perl
thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back
EXITING A THREAD

The usual method for terminating a thread is to \texttt{return(EXPR)} from the entry point function with the appropriate return value(s).

If needed, a thread can be exited at any time by calling \texttt{exit()}. This will cause the thread to return \texttt{undef} in a scalar context, or the empty list in a list context.

When called from the main thread, this behaves the same as \texttt{exit(0)}.

When called from a thread, this behaves like \texttt{exit()} (i.e., the exit status code is ignored).

When called from the main thread, this behaves the same as \texttt{exit(status)}.

Calling \texttt{die()} in a thread indicates an abnormal exit for the thread. Any \texttt{SIG\_DIE} handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the \texttt{die()} call.

Calling \texttt{exit(EXPR)} inside a thread causes the whole application to terminate. Because of this, the use of \texttt{exit()} inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.

If \texttt{exit()} really is needed, then consider using the following:

\texttt{exit(status);}  # Thread friendly

This globally overrides the default behavior of calling \texttt{exit()} inside a thread, and effectively causes such calls to behave the same as \texttt{exit(status)}. In other words, with this setting, calling \texttt{exit()}
causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The I<main> thread is unaffected by this setting.

=item threads->create(['exit' => 'thread_only'], ...)

This overrides the default behavior of C<exit()> inside the newly created thread only.

=item $thr->set_thread_exit_only(boolean)

This can be used to change the I<exit thread only> behavior for a thread after it has been created. With a I<true> argument, C<exit()> will cause only the thread to exit. With a I<false> argument, C<exit()> will terminate the application.

The I<main> thread is unaffected by this call.

=item threads->set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the I<state> of a thread.

=over

=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()
Returns true if the thread has been detached.

=item threads-&gt;is_detached()

Class method that allows a thread to determine whether or not it is detached.

=back

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()> or L<wantarray>(). The thread may then specify a value of the appropriate type to be returned from C<selectjoin()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<selectcreate()> with a hash reference as the first argument:

    my $thr = threads-&gt;create({context =&gt; 'list'}, \&foo);
    ...
    my @results = $thr-&gt;join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function C<foo> will be called in list (array) context such that the parent thread can receive a list (array) from the C<selectjoin()> call. (C<array> is synonymous with C<list>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:

    my $thr = threads-&gt;create({context =&gt; 'void'}, \&foo);
    ...
    $thr-&gt;join();

The context type may also be used as the I<key> in the hash reference followed by a I<true> value:

    threads-&gt;create({'scalar' =&gt; 1}, \&foo);
    ...
    my ($thr) = threads-&gt;list();
    my $result = $thr-&gt;join();
=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the `create()` call:

```perl
# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);
```

=head2 $thr->wantarray()

This returns the thread's context in the same manner as `wantarray()`.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running `wantarray()` inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=over

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.
=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)> or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:

    PERL5_ITHREADS_STACK_SIZE=1048576
    export PERL5_ITHREADS_STACK_SIZE
    perl -e'use threads; print(threads->get_stack_size(), "\n")'

This value overrides any C<stack_size> parameter given to C<use threads>. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call C<-E<gt>create()> with a hash reference as the first argument:
my $thr = threads->create({ 'stack_size' => 32*4096 },
  \&foo, @args);

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an
existing thread (C<$thr1>). This is shorthand for the following:

my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({ 'stack_size' => $stack_size },
  FUNCTION, ARGS);

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals">
for more details), then signals may be sent and acted upon by individual
threads.

=over 4

=item $thr->kill('SIG...');

Sends the specified signal to the thread. Signal names and (positive) signal
numbers are the same as those supported by
L<kill()/perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and
(depending on the OS) 15 are all valid arguments to C<E<gt>kill()>.

Returns the thread object to allow for method chaining:

 $thr->kill('SIG...')->join();

=back

Signal handlers need to be set up in the threads for the signals they are
expected to act upon. Here’s an example for I<cancelling> a thread:

use threads;

sub thr_func

{  
  # Thread 'cancellation' signal handler
  $SIG{'KILL'} = sub { threads->exit(); };  

  ...
}


# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary I<suspend> and I<resume> capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It I<emulates> signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending C<$thr-E<gt>kill('STOP')> does not actually suspend a thread (or the whole process), but does cause a C<$SIG['STOP']> handler to be called in that thread (as illustrated above).
As such, signals that would normally not be appropriate to use in the `kill()` command (e.g., `kill('KILL', $$)`) are okay to use with the `kill()` method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is stuck on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the `main` thread exits, then this warning cannot be suppressed using `no warnings 'threads';` as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate `man` page for `pthread_create` to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using `threads->exit()`. For example, the thread may have terminated because of an error, or by using `die`.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(1<SIZE>) returned 22

The specified 1<SIZE> exceeds the system's maximum stack size. Use a smaller value for the stack size.
If needed, thread warnings can be suppressed by using:

    no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

    $thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C<-E<gt>kill()> call.

=back

=head1 BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=over
=item Thread-safe modules

See L<perlmod/Making your module threadsafe> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<-E<gt>import()> after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<queues/Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory
is shared among all threads such that changing it in one thread (e.g., using
C<chdir()>) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory
setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using
C<system()> or back-ticks) made from threads use the environment variable
settings from the I<main> thread. In other words, changes made to C<%ENV> in
a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call.
For example:

my $msg = 'hello';
system("FOO=$msg; echo \$FOO"); # Outputs 'hello' to STDOUT

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script.
Therefore, setting up signal handlers in threads for purposes other than
L</"THREAD SIGNALLING"> as documented above will not accomplish what is
intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle
alarms in threads, set up a signal handler in the main thread, and then use
L</"THREAD SIGNALLING"> to relay the signal to the thread:

# Create thread with a task that may time out
my $thr = threads->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); };
        alarm(10);
        ... # Do work here
        alarm(0);
    };
    if ($@ =~ /Timeout/) {
        warn("Task in thread timed out\n");
    }
});

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') };
... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt>kill()> signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a C<join> operation, the value and everything that it references is copied across to the joining thread, in much the same way that values are copied upon thread creation. This works fine for most kinds of value, including arrays, hashes, and subroutines. The copying recurses through array elements, reference scalars, variables closed over by subroutines, and other kinds of reference.

However, everything referenced by the returned value is a fresh copy in the joining thread, even if a returned object had in the child thread been a copy of something that previously existed in the parent thread. After joining, the parent will therefore have a duplicate of each such object. This sometimes matters, especially if the object gets mutated; this can especially matter for private data to which a returned subroutine
provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared/"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod/"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc/"require VERSION"> or L<eval|perlfunc/"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.


=item Detached threads and global destruction

If the main thread exits while there are detached threads which are still running, then Perl's global destruction phase is not executed because otherwise certain global structures that control the operation of threads and that are allocated in the main thread's memory may get destroyed before the detached thread is destroyed.

If you are using any code that requires the execution of the global destruction phase for clean up (e.g., removing temp files), then do not use
detached threads, but rather join all threads before exiting the program.

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

threads on MetaCPAN: L<https://metacpan.org/release/threads>


L<threads::shared>, L<perlthrtut>


Perl threads mailing list: L<http://lists.perl.org/list/ithreads.html>

Stack size discussion: L<http://www.perlmonks.org/?node_id=532956>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR
threads is released under the same license as Perl.

ACKNOWLEDGEMENTS

Richard Soderberg perl AT crystalflame DOT net - Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens simon AT brecon DOT co DOT uk - Being there to answer zillions of annoying questions

Rocco Caputo troc AT netrus DOT net

Vipul Ved Prakash mail AT vipul DOT net - Helping with debugging

Dean Arnold darnold AT presicient DOT com - Stack size API

--

Found in path(s):

No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):

1.114 glib 2.56.4-10.el8_4.1

1.114.1 Available under license:
This work may be reproduced and distributed in whole or in part, in any medium, physical or electronic, so as long as this copyright notice remains intact and unchanged on all copies. Commercial
redistribution is permitted and encouraged, but you may not redistribute, in whole or in part, under terms more restrictive than those under which you received it. If you redistribute a modified or translated version of this work, you must also make the source code to the modified or translated version available in electronic form without charge. However, mere aggregation as part of a larger work shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain, and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE WORK AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE WORK, EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.115 gdb 8.2-15.el8

1.115.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.
We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program---to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too,
receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers’ and authors’ protection, the GPL clearly explains that there is no warranty for this free software. For both users’ and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users’ freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.
@item Protecting Users’ Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate
@item The work must carry prominent notices stating that you modified it, and giving a relevant date.
@item The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices''.
@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used'' refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant
mode of use of the product.

``Installation Information'' for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

@item Additional Terms.

``Additional permissions'' are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

- Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

- Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

- Limiting the use for publicity purposes of names of licensors or authors of the material; or

- Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

- Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered `further restrictions' within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

@item Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

@item Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

@item Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An `entity transaction` is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

@item Patents.

A `contributor` is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's `contributor version`.

A contributor's `essential patent claims` are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, `control` includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.
@item No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

@item Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

@item Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a later version.

@item Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the `copyright` line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@example

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an `about box'.

You should also get your employer (if you work as a programmer) or school, if any, to sign a `copyright disclaimer' for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see @url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.

@c man end

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.


You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version”.

A contributor's "essential patent claims” are all patent claims
owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safer to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS
This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

- COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation’s users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual title.

@item

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License or any later version applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document
@end group
@end example
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts.  A copy of the license is included in the section entitled `GNU
Free Documentation License`.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the `\`with@dots{}Texts.` line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library ‘Frob’ (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

GNU LIBRARY GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some  
specially designated Free Software Foundation software, and to any  
other libraries whose authors decide to use it. You can use it for  
your libraries, too.

When we speak of free software, we are referring to freedom, not  
price. Our General Public Licenses are designed to make sure that you  
have the freedom to distribute copies of free software (and charge for  
this service if you wish), that you receive source code or can get it  
if you want it, that you can change the software or use pieces of it  
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid  
anyone to deny you these rights or to ask you to surrender the rights.  
These restrictions translate to certain responsibilities for you if  
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis  
or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link a program with the library, you must provide  
complete object files to the recipients so that they can relink them  
with the library, after making changes to the library and recompiling  
it. And you must show them these terms so they know their rights.
Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License: they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2013-2018, Intel Corporation

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.116 perl-pathtools 3.74-1.el8

1.116.1 Available under license:

No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.
devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2, File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Functions.pm
No license file was found, but licenses were detected in source scan.

/ * See
   * for the details of why the BSD license is compatible with the
   * AL/GPL standard perl license.
   */
/
/* Copyright (c) 2003 Constantin S. Svintsoff <kostik@iclub.nsu.ru>
*/
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The names of the authors may not be used to endorse or promote
* products derived from this software without specific prior written
* permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand- archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.xs
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.39

Automatically created by Devel::PPPort running under perl 5.027009.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

______________________________________________________________

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

perl ppport.h [options] [source files]
Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither `--patch` or `--copy` are given, the default is to simply print the diffs for each file. This requires either `Text::Diff` or a `diff` program to be installed.

```bash
=head2 --diff=
<program>
```

Manually set the diff program and options to use. The default is to use `Text::Diff`, when installed, and output unified context diffs.

```bash
=head2 --compat-version=
<version>
```

Tell `ppport.h` to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of `ppport.h` if you intend to be backward compatible only down to a certain Perl version.

```bash
=head2 --cplusplus
```

Usually, `ppport.h` will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs `ppport.h` to leave C++ comments untouched.

```bash
=head2 --quiet
```

Be quiet. Don't print anything except fatal errors.

```bash
=head2 --nodiag
```

Don't output any diagnostic messages. Only portability alerts will be printed.

```bash
=head2 --nohints
```

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

```bash
=head2 --nochanges
```
Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

SvRX() NEED_SvRX NEED_SvRX_GLOBAL
caller_cx() NEED_caller_cx NEED_caller_cx_GLOBAL
croak_xs_usage() NEED_croak_xs_usage NEED_croak_xs_usage_GLOBAL
die_sv() NEED_die_sv NEED_die_sv_GLOBAL
eval_pv() NEED_eval_pv NEED_eval_pv_GLOBAL
grok_bin() NEED_grok_bin NEED_grok_bin_GLOBAL
grok_hex() NEED_grok_hex NEED_grok_hex_GLOBAL
grok_number() NEED_grok_number NEED_grok_number_GLOBAL
grok_numeric_radix() NEED_grok_numeric_radix NEED_grok_numeric_radix_GLOBAL
grok_oct() NEED_grok_oct NEED_grok_oct_GLOBAL
gv_fetchpvn_flags() NEED_gv_fetchpvn_flags NEED_gv_fetchpvn_flags_GLOBAL
load_module() NEED_load_module NEED_load_module_GLOBAL
mess() NEED_mess NEED_mess_GLOBAL
mess_nocontext() NEED_mess_nocontext NEED_mess_nocontext_GLOBAL
mess_sv() NEED_mess_sv NEED_mess_sv_GLOBAL
mg_findex() NEED_mg_findex NEED_mg_findex_GLOBAL
my_snprintf() NEED_my_snprintf NEED_my_snprintf_GLOBAL
my_sprintf() NEED_my_sprintf NEED_my_sprintf_GLOBAL
my_strlcat() NEED_my_strlcat NEED_my_strlcat_GLOBAL
my_strlcpy() NEED_my_strlcpy NEED_my_strlcpy_GLOBAL
newCONSTSUB() NEED_newCONSTSUB NEED_newCONSTSUB_GLOBAL
newRV_noinc() NEED_newRV_noinc NEED_newRV_noinc_GLOBAL
newSV_type() NEED_newSV_type NEED_newSV_type_GLOBAL
newSVpvn_flags() NEED_newSVpvn_flags NEED_newSVpvn_flags_GLOBAL
newSVpvn_share() NEED_newSVpvn_share NEED_newSVpvn_share_GLOBAL
pv_display() NEED_pv_display NEED_pv_display_GLOBAL
pv_escape() NEED_pv_escape NEED_pv_escape_GLOBAL
pv_pretty() NEED_pv_pretty NEED_pv_pretty_GLOBAL
sv_2pvflags() NEED_sv_2pvflags NEED_sv_2pvflags_GLOBAL
sv_2pvbyte() NEED_sv_2pvbyte NEED_sv_2pvbyte_GLOBAL
sv_catpvn() NEED_sv_catpvn NEED_sv_catpvn_Global
sv_catpvn_nocontext() NEED_sv_catpvn_nocontext NEED_sv_catpvn_nocontext_GLOBAL
sv_pvn_force_flags() NEED_sv_pvn_force_flags NEED_sv_pvn_force_flags_GLOBAL
sv_setpvn() NEED_sv_setpvn NEED_sv_setpvn_GLOBAL
sv_setpvn_nocontext() NEED_sv_setpvn_nocontext NEED_sv_setpvn_nocontext_GLOBAL
sv_unmagicext() NEED_sv_unmagicext NEED_sv_unmagicext_GLOBAL
vload_module() NEED_vload_module NEED_vload_module_GLOBAL
vmess() NEED_vmess NEED_vmess_GLOBAL
vnewSVpvn() NEED_vnewSVpvn NEED_vnewSVpvn_GLOBAL
warner() NEED_warner NEED_warner_GLOBAL
The default namespace is C<DPPP_>.

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn
Since the argument to `C<--api-info>` can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `C<_nomg>` functions or

```
perl ppport.h --api-info=/ /
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report here: <https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back
For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.39;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[\w.]+$/;   # line feed
my $LF = '(?:\r\n|\[\r\n\])';     # horizontal whitespace
my $HS = '\[ \t\]';             # horizontal whitespace
# Never use C comments in this file!
my $ccs = '/.*\*/';
my $cce = '.*\*/';
my $rcce = quotemeta $cce;
my $rccs = quotemeta $ccs;
my $ppport = quotemeta $ppport;
my $LF = quotemeta $LF;
my $HS = quotemeta $HS;
my $ccs = quotemeta $ccs;
my $cce = quotemeta $cce;
my $rccs = quotemeta $rccs;
my $rcce = quotemeta $ccce;
eval {
  require Getopt::Long;
  Getopt::Long:GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
}

if ($@ and grep /^-/i, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION.
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^\|]*)\|([^\|]*)\|([^\|]*)$/?
  ($1 => { ($2 ? ( base     => $2 ) : ()),
    ($3 ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  })
  : die "invalid spec: $_" } qw(
ASCII_TO_NEED|5.007001|n
AvFILLp|5.004050||p
AvFILL||)
BhkDISABLE||5.024000|
BhkENABLE||5.024000|
BhkENTRY_set||5.024000|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
C_ARRAY_END|5.013002||p
C_ARRAY_LENGTH|5.008001||p
CopFILEAV|5.006000||p
CopFILEG_set||5.006000||p
CopFILEGV|5.006000||p
CopFILEGv_set||5.006000||p
CopFILE_set||5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set||5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set||5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050||p
Copy|||
CvPADLIST|5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DECLARATION_FOR_LC_NUMERIC_MANIPULATION|5.021010
DEFSV_set||5.010001||p
DEFSV|5.004050||p
DO_UTF8|5.006000|
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||
FREETMPS|||
GIMME_V|5.004000||n
GIMME|||
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19828
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_sv_arearoot</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_sv_no</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_sv_undef</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_sv_yes</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_tainted</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_tainting</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_tokenbuf</td>
<td>5.024000</td>
</tr>
<tr>
<td>POP_MULTICALL</td>
<td>5.024000</td>
</tr>
<tr>
<td>POPi</td>
<td>n</td>
</tr>
<tr>
<td>POPl</td>
<td>n</td>
</tr>
<tr>
<td>POPn</td>
<td>n</td>
</tr>
<tr>
<td>POPpytx</td>
<td>5.007001</td>
</tr>
<tr>
<td>POPpx</td>
<td>5.005030</td>
</tr>
<tr>
<td>POPp</td>
<td>n</td>
</tr>
<tr>
<td>POPs</td>
<td>n</td>
</tr>
<tr>
<td>POPu</td>
<td>5.006000</td>
</tr>
<tr>
<td>POPu</td>
<td>5.004000</td>
</tr>
<tr>
<td>PTR21V</td>
<td>5.006000</td>
</tr>
<tr>
<td>PTR2NV</td>
<td>5.006000</td>
</tr>
<tr>
<td>PTR2UV</td>
<td>5.006000</td>
</tr>
<tr>
<td>PTR2nat</td>
<td>5.009003</td>
</tr>
<tr>
<td>PTR2ul</td>
<td>5.007001</td>
</tr>
<tr>
<td>PTRV</td>
<td>5.006000</td>
</tr>
<tr>
<td>PUSHMARK</td>
<td></td>
</tr>
<tr>
<td>PUSH_MULTICALL</td>
<td>5.024000</td>
</tr>
<tr>
<td>PUSHi</td>
<td></td>
</tr>
<tr>
<td>PUSHmortal</td>
<td>5.009002</td>
</tr>
<tr>
<td>PUSHn</td>
<td></td>
</tr>
<tr>
<td>PUSHp</td>
<td></td>
</tr>
<tr>
<td>PUSHs</td>
<td></td>
</tr>
<tr>
<td>PUSHu</td>
<td>5.004000</td>
</tr>
<tr>
<td>PUTBACK</td>
<td></td>
</tr>
<tr>
<td>PadARRAY</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadMAX</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadlistARRAY</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadlistMAX</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadlistNAMESARRAY</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadlistNAMESMAX</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadlistNAMES</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadlistREFCNT</td>
<td>5.017004</td>
</tr>
<tr>
<td>PadnameIsOUR</td>
<td></td>
</tr>
<tr>
<td>PadnameIsSTATE</td>
<td></td>
</tr>
<tr>
<td>PadnameLEN</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadnameOURSTASH</td>
<td></td>
</tr>
<tr>
<td>PadnameOUTER</td>
<td></td>
</tr>
<tr>
<td>PadnamePV</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadnameREFCNT_dec</td>
<td>5.024000</td>
</tr>
<tr>
<td>PadnameREFCNT</td>
<td>5.024000</td>
</tr>
</tbody>
</table>
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags||5.009003||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags||5.007002||p
SvPV_force_mutable|5.009003||p
SvPV_force_nolen|5.009003||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force||5.007003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg_nolen|5.013007||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set|||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbyte_force|5.006000|
SvPVbyte|5.006000|
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx|||
SvPVVx|||
SvREFCNT_dec_NN|5.017007|
SvREFCNT_dec|||
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
SvREFCNT_inc_simple_void|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_void_NN|5.009004||p
SvREFCNT_inc_void|5.009004||p
SvREFCNT_inc|5.009004||p
SvREFCNT|||
SvROK_off|||
SvROK_on|||
SvROK|||
SvRV_set|5.009003||p
SvRVV|||
SvRXOK|5.009005||p
SvRX|5.009005||p
SvSETMAGIC||
SvSHARE|5.007003|
SvSHARED_HASH|5.009003||p
SvUNLOCK|5.007003]
SvVSTRING_mg|5.009004||p
SvVOK|5.008001|
SvTRUE_nomg|5.009001||p
SvTRUE||
SvTYPE||
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000|p
SvUPGRADE||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000||p
SvUVX|5.004000||p
SvUV_nomg|5.009001||p
SvUV_set|5.009003||p
SvUVx|5.004000||p
SvUV|5.004000||p
SvVOK|5.008001|
SvVSTRING_mg|5.009004||p
THIS||n
UNDERBAR|5.009002||p
UTF8SKIP|5.006000|
UTF8_MAXBYTES|5.009002||p
UVCHR_SKIP|5.022000|
UVSIZE|5.006000||p
UVTXTYPE|5.006000||p
UVXf|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
UVxf|5.006000||p
WARN_ALL|5.006000||p
WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.024000||p
WARN_BAREWORD|5.006000||p
_invlist_dump
_invlist_intersection_maybe_complement_2nd
_invlist_intersection
_invlist_invert
_invlist_len
_invlist_populate_swatch
_invlist_search
_invlist_subtract
_invlist_union_maybe_complement_2nd
_invlist_union
_is_cur_LC_category_utf8
_is_in_locale_category
_is_uni_FOO
_is_uni_perl_idcont
_is_uni_perl_idstart
_is_utf8_FOO
_is_utf8_char_slow
_is_utf8_idcont
_is_utf8_idstart
_is_utf8_mark
_is_utf8_perl_idcont
_is_utf8_perl_idstart
_is_utf8_xidcont
_is_utf8_xidstart
_load_PL_utf8_foldclosures
_make_exactf_invlist
_new_invlist_C_array
_new_invlist
_pMY_CXT
_setlocale_debug_string
_setup_canned_invlist
_swash_inversion_hash
_swash_to_invlist
_to_fold_latin1
_to_uni_fold_flags
_to_upper_title_latin1
_to_utf8_case
_to_utf8_fold_flags
_to_utf8_lower_flags
_to_utf8_title_flags
_to_utf8_upper_flags
_warn_problematic_locale
aMY_CXT
aMY_CXT
aTHXR
aTHXR
aTHX
aTHX
do_chomp

do_close

do_delete_local

do_dump_pad

do_eof

do_exec3

do_execfree

do_exec

do_gv_dump[5.006000]
do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcct||
do_ipcgct

do_magic_dump[5.006000]
do_msgrcv||
do_msgsnd||
doncmp||
do_oddball||
do_op_dump[5.006000]
do_open6||
do_open9[5.006000]
do_open_raw||
do_opena[5.007001]
do_open[5.003070]
do_pmop_dump[5.006000]
do_print||
do_readline||
do_seek||
do_semop||
do shmio||
do_smartmatch

do_spawn_nowait||
do_spawn||
do_sprintf||
do_sv_dump[5.006000]
do_sysseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop
<table>
<thead>
<tr>
<th>Function</th>
<th>Timestamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>expect_number</td>
<td>1</td>
</tr>
<tr>
<td>fbm_compile</td>
<td>5.005000</td>
</tr>
<tr>
<td>fbm_instr</td>
<td>5.005000</td>
</tr>
<tr>
<td>feature_is_enabled</td>
<td>1</td>
</tr>
<tr>
<td>filter_add</td>
<td>1</td>
</tr>
<tr>
<td>filter_del</td>
<td>1</td>
</tr>
<tr>
<td>filter_gets</td>
<td>1</td>
</tr>
<tr>
<td>filter_read</td>
<td>1</td>
</tr>
<tr>
<td>finalize_optree</td>
<td>1</td>
</tr>
<tr>
<td>finalize_op</td>
<td>1</td>
</tr>
<tr>
<td>find_and_forget_pmops</td>
<td>1</td>
</tr>
<tr>
<td>find_array_subscript</td>
<td>1</td>
</tr>
<tr>
<td>find_beginning</td>
<td>1</td>
</tr>
<tr>
<td>find_byclass</td>
<td>1</td>
</tr>
<tr>
<td>find_default_stash</td>
<td>1</td>
</tr>
<tr>
<td>find_hash_subscript</td>
<td>1</td>
</tr>
<tr>
<td>find_in_my_stash</td>
<td>1</td>
</tr>
<tr>
<td>find_lexical_cv</td>
<td>1</td>
</tr>
<tr>
<td>find_runcv_where</td>
<td>1</td>
</tr>
<tr>
<td>find_runcv</td>
<td>5.008001</td>
</tr>
<tr>
<td>find_rundefsvoffset</td>
<td>5.009002</td>
</tr>
<tr>
<td>find_rundefsv</td>
<td>5.013002</td>
</tr>
<tr>
<td>find_script</td>
<td>1</td>
</tr>
<tr>
<td>find_uninit_var</td>
<td>1</td>
</tr>
<tr>
<td>first_symbol</td>
<td>1</td>
</tr>
<tr>
<td>fixup_errno_string</td>
<td>1</td>
</tr>
<tr>
<td>foldEQ_latin1</td>
<td>5.013008</td>
</tr>
<tr>
<td>foldEQ_locale</td>
<td>5.013002</td>
</tr>
<tr>
<td>foldEQ_utf8_flags</td>
<td>5.013010</td>
</tr>
<tr>
<td>foldEQ_utf8</td>
<td>5.013002</td>
</tr>
<tr>
<td>foldEQ</td>
<td>5.013002</td>
</tr>
<tr>
<td>fold_constants</td>
<td>1</td>
</tr>
<tr>
<td>forbid_setid</td>
<td>1</td>
</tr>
<tr>
<td>force_ident_maybe_lex</td>
<td>1</td>
</tr>
<tr>
<td>force_ident</td>
<td>1</td>
</tr>
<tr>
<td>force_list</td>
<td>1</td>
</tr>
<tr>
<td>force_next</td>
<td>1</td>
</tr>
<tr>
<td>force_strict_version</td>
<td>1</td>
</tr>
<tr>
<td>force_version</td>
<td>1</td>
</tr>
<tr>
<td>force_word</td>
<td>1</td>
</tr>
<tr>
<td>forget_pmop</td>
<td>vn</td>
</tr>
<tr>
<td>form_nocontext</td>
<td>vn</td>
</tr>
<tr>
<td>form_short_octal_warning</td>
<td>vn</td>
</tr>
<tr>
<td>form</td>
<td>5.004000</td>
</tr>
<tr>
<td>fp_dup</td>
<td>vn</td>
</tr>
<tr>
<td>fprintf_nocontext</td>
<td>vn</td>
</tr>
<tr>
<td>free_c_backtrace</td>
<td>vn</td>
</tr>
<tr>
<td>free_global_struct</td>
<td>vn</td>
</tr>
</tbody>
</table>
free_tied_hv_pool
free_tmps
get_APPYOF_c_list_for_ssc
get_and_check_backslash_N_name
get_aux_mg
get_av[5.006000]
get_c_backtrace_dump
get_c_backtrace
get_context[5.006000]
get_cvn_flags
get_cvs[5.011000]
get_cv[5.006000]
get_db_sub
get_debug_opts
get_hv[5.006000]
get_invlist_iter_addr
get_invlist_offset_addr
get_invlist_previous_index_addr
get_mstats
get_no_modify
get_num
get_op_descs[5.005000]
get_op_names[5.005000]
get_opargs
get_ppaddr[5.006000]
get_re_arg
get_sv[5.006000]
get_vtbl[5.005030]
getcwd_sv[5.007002]
getenv_len
glob_2number
glob_assign_glob
gp_dup
gp_free
gp_ref
get_atoUV
get_bin[5.007003]
get_bslash_N
get_bslash_c
get_bslash_o
get_bslash_x
get_hex[5.007003]
get_infnan[5.021004]
get_number_flags[5.021002]
get_number[5.007002]
get_numeric_radix[5.007002]
hv_iernextsv|||  
hv_iernext|||  
hv_iervall|||  
hv_kill_backrefs|||  
hv_ksplit|5.003070|  
hv_magic_check|||n  
hv_magic|||  
 hv_name_set|5.009003|  
hv_notallowed|||  
 hv_placeholder_get|5.009003|  
 hv_placeholder_set|5.009003|  
 hv_rand_set|5.018000|  
 hv_riter_p|5.009003|  
 hv_riter_set|5.009003|  
 hv_scalar|5.009001|  
 hv_store_ent|5.003070|  
 hv_store_flags|5.008000|  
 hv_stores|5.009004|  
 hv_store|||  
 hv_undef_flags|||  
 hv_undef|||  
 ibcmp_locale|5.004000|  
 ibcmp_utf8|5.007003|  
 ibcmp|||  
incline|||  
 incpush_if_exists|||  
 incpush_use_sep|||  
 incpush|||  
 ingroup|||  
 init_argv_symbols|||  
 init_constants|||  
 init_dbargs|||  
 init_debugger|||  
 init_global_struct|||  
 init_i18nl10n|5.006000|  
 init_i18nl14n|5.006000|  
 init_ids|||  
 init_interp|||  
 init_main_stash|||  
 init_perllib|||  
 init_postdump_symbols|||  
 init_predump_symbols|||  
 init_stacks|5.005000|  
 init_tmi|5.007002|  
 inplace_aassign|||  
 instr|||n  
 intro_my|5.004000|
intuit_method
intuit_more
invert
invlist_array
invlist_clear
invlist_clone
invlist_contents
invlist_extend
invlist_highest
invlist_is_iterating
invlist_iterfinish
invlist_iterinit
invlist_iternext
invlist_max
invlist_previous_index
invlist_replace_list_destroys_src
invlist_set_len
invlist_set_previous_index
invlist_trim
invoke_exception_hook
io_close
isALNUMC
isALNUM_lazy
isALPHANUMERIC
isALPHA
isASCII
isBLANK
isCNTRL
isDIGIT
isFOO_lc
isFOO_utf8_lc
isGCB
isGRAPH
isIDCONT
isIDFIRST_lazy
isIDFIRST
isLB
isLOWER
isOCTAL
isPRINT
isPSXSPC
isPUNCT
isSB
isSPACE
isUPPER
isUTF8_CHAR
isWB
isWORDCHAR
isXDIGIT|5.006000|p
is_an_int|||
is_ascii_string|5.011000|
is_handle_constructor||n
is_invariant_string|5.021007|n
is_Ivalue_sub|5.007001|
is_safe_syscall|5.019004|
is_ssc_worth_it||n
is_uni_alnum_lc|5.006000|
is_uni_alnumc_lc|5.017007|
is_uni_alnumc|5.017007|
is_uni_alnum|5.006000|
is_uni_alpha_lc|5.006000|
is_uni_alpha|5.006000|
is_uni_asciilc|5.006000|
is_uni_ascii|5.006000|
is_uni_blank_lc|5.017002|
is_uni_blank|5.017002|
is_uni_cntrl_lc|5.006000|
is_uni_cntrl|5.006000|
is_uni_digit_lc|5.006000|
is_uni_digit|5.006000|
is_uni_graph_lc|5.006000|
is_uni_graph|5.006000|
is_uni_idfirst_lc|5.006000|
is_uni_idfirst|5.006000|
is_uni_lowerlc|5.006000|
is_uni_lower|5.006000|
is_uni_printlc|5.006000|
is_uni_print|5.006000|
is_uni_punctlc|5.006000|
is_uni_punct|5.006000|
is_uni_space lc|5.006000|
is_uni_space|5.006000|
is_uni_upperlc|5.006000|
is_uni_upper|5.006000|
is_uni_xdigitlc|5.006000|
is_uni_xdigit|5.006000|
is_utf8_alnumc|5.017007|
is_utf8_alnum|5.006000|
is_utf8_alpha|5.006000|
is_utf8_asciilc|5.006000|
is_utf8_blank|5.017002|
is_utf8_charset|5.015008|n
is_utf8_char|5.006000|n
is_utf8_cnntr|5.006000|
is_utf8_common|||
is_utf8_digit|5.006000|
magic_setarylen
magic_setcollxfrm
magic_setdbline
magic_setdebugvar
magic_setdefelem
magic_setenv
magic_sethint
magic_setlvref
magic_setmglob
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setsig
magic_setsubstr
magic_settaint
magic_setutf8
magic_setsubstr
magic_setuvar
magic_setvec
magic_set
magic_sizepack
magic_wipepack
make_matcher
make_trie
malloc_good_size
malloced_size
malloc[5.007002]
markstack_grow[5.021001]
matcher_matches_sv
maybe_multimagic_gv
mayberelocate
measure_struct
memEQ[5.009005]
memEQ[5.004000]
memNE[5.009005]
memNE[5.004000]
mem_collxfrm
mem_log_alloc
mem_log/common
mem_log_free
mem_log_realloc
mess_alloc
mess_nocontext
mess_sv[5.013001]
mess[5.006000]
mfree[5.007002]
mg_clear
mg_copy||
mg_dup||
mg_find_mglob||
mg_findex||5.013008||pn
mg_find||n
mg_free_type||5.013006|
mg_free||
mg_get||
mg_length||5.005000|
mg_localize||
mg_magical||n
mg_set||
mg_size||5.005000|
mini_mktime||5.007002||n
minus_v|||
missingterm||
mode_from_discipline||
modkids||
more_bodies||
more_sv||
moreswitches||
move_proto_attr||
mro_clean_isarev||
mro_gather_and_rename||
mro_get_from_name||5.010001|
mro_get_linear_isa_dfs||
mro_get_linear_isa||5.009005|
mro_get_private_data||5.010001|
mro_isa_changed_in||
mro_meta_dup||
mro_meta_init||
mro_method_changed_in||5.009005|
mro_package_moved||
mro_register||5.010001|
mro_set_mro||5.010001|
mro_set_private_data||5.010001|
mul128||
mulexp10||n
multideref_stringify||
my_atof2||5.007002|
my_atof||5.006000|
my_attrs||
my_bc Yugoslav 5.004050||n
my_bytes_to_utf8||n
my_bzero||n
my_chsize||
my_clearenv||
my_cxt_index||
my_cxt_init||
my_dirfd|5.009005|n
my_exit_jump||
my_exit||
my_failure_exit|5.004000|
my_fflush_all|5.006000|
my_fork|5.007003|n
my_kid||
my_lstat_flags||
my_lstat|5.024000|
my_memcmp|||n
my_memset|||n
my_pclose|5.003070|
my_popen_list|5.007001|
my_popen|5.003070|
my_setenv||
my_setlocale||
my_snprintf|5.009004||pvn
my_socketpair|5.007003|n
my_sprintf|5.009003||pvn
my_stat_flags||
my_stat|5.024000|
my_strerror|5.021001|
my_strftime|5.007002|
my_strlcat|5.009004||pn
my_strlcpy|5.009004||pn
my_unexec||
my_vsnprintf|5.009004|n
need_utf8|||n
newANONATTRSUB|5.006000|
newANONHASH||
newANONLIST||
newANONSUB||
newASSIGNOP||
newATTRSUB_x||
newATTRSUB|5.006000|
newAVREF||
newAV||
newBINOP||
newCONDOP||
newCONSTSUB_flags|5.015006|
newCONSTSUB|5.004050||p
newCVREF||
newDEFSVOP|5.021006|
newFORM||
newFOROP|5.013007|
newGIVENOP|5.009003|
newGIVWHENOP||
pad_findmy_pvs|5.015001|
pad_findmy_pv|5.015001|
pad_findmy_sv|5.015001|
pad_fixup_inner_anons|
pad_free|
pad_leavemy|
pad_new|5.008001|
pad_push|
pad_reset|
pad_setsv|
pad_sv|
pad_swipe|
pad_tidy|5.008001|
padlist_dup|
padlist_store|
padname_dup|
padname_free|
padnamelist_dup|
padnamelist_fetch|5.021007|
padnamelist_free|
padnamelist_store|5.021007|
parse_arithexpr|5.013008|
parse_barestmt|5.013007|
parse_block|5.013007|
parse_body|
parse_fullexpr|5.013008|
parse_fullstmt|5.013005|
parse_gv_stash_name|
parse_ident|
parse_label|5.013007|
parse_listexpr|5.013008|
parse_lparen_question_flags|
parse_stmtseq|5.013006|
parse_subsignature|
parse_termexpr|5.013008|
parse_unicode_opts|
parser_dup|
parser_free_nexttoke_ops|
parser_free|
path_is_searchable|
peep|
pending_ident|
perl_alloc_using|
perl_alloc|
perl_clone_using|
perl_clone|
perl_construct|
perl_destruct|5.007003|
perl_free
perl_parse[5.006000]
perl_run
pidgone
pm_description
pmop_dump[5.006000]
pmruntime
pmtrans
pop_scope
populate_ANYOF_from_invlist
populate_isa
pregcomp[5.009005]
pregexec
pregfree2[5.011000]
pregfree
prescan_version[5.011004]
printbuf
printf_nocontext
process_special_blocks
ptr_hash
ptr_table_clear[5.009005]
ptr_table_fetch[5.009005]
ptr_table_find
ptr_table_free[5.009005]
ptr_table_new[5.009005]
ptr_table_split[5.009005]
ptr_table_store[5.009005]
push_scope
put_charclass_bitmap_innards_common
put_charclass_bitmap_innards_invlist
put_charclass_bitmap_innards
put_code_point
put_range
pv_display[5.006000]
pv_escape[5.009004]
pv_pretty[5.009004]
pv_uni_display[5.007003]
qerror
qsortsvu
quadmath_format_needed
quadmath_format_single
re_compile[5.009005]
re_croak2
re_dup_guts
re_exec_indentf
re_indentf
re_intuit_start[5.019001]
re_intuit_string[5.006000]
regcppush
regcurly
regdump_extflags
regdump_intflags
regdump[5.005000]
regdupe_internal
regex_set_precedence
regexec_flags[5.005000]
regfree_internal[5.009005]
reghop3
reghop4
reghopmaybe3
reginclass
reginitcolors[5.006000]
reginsert
regmatch
regnext[5.005000]
regnode_guts
regpiece
regprop
regrepeat
regtail_study
regtail
regtry
reg
repeatcpy
report_evil_fh
report_redefined_cv
report_uninit
report_wrongway_fh
require_pv[5.006000]
require_tie_mod
restore_magic
minstr
rpeep
rsignal_restore
rsignal_save
rsignal_state[5.004000]
rsignal[5.004000]
run_body
run_user_filter
runops_debug[5.005000]
runops_standard[5.005000]
rv2cv_op_cv[5.013006]
rvpv_dup
rxres_free
rxres_restore
rxres_save
safesysalloc|5.006000|n
safesysfree|5.006000|n
safesysmalloc|5.006000|n
safesysrealloc|5.006000|n
same_dirent||
save_116|5.004000|
save_132||
save_18|5.006000|
save_adelete|5.011000|
save_aelem_flags|5.011000|
save_aelem|5.004050|
save_alloc|5.006000|
save_aptr||
save_ary||
save_bool|5.008001|
save_clearsv||
save_delete||
saveDestructor_x|5.006000|
saveDestructor|5.006000|
save_freeop||
save_freepv||
save_freesv||
saveGeneric_pvref|5.006001|
saveGeneric_svref|5.005030|
save_gp|5.004000|
save_hash||
save_hdelete|5.011000|
save_helem|5.004050|
save_hints|5.010001|
save_hptr||
save_int||
save_item||
save_iv|5.005000|
save_lines||
save_list||
save_long||
save_magic_flags||
save_mortalizesv|5.007001|
save_nogv||
save_op|5.005000|
save_padv_and_mortalize|5.010001|
save_pptr||
save_pushi32ptr|5.010001|
save_pushptri32ptr||
save_pushptrptr|5.010001|
save_pushptr|5.010001|
save_re_context[5.006000]
save_scalar_at[]
save_scalar[]
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr[]
save_strlen[]
save_svref[]
save_vptr[5.006000]
savepvn[]
savepvs[5.009003]
savepv[]
savesharedpvn[5.009005]
savesharedpvs[5.013006]
savesharedpv[5.007003]
savesharedsvp[5.013006]
savestackGrow_cnt[5.008001]
savestack_grow[]
savesvpv[5.009002]
savetmps[5.023008]
sawparens[]
scalar_mod_type[]n
scalarboolean[]
scalarkids[]
scalarseq[]
scalarvoid[]
scalar[]
scan_bin[5.006000]
scan_commit[]
scan_const[]
scan_formline[]
scan_heredoc[]
scan_hex[]
scan_ident[]
scan_inputsymbol[]
scan_num[5.007001]
scan_oct[]
scan_pat[]
scan_str[]
scan_subst[]
scan_trans[]
scan_version[5.009001]
scan_vstring[5.009005]
scan_word[]
search_const[]
seed[5.008001]
sequence_num[]
set_ANYOF_arg[]
set_caret_X
set_context[5.006000]
set_numeric_local[5.006000]
set_numeric_radix[5.006000]
set_numeric_standard[5.006000]
set_padlist[]
setdefout[]
sharehekflags[]
sharehek[5.004000]
should_warn_nl[]
si_dup[]
sighandler[]
simplify_sort[]
skip_to_be_ignored_text[]
skipspaceflags[]
softref2xv[]
sortcv_stacked[]
sortcv_xsub[]
sortcv[]
sortsv_flags[5.009003]
sortsv[5.007003]
space_join_names_mortal[]
ss_dup[]
ssc_add_range[]
ssc_and[]
ssc_anything[]
ssc_clear_locale[]
ssc_cp_and[]
ssc_finalize[]
ssc_init[]
ssc_intersection[]
ssc_isanything[]
ssc_is_cp_posixl_init[]
ssc_or[]
ssc_union[]
stack_grow[]
start_glob[]
start_subparse[5.004000]
stdize_locale[]
strEQ[]
strGE[]
strGT[]
strLE[]
strLT[]
strNE[]
str_to_version[5.006000]
strip_return[]
strnEQ[]
strnNE||
study_chunk||
sub_crush_depth||
sublex_done||
sublex_push||
sublex_start||
sv_2bool_flags|5.013006|
sv_2bool||
sv_2cv||
sv_2ie||
sv_2iuv_common||
sv_2iuv_non_preserve||
sv_2iuv_flags|5.009001|
sv_2iv||
sv_2mortal||
sv_2num||
sv_2num_flags|5.013001|
sv_2pv_flags|5.007002||p
sv_2pv_nolen|5.006000||p
sv_2pvbyte_nolen|5.006000||p
sv_2pvbyte|5.006000||p
sv_2pvutf8_nolen|5.006000|
sv_2pvutf8|5.006000|
sv_2pv||
sv_2uv_flags|5.009001|
sv_2uv|5.004000||p
sv_add_arena||
sv_add_backref||
sv_addref||n
sv_bless||
sv_buf_to_ro||
sv_buf_to_rw||
sv_cat_decode|5.008001|
sv_catpv_flags|5.013006|
sv_catpv_mg|5.004050||p
sv_catpv_nomg|5.007002||p
sv_catpv||
sv_catpvf_mg_nocontext|||pvn
sv_catpvf_mg|5.006000|5.004000|pv
sv_catpvf_nocontext|||vn
sv_catpvf|5.004000|v
sv_catpvn_flags|5.007002|
sv_catpvn_mg|5.004050||p
sv_catpvn_nomg|5.007002||p
sv_catpvn||
sv_catpvs_flags|5.013006|
sv_catpvs_mg|5.013006|
sv_catpvs_nomg|5.013006|
sv_catpvs|5.009003||p
sv_catpv
sv_catsv_flags[5.007002]
sv_catsv_mg[5.004050]
sv_catsv_nomg[5.007002]
sv_catsv
sv_chop
sv_clean_all
sv_clean_objs
sv_clear
sv_cmp_flags[5.013006]
sv_cmp_locale_flags[5.013006]
sv_cmp_locale[5.004000]
sv_cmp
sv_collxfrm_flags[5.013006]
sv_collxfrm
sv_copypv_flags[5.017002]
sv_copypv_nomg[5.017002]
sv_copypv
sv_dec_nomg[5.013002]
sv_dec
sv_del_backref
sv_derived_from_pvn[5.015004]
sv_derived_from_pv[5.015004]
sv_derived_from_sv[5.015004]
sv_derived_from[5.004000]
sv_destroyable[5.010000]
sv_display
sv_does_pvn[5.015004]
sv_does_pv[5.015004]
sv_does_sv[5.015004]
sv_does[5.009004]
sv_dump
sv_dup_common
sv_dup_inc_multiple
sv_dup_inc
sv_dup
sv_eq_flags[5.013006]
sv_eq
sv_exp_grow
sv_force_normal_flags[5.007001]
sv_force_normal[5.006000]
sv_free2
sv_free_arenas
sv_free
sv_get_backrefs[5.021008]
sv_gets[5.003070]
sv_grow
sv_incmp
sv_ref[5.015004]
sv_replace
sv_report_used
sv_resethek
sv_setiv
sv_setiv_mg[5.004050]
sv_setivf_mg
sv_setivf_mg_nocontext
sv_setivf
sv_setivf_mg
sv_setivf_nocontext
sv_setivv
sv_setpv
sv_setpv_mg[5.004050]
sv_setpvf_mg
sv_setpvf_mg_nocontext
sv_setpvf
sv_setpvf
sv_setpvf
sv_setpvf
sv_setpvn
sv_setpvn_mg[5.004050]
sv_setpvnf
sv_setpvnf_mg
sv_setpvnf_nocontext
sv_setpvnf
sv_setpvs
sv_setpvs_mg[5.013006]
sv_setpvs
sv_setpv
sv_setref
sv_setref_iv
sv_setref_nv
sv_setref_pvn
sv_setref_pvs
sv_setref_pv
sv_setref_uv
sv_setsv
sv_setsv_cow
sv_setsv_flags
sv_setsv_mg
sv_setsv_nomg
sv_setsv
sv_setuv
sv_setuv_mg
sv_setuvf
sv_setuvf
sv_setuvf
sv_tainted
sv_tainted
sv_true
sv_unglob
sv_uni_display
sv_unmagicext
sv_unmagic
sv_unref
sv_unref_flags
sv_unref
sv_untainted
sv_upgrade
sv_usepvn Flags[5.009004]
xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19879


if m{^\s*$rccs\s+(Hint|Warning):\s+\((?s+:\w+)\)\)s*\$};

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] = ";
    } else {
        my @n = find_api($define->[1]);
        push @{$depends{$define->[0]}}, @n if @n
        undef $define;
    }
}

$define = [$1, $2] if m{^\s*define\s+(\w+)(?:\(\[^\)\]*\))\)?s+\(.*\)\)s*\$};

if ($function) {
    if (/\^\/) {
        my @n = find_api($function->[1]);
        push @{$depends{$function->[0]}}, @n if @n
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, "$"] if m{^DPPP_\(my_(\w+)\)\)s*\$};

$replace = $1 if m{^\s*$rccs\s+Replace\:\s+\(d+)\)s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*define\s+(\w+)(?:\(\[^\)\]*\))\)?s+\(.*\)\)s*\$};
$replace{$2} = $1 if m{^\s*$rccs\s+Replace \(\w+) with (\w+)\)s*\$};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace \(\w+) \(\w+)\)s*\$};

if (m{^\s*$rccs\s+\(\w+\)\)s+depends\:\s+\(\w+\)\)s+$rcce\s*$}) {
    my @deps = map { s/\s+/g; S_. } split /, $3;
    my $d;
    for $d (map { s/\s+/g; S_. } split /, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^\s*$rccs\s+(Hint|Warning):\s+(?s+:\w+)\)s*\$};
for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$^Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: ", join(’, ’, @{$depends{$f}}), "\n" if exists $depends{$f};
            print "unSHints{$f}" if exists $hints{$f};
            print "unWARNING:un$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "\nNo portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.\n";
    print "\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '['.join(’, ’, @flags).']' : "";
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19882


die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }

  info("Scanning $filename ...\n");

  my $filename = (orig => $c, changes => 0);
  my $c = do { local $/; <IN> }
  close IN;
  my %file = (orig => $c, changes => 0);

  # Temporarily remove C/XS comments and strings from the code
  my @ccom;
  $c =~ s{
    (^SHS*\#SHS*include\[^\r\n\]*
    | ^SHS*\#SHS*\([^\r\n\]\)*
    | "[^"\\]*"|'[^'\\]*'
    | /\[^\r\n\]* / | /[^\r\n\]* / )
  }{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
  $file{ccom} = @ccom;
  $file{code} = $c;
  $file{has_inc_ppport} = $c =~ /^SHS*#SHS*include[^\r\n]+\bQ\Sppport\E\[\SSUB\b]b[^\r\n]*

  my $func;
  for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ m/$match\/$match\$match\$/) {
      $file{uses_replace}[$func]++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
      $file{uses_Perl}[$func]++ if $func =~ m/$cperl\$/;
      if (exists $API{$func}{provided}) {
        $file{uses_provided}[$func]++;
        if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'})) {
        }
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19884


for @{$global{needs}[@need]} {
  $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}

for $filename (@files) {
  exists $files{$filename} or next;

  info("=== Analyzing $filename ===");

  my %file = %{$files{$filename}};
  my $func;
  my $c = $file{code};
  my $warnings = 0;

  for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func}{varargs}) {
      unless ($API{$func}{nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\$*\(\w*\))*(?!aTHX\_\?)(\[\^s\])*\(\)?)}{'$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' . $2 }ge);
        if ($changes) {
          warning("Doesn't pass interpreter argument aTHX to Perl_$func");
          $file{changes} += $changes;
        }
      }
    }
    else {
      warning("Uses Perl_$func instead of $func");
      $file{changes} += ($c =~ s{\bPerl_$func\$*\(\w*\))*(?!aTHX\_\?)(\[\^s\])*\(\)?}{$func$1()}g);
    }
  }

  for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s\b$func\b/$replace{$func}/g);
  }

  for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
      if (exists $file{uses_deps}{$func}) {
        diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
      }
    }
    else {
      diag("Uses $func");
    }
  }
}
unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with $ppport\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}($func)) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
        }
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";
for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}[$func];
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_${type}"}[$func]) {
        if ($type eq 'global') {
            diag("Files [@ {global{needs}[$func]} need $func, adding global request"]);
        } else {
            diag("File needs $func, adding static request");
        }
        $pp .= "#define NEED_${func$suffix}\n";
    }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}
if ($pp) {
    $file{changes} += ($c =~ s/\^{$HS*\^\$HS*define\$HS+NEED_\w+.*?}/$1$pp/ms)
    || ($c =~ s/\^{$HS*\^\$HS*include.*\Q$ppport\E}\$1$pp(m)
    || ($c =~ s/\^{$HS*\^\$HS*include.*XSUB.*?}/$1$pp(m)
    || ($c =~ s/\^/$pp/;
}
} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\^{$HS*?\$HS*include.*\Q$ppport\E.*,?}/$1$pp//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ''; 
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ''; 
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: "$!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        }
    }
}
else {
    fallback:
    info("Suggested changes:");
    mydiff("\^STDOUT", $filename, $c);
    
    } else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
    
    } else {
    info("Looks good");
    
    }

    close PATCH if $patch_opened;

    exit 0;

    sub try_use { eval "use @_;"; return $@ eq "" } 

    sub mydiff
    {
        local *F = shift;
        my($file, $str) = @_; 
        my $diff;

        if (exists $opt{diff}) {  
            $diff = run_diff($opt{diff}, $file, $str);
            
        } if (!defined $diff and try_use('Text::Diff')) {  
            $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
            $diff = <<HEADER . $diff;
            --- $file
            +++ $file.patched
            HEADER
            
            } if (!defined $diff) {  
            $diff = run_diff('diff -u', $file, $str);
            
            } if (!defined $diff) {  
            $diff = run_diff('diff', $file, $str);
            
    }
if (!$defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= ";
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    }
    else {
        error("Cannot open '$tmp' for writing: $!");
    }
    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
my $ver = shift;
if ($ver =~ /^\d+(\d+).(\d+)/(\d+)/) {
    return ($1, $2, $3);
} elsif ($ver !~ /^\d+\[\d_\]+$/) {
    die "cannot parse version '$ver'\n";
}
$ver =~ s/_//g;
$ver =~ s$/000000/;
my($r,$v,$s) = $ver =~ /\d+(\d+)/(\d+)/(\d+)/;
$v = int $v;
$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver'\n";
    }
}
return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;
$ver =~ s$/000000/;
my($r,$v,$s) = $ver =~ /\d+(\d+)/(\d+)/(\d+)/;
$v = int $v;
$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'\n";
    }
    $s /= 10;
}
$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_.%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
}
$hint =~ s/^/   /mg;
   print "   --- hint for $func ---\n", $hint;
}
$rv;

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d\s+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+\s+\$/\s+\$0/;
    $usage =~ s/\[(A-Z)\]<([^>]\+)>/\$M{\1}$\2\$M{\1}/g;
    print <<ENDUSAGE;
    Usage: $usage
    See perldoc $0 for details.
ENDUSAGE
    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)\s*=/ms;
    $copy =~ s/^(?=$X)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort ; };
        \$@ and die "Cannot require Devel::PPPort, please install\n";
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
        die "\$0 was originally generated with Devel::PPPort \$VERSION\n"
        . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION\n"
        . "Please install a newer version, or --unstrip will not work\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
    }
    print <<END;
    Sorry, but this is a stripped version of \$0.
    To be able to use its original script and doc functionality,
    please try to regenerate this file using:
open OUT, ">$0" or die "cannot strip $0: $!

END

my($pl, $c) = $self =~ /(.\^_DATA__)(.*)/ms;
$c =~ s{
  / (.?:[^\*]*\*+(?:[^$ccs]\[^\*]*\*+)* / | \/[^
\]*)
| ( "[^"\]*(?:\\\."[^"\\]*)*"
  | \([^\]\]*\([^\]\]*)* )
| \($HS+ \) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s! \s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;

use File::Spec; $x=File::Spec->catfile('a', 'b', 'c');
which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions; $x = catfile('a', 'b', 'c');
This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas Kö<ouml>nig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath

$<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$<path = File::Spec->canonpath( $<path ) ;

Note that this does *not* collapse F<x/../y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>,

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 19895
then \( \text{F}</foo/../quux> \) is actually \( \text{F}</bar/quux> \), not \( \text{F}</quux> \) as a naive \( \text{F}</../>-removal would give you. If you want to do this kind of processing, you probably want \( \text{C}</Cwd>\text{'s C}</realpath()\) function to actually traverse the filesystem cleaning up paths like this.

=item catdir
\[ \text{X<catdir>} \]

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn’t look good, isn’t necessary and confuses OS/2. Of course, if this is the root directory, don’t cut off the trailing slash :-)

\[
\text{$path = File::Spec->catdir( @directories );}
\]

=item catfile
\[ \text{X<catfile>} \]

Concatenate one or more directory names and a filename to form a complete path ending with a filename

\[
\text{$path = File::Spec->catfile( @directories, $filename );}
\]

=item curdir
\[ \text{X<curdir>} \]

Returns a string representation of the current directory.

\[
\text{$curdir = File::Spec->curdir();}
\]

=item devnull
\[ \text{X<devnull>} \]

Returns a string representation of the null device.

\[
\text{$devnull = File::Spec->devnull();}
\]

=item rootdir
\[ \text{X<rootdir>} \]

Returns a string representation of the root directory.

\[
\text{$rootdir = File::Spec->rootdir();}
\]

=item tmpdir
\[ \text{X<tmpdir>} \]
Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks $ENV{'TMPDIR'} (unless taint is on) and /tmp.

    $tmpdir = File::Spec->tmpdir();

=item updir

X<updir>

Returns a string representation of the parent directory.

    $updir = File::Spec->updir();

=item no_upwards

Given a list of files in a directory (such as from readdir()), strip out . and ...

B<SECURITY NOTE:> This does NOT filter paths containing .., like .././././.etc/passwd, only literal matches to . and ...

    @paths = File::Spec->no_upwards( readdir $dirhandle );

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

    $is_case_tolerant = File::Spec->case_tolerant();

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

    $is_absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

=item path

X<path>

Takes no argument. Returns the environment variable PATH (or the local platform's equivalent) as a list.
@PATH = File::Spec->path();

=item join
X<join, path>
join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>
Splits a path into volume, directory, and filename portions. On systems
with no concept of volume, returns "" for volume.

($volume,$directories,$file) =
   File::Spec->splitpath( $path );
($volume,$directories,$file) =
   File::Spec->splitpath( $path, $no_file );
For systems with no syntax differentiating filenames from directories,
assumes that the last file is a path unless C<$no_file> is true or a
trailing separator or F<./> or F<../> is present. On Unix, this means that C<$no_file>
true makes this return ( "", $path, "" ).
The directory portion may or may not be returned with a trailing '/'.
The results can be passed to L</catpath()> to get back a path equivalent to
(usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>
The opposite of L</catdir>.

   @dirs = File::Spec->splitdir( $directories );
C<$directories> must be only the directory portion of the path on systems
that have the concept of a volume or that have path syntax that differentiates
files from directories.
Unlike just splitting the directories on the separator, empty
directory names (C"" ) can be returned, because these are significant
on some OSes.

=item catpath()
Takes volume, directory and file portions and returns an entire path. Under
Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is
inserted if need be. On other OSes, C<$volume> is significant.

    $full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

    $rel_path = File::Spec->abs2rel( $path ) ;
    $rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path> . Note that previous versions of this module ignored the volume of C<$base> , which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

    $abs_path = File::Spec->rel2abs( $path ) ;
    $abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.
On systems with the concept of volume, if $path$ and $base$ appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return $path$. Note that previous versions of this module ignored the volume of $base$, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the $base$ filename as well. Otherwise all path components are assumed to be directories.

If $path$ is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>, L<ExtUtils::MakeMaker>

=head1 AUTHOR

Currently maintained by Ken Williams C<< <KWILLIAMS@cpan.org> >>.

The vast majority of the code was written by
Kenneth Albanowski C<< <kjahds@kahlds.com> >>,
Andy Dougherty C<< <doughera@lafayette.edu> >>,
Andreas KEologna C<< <A.Koenig@franz.ww.TU-Berlin.DE> >>,
Tim Bunce C<< <Tim.Bunce@ig.co.uk> >>.
VMS support by Charles Bailey C<< <bailey@newman.upenn.edu> >>.
OS/2 support by Ilya Zakharevich C<< <ilya@math.ohio-state.edu> >>.
Mac support by Paul Schinder C<< <schinder@pobox.com> >>.
Thomas Wegner C<< <wegner_thomas@yahoo.com> >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com> >>.
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splidir(), catpath() and catdir() by Barrie Slaymaker.
Copyright (c) 2004-2013 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqlInf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec.pm

No license file was found, but licenses were detected in source scan.

abstract: 'Tools for working with directory and file names'
author:
- 'Perl 5 Porters'
built_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Basename: '0'
  Scalar::Util: '0'
  Test::More: '0.88'
resources:
  bugtracker: https://rt.perl.org/rt3/
  homepage: http://dev.perl.org/
  repository: git://perl5.git.perl.org/perl.git
  version: '3.74'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqlInf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/META.yml
No license file was found, but licenses were detected in source scan.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Please submit bug reports and patches to perlbug@perl.org.

=head1 SEE ALSO

L<File::Spec>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Unix.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

$ENV{TMPDIR}
$ENV{TEMPP}
$ENV{TMP}
Volumes can be drive letters or UNC sharenames (\server\share).

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/OS2.pm
No license file was found, but licenses were detected in source scan.

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.
No license file was found, but licenses were detected in source scan.

=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).
=item fastcwd

    my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't
chdir() you back into. If fastcwd encounters a problem it will return
undef but will probably leave you in a different directory. For a
measure of extra security, if everything appears to have worked, the
fastcwd() function will check that it leaves you in the same directory
that it started in. If it has changed it will C<die> with the message
"Unstable directory path, current directory changed
unexpectedly". That should never happen.

=item fastgetcwd

    my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

    my $cwd = getdcwd();
    my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working
directory on the specified drive, since Windows maintains a separate current
working directory for each drive. If no drive is specified then the current
drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single
argument and return the absolute pathname for it. If no argument is
given they’ll use the current working directory.

=over 4

==item abs_path

    my $abs_path = abs_path($file);
Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and "..") are resolved to return the canonical pathname, just like realpath(3). On error returns C<undef>, with C<$!> set to indicate the error.

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=back

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems ('/' on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.
=back

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Portions of the C code in this library are copyright (c) 1994 by the Regents of the University of California. All rights reserved. The license on this code is compatible with the licensing of the rest of the distribution - please see the source code in `Cwd.xs` for the details.

=head1 SEE ALSO

L<File::chdir>

cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.pm
No license file was found, but licenses were detected in source scan.

=back

=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

=head1 COPYRIGHT

Copyright (c) 2004,2007 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Win32.pm

No license file was found, but licenses were detected in source scan.

=back

=head1 COPYRIGHT

Copyright (c) 2004-14 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at L<http://h71000.www7.hp.com/doc/731FINAL/4506/4506pro_014.html#apps_locating_naming_files>.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/VMS.pm

No license file was found, but licenses were detected in source scan.

=back

=head1 COPYRIGHT

Copyright (c) 2004,2007 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Cygwin.pm
No license file was found, but licenses were detected in source scan.

=pod

=head1 AUTHOR

o.flebbe@gmx.de

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Epoc.pm

No license file was found, but licenses were detected in source scan.

License: (GPL+ or Artistic) and BSD

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/perl-PathTools.spec

1.117 perl-exporter 5.72 396.el8

1.117.1 Available under license:

No license file was found, but licenses were detected in source scan.

=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export
Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export
try to use C:@EXPORT_OK> in preference to C:@EXPORT> and avoid short or
common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the
module using the C:<YourModule::item_name> (or C:<< $blessed_ref->method >>)
syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };  
$subref->(@args);     # Call it as a function
$obj->$subref(@args);   # Use it as a method

However if you use them for methods it is up to you to figure out
how to make inheritance work.)

As a general rule, if the module is trying to be object oriented
then export nothing. If it's just a collection of functions then
C:@EXPORT_OK> anything but use C:@EXPORT> with caution. For function and
method names use barewords in preference to names prefixed with
ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for
them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C:@EXPORT> into the namespace
of the C<use> statement.

=item C<use YourModule ();>  
This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...)>
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- `![name]` This name only
- `![]:DEFAULT` All names in @EXPORT
- `![]:tag` All names in $EXPORT_TAGS{tag} anonymous list
- `![]/pattern/` All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

E.g., F<Module.pm> defines:

```perl
@EXPORT   = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^/[AP]F_/ !SOMAXCONN !SOL_SOCKET);
```
use POSIX qw(:errno_h :termios_h TCSADRAIN /^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

MyPackage->export_to_level($where_to_export, $package, @what_to_export);

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<@what_to_export> is an array telling what symbols *to* export (usually this is C<@_>). The C<$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
    $A::b = 1;  # not a very useful import method
}

and you want to Export symbol C<$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do:

package YourModule;
use Exporter qw(import);

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.
The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

    @failed_symbols = $module_name->export_fail(@failed_symbols);

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

    %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

    Exporter::export_tags('foo');  # add aa, bb and cc to @EXPORT
    Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility "::all" to simplify "use" statements.

The simplest way to do this is:

    %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

F<CGI.pm> creates an ":all" tag which contains some (but not really
call) of its categories. That could be done with one small
change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
            foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ':'.

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to
avoid having to compile and waste memory on rarely used values (see
L<perlsub> for details on constant subroutines). Calls to such
constant subroutines are not optimized away at compile time because
they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the
subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to
examine both the C<() prototype and the body of a subroutine at
compile time to detect that it can safely replace calls to that
subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

    package My;

    use Socket;

    foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
    BEGIN { SO_LINGER }
    foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing an C<AUTOLOAD> for any constants explicitly imported by other packages or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings> pragmas, the C<our> keyword is needed to declare the package variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must write instead a C<use vars> statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

=head2 Playing Safe

There are some caveats with the use of runtime statements like C<require Exporter> and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use C<BEGIN> blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request

The C<BEGIN> will assure that the loading of F<Exporter.pm>
and the assignments to C<@ISA> and C<@EXPORT_OK> happen
immediately, leaving no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

use base qw(Exporter);
  # or
  use parent qw(Exporter);

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

  use Exporter::Easy (  
     OK => [ qw(munge frobnicate) ],  
  );
  # @ISA setup is automatic
  # all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L</Selecting What to Export>
to not export:

=over 4

=item *

method names (because you don't need to
and that's likely to not do what you want),
anything by default (because you don't want to surprise your users... badly)

anything you don't need to (because less is more)

There's one more item to add to this list. Do Not export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

```
@EXPORT_OK = qw($svar @avar %hvar); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is a sample list of such modules.

- Exporter::Easy
- Exporter::Lite
- Exporter::Renaming
- Exporter::Tidy
- Sub::Exporter / Sub::Installer
- Perl6::Export / Perl6::Export::Attrs

=head1 LICENSE

This library is free software. You can redistribute it and/or modify it under the same terms as Perl itself.
No license file was found, but licenses were detected in source scan.

This library is free software. You can redistribute it and/or modify it under the same terms as Perl itself.

---
abstract: 'Implements default import method for modules'

author:
  - unknown

build_requires:
  ExtUtils::MakeMaker: 0

configure_requires:
  ExtUtils::MakeMaker: 0

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.120921'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Exporter

no_index:

directory:
  - t
  - inc

recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04

requires:
  Carp: 1.05

resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
  version: 5.70

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1014324299_1591897088.49/0/perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-xuMh3qh9/Exporter-5.70.tar.gz-cosi-expand-archive-cId9ejdT/Exporter-5.70/lib/Exporter.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):

1.118 libnetfilter-conntrack 1.0.6 5.el8

1.118.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program ‘Gnomovision’ (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.119 gtk 3.22.30-6.el8
1.119.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.> 
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This work may be reproduced and distributed in whole or in part, in any medium, physical or electronic, so as long as this copyright notice remains intact and unchanged on all copies. Commercial redistribution is permitted and encouraged, but you may not redistribute, in whole or in part, under terms more restrictive than those under which you received it. If you redistribute a modified or translated version of this work, you must also make the source code to the modified or translated version available in electronic form without charge. However, mere aggregation as part of a larger work shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain, and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Ben Gertzfield <che@debian.org> on Tue, 17 Nov 1998 12:07:17 -0800

It was produced from the CVS repository at cvs.gimp.org.

It may be redistributed under the terms of the GNU LGPL, Version 2 or later, found on Debian systems in the file /usr/doc/copyright/LGPL.

1.120 libnl3 3.5.0 1.el8
1.120.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts]
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and
"recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.
No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work’s users, your or third parties’ legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means.
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.
The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.121 perl-termreadkey 2.37-7.el8
1.121.1 Available under license:

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the
basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.
b) accompany the distribution with the machine-readable source of
the Package with your modifications.

c) give non-standard executables non-standard names, and clearly
document the differences in manual pages (or equivalent), together
with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package. You may charge any fee you choose for support of this
Package. You may not charge a fee for this Package itself. However,
you may distribute this Package in aggregate with other (possibly
commercial) programs as part of a larger (possibly commercial) software
distribution provided that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within
an executable of yours (by linking); this shall be construed as a mere
form of aggregation, provided that the complete Standard Version of the
interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as
output from the programs of this Package do not automatically fall
under the copyright of this Package, but belong to whoever generated
them, and may be sold commercially, and may be aggregated with this
Package. If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a
binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
fall under the restrictions of Paragraphs 3 and 4, provided that you do
not represent such an executable image as a Standard Version of this
Package.

7. C subroutines (or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or
promote products derived from this software without specific prior
written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.122 python-pip 9.0.3-19.el8
1.122.1 Available under license:

Copyright (c) 2008-2016 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.123 adobe-mappings-cmap 20171205-3.el8
1.123.1 Available under license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of Adobe Systems Incorporated nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.124 did-you-mean 1.5.0

1.124.1 Available under license:

MIT License

Copyright (c) 2017 GroupBy Inc

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.125 trousers 0.3.15-1.el8
1.125.1 Available under license:

Copyright (c) 2013, TrouSerS Project
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the TrouSerS Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.126 pixman 0.38.4 1.el8

1.126.1 Available under license:

The following is the MIT license, agreed upon by most contributors.
Copyright holders of new code should use this license statement where possible. They may also add themselves to the list below.

/*
 * Copyright 1987, 1988, 1989, 1998  The Open Group
 * Copyright 1987, 1988, 1989 Digital Equipment Corporation
 * Copyright 1999, 2004, 2008 Keith Packard
 * Copyright 2000 SuSE, Inc.
 * Copyright 2000 Keith Packard, member of The XFree86 Project, Inc.
 * Copyright 2004 Nicholas Miell
 * Copyright 2005 Lars Knoll & Zack Rusin, Trolltech
 * Copyright 2005 Trolltech AS
 * Copyright 2007 Luca Barbato
 * Copyright 2008 Aaron Plattner, NVIDIA Corporation
 * Copyright 2008 Rodrigo Kumpera
 * Copyright 2008 Andr Tupinamb
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

**1.127 usbutils 010 3.el8**

**1.127.1 Available under license:**

**GNU GENERAL PUBLIC LICENSE**

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

**Preamble**

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.
You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent
"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.
An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term “modification”.) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.128 psych 4.0.1.gem.data

1.128.1 Available under license:

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License

Copyright (c) 2009 Aaron Patterson, et al.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.129 mcelog 173-0.el8

1.129.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the 
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along 
with this program; if not, write to the Free Software Foundation, Inc., 
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this 
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author 
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. 
This is free software, and you are welcome to redistribute it 
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate 
parts of the General Public License. Of course, the commands you use may 
be called something other than `show w' and `show c'; they could even be 
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your 
school, if any, to sign a "copyright disclaimer" for the program, if 
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989 
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into 
proprietary programs. If your program is a subroutine library, you may 
consider it more useful to permit linking proprietary applications with the 
library. If this is what you want to do, use the GNU Lesser General 
Public License instead of this License.

1.130 logrus v1.4.2
1.130.1 Available under license : 
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.131 javapackages-tools 5.3.0-1.module_el8.0.0+11+5b8c10bd

1.131.1 Available under license:

Copyright (c) 2011-2015 Red Hat, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Red Hat nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000-2006, JPpackage Project
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the JPpackage Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.132 elfutils 0.182-3.el8
1.132.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
 * symbol_type_info.c
 *
 * July 2016, Jingfeng Yan
 *
 * Copyright (c) 2016 by cisco Systems, Inc.
 * All rights reserved
 */
/*

Found in path(s):
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/symbol_type_info.c
No license file was found, but licenses were detected in source scan.

parser_bin_tool_readme.html

July 2016, Jingfeng Yan

Copyright (c) 2016 by cisco Systems, Inc.
All rights reserved

Found in path(s):
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parser_bin_tool_readme.html
No license file was found, but licenses were detected in source scan.

# All rights reserved

Found in path(s):
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parseinfo.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/datastore.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/structdef.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/ActionTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/fixup_parser_extension.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/LinkTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleELF.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Makefile
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_func_calls.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/codegen.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/StructFormat.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Simple CType.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/setup.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/struct_unpack.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/gdblist.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/bat_structoffset.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/CmdSelector.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parser_bin_tool.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SymbolTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_address.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Traverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/graph_algo.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/actionenum.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/handler.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Condition.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleTraverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/tdlutils.py
No license file was found, but licenses were detected in source scan.

/*
 * lua_ex_api.c
 *
 * July 2016, Jingfeng Yan
 *
 * Copyright (c) 2016 by cisco Systems, Inc.
 * All rights reserved
 */

Found in path(s):
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/lua_ex_api.c

No license file was found, but licenses were detected in source scan.

/*
 * lua_ex_api.h
 *
 * July 2016, Jingfeng Yan
 *
 * Copyright (c) 2016 by cisco Systems, Inc.
 * All rights reserved
 */

Found in path(s):
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/lua_ex_api.h

1.133 perl-net-ssleay 1.88-1.module_el8.3.0+410+ff426aa3
1.133.1 Available under license:
    The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software Package may be copied, modified, distributed, and/or redistributed. The intent is that the Copyright Holder maintains some artistic control over the development of that Package while still keeping the Package available as open source and free software.
You are always permitted to make arrangements wholly outside of this license directly with the Copyright Holder of a given Package. If the terms of this license do not permit the full use that you propose to make of the Package, you should contact the Copyright Holder and seek a different licensing arrangement.

Definitions

"Copyright Holder" means the individual(s) or organization(s) named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other material to the Package, in accordance with the Copyright Holder's procedures.

"You" and "your" means any person who would like to copy, distribute, or modify the Package.

"Package" means the collection of files distributed by the Copyright Holder, and derivatives of that collection and/or of those files. A given Package may consist of either the Standard Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or
Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard features, executables, or modules, and provided that you do at least ONE of the following:

(a) make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.

(b) ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.

(c) allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under
(i) the Original License or

(ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction, provided the result does not expose a direct interface to the Package.

Items That are Not Considered Part of a Modified Version
(9) Works (including, but not limited to, modules and scripts) that merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

General Provisions

(10) Any use, modification, and distribution of the Standard or Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation (including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty:
THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.134.1 Available under license:
Copyright (c) 2005, 2006, 2007, 2008 Red Hat, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Red Hat, Inc., nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.135 psutil 5.4.3
1.135.1 Available under license:
psutil is distributed under BSD license reproduced below.

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the psutil authors nor the names of its contributors may be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.136 perl-fedora-vsp 0.001-9.el8

1.136.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.137 setroubleshoot-plugins 3.3.13 1.el8

1.137.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS
0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.
Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.
You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.
Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.
Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.138 librsvg 2.42.7-4.el8
1.138.1 Available under license :
The MIT License (MIT)

Copyright (c) 2015 Bartomiej Kamiski

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2018 Josh Stone

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2017 Gilad Naaman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
   (d) If the Work includes a “NOTICE” text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2014 The html5ever Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015-2016 Kevin B. Knapp

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License

Copyright (c) 2017 Nick Stevens

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This project is copyright 2015, The Servo Project Developers (given in the file AUTHORS).

Licensed under the Apache License, Version 2.0 <LICENSE-APACHE or http://www.apache.org/licenses/LICENSE-2.0> or the MIT license <LICENSE-MIT or http://opensource.org/licenses/MIT>, at your option. All files in the project carrying such notice may not be copied, modified, or distributed except according to those terms.
Mozilla Public License Version 2.0

1. Definitions

------------
1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
   in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
   version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered
Software; or
1.11. "Patent Claims" of a Contributor means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form" means the form of the work preferred for making modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.
2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

EachContributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or *
*  statutory, including, without limitation, warranties that the      *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the    *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,  *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.        *
*                                                                      *
************************************************************************
************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any          *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,        *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of  *
*  goodwill, work stoppage, computer failure or malfunction, or any   *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*
8. Litigation
-------------

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
-------------

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
----------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

-------------------------------------------

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

-------------------------------------------

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

MIT License

Copyright (c) 2019 Daniel "Lokathor" Gee.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyrights in the Rand project are retained by their contributors. No
copyright assignment is required to contribute to the Rand project.

For full authorship information, see the version control history.

Except as otherwise noted (below and/or in individual files), Rand is
licensed under the Apache License, Version 2.0 <LICENSE-APACHE> or
<http://www.apache.org/licenses/LICENSE-2.0> or the MIT license
LICENSE-MIT> or <http://opensource.org/licenses/MIT>, at your option.

The Rand project includes code from the Rust project
published under these same licenses.
The MIT License (MIT)

Copyright (c) 2015 Johann Hofmann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) 2014-2017 Jorge Aparicio

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This project is licensed under either of

* Apache License, Version 2.0, ([LICENSE-APACHE](LICENSE-APACHE) or http://www.apache.org/licenses/LICENSE-2.0)
* MIT license ([LICENSE-MIT](LICENSE-MIT) or http://opensource.org/licenses/MIT)

at your option.

Copyright 2018 Developers of the Rand project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2017 Redox OS Developers

MIT License
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS

Copyright 2017 Aaron Power

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2016 Alex Crichton
Copyright (c) 2017 The Tokio Authors

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015 nwin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) 2019 Nick Fitzgerald

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTicular PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
Copyright (c) 2015-2018 The winapi-rs Developers

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) Ulrik Sverdrup "bluss" 2015-2017

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License (MIT)

Copyright (c) 2017 Andrew Gallant
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 Keegan McAllister

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2018 Simon Sapin
Copyright (c) 2018 Reizner Evgeniy

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License

Copyright (c) 2016 Martin Geisler

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2017 Doug Tangren

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
   Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
The MIT License (MIT)

Copyright (c) 2013-2017, The Gtk-rs Project Developers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
Copyright (c) 2014-2017 Melissa O'Neill and PCG Project contributors
Copyright 2018 Developers of the Rand project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2018 David Tolnay

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2016 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.
"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--- LLVM Exceptions to the Apache 2.0 License ----

As an exception, if, as a result of your compiling your source code, portions of this Software are embedded into an Object form of such source code, you may redistribute such embedded portions in such Object form without complying with the conditions of Sections 4(a), 4(b) and 4(d) of the License.

In addition, if you combine or link compiled forms of this Software with software that is licensed under the GPLv2 ("Combined Software") and if a court of competent jurisdiction determines that the patent provision (Section 3), the indemnity provision (Section 9) or other Section of the License conflicts with the conditions of the GPLv2, you may retroactively and prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the Combined Software.

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
See Terms of Use for definitions of Unicode Inc.’s Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.’S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2019 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
Copyright (c) 2016 - 2018 Ulrik Sverdrup "bluss"

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014-2016 Simon Sapin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015 Steven Allen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright 2018 Developers of the Rand project
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Sbastien Crozet
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the author nor the names of its contributors may be used
to endorse or promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2016 Jelte Fennema

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) 2018 The pin-utils authors

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2019 Kornel

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
The MIT License (MIT)

Copyright (c) 2013, Kang Seonghoon.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
The MIT License (MIT)

Copyright (c) 2016-2019 Jan Hudec <bulb@ucw.cz>
Copyright (c) 2016 A.J. Gardner <aaron.j.gardner@gmail.com>
Copyright (c) 2019, Bastien Orivel <eijebong@bananium.fr>
Copyright (c) 2019, Igor Gnatenko <i.gnatenko.brain@gmail.com>
Copyright (c) 2019, Sophie Tauchert <999eagle@999eagle.moe>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright (c) 2018 The Servo Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
shall the authors or copyright holders be liable for any
claim, damages or other liability, whether in an action
of contract, tort or otherwise, arising from, out of or
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2019 Daniel "Lokathor" Gee.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damage arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
   Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
MIT License

Copyright (c) 2019 Hao Hou <haohou302@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2016-2019 Ulrik Sverdrup "bluss" and scopeguard developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright (c) 2015

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright (c) 2016 Alex Crichton
Copyright (c) 2017 The Tokio Authors
Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The Gtk-rs Project is copyright 2013-2016, The Gtk-rs Project Developers:

Adam Crume <adamcrume@gmail.com>
Adolfo Ochagava <aochagavia92@gmail.com>
Andre Bogus <bogusandre@gmail.com>
Anton Konjahin <konjahin.ant@yandex.ru>
Arne Dussin <arne.dussin@live.de>
Boden Garman <bpgarman@fastmail.fm>
Brian Kropf <brian.kropf@gmail.com>
Bryant Mairs <bryant@mai.rs>
Chris Greenaway <cjgreenaway@gmail.com>
Chris Palmer <pennstate5013@gmail.com>
Corey Farwell <coreyf@rwell.org>
Daniel Zalevskiy <dndanik@gmail.com>
David Li <li.davidm96@gmail.com>
Edward Shaw <edwardshaw9+git@gmail.com>
Edward Yang <edward.yang6771@gmail.com>
Espotion <esption@gmail.com>
Evgenii Pashkin <eapashkin@gmail.com>
Geoffrey French <frondit1985@gmail.com>
Gleb Kozyrev <gleb@gkoz.com>
Glenn Watson <gw@intuitionlibrary.com>
Google Inc.
Guillaume Gomez <guillaume1.gomez@gmail.com>
Gulshan Singh <gulshan@umich.edu>
Jakob Gillich <jakob@gillich.me>
James Shepherdson <james.shepherdson@gmail.com>
Jeremy Letang <letang jeremy@gmail.com>
John Vrbanac <john.vrbanac@linux.com>
kennytm <kennytm@gmail.com>
Laurence Tratt <laurie@tratt.net>
Lionel Flandrin <lionel.flandrin@gmail.com>
Lucas Werkmeister <mail@lucaswerkmeister.de>
Lukas Diekmann <lukas.diekmann@gmail.com>
Mathijs Henquet <mathijs.henquet@gmail.com>
Maxwell Koo <mjkoo90@gmail.com>
The Gtk-rs Project is licensed under the MIT license, see the LICENSE file or <http://opensource.org/licenses/MIT>.

This project provides interoperability with various GNOME libraries but doesn't distribute any parts of them. Distributing compiled libraries and executables that link to those libraries may be subject to terms of the GNU LGPL, see the LGPL file.

The Gtk-rs Project is licensed under the MIT license, see the LICENSE file or <http://opensource.org/licenses/MIT>.
Copyright (c) 2016 Junfeng Liu

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2018-2019 Andrew Gallant

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright (c) 2017 Aaron Power

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTicular PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution” shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2019 The CryptoCorrosion Contributors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2019 The CryptoCorrosion Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2016 Steve Klabnik

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.


Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide,
non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent
claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination
of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation
against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted
to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark,
and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of
the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute
must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices
that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text
file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the
Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices
normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an
addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed
as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license
terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works
as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions
stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to
the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement
you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the
Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing
the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor
provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

MIT License

Copyright (c) 2017 Emilio Cobos lvarez

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
 DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

MIT License

Copyright (c) Steven Sheldon

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012-2013 Mozilla Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015-2019 Doug Tangren

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20139
that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

the following is a list of contributors:

| [kbknapp](https://github.com/kbknapp) | [homu](https://github.com/homu) | [Vinatorul](https://github.com/Vinatorul) | [tormol](https://github.com/tormol) | [willmurphyscode](https://github.com/willmurphyscode) | [little-dude](https://github.com/little-dude) |
| [sru](https://github.com/sru) | [mgeisler](https://github.com/mgeisler) | [nabijaczleweli](https://github.com/nabijaczleweli) | [Byron](https://github.com/Byron) | [hgrecco](https://github.com/hgrecco) | [bluejekyll](https://github.com/bluejekyll) |
| [segevfiner](https://github.com/segevfiner) | [ignatenkobrain](https://github.com/ignatenkobrain) | [james-darkfox](https://github.com/james-darkfox) | [H2CO3](https://github.com/H2CO3) | [nateozem](https://github.com/nateozem) | [glowing-chemist](https://github.com/glowing-chemist) |
[segevfiner](https://github.com/segevfiner) ||[ignatenkobrain](https://github.com/ignatenkobrain) ||[james-darkfox](https://github.com/james-darkfox) ||[H2CO3](https://github.com/H2CO3) ||[nateozem](https://github.com/nateozem) ||[glowing-chemist](https://github.com/glowing-chemist) |

| ![discosultan](https://avatars1.githubusercontent.com/u/2970736?v=4&s=117) || ![rtaycher](https://avatars0.githubusercontent.com/u/324733?v=4&s=117) || ![Arnavion](https://avatars2.githubusercontent.com/u/1096010?v=4&s=117) || ![japaric](https://avatars3.githubusercontent.com/u/837573?v=4&s=117) || ![afiune](https://github.com/afiune) |
| ![crazymerlyn](https://avatars1.githubusercontent.com/u/6919679?v=4&s=117) || ![SuperFluffy](https://avatars0.githubusercontent.com/u/7011772?v=4&s=117) || ![matthiasbeyer](https://avatars0.githubusercontent.com/u/427866?v=4&s=117) || ![malbarbo](https://avatars3.githubusercontent.com/u/1678126?v=4&s=117) || ![tshepang](https://github.com/tshepang) |

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20143
| [frewsxcv](https://github.com/frewsxcv) | [hoodie](https://github.com/hoodie) | [huonw](https://github.com/huonw) | [GrappigPanda](https://github.com/GrappigPanda) | [shepmaster](https://github.com/shepmaster) | [starkat99](https://github.com/starkat99) |
| ![porglezomp](https://avatars1.githubusercontent.com/u/1690225?v=4&s=117) | ![kraai](https://avatars1.githubusercontent.com/u/552646?v=4&s=117) | ![musoke](https://avatars0.githubusercontent.com/u/16665084?v=4&s=117) | ![nelsonjchen](https://avatars1.githubusercontent.com/u/5363?v=4&s=117) | ![pkgw](https://avatars0.githubusercontent.com/u/59598?v=4&s=117) | ![Deedasmi](https://avatars0.githubusercontent.com/u/5093293?v=4&s=117) |
| [porglezomp](https://github.com/porglezomp) | [kraai](https://github.com/kraai) | [musoke](https://github.com/musoke) | [nelsonjchen](https://github.com/nelsonjchen) | [pkgw](https://github.com/pkgw) | [Deedasmi](https://github.com/Deedasmi) |
| ![vmchale](https://avatars1.githubusercontent.com/u/13259982?v=4&s=117) | ![etopiei](https://avatars1.githubusercontent.com/u/17671663?v=4&s=117) | ![messense](https://avatars0.githubusercontent.com/u/1556054?v=4&s=117) | ![Keats](https://avatars1.githubusercontent.com/u/680355?v=4&s=117) | ![kieraneglin](https://avatars0.githubusercontent.com/u/569917?v=4&s=117) | ![durka](https://github.com/durka) |
| [vmchale](https://github.com/vmchale) | [etopiei](https://github.com/etopiei) | [messense](https://github.com/messense) | [Keats](https://github.com/Keats) | [kieraneglin](https://github.com/kieraneglin) | [durka](https://github.com/durka) |
| ![alex-gulyas](https://avatars0.githubusercontent.com/u/8698329?v=4&s=117) | ![cite-reader](https://avatars1.githubusercontent.com/u/4196987?v=4&s=117) | ![alexbool](https://avatars3.githubusercontent.com/u/1283792?v=4&s=117) | ![alex-gulyas](https://github.com/alex-gulyas) | ![cite-reader](https://github.com/cite-reader) | ![alexbool](https://github.com/alexbool) |
| [alex-gulyas](https://github.com/alex-gulyas) | cite-reader[https://github.com/cite-reader) |
| [alexbool](https://github.com/alexbool) | [AluisioASG](https://github.com/AluisioASG) |
| [BurntSushi](https://github.com/BurntSushi) | [AndrewGaspar](https://github.com/AndrewGaspar) |
| [nox](https://github.com/nox) | [mitsuhiko](https://github.com/mitsuhiko) |
| [pixelistik](https://github.com/pixelistik) | [ogham](https://github.com/ogham) |
| [Bilalh](https://github.com/Bilalh) | [dotdash](https://github.com/dotdash) |
| [bradurani](https://github.com/bradurani) | [Seeker14491](https://github.com/Seeker14491) |
| [brianp](https://github.com/brianp) | [cldershem](https://github.com/cldershem) |
| [casey](https://github.com/casey) | [volks73](https://github.com/volks73) |
| [daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) |
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten) |
| [drusellers](https://github.com/drusellers) | ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/alexbool) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/AluisioASG) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/BurntSushi) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/AndrewGaspar) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/alexbool) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/AluisioASG) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/BurntSushi) ![Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20145](https://github.com/AndrewGaspar) |
Open Source Used in Kenna Virtual Tunnel and Agent 2021.08

[Newman](https://github.com/mernen) | [Maven](https://github.com/davidszotten)
| [Drusellers](https://github.com/drusellers)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)

[daboross](https://github.com/daboross) | [da-x](https://github.com/da-x) | [mernen](https://github.com/mernen)
| [dguo](https://github.com/dguo) | [davidszotten](https://github.com/davidszotten)
<table>
<thead>
<tr>
<th>mdaffin</th>
<th>iliekturtles</th>
<th>nicompte</th>
<th>NickeZ</th>
<th>nvzqz</th>
<th>nuew</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://github.com/mdaffin">mdaffin</a></td>
<td><a href="https://github.com/iliekturtles">iliekturtles</a></td>
<td><a href="https://github.com/nicompte">nicompte</a></td>
<td><a href="https://github.com/NickeZ">NickeZ</a></td>
<td><a href="https://github.com/nvzqz">nvzqz</a></td>
<td><a href="https://github.com/nuew">nuew</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geogi</th>
<th>focusaurus</th>
<th>flying-sheep</th>
<th>Phlosioneer</th>
<th>peppsac</th>
<th>golddranks</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://github.com/Geogi">Geogi</a></td>
<td><a href="https://github.com/focusaurus">focusaurus</a></td>
<td><a href="https://github.com/flying-sheep">flying-sheep</a></td>
<td><a href="https://github.com/Phlosioneer">Phlosioneer</a></td>
<td><a href="https://github.com/peppsac">peppsac</a></td>
<td><a href="https://github.com/golddranks">golddranks</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>hexjelly</th>
<th>rom1v</th>
<th>rnelson</th>
<th>swatteau</th>
<th>tchajed</th>
<th>tspiteri</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://github.com/hexjelly">hexjelly</a></td>
<td><a href="https://github.com/rom1v">rom1v</a></td>
<td><a href="https://github.com/rnelson">rnelson</a></td>
<td><a href="https://github.com/swatteau">swatteau</a></td>
<td><a href="https://github.com/tchajed">tchajed</a></td>
<td><a href="https://github.com/tspiteri">tspiteri</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>siiptuo</th>
<th>vks</th>
<th>vsupalov</th>
<th>mineo</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://github.com/siiptuo">siiptuo</a></td>
<td><a href="https://github.com/vks">vks</a></td>
<td><a href="https://github.com/vsupalov">vsupalov</a></td>
<td><a href="https://github.com/mineo">mineo</a></td>
<td></td>
</tr>
</tbody>
</table>
This list was generated by [mgechev/github-contributors-list](https://github.com/mgechev/github-contributors-list)

MIT License

Copyright (c) 2020 Soveu

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014-2020 Optimal Computing (NZ) Ltd

Permission is hereby granted, free of charge, to any person obtaining a copy of
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability...
incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2018 The pin-utils authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright 2012-2016 The Rust Project Developers.
Copyright 2016-2020 Frank Denis.

Licensed under the Apache License, Version 2.0 <LICENSE-APACHE or http://www.apache.org/licenses/LICENSE-2.0> or the MIT license <LICENSE-MIT or http://opensource.org/licenses/MIT>, at your option.

Copyright (c) 2017 Robert Grosse

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013-2016 The rust-url developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Paho Lurie-Gregg

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 The assert_cli Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2019 The Crossbeam Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2019 Daniel "Lokathor" Gee.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

MIT License

Copyright (c) 2017 Frommi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
The MIT License (MIT)

Copyright (c) 2015 Andrew Gallant

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright notice for the Rust port:

(C) 2016 Remi Rampin and adler32-rs contributors

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.
Copyright notice for the original C code from the zlib project:

(C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
Copyright (c) 2014-2020 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
Copyright (c) 2015 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015 Pyfisch

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License
Copyright (c) 2018 Sam Rijs, Alex Crichton and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Mozilla Public License Version 2.0
==================================

1. Definitions

-------------
1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
    in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
    version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered
Software; or
(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
----------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.
2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.
*                                                                      *
************************************************************************
************************************************************************
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or
8. Litigation
-------------

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
-----------------

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
-----------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

-------------------------------------------

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

---------------------------------------------------------

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.
The MIT License (MIT)

Copyright (c) 2016

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) Jonas Schievink <jonasschievink@gmail.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The following license covers testregex.c and all associated test data.

Permission is hereby granted, free of charge, to any person obtaining a copy of THIS SOFTWARE FILE (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following disclaimer:

THIS SOFTWARE IS PROVIDED BY AT&T "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL AT&T BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or distribute this software, either in source code form or as a compiled binary, for any purpose, commercial or non-commercial, and by any means.

In jurisdictions that recognize copyright laws, the author or authors of this software dedicate any and all copyright interest in the software to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org/>
Licensed under the Apache License, Version 2.0
<LICENSE-APACHE or http://www.apache.org/licenses/LICENSE-2.0> or the MIT license <LICENSE-MIT or http://opensource.org/licenses/MIT>, at your option. All files in the project carrying such notice may not be copied, modified, or distributed except according to those terms.
MIT License

Copyright (c) 2018 Guillaume Gomez

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2019 Simon Heath

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2019 Brook Heisler

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2019 Carl Lerche

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

// This file was generated by gir (https://github.com/gtk-rs/gir)
// from gir-files (https://github.com/gtk-rs/gir-files)
// DO NOT EDIT

use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;
    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(

fn acquire_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

fn get_allowed(&self) -> bool;

fn get_can_acquire(&self) -> bool;

fn get_can_release(&self) -> bool;

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
);  

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {

```
fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn acquire_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = acquire_async_trampoline::<Q>;
    unsafe {
        gio_sys::g_permission_acquire_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data as *mut _),
        );
    }
}

fn acquire_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
    }));
fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(  
            self.as_ref().to_glib_none().0,
        )
    }
}
fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(  
            self.as_ref().to_glib_none().0,
        )
    }
}
fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(  
            self.as_ref().to_glib_none().0,
        )
    }
}
fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(  
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}
fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(  
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {  
            Err(error)
        }
    }
}
fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    >(
        _source_object as *mut _,
        res as *mut gio_sys::GAsyncResult,
        user_data as *mut _,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else { Err(from_glib_full(error)));
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {
        gio_sys::g_permission_release_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data as *mut _),
        );
    }
}

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> { Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
    });
}
fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box<_<F> = Box::<F>::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::allowed\0".as_ptr() as *const _,
            Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
            Box::_::into_raw(f),
        )
    }
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box<_<F> = Box::<F>::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-acquire\0".as_ptr() as *const _,
            Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
            Box::_::into_raw(f),
        )
    }
}
fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }

    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-release".as_ptr() as *const _,
            Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
        )
    }
}

impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}

This project is dual-licensed under the Unlicense and MIT licenses.

You may use this code under the terms of either license.
Copyright (c) 2020 Frommi

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

../LICENSE-APACHE

Copyright (c) 2015 nwin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013-2015, The Gtk-rs Project Developers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Rust-chrono is dual-licensed under The MIT License [1] and Apache 2.0 License [2]. Copyright (c) 2014--2017, Kang Seonghoon and contributors.

Nota Bene: This is same as the Rust Project's own license.

[1]: <http://opensource.org/licenses/MIT>, which is reproduced below:

```text
The MIT License (MIT)

Copyright (c) 2014, Kang Seonghoon.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

[2]: <http://www.apache.org/licenses/LICENSE-2.0>, which is reproduced below:

```text
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
"License" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

~~~~~
Copyright (c) 2018

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

===============================================================================

Bounded MPMC queue
http://www.1024cores.net/home/code-license

Copyright (c) 2010-2011 Dmitry Vyukov.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY DMITRY VYUKOV "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL DMITRY VYUKOV OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Dmitry Vyukov.

===============================================================================

matching.go
https://creativecommons.org/licenses/by/3.0/legalcode

Creative Commons Legal Code

Attribution 3.0 Unported

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS LICENSE DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE INFORMATION PROVIDED, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM ITS USE.

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

a. "Adaptation" means a work based upon the Work, or upon the Work and other pre-existing works, such as a translation, adaptation, derivative work, arrangement of music or other alterations of a literary or artistic work, or phonogram or performance and includes cinematographic adaptations or any other form in which the Work may be recast, transformed, or adapted including in any form recognizably derived from the original, except that a work that constitutes a Collection will not be considered an Adaptation for the purpose of
this License. For the avoidance of doubt, where the Work is a musical work, performance or phonogram, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered an Adaptation for the purpose of this License.

b. "Collection" means a collection of literary or artistic works, such as encyclopedias and anthologies, or performances, phonograms or broadcasts, or other works or subject matter other than works listed in Section 1(f) below, which, by reason of the selection and arrangement of their contents, constitute intellectual creations, in which the Work is included in its entirety in unmodified form along with one or more other contributions, each constituting separate and independent works in themselves, which together are assembled into a collective whole. A work that constitutes a Collection will not be considered an Adaptation (as defined above) for the purposes of this License.

c. "Distribute" means to make available to the public the original and copies of the Work or Adaptation, as appropriate, through sale or other transfer of ownership.

d. "Licensor" means the individual, individuals, entity or entities that offer(s) the Work under the terms of this License.

e. "Original Author" means, in the case of a literary or artistic work, the individual, individuals, entity or entities who created the Work or if no individual or entity can be identified, the publisher; and in addition (i) in the case of a performance the actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret or otherwise perform literary or artistic works or expressions of folklore; (ii) in the case of a phonogram the producer being the person or legal entity who first fixes the sounds of a performance or other sounds; and, (iii) in the case of broadcasts, the organization that transmits the broadcast.

f. "Work" means the literary and/or artistic work offered under the terms of this License including without limitation any production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression including digital form, such as a book, pamphlet and other writing; a lecture, address, sermon or other work of the same nature; a dramatic or dramatico-musical work; a choreographic work or entertainment in dumb show; a musical composition with or without words; a cinematographic work to which are assimilated works expressed by a process analogous to cinematography; a work of drawing, painting, architecture, sculpture, engraving or lithography; a photographic work to which are assimilated works expressed by a process analogous to photography; a work of applied art; an illustration, map, plan, sketch or three-dimensional work relative to geography, topography, architecture or science; a performance; a broadcast; a phonogram; a compilation of data to the extent it is protected as a copyrightable work; or a work performed by a variety or circus performer to the extent it is not otherwise considered a literary or artistic work.
g. "You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

h. "Publicly Perform" means to perform public recitations of the Work and to communicate to the public those public recitations, by any means or process, including by wire or wireless means or public digital performances; to make available to the public Works in such a way that members of the public may access these Works from a place and at a place individually chosen by them; to perform the Work to the public by any means or process and the communication to the public of the performances of the Work, including by public digital performance; to broadcast and rebroadcast the Work by any means including signs, sounds or images.

i. "Reproduce" means to make copies of the Work by any means including without limitation by sound or visual recordings and the right of fixation and reproducing fixations of the Work, including storage of a protected performance or phonogram in digital form or other electronic medium.

2. Fair Dealing Rights. Nothing in this License is intended to reduce, limit, or restrict any uses free from copyright or rights arising from limitations or exceptions that are provided for in connection with the copyright protection under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

a. to Reproduce the Work, to incorporate the Work into one or more Collections, and to Reproduce the Work as incorporated in the Collections;

b. to create and Reproduce Adaptations provided that any such Adaptation, including any translation in any medium, takes reasonable steps to clearly label, demarcate or otherwise identify that changes were made to the original Work. For example, a translation could be marked "The original work was translated from English to Spanish," or a modification could indicate "The original work has been modified."

c. to Distribute and Publicly Perform the Work including as incorporated in Collections; and,

d. to Distribute and Publicly Perform Adaptations.

e. For the avoidance of doubt:

   i. Non-waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme cannot be waived, the Licensor
reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License;
ii. Waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme can be waived, the Licensor waives the exclusive right to collect such royalties for any exercise by You of the rights granted under this License; and,
iii. Voluntary License Schemes. The Licensor waives the right to collect royalties, whether individually or, in the event that the Licensor is a member of a collecting society that administers voluntary licensing schemes, via that society, from any exercise by You of the rights granted under this License.

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. Subject to Section 8(f), all rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

a. You may Distribute or Publicly Perform the Work only under the terms of this License. You must include a copy of, or the Uniform Resource Identifier (URI) for, this License with every copy of the Work You Distribute or Publicly Perform. You may not offer or impose any terms on the Work that restrict the terms of this License or the ability of the recipient of the Work to exercise the rights granted to that recipient under the terms of the License. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties with every copy of the Work You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Work, You may not impose any effective technological measures on the Work that restrict the ability of a recipient of the Work from You to exercise the rights granted to that recipient under the terms of the License. This Section 4(a) applies to the Work as incorporated in a Collection, but this does not require the Collection apart from the Work itself to be made subject to the terms of this License. If You create a Collection, upon notice from any Licensor You must, to the extent practicable, remove from the Collection any credit as required by Section 4(b), as requested. If You create an Adaptation, upon notice from any Licensor You must, to the extent practicable, remove from the Adaptation any credit as required by Section 4(b), as requested.

b. If You Distribute, or Publicly Perform the Work or any Adaptations or Collections, You must, unless a request has been made pursuant to Section 4(a), keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the
name of the Original Author (or pseudonym, if applicable) if supplied, and/or if the Original Author and/or Licensor designate another party or parties (e.g., a sponsor institute, publishing entity, journal) for attribution ("Attribution Parties") in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; (ii) the title of the Work if supplied; (iii) to the extent reasonably practicable, the URI, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and (iv) , consistent with Section 3(b), in the case of an Adaptation, a credit identifying the use of the Work in the Adaptation (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). The credit required by this Section 4(b) may be implemented in any reasonable manner; provided, however, that in the case of a Adaptation or Collection, at a minimum such credit will appear, if a credit for all contributing authors of the Adaptation or Collection appears, then as part of these credits and in a manner at least as prominent as the credits for the other contributing authors. For the avoidance of doubt, You may only use the credit required by this Section for the purpose of attribution in the manner set out above and, by exercising Your rights under this License, You may not implicitly or explicitly assert or imply any connection with, sponsorship or endorsement by the Original Author, Licensor and/or Attribution Parties, as appropriate, of You or Your use of the Work, without the separate, express prior written permission of the Original Author, Licensor and/or Attribution Parties.

c. Except as otherwise agreed in writing by the Licensor or as may be otherwise permitted by applicable law, if You Reproduce, Distribute or Publicly Perform the Work either by itself or as part of any Adaptations or Collections, You must not distort, mutilate, modify or take other derogatory action in relation to the Work which would be prejudicial to the Original Author's honor or reputation. Licensor agrees that in those jurisdictions (e.g. Japan), in which any exercise of the right granted in Section 3(b) of this License (the right to make Adaptations) would be deemed to be a distortion, mutilation, modification or other derogatory action prejudicial to the Original Author's honor and reputation, the Licensor will waive or not assert, as appropriate, this Section, to the fullest extent permitted by the applicable national law, to enable You to reasonably exercise Your right under Section 3(b) of this License (right to make Adaptations) but not otherwise.

5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE,
INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, 
FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF 
LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, 
WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION 
OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE 
LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR 
ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES 
ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS 
BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. Termination

a. This License and the rights granted hereunder will terminate 
automatically upon any breach by You of the terms of this License. 
Individuals or entities who have received Adaptations or Collections 
from You under this License, however, will not have their licenses 
terminated provided such individuals or entities remain in full 
compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will 
survive any termination of this License.

b. Subject to the above terms and conditions, the license granted here is 
perpetual (for the duration of the applicable copyright in the Work). 
Notwithstanding the above, Licensor reserves the right to release the 
Work under different license terms or to stop distributing the Work at 
any time; provided, however that any such election will not serve to 
withdraw this License (or any other license that has been, or is 
required to be, granted under the terms of this License), and this 
License will continue in full force and effect unless terminated as 
stated above.

8. Miscellaneous

a. Each time You Distribute or Publicly Perform the Work or a Collection, 
the Licensor offers to the recipient a license to the Work on the same 
terms and conditions as the license granted to You under this License.
b. Each time You Distribute or Publicly Perform an Adaptation, Licensor 
offers to the recipient a license to the original Work on the same 
terms and conditions as the license granted to You under this License.
c. If any provision of this License is invalid or unenforceable under 
applicable law, it shall not affect the validity or enforceability of 
the remainder of the terms of this License, and without further action 
by the parties to this agreement, such provision shall be reformed to 
the minimum extent necessary to make such provision valid and 
enforceable.
d. No term or provision of this License shall be deemed waived and no 
breach consented to unless such waiver or consent shall be in writing 
and signed by the party to be charged with such waiver or consent.
e. This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

f. The rights granted under, and the subject matter referenced, in this License were drafted utilizing the terminology of the Berne Convention for the Protection of Literary and Artistic Works (as amended on September 28, 1979), the Rome Convention of 1961, the WIPO Copyright Treaty of 1996, the WIPO Performances and Phonograms Treaty of 1996 and the Universal Copyright Convention (as revised on July 24, 1971). These rights and subject matter take effect in the relevant jurisdiction in which the License terms are sought to be enforced according to the corresponding provisions of the implementation of those treaty provisions in the applicable national law. If the standard suite of rights granted under applicable copyright law includes additional rights not granted under this License, such additional rights are deemed to be included in the License; this License is not intended to restrict the license of any rights under applicable law.

Creative Commons Notice

Creative Commons is not a party to this License, and makes no warranty whatsoever in connection with the Work. Creative Commons will not be liable to You or any party on any legal theory for any damages whatsoever, including without limitation any general, special, incidental or consequential damages arising in connection to this license. Notwithstanding the foregoing two (2) sentences, if Creative Commons has expressly identified itself as the Licensor hereunder, it shall have all rights and obligations of Licensor.

Except for the limited purpose of indicating to the public that the Work is licensed under the CCPL, Creative Commons does not authorize the use by either party of the trademark "Creative Commons" or any related trademark or logo of Creative Commons without the prior written consent of Creative Commons. Any permitted use will be in compliance with Creative Commons' then-current trademark usage guidelines, as may be published on its website or otherwise made available upon request from time to time. For the avoidance of doubt, this trademark restriction does not form part of this License.

Creative Commons may be contacted at https://creativecommons.org/.

===============================================================================

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20197
The Go Programming Language
https://golang.org/LICENSE

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===============================================================================

The Rust Programming Language
https://github.com/rust-lang/rust/blob/master/LICENSE-MIT

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

===============================================================================

The Rust Programming Language
https://github.com/rust-lang/rust/blob/master/LICENSE-APACHE

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20199
not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of Your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/LICENSE-2.0

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2014 Alex Crichton

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.
To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
courage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Copyright (c) 2015 Jonathan Reem

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2016 Kathryn Long

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.139 python-systemd 234 8.el8
1.139.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.140 nvme-cli 1.12-4.el8_4

1.140.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is
implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

{description}
Copyright (C) {year}  {fullname}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.141 libnuma 2.0.12-11.el8
1.141.1 Available under license :
/* Copyright (C) 2003,2004 Andi Kleen, SuSE Labs.
   Allocate memory with policy for testing.

numactl is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public
License as published by the Free Software Foundation; version
2.

numactl is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should find a copy of v2 of the GNU General Public License somewhere
on your Linux system; if not, write to the Free Software Foundation,
Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA */
GNU GENERAL PUBLIC LICENSE
   Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

**NO WARRANTY**

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

**END OF TERMS AND CONDITIONS**

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

License Terms


Please email James[mailto:james@grayproductions.net] with any questions.

1.143 hostname 3.20 6.el8

1.143.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is
implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

This package was written by Peter Tobias <tobias@et-inf.fho-emden.de>
on Thu, 16 Jan 1997 01:00:34 +0100.

License:

Copyright (C) 2009 Michael Meskes <meskes@debian.org>
Copyright (C) 2004-2005 Graham Wilson <graham@debian.org>
Copyright (C) 1997 Bernd Eckenfels
Copyright (C) 1997 Peter Tobias <tobias@et-inf.fho-emden.de>
Copyright (C) 1996 Free Software Foundation, Inc.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 of the License.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
On Debian systems, the complete text of the GNU General Public License can be found in /usr/share/common-licenses/GPL-2 file.

hostname -- set the host name or show the host/domain name

Copyright (C) 1994-1997 Peter Tobias <tobias@et-inf.fho-emden.de>
                      2009-     Michael Meskes <meskes@debian.org>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

1.144 kerberos 1.18.2-8.el8

1.144.1 Available under license :

[ NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows. ]

Subject to the license set forth below, Sun Microsystems, Inc. donates the attached files to MIT for the purpose of including these modifications and additions in future versions of the Kerberos system.

Many of the files attached are subject to licenses issued by other entities, including OpenVision, MIT, and FundsXpress. See the individual files, and/or related Readme files, for these licenses.

In addition Sun requires that the license set forth below be incorporated into any future version of the Kerberos system which contains portions of the files attached. The following files must be listed, in the top level Readme file, as being provided subject to such license:

    cmd/krb5/iprop/iprop.x
    cmd/krb5/iprop/iprop_hdr.h
Sun's License is as follows:

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20271
Copyright (c) 2004 Sun Microsystems, Inc.

Permission is hereby granted, free of charge, to any person obtaining a

copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be included

in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright
===========

Copyright |copy| 1985-2020 by the Massachusetts Institute of

Technology and its contributors. All rights reserved.

See :ref:`mitK5license` for additional copyright and license

information.

Copyright (C) 1985-2020 by the Massachusetts Institute of Technology.

All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are

met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
WARNING: Retrieving the OpenVision Kerberos Administration system source code, as described below, indicates your acceptance of the following terms. If you do not agree to the following terms, do not retrieve the OpenVision Kerberos administration system.

You may freely use and distribute the Source Code and Object Code compiled from it, with or without modification, but this Source Code is provided to you "AS IS" EXCLUSIVE OF ANY WARRANTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED. IN NO EVENT WILL OPENVISION HAVE ANY LIABILITY FOR ANY LOST PROFITS, LOSS OF DATA OR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, OR FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS AGREEMENT, INCLUDING, WITHOUT LIMITATION, THOSE RESULTING FROM THE USE OF THE SOURCE CODE, OR THE FAILURE OF THE SOURCE CODE TO PERFORM, OR FOR ANY OTHER REASON.

OpenVision retains all copyrights in the donated Source Code. OpenVision also retains copyright to derivative works of the Source Code, whether created by OpenVision or by a third party. The OpenVision copyright notice must be preserved if derivative works are made based on the donated Source Code.

OpenVision Technologies, Inc. has donated this Kerberos Administration system to MIT for inclusion in the standard Kerberos 5 distribution. This donation underscores our commitment to continuing Kerberos technology development and our gratitude for the valuable work which has been performed by MIT and the Kerberos community.

======================================================================
Portions contributed by Matt Crawford "crawdad@fnal.gov" were work performed at Fermi National Accelerator Laboratory, which is operated by Universities Research Association, Inc., under contract DE-AC02-76CHO3000 with the U.S. Department of Energy.

======================================================================

Portions of "src/lib/crypto" have the following copyright:

Copyright (C) 1998 by the FundsXpress, INC.

All rights reserved.

Export of this software from the United States of America may require a specific license from the United States Government.
It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of FundsXpress not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. FundsXpress makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

======================================================================

The implementation of the AES encryption algorithm in "src/lib/crypto/builtin/aes" has the following copyright:

Copyright (C) 2001, Dr Brian Gladman "brg@gladman.uk.net", Worcester, UK.
All rights reserved.

LICENSE TERMS

The free distribution and use of this software in both source and binary form is allowed (with or without changes) provided that:

1. distributions of this source code include the above copyright notice, this list of conditions and the following disclaimer;

2. distributions in binary form include the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other associated materials;

3. the copyright holder's name is not used to endorse products built using this software without specific written permission.

DISCLAIMER

This software is provided 'as is' with no explicit or implied warranties in respect of any properties, including, but not limited to, correctness and fitness for purpose.
Portions contributed by Red Hat, including the pre-authentication plug-in framework and the NSS crypto implementation, contain the following copyright:

Copyright (C) 2006 Red Hat, Inc.  
Portions copyright (C) 2006 Massachusetts Institute of Technology  
All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Red Hat, Inc., nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The bundled verto source code is subject to the following license:

Copyright 2011 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================================================================

The MS-KKDCP client implementation has the following copyright:

Copyright 2013,2014 Red Hat, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
```
Kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

are subject to the following license:

Copyright (C) 2004 Sun Microsystems, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================================================================

Kerberos V5 includes documentation and software developed at the University of California at Berkeley, which includes this copyright notice:

Copyright (C) 1983 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following
2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. Neither the name of the University nor the names of its
   contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Portions contributed by Novell, Inc., including the LDAP database
backend, are subject to the following license:

Copyright (C) 2004-2005, Novell, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The copyright holder's name is not used to endorse or promote
  products derived from this software without specific prior
  written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

======================================================================

Portions funded by Sandia National Laboratory and developed by the University of Michigan's Center for Information Technology Integration, including the PKINIT implementation, are subject to the following license:

COPYRIGHT (C) 2006-2007
THE REGENTS OF THE UNIVERSITY OF MICHIGAN
ALL RIGHTS RESERVED

Permission is granted to use, copy, create derivative works and redistribute this software and such derivative works for any purpose, so long as the name of The University of Michigan is not used in any advertising or publicity pertaining to the use of distribution of this software without specific, written prior authorization. If the above copyright notice or any other identification of the University of Michigan is included in any copy of any portion of this software, then the disclaimer below must also be included.

THIS SOFTWARE IS PROVIDED AS IS, WITHOUT REPRESENTATION FROM THE UNIVERSITY OF MICHIGAN AS TO ITS FITNESS FOR ANY PURPOSE, AND WITHOUT WARRANTY BY THE UNIVERSITY OF MICHIGAN OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REGENTS OF THE UNIVERSITY OF MICHIGAN SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WITH RESPECT TO ANY CLAIM ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE SOFTWARE, EVEN IF IT HAS BEEN OR IS HEREAFTER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

======================================================================

The pkcs11.h file included in the PKINIT code has the following
license:

Copyright 2006 g10 Code GmbH
Copyright 2006 Andreas Jellinghaus

This file is free software; as a special exception the author gives
unlimited permission to copy and/or distribute it, with or without
modifications, as long as this notice is preserved.

This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even
the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE.

======================================================================
Portions contributed by Apple Inc. are subject to the following
license:

Copyright 2004-2008 Apple Inc. All Rights Reserved.

Export of this software from the United States of America may
require a specific license from the United States Government.
It is the responsibility of any person or organization
contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and
distribute this software and its documentation for any purpose and
without fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation, and that
the name of Apple Inc. not be used in advertising or publicity
pertaining to distribution of the software without specific,
written prior permission. Apple Inc. makes no representations
about the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

======================================================================

The implementations of UTF-8 string handling in src/util/support and
src/lib/krb5/unicode are subject to the following copyright and
permission notice:

The OpenLDAP Public License
Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source form must retain copyright statements and notices,

2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.
Marked test programs in src/lib/krb5/krb have the following copyright:

        Copyright (C) 2006 Kungliga Tekniska Hgskola
        (Royal Institute of Technology, Stockholm, Sweden).
        All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.

2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. Neither the name of KTH nor the names of its contributors may
be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The KCM Mach RPC definition file used on macOS has the following
copyright:

        Copyright (C) 2009 Kungliga Tekniska Hgskola
        (Royal Institute of Technology, Stockholm, Sweden).
        All rights reserved.
Portions Copyright (C) 2009 Apple Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

======================================================================

Portions of the RPC implementation in src/lib/rpc and src/include/gssrpc have the following copyright and permission notice:

Copyright (C) 2010, Oracle America, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. Neither the name of the "Oracle America, Inc." nor the names
of its contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRUCT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

======================================================================

Copyright (C) 2006,2007,2009 NTT (Nippon Telegraph and Telephone
Corporation). All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer as the first lines of this file unmodified.

2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

THIS SOFTWARE IS PROVIDED BY NTT "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL NTT BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Cygnus Support makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

======================================================================

Copyright (C) 2006 Secure Endpoints Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================================================================

Portions of the implementation of the Fortuna-like PRNG are subject to the following notice:

Copyright (C) 2005 Marko Kreen
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

   THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS"
   AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
   TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
   PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR
   CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
   USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
   OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
   OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
   SUCH DAMAGE.

Copyright (C) 1994 by the University of Southern California

   EXPORT OF THIS SOFTWARE from the United States of America may
   require a specific license from the United States Government. It
   is the responsibility of any person or organization
   contemplating export to obtain such a license before exporting.

   WITHIN THAT CONSTRAINT, permission to copy, modify, and distribute
   this software and its documentation in source and binary forms is
   hereby granted, provided that any documentation or other materials
   related to such distribution or use acknowledge that the software
   was developed by the University of Southern California.

   DISCLAIMER OF WARRANTY. THIS SOFTWARE IS PROVIDED "AS IS". The
   University of Southern California MAKES NO REPRESENTATIONS OR
   WARRANTIES, EXPRESS OR IMPLIED. By way of example, but not
   limitation, the University of Southern California MAKES NO
   REPRESENTATIONS OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY
   PARTICULAR PURPOSE. The University of Southern California shall not
   be held liable for any liability nor for any direct, indirect, or
   consequential damages with respect to any claim by the user or
   distributor of the ksu software.

======================================================================

Copyright (C) 1995
The President and Fellows of Harvard University

This code is derived from software contributed to Harvard by Jeremy
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

   This product includes software developed by the University of California, Berkeley and its contributors.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=================================================================================

Copyright (C) 2008 by the Massachusetts Institute of Technology.
Copyright 1995 by Richard P. Basch. All Rights Reserved.
Copyright 1995 by Lehman Brothers, Inc. All Rights Reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.
WITHIN THAT CONSTRAINT, permission to use, copy, modify, and
distribute this software and its documentation for any purpose and
without fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation, and that
the name of Richard P. Basch, Lehman Brothers and M.I.T. not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission. Richard P.
Basch, Lehman Brothers and M.I.T. make no representations about the
suitability of this software for any purpose. It is provided "as
is" without express or implied warranty.

======================================================================
The following notice applies to "src/lib/krb5/krb/strptime.c" and
"src/include/k5-queue.h".

Copyright (C) 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

This code was contributed to The NetBSD Foundation by Klaus Klein.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.

2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. All advertising materials mentioning features or use of this
software must display the following acknowledgement:

    This product includes software developed by the NetBSD
    Foundation, Inc. and its contributors.

4. Neither the name of The NetBSD Foundation nor the names of
its contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

======================================================================

The following notice applies to Unicode library files in "src/lib/krb5/unicode":

Copyright 1997, 1998, 1999 Computing Research Labs,
New Mexico State University

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================================================================

The following notice applies to "src/util/support/strlcpy.c":

Copyright (C) 1998 Todd C. Miller "Todd.Miller@courtesan.com"

Permission to use, copy, modify, and distribute this software for
any purpose with or without fee is hereby granted, provided that
the above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

======================================================================

The following notice applies to "src/util/profile/argv_parse.c" and
"src/util/profile/argv_parse.h":

Copyright 1999 by Theodore Ts'o.

Permission to use, copy, modify, and distribute this software for
any purpose with or without fee is hereby granted, provided that
the above copyright notice and this permission notice appear in all
copies.  THE SOFTWARE IS PROVIDED "AS IS" AND THEODORE TS'O (THE
AUTHOR) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN
NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.  (Isn't
it sick that the U.S. culture of lawsuit-happy lawyers requires
this kind of disclaimer?)

======================================================================

The following notice applies to SWIG-generated code in
"src/util/profile/profile_tcl.c":

Copyright (C) 1999-2000, The University of Chicago

This file may be freely redistributed without license or fee
provided this copyright message remains intact.

======================================================================

The following notice applies to portions of "src/lib/rpc" and
"src/include/gssrpc":

======================================================================
License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD4 Message Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

======================================================================

Implementations of the MD5 algorithm are subject to the following notice:

Copyright (C) 1990, RSA Data Security, Inc. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

======================================================================

The following notice applies to "src/lib/crypto/crypto_tests/t_mddriver.c":

Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All rights reserved.

RSA Data Security, Inc. makes no representations concerning either
the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

======================================================================

Portions of "src/lib/krb5" are subject to the following notice:

Copyright (C) 1994 CyberSAFE Corporation.
All Rights Reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Furthermore if you modify this software you must label your software as modified software and not distribute it in such a fashion that it might be confused with the original M.I.T. software. Neither M.I.T., the Open Computing Security Group, nor CyberSAFE Corporation make any representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

======================================================================

Portions contributed by PADL Software are subject to the following license:

Copyright (c) 2011, PADL Software Pty Ltd. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above
The bundled libev source code is subject to the following license:

All files in libev are Copyright (C)2007,2008,2009 Marc Alexander Lehmann.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Alternatively, the contents of this package may be used under the terms of the GNU General Public License ("GPL") version 2 or any later version, in which case the provisions of the GPL are applicable instead of the above. If you wish to allow the use of your version of this package only under the terms of the GPL and not to allow others to use your version of this file under the BSD license, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL in this and the other files of this package. If you do not delete the provisions above, a recipient may use your version of this file under either the BSD or the GPL.

======================================================================

Files copied from the Intel AESNI Sample Library are subject to the following license:

Copyright (C) 2010, Intel Corporation All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

======================================================================

The following notice applies to "src/ccapi/common/win/OldCC/autolock.hxx":

Copyright (C) 1998 by Danilo Almeida. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

======================================================================

The following notice applies to portions of "src/plugins/preauth/spake/edwards25519.c" and "src/plugins/preauth/spake/edwards25519_tables.h":

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20299
The MIT License (MIT)

Copyright (c) 2015-2016 the fiat-crypto authors (see the AUTHORS file).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================================================================

The following notice applies to portions of "src/plugins/preauth/spake/edwards25519.c":

Copyright (c) 2015-2016, Google Inc.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

.. _mitK5license:

MIT Kerberos License information
1.145 gssproxy 0.8.0-19.el8
1.145.1 Available under license:

GSS-PROXY

Copyright (C) 2011 Red Hat, Inc.
Copyright (C) 2011-2015 the GSS-PROXY contributors

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

1.146 dnf 4.4.2-11.el8
1.146.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.147 hwdata 0.314-8.8.el8
1.147.1 Available under license:
This data is licenced under 2 different licenses

1) GNU General Public License, version 2 or later
2) XFree86 1.0 license

This data can be used freely under either license.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

   Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

   In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.148 lksctp-tools 1.0.18 3.el8
1.148.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether
gatis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License: they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

   This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.149 adcli 0.8.2-9.el8
1.149.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safer to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.150 xorg-x11-font-utils 7.5 40.el8

1.150.1 Available under license:

Copyright (c) 2002-2008 by Juliusz Chroboczek

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 1993, 1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

-----------------------------------------------------------------------------

Copyright 2005 Red Hat, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Red Hat not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Red Hat makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

RED HAT DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL RED HAT BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2002-2008 by Juliusz Chroboczek

Permission is hereby granted, free of charge, to any person obtaining a copy

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20344
of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 1991, 1993, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright (c) 2009, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------

Copyright (c) 2003 The NetBSD Foundation, Inc.
All rights reserved.

This code is derived from software contributed to The NetBSD Foundation by Ben Collver <collver1@attbi.com>.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the
THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------

Copyright (c) 2006 Martin Husemann.
Copyright (c) 2007 Joerg Sonnenberger.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------

Copyright 2005 Red Hat, Inc

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the copyright holders.

------------------------------------------------------------------------
Copyright (c) 1991-2011 Unicode, Inc. All Rights reserved.

This file is provided as-is by Unicode, Inc. (The Unicode Consortium). No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been provided on optical media by Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.

Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.

1.151 gnupg 2.2.20 2.el8
1.151.1 Available under license:
LICENSE TERMS

Copyright (c) 2000, Dimitrios Souflis
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are
Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Dimitrios Souflis nor the names of the contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Here is a list with collected copyright notices. For details see the description of each individual package. [Compiled by wk 2017-11-07]

GNUPG is

Copyright (C) 1997-2017 Werner Koch
Copyright (C) 1994-2017 Free Software Foundation, Inc.
Copyright (C) 2003-2017 g10 Code GmbH
Copyright (C) 2002 Klarlvdalens Datakonsult AB
Copyright (C) 1995-1997, 2000-2007 Ulrich Drepper <drepper@gnu.ai.mit.edu>
Copyright (C) 1994 X Consortium
Copyright (C) 1998 by The Internet Society.
Copyright (C) 1998-2004 The OpenLDAP Foundation
Copyright (C) 1998-2004 Kurt D. Zeilenga.
Copyright (C) 1998-2004 Net Boolean Incorporated.
Copyright (C) 2001-2004 IBM Corporation.
Copyright (C) 1999-2003 Howard Y.H. Chu.
Copyright (C) 1999-2003 Symas Corporation.
Copyright (C) 1998-2003 Hallvard B. Furuseth.
Copyright (C) 1992-1996 Regents of the University of Michigan.
Copyright (C) 2000 Dimitrios Souflis
Copyright (C) 2008,2009,2010,2012-2016 William Ahern
GnuPG is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

GnuPG is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, see <https://www.gnu.org/licenses/>.

LIBGCRYPT is

Copyright (C) 1989,1991-2017 Free Software Foundation, Inc.
Copyright (C) 1994 X Consortium
Copyright (C) 1996 L. Peter Deutsch
Copyright (C) 1997 Werner Koch
Copyright (C) 1998 The Internet Society
Copyright (C) 1996-1999 Peter Gutmann, Paul Kendall, and Chris Wedgwood
Copyright (C) 1996-2006 Peter Gutmann, Matt Thomlinson and Blake Coverett
Copyright (C) 2003 Nikos Mavroyanopoulos
Copyright (C) 2006-2007 NTT (Nippon Telegraph and Telephone Corporation)
Copyright (C) 2012-2017 g10 Code GmbH
Copyright (C) 2012 Simon Josefsson, Niels Miller
Copyright (c) 2012 Intel Corporation
Copyright (C) 2013 Christian Grothoff
Copyright (C) 2013-2017 Jussi Kivilinna
Copyright (C) 2013-2014 Dmitry Eremin-Solenikov
Copyright (C) 2014 Stephan Mueller
Copyright (C) 2017 Bundesamt fr Sicherheit in der Informationstechnik

Libgcrypt is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

Libgcrypt is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program; if not, see <http://www.gnu.org/licenses/>.
LIBGPG-ERROR is


libgpg-error is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

libgpg-error is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program; if not, see <http://www.gnu.org/licenses/>.

LIBASSUAN is

Copyright (C) 1992-2013 Free Software Foundation, Inc.
Copyright (C) 1994 X Consortium
Copyright (C) 2000 Werner Koch (dd9jn)
Copyright (C) 2001-2016 g10 Code GmbH
Copyright (C) 2004 Simon Josefsson

Assuan is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

Assuan is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program; if not, see <http://www.gnu.org/licenses/>.

LIBKSBA is

Copyright (C) 2000, 2001 Fabio Fiorina

The library and the header files are distributed under the following
terms (LGPLv3+/GPLv2+):

KSBA is free software; you can redistribute it and/or modify it under the terms of either

- the GNU Lesser General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

or

- the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

or both in parallel, as here.

KSBA is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

The other parts (e.g. manual, build system, tests) are distributed under the following terms (GPLv3):

KSBA is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

KSBA is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

NPTh is

Copyright (C) 2011, 2012, 2014, 2015, 2017 g10 Code GmbH

nPTh is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

nPTh is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See
the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program; if not, see <https://www.gnu.org/licenses/>.

NTBTLS is

Copyright (C) 2006-2014 Brainspark B.V.
Copyright (C) 2014-2017 g10 Code GmbH

NTBTLS is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

NTBTLS is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, see <http://www.gnu.org/licenses/>.

PINENTRY is

Copyright (C) 1999 Robert Bihlmeyer <robbe@orcus.priv.at>
Copyright (C) 2002, 2008 Klarlvdalens Datakonsult AB (KDAB)
Copyright (C) 2004 by Albrecht Dre <albrecht.dre@arcor.de>
Copyright 2007 Ingo Klicker
Copyright (C) 2014 Serge Voilokov
Copyright (C) 2015 Daiki Ueno
Copyright (C) 2015 Daniel Kahn Gillmor <dkg@fifthhorseman.net>
Copyright 2016 Intevation GmbH

PINENTRY is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

PINENTRY is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, see <https://www.gnu.org/licenses/>.

GPGME is

Copyright (C) 1991-2013 Free Software Foundation, Inc.
Copyright (C) 2000-2001 Werner Koch
Copyright (C) 2001-2017 g10 Code GmbH
Copyright (C) 2002 Klarlvdalens Datakonsult AB
Copyright (C) 2004-2008 Igor Belyi
Copyright (C) 2002 John Goerzen
Copyright (C) 2014, 2015 Martin Albrecht
Copyright (C) 2015 Ben McGinnes
Copyright (C) 2015-2016 Bundesamt fr Sicherheit in der Informationstechnik
Copyright (C) 2016 Intevation GmbH

GPGME is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

GPGME is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program; if not, see <http://www.gnu.org/licenses/>.

NSIS is

Copyright 1999-2009 Nullsoft and Contributors
Copyright 2002-2008 Amir Szekely
Copyright 2003 Ramon

This license applies to everything in the NSIS package, except where otherwise noted.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must
not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

The user interface used with the installer is

Copyright 2002-2009 Joost Verburg

[It is distributed along with NSIS and the same conditions as stated above apply]

TinySCHEME is part of the GnuPG package and is

Copyright (c) 2000, Dimitrios Souflis
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Dimitrios Souflis nor the names of the contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
LIBDNS is part of the GnuPG package and is

Copyright (c) 2008, 2009, 2010, 2012-2016 William Ahern

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ZLIB is

(C) 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly    Mark Adler
BZIP2 is

This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

SQLITE has

been put into the public-domain by its author D. Richard Hipp:

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.  
May you share freely, never taking more than you give.  
[Note that only a few files are distributed under this license.]

Creative Commons Legal Code

CC0 1.0 Universal

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:
i. the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
ii. moral rights retained by the original author(s) and/or performer(s);
iii. publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
iv. rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
v. rights protecting the extraction, dissemination, use and reuse of data in a Work;
vi. database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
vii. other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was
applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

a. No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

b. Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

c. Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

d. Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

[Note that only a few files are distributed under this license.]

---

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change
free software—to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers’ and authors’ protection, the GPL clearly explains that there is no warranty for this free software. For both users’ and authors’ sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users’ freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.
The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.
Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.
11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.
If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
[Note that only a few files are distributed under this license.]

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".
The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

Copyright (c) 2008, 2009, 2010, 2012-2016 William Ahern
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

* TinySCHEME (tests/gpgscm/LICENSE.TinySCHEME)

Copyright (c) 2000, Dimitrios Souflis
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Dimitrios Souflis nor the names of the contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
1.152 Ishw B.02.19.2-5.el8

1.152.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program ‘Gnomovision’ (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.153 bc 1.07.1 5.el8
1.153.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on
those licensors and authors.

All other non-permissive additional terms are considered “further
restrictions” within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and 
finally terminates your license, and (b) permanently, if the copyright 
holder fails to notify you of the violation by some reasonable means 
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is 
reinstated permanently if the copyright holder notifies you of the 
violation by some reasonable means, this is the first time you have 
received notice of violation of this License (for any work) from that 
copyright holder, and you cure the violation prior to 30 days after 
your receipt of the notice.

Termination of your rights under this section does not terminate the 
licenses of parties who have received copies or rights from you under 
this License. If your rights have been terminated and not permanently 
reinstituted, you do not qualify to receive new licenses for the same 
material under section 10.


You are not required to accept this License in order to receive or 
run a copy of the Program. Ancillary propagation of a covered work 
occurring solely as a consequence of using peer-to-peer transmission 
to receive a copy likewise does not require acceptance. However, 
nothing other than this License grants you permission to propagate or 
modify any covered work. These actions infringe copyright if you do 
not accept this License. Therefore, by modifying or propagating a 
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically 
receives a license from the original licensors, to run, modify and 
propagate that work, subject to this License. You are not responsible 
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an 
organization, or substantially all assets of one, or subdividing an 
organization, or merging organizations. If propagation of a covered 
work results from an entity transaction, each party to that 
transaction who receives a copy of the work also receives whatever 
licenses to the work the party’s predecessor in interest had or could 
give under the previous paragraph, plus a right to possession of the 
Corresponding Source of the work from the predecessor in interest, if 
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the 
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c` for details.

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".
The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.154 fileutils 1.5.0
1.154.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ~`AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.155 source-highlight 3.1.8-17.el8
1.155.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.
"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that oblige you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.
Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.
Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lGPL.html>.

1.156 iconv 2.28

1.156.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.
You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on
those licensors and authors.

All other non-permissive additional terms are considered “further
restrictions” within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.
Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor’s "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.
If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs...
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.157 gpm 1.20.7-17.el8
1.157.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.158 curl 7.61.1-18.el8
1.158.1 Available under license:

License Mixing

Libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL
(May be used for SSL/TLS support) Uses the GPL license or a proprietary license. If this is a problem for you, consider using another TLS library.

## NSS

(May be used for SSL/TLS support) Is covered by the [MPL](https://www.mozilla.org/MPL/) license, the GPL license and the LGPL license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

## axTLS

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

## mbedTLS

(May be used for SSL/TLS support) Uses the [Apache 2.0 license](https://opensource.org/licenses/Apache-2.0) or the GPL license. You may choose to license the code under Apache 2.0 terms or GPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

## BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any
other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

## libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2018, Daniel Stenberg, <daniel@haxx.se>, and many contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

### 1.159 python-setuptools 39.2.0 6.el8

#### 1.159.1 Available under license:
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### 1.160 xkeyboard-config 2.28 1.el8

#### 1.160.1 Available under license:
Copyright 1996 by Joseph Moss
Copyright (C) 2002-2007 Free Software Foundation, Inc.
Copyright (C) Dmitry Golubev <lastguru@mail.ru>, 2003-2004
Copyright (C) 2004, Gregory Mokhin <mokhin@bog.msu.ru>
Copyright (C) 2006 Erdal Ronah

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the copyright holder(s) not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. The copyright holder(s) makes no
representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THE COPYRIGHT HOLDER(S) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1996 Digital Equipment Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the Digital Equipment Corporation shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Digital Equipment Corporation.

Copyright 1996, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright 2004-2005 Sun Microsystems, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 1996 by Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Silicon Graphics not be used in advertising or publicity pertaining to distribution of the software without specific prior written permission.
Silicon Graphics makes no representation about the suitability of this software for any purpose. It is provided "as is" without any express or implied warranty.

SILICON GRAPHICS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1996 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

Copyright (C) 2004, 2006 var Arnfjr Bjarmason <avarab@gmail.com>

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

Copyright (C) 1999, 2000 by Anton Zinoviev <anton@lml.bas.bg>

This software may be used, modified, copied, distributed, and sold, in both source and binary form provided that the above copyright and these terms are retained. Under no circumstances is the author responsible for the proper functioning of this software, nor does the author assume any responsibility for damages incurred with its use.

Permission is granted to anyone to use, distribute and modify this file in any way, provided that the above copyright notice is left intact and the author of the modification summarizes the changes in this header.

This file is distributed without any expressed or implied warranty.

1.161 centos-repos 8 2.el8
1.161.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>  

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.162 guile 2.0.14-7.el8
1.162.1 Available under license:

Guile is covered under the terms of the GNU Lesser General Public License, version 3 or later. See COPYING.LESSER and COPYING.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims...
owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lGPL.html>.

@c The GNU Free Documentation License.
@c center Version 1.3, 3 November 2008

@c This file is intended to be included within another document, hence no sectioning command or @node.

copyright
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc. @uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
display

enumerate 0

item

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The `Document`, below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not
allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed,
as Front-Cover Texts or Back-Cover Texts, in the notice that says that
the Document is released under this License. A Front-Cover Text may
be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy,
represented in a format whose specification is available to the
general public, that is suitable for revising the document
straightforwardly with generic text editors or (for images composed of
pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain
@sc{ascii} without markup, TeXinfo input format, La@TeX{} input
format, @acronym{SGML} or @acronym{XML} using a publicly available
@acronym{DTD}, and standard-conforming simple @acronym{HTML},
PostScript or @acronym{PDF} designed for human modification. Examples
of transparent image formats include @acronym{PNG}, @acronym{XCF} and
@acronym{JPEG}. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, @acronym{SGML} or
@acronym{XML} for which the @acronym{DTD} and/or processing tools are
not generally available, and the machine-generated @acronym{HTML},
PostScript or @acronym{PDF} produced by some word processors for
output purposes only.

The "Title Page" means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, "Title Page" means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies
of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as "Acknowledgements",
"Dedications", "Endorsements", or "History"). To "Preserve the Title"
of such a section when you modify the Document means that it remains a
section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties; any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
dition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS
You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

- List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

- State on the Title page the name of the publisher of the Modified Version, as the publisher.

- Preserve all the copyright notices of the Document.

- Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

- Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

- Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

- Include an unaltered copy of this License.

- Preserve the section Entitled "History", Preserve its Title, and add
to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item
Do not retile any existing section to be Entitled ``Endorsements'' or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains nothing but endorsements of your Modified Version by various
parties—e.g., statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

**COMBINING DOCUMENTS**

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item

**COLLECTIONS OF DOCUMENTS**

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",
"Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See \url{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (C) @var{year} @var{your name}.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the `\` with @dots{} Texts." line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and “any
later version”, you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
    Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.
As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy’s public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.163 pycparser 2.20
1.163.1 Available under license :
pycparser -- A C parser in Python

Copyright (c) 2008-2017, Eli Bendersky
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Eli Bendersky nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.164 popt 1.18-1.el8
1.164.1 Available under license :

Copyright (c) 1998 Red Hat Software

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

1.165 perl-unicode-normalize

1.165.1 Available under license:

Terms of Perl itself

a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version, or
b) the "Artistic License"

-----------------------------------------------
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term “modification”.) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:
- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.

- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.

- "You" is you, if you're thinking about copying or distributing this Package.

- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

   The End
1.166.1 Available under license:
Copyright 1989, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright 1989 by Hewlett-Packard Company, Palo Alto, California.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Hewlett-Packard not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

HEWLETT-PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL HEWLETT-PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2008 Peter Hutterer

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the author shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the author.

Copyright 2009 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.167 selinux 2.9-1.el8

1.167.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes withABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Copyright (c) 2009-2012 Eric Haszlakiewicz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------------------------

Copyright (c) 2004, 2005 Metaparadigm Pte Ltd

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
1.169 crypto-policies 20210209-
1.gitbfb6bed.el8_3
1.169.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.170 tbb 2018.2-9.el8

1.170.1 Available under license :
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.171 scanf 1.0.0
1.171.1 Available under license:
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.172 passwd 0.80 3.el8
1.172.1 Available under license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, and the entire permission notice in its entirety,
including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

ALTERNATIVELY, this product may be distributed under the terms of
the GNU Public License, in which case the provisions of the GPL are
required INSTEAD OF the above restrictions. (This clause is
necessary due to a potential bad interaction between the GPL and
the restrictions contained in a BSD-style copyright.)
THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The full text of the GNU GENERAL PUBLIC LICENSE Version 2 is included below.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.173 nfs-utils 2.3.3-41.el8_4.2
1.173.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Copyright (c) 2004 The Regents of the University of Michigan.
All rights reserved.

Marius Aamodt Eriksen <marius@umich.edu>
J. Bruce Fields <bfields@umich.edu>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.174 openssh 8.0p1-6.el8_4.2
1.174.1 Available under license:

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)
  * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
  *                        All rights reserved
  *
  * As far as I am concerned, the code I have written for this software
  * can be used freely for any purpose. Any derived versions of this
  * software must be clearly marked as such, and if the derived work is
  * incompatible with the protocol description in the RFC file, it must be
  * called by a name other than "ssh" or "Secure Shell".

  [Tatu continues]
  * However, I am not implying to give any licenses to any patents or
  * copyrights held by third parties, and the software includes parts that
  * are not under my direct control. As far as I know, all included
  * source code is used in accordance with the relevant license agreements
  * and can be used freely for any purpose (the GNU license being the most
  * restrictive); see below for details.
However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
2) The 32-bit CRC compensation attack detector in deattack.c was contributed by CORE SDI S.A. under a BSD-style license.

* Cryptographic attack detector for ssh - source code
* Copyright (c) 1998 CORE SDI S.A., Buenos Aires, Argentina.
* All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that this copyright notice is retained.
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES ARE DISCLAIMED. IN NO EVENT SHALL CORE SDI S.A. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR MISUSE OF THIS SOFTWARE.
* Ariel Futoransky <futo@core-sdi.com>
* <http://www.core-sdi.com>

3) ssh-keyscan was contributed by David Mazieres under a BSD-style license.

* Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
* Modification and redistribution in source and binary forms is permitted provided that due credit is given to the author and the OpenBSD project by leaving this copyright notice intact.

4) The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
* This code is hereby placed in the public domain.
* THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
* EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

5) One component of the ssh source code is under a 3-clause BSD license, held by the University of California, since we pulled these parts from original Berkeley code.

* The Regents of the University of California. All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

6) Remaining components of the software are provided under a standard 2-term BSD licence with the following names as copyright holders:
Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Niels Nordman
Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
*
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

"THE BEER-WARE LICENSE" (Revision 42):
*p@phk@login.dknet.dk> wrote this file. As long as you retain this
notice you can do whatever you want with this stuff. If we meet
some day, and you think this stuff is worth it, you can buy me a
beer in return. Poul-Henning Kamp

b) snprintf replacement

* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code
in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following
copyright holders:

Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following copyright holders:

Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

* The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
* distribute, distribute with modifications, sublicense, and/or sell   *
  * copies of the Software, and to permit persons to whom the Software is  *
  * furnished to do so, subject to the following conditions:             *
  *                                                                       *
  * The above copyright notice and this permission notice shall be included *
  * in all copies or substantial portions of the Software.                *
  *                                                                       *
  * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
  * OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF           *
  * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
  * IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
  * DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
  * OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR  *
  * THE USE OR OTHER DEALINGS IN THE SOFTWARE.                           *
  *
  * Except as contained in this notice, the name(s) of the above copyright *
  * holders shall not be used in advertising or otherwise to promote the  *
  * sale, use or other dealings in this Software without prior written     *
  * authorization.                                                        *
  ***********************************************************************

-------
$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $

* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
* dfberger@users.noreply.github.com

/* ==================================================================== *
* Copyright (c) 1998-2001 The OpenSSL Project. All rights reserved.  *
*                                                                       *
* Redistribution and use in source and binary forms, with or without *
* modification, are permitted provided that the following conditions *
* are met:                                                            *
* 1. Redistributions of source code must retain the above copyright *
*    notice, this list of conditions and the following disclaimer.    *
* 2. Redistributions in binary form must reproduce the above copyright *
*    notice, this list of conditions and the following disclaimer in *
*    the documentation and/or other materials provided with the       *
*    distribution.                                                     *
* 3. All advertising materials mentioning features or use of this     *
*    software must display the following acknowledgment:              *
*    "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)

* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
endorse or promote products derived from this software without
prior written permission. For written permission, please contact
openssl-core@openssl.org.

* 5. Products derived from this software may not be called "OpenSSL"
nor may "OpenSSL" appear in their names without prior written
permission of the OpenSSL Project.

* 6. Redistributions of any form whatsoever must retain the following
acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit (http://www.openssl.org/"

* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

*===================================================================

* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License
-----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*    Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the routines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
This file is part of the OpenSSH software.

The licences which components of this software fall under are as follows. First, we will summarize and say that all components are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1) * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
   * All rights reserved
   *
   * As far as I am concerned, the code I have written for this software
   * can be used freely for any purpose. Any derived versions of this
   * software must be clearly marked as such, and if the derived work is
   * incompatible with the protocol description in the RFC file, it must be
   * called by a name other than "ssh" or "Secure Shell".

   [Tatu continues]
   * However, I am not implying to give any licenses to any patents or
   * copyrights held by third parties, and the software includes parts that
   * are not under my direct control. As far as I know, all included
   * source code is used in accordance with the relevant license agreements
   * and can be used freely for any purpose (the GNU license being the most
   * restrictive); see below for details.

   [However, none of that term is relevant at this point in time. All of
   these restrictively licenced software components which he talks about
   have been removed from OpenSSH, i.e.,

   - RSA is no longer included, found in the OpenSSL library
   - IDEA is no longer included, its use is deprecated
   - DES is now external, in the OpenSSL library
   - GMP is no longer used, and instead we call BN code from OpenSSL
   - Zlib is now external, in a library
   - The make-ssh-known-hosts script is no longer included
   - TSS has been removed
   - MD5 is now external, in the OpenSSL library
   - RC4 support has been replaced with ARC4 support from OpenSSL
   - Blowfish is now external, in the OpenSSL library

   [The licence continues]

Note that any information and cryptographic algorithms used in this
software are publicly available on the Internet and at any major
bookstore, scientific library, and patent office worldwide. More
information can be found e.g. at "http://www.cs.hut.fi/crypto".
The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3) ssh-keyscan was contributed by David Mazieres under a BSD-style license.

* Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
* * Modification and redistribution in source and binary forms is permitted provided that due credit is given to the author and the OpenBSD project by leaving this copyright notice intact.

4) The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

* @version 3.0 (December 2000)
* * Optimised ANSI C code for the Rijndael cipher (now AES)
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
* 
* This code is hereby placed in the public domain.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
* EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

5) One component of the ssh source code is under a 3-clause BSD license,
   held by the University of California, since we pulled these parts from
   original Berkeley code.

*   The Regents of the University of California. All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
6) Remaining components of the software are provided under a standard 2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions...
* are met:
* 1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

8) Portable OpenSSH contains the following additional licenses:

   a) md5crypt.c, md5crypt.h

   "THE BEER-WARE LICENSE" (Revision 42):
   * <phk@login.dknet.dk> wrote this file. As long as you retain this
   * notice you can do whatever you want with this stuff. If we meet
   * some day, and you think this stuff is worth it, you can buy me a
   * beer in return. Poul-Henning Kamp

   b) snprintf replacement

   * Copyright Patrick Powell 1995
   * This code is based on code written by Patrick Powell
   * (papowell@astart.com) It may be used for any purpose as long as this
   * notice remains intact on all source code distributions

   c) Compatibility code (openbsd-compat)

   Apart from the previously mentioned licenses, various pieces of code
   in the openbsd-compat/ subdirectory are licensed as follows:

   Some code is licensed under a 3-term BSD license, to the following
   copyright holders:

   Todd C. Miller
   Theo de Raadt
   Damien Miller
   Eric P. Allman
   The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
  * modification, are permitted provided that the following conditions
  * are met:
  * 1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
  * 2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  * 3. Neither the name of the University nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.
  *
  * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
  * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
  * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  * SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
  * purpose with or without fee is hereby granted, provided that the above
  * copyright notice and this permission notice appear in all copies.
  *
  * THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
  * WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
  * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
  * FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
  * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
  * OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
  * CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:
* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the       *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions:             *
* *
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software.            *
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF       *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE.                        *
* *
* Except as contained in this notice, the name(s) of the above copyright *
* holders shall not be used in advertising or otherwise to promote the *
* sale, use or other dealings in this Software without prior written *
* authorization.                                                *
**************************************************************************/

-----
$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $
This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
Wed, 13 Jan 2010 01:08:49 +0300.

It was downloaded from http://pamsshagentauth.sf.net/

Copyright:

Copyright (C) 2008 Jamie Beverly

License:

Copyright (c) 2008, Jamie Beverly.  
All rights reserved.  

Redistribution and use in source and binary forms, with or without modification, are 
permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY Jamie Beverly ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL Jamie Beverly OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Jamie Beverly.

The Debian packaging is copyright 2010, Jamie Beverly <soupboy@sourceforge.net> and is licensed under the GPL, see `/usr/share/common-licenses/GPL-2`.

/*
 * All distribution files are
 * Copyright (c) 2010 Jamie Beverly. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
1.175 xfsprogs 5.0.0-8.el8
1.175.1 Available under license:

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from https://www.kernel.org/pub/linux/utils/fs/xfs/xfsprogs/

Copyright:

Copyright (c) 2000-2002 Silicon Graphics, Inc. All Rights Reserved.

You are free to distribute this software under the terms of the GNU General Public License.
On Debian systems, the complete text of the GNU General Public License can be found in /usr/share/common-licenses/GPL file.

The library named "libhandle" and the headers in "xfslibs-dev" are licensed under Version 2.1 of the GNU Lesser General Public License. On Debian systems, refer to /usr/share/common-licenses/LGPL-2.1 for the complete text of the GNU Lesser General Public License.

1.176 tzdata 2021a-1.el8
1.176.1 Available under license:

Unless specified below, all files in the tz code and data (including this LICENSE file) are in the public domain.

If the files date.c, newstrftime.3, and strftime.c are present, they contain material derived from BSD and use the BSD 3-clause license.

1.177 net-tools 2.0-0.52.20160912git.el8
1.177.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
1.1 Definition:

1.1.1 “Contributor”
means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. “Modifications”
means any of the following:
any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License. For legal entities, “You” includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, “control” means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients’ rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients’ rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party’s negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.
You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined by the Mozilla Public License, v. 2.0.

1.179 binutils 2.30
1.179.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

Copyright (C) 2012-2018 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.
As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)


You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work’s users, your or third parties’ legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.
A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.
A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
c hence no sectioning command or @node.

display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
display

enumerate 0
item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
 principally for works whose purpose is instruction or reference.
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
\verbatim{ascii} without markup, Texinfo input format, \LaTeX{} input
format, \texttt{SGML} or \texttt{XML} using a publicly available
\texttt{DTD}, and standard-conforming simple \texttt{HTML},
PostScript or \texttt{PDF} designed for human modification. Examples
of transparent image formats include \texttt{PNG}, \texttt{XCF} and
\texttt{JPG}. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, \texttt{SGML} or
\texttt{XML} for which the \texttt{DTD} and/or processing tools are
not generally available, and the machine-generated \texttt{HTML},
PostScript or \texttt{PDF} produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The `publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties; any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

\item \texttt{VERBATIM COPYING}
You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.
@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties—for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any
World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A
public wiki that anybody can edit is an example of such a server. A
``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the
site means any set of copyrightable works thus published on the MMC
site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.180 hd-parm 9.54-3.el8
1.180.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

BSD-Style Open Source License:

You may freely use, modify, and redistribute the hdparm program,
as either binary or source, or both.
The only condition is that my name and copyright notice remain in the source code as-is.

The apt.c file is  Copyright (c) 2009 Jan Friesse <jfriesse@gmail.com>. You may use/distribute apt.c freely, under the terms of either (your choice) the GNU General Public License version 2, or a BSD style license.

Mark Lord (mlord@pobox.com)
This package was debianized by Christopher L Cheney <ccheney@debian.org> on Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from http://www.ibiblio.org/pub/Linux/system/hardware

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

/* hdparm.c - Command line interface to get/set hard disk parameters */
/* - by Mark Lord 1994-2008 -- freely distributable */

You are free to distribute this software under the terms of the BSD License. On Debian systems, the complete text of the BSD License can be found in /usr/share/common-licenses/BSD

1.181 network-manager 1.30.0-10.el8_4
1.181.1 Available under license:
GNU Free Documentation License
Version 1.1, March 2000

Copyright (C) 2000 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other written document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for
This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you".

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (For example, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License.

A "Transparent" copy of the Document means a machine-readable copy,
represented in a format whose specification is available to the
general public, whose contents can be viewed and edited directly and
straightforwardly with generic text editors or (for images composed of
pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup has been designed to thwart or discourage
subsequent modification by readers is not Transparent. A copy that is
not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain
ASCII without markup, Texinfo input format, LaTeX input format, SGML
or XML using a publicly available DTD, and standard-conforming simple
HTML designed for human modification. Opaque formats include
PostScript, PDF, proprietary formats that can be read and edited only
by proprietary word processors, SGML or XML for which the DTD and/or
processing tools are not generally available, and the
machine-generated HTML produced by some word processors for output
purposes only.

The "Title Page" means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, "Title Page" means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies of the Document numbering more than 100,
and the Document's license notice requires Cover Texts, you must enclose
the copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a publicly-accessible computer-network location containing a complete
Transparent copy of the Document, free of added material, which the
general network-using public has access to download anonymously at no
charge using public-standard network protocols. If you use the latter
option, you must take reasonably prudent steps, when you begin
distribution of Opaque copies in quantity, to ensure that this
Transparent copy will remain thus accessible at the stated location
until at least one year after the last time you distribute an Opaque
copy (directly or through your agents or retailers) of that edition to
the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has less than five).

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.

E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document’s license notice.

H. Include an unaltered copy of this License.

I. Preserve the section entitled "History", and its title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. In any section entitled "Acknowledgements" or "Dedications", preserve the section's title, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section as "Endorsements" or to conflict in title with any Invariant Section.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.
You may add a section entitled “Endorsements”, provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections entitled "History" in the various original documents, forming one section entitled "History"; likewise combine any sections entitled "Acknowledgements", and any sections entitled "Dedications". You must delete all sections entitled "Endorsements."

6. COLLECTIONS OF DOCUMENTS
You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, does not as a whole count as a Modified Version of the Document, provided no compilation copyright is claimed for the compilation. Such a compilation is called an “aggregate”, and this License does not apply to the other self-contained works thus compiled with the Document, on account of their being thus compiled, if they are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one quarter of the entire aggregate, the Document's Cover Texts may be placed on covers that surround only the Document within the aggregate. Otherwise they must appear on covers around the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License provided that you also include the original English version of this License. In case of a disagreement between the translation and the original English version of this License, the original English version will prevail.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except
as expressly provided for under this License. Any other attempt to
 copy, modify, sublicense or distribute the Document is void, and will
 automatically terminate your rights under this License. However,
 parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such
 parties remain in full compliance.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
https://www.gnu.org/licenses/.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License "or any later version" applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.1
or any later version published by the Free Software Foundation;
with the Invariant Sections being LIST THEIR TITLES, with the
Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.
A copy of the license is included in the section entitled "GNU
Free Documentation License".

If you have no Invariant Sections, write "with no Invariant Sections"
instead of saying which ones are invariant. If you have no
Front-Cover Texts, write "no Front-Cover Texts" instead of
"Front-Cover Texts being LIST"; likewise for Back-Cover Texts.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License, to permit their use in free software.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.182 json 2.5.1.gem.data

1.182.1 Available under license:

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>. You can redistribute it and/or modify it under either the terms of the 2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
b) use the modified software only within your corporation or organization.

c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

   a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

   b) accompany the distribution with the machine-readable source of the software.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.183 redhat-rpm-config 125-1.el8

1.183.1 Available under license:

   Found license 'General Public License 2.0' in '# This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version. # This program is distributed in the hope that
it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation.

1.184 libusb 1.0.23-4.el8

1.184.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

**GNU LESSER GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.185 stringio 0.0.1

1.185.1 Available under license:
No license file was found, but licenses were detected in source scan.

 /**********************************************************************
 ** stringio.c -
 */

stringio.c -

$Author$
$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp $
created at: Tue Feb 19 04:10:38 JST 2002

All the files in this distribution are covered under the Ruby's license (see the file COPYING).
1.186 cyrus-sasl 2.1.27 5.el8

1.186.1 Available under license:

/* CMU libasal

 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
/*
 * Copyright (c) 1998-2003 Carnegie Mellon University. All rights reserved.
 * 
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 * 
 * 3. The name "Carnegie Mellon University" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For permission or any other legal
 *    details, please contact
 *   Office of Technology Transfer
 *   Carnegie Mellon University
 *   5000 Forbes Avenue
 *   Pittsburgh, PA  15213-3890
 *   (412) 268-4387, fax: (412) 268-7395
 *   tech-transfer@andrew.cmu.edu
 *  
 * 4. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *   "This product includes software developed by Computing Services
 *    at Carnegie Mellon University (http://www.cmu.edu/computing/)."
 * 
 * CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO
 * THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
Copyright (C) 1995-1997 Eric Young (eay@mincom.oz.au)
All rights reserved.

This package is an DES implementation written by Eric Young (eay@mincom.oz.au).
The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as
the following conditions are adhered to. The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.
If this package is used in a product, Eric Young should be given attribution
as the author of that the SSL library. This can be in the form of a textual
message at program startup or in documentation (online or textual) provided
with the package.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
   must display the following acknowledgement:
   This product includes software developed by Eric Young (eay@mincom.oz.au)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The license and distribution terms for any publically available version or
The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

/* CMU libascl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

/*
 * Copyright (c) 2001 Carnegie Mellon University. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * 3. The name "Carnegie Mellon University" must not be used to
 * endorse or promote products derived from this software without
 * prior written permission. For permission or any other legal
 * details, please contact
 * Office of Technology Transfer
 * Carnegie Mellon University
 * 5000 Forbes Avenue
 * Pittsburgh, PA 15213-3890
 * (412) 268-4387, fax: (412) 268-7395
 * tech-transfer@andrew.cmu.edu
 *
 * 4. Redistributions of any form whatsoever must retain the following
 * acknowledgment:
 * "This product includes software developed by Computing Services
 * at Carnegie Mellon University (http://www.cmu.edu/computing/)."
 *
 * CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO
 * THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE
 * FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.188 ledmon 0.95-1.el8
1.188.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.189 libedit 3.1 23.20170329cvs.el8

1.189.1 Available under license:

Copyright (c) 1992, 1993
The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by Christos Zoulas of Cornell University.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS `AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.190 iprutils 2.4.19 1.el8

1.190.1 Available under license:

Common Public License Version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC
LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

“Contribution” means:

a) in the case of the initial Contributor, the initial code and documentation
distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution ‘originates’ from
a Contributor if it was added to the Program by such Contributor itself or
anyone acting on such Contributor’s behalf. Contributions do not include
additions to the Program which: (i) are separate modules of software
distributed in conjunction with the Program under their own license agreement,
and (ii) are not derivative works of the Program.

“Contributor” means any person or entity that distributes the Program.

“Licensed Patents ” mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

“Program” means the Contributions distributed in accordance with this Agreement.
"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must:

a) promptly notify the Commercial Contributor in writing of such claim, and

b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such
Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

1.191 perl-time-local 1.280 1.el8
1.191.1 Available under license :
This software is copyright (c) 1997 - 2018 by Graham Barr & Dave Rolsky.

This is free software; you can redistribute it and/or modify it under

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 20734
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
   Software Foundation; either version 1, or (at your option) any
   later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 1997 - 2018 by Graham Barr & Dave Rolsky.

This is free software, licensed under:

The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users
at the mercy of those companies. By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not
price. Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

   b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either
with or without modifications, to be licensed at no charge to all
third parties under the terms of this General Public License (except
that you may choose to grant warranty protection to some or all
third parties, at your option).

c) If the modified program normally reads commands interactively when
run, you must cause it, when started running for such interactive use
in the simplest and most usual way, to print or display an
announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the program under these
conditions, and telling the user how to view a copy of this General
Public License.

d) You may charge a fee for the physical act of transferring a
copy, and you may at your option offer warranty protection in
exchange for a fee.

Mere aggregation of another independent work with the Program (or its
derivative) on a volume of a storage or distribution medium does not bring
the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of
it, under Paragraph 2) in object code or executable form under the terms of
Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of
Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three
years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of
Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the
corresponding source code may be obtained. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making
modifications to it. For an executable file, complete source code means
all the source code for all modules it contains; but, as a special
exception, it need not include source code for modules which are standard
libraries that accompany the operating system on which the executable
file runs, or for standard header files or definitions files that
accompany that operating system.
4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 1997 - 2018 by Graham Barr & Dave Rolsky.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:
- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.192.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO 
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. 
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR 
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY 
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE 
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR 
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE 
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME 
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN 
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY 
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU 
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR 
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE 
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING 
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A 
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF 
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH 
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest 
possible use to the public, we recommend making it free software that 
everyone can redistribute and change. You can do so by permitting 
redistribution under these terms (or, alternatively, under the terms of the 
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is 
safest to attach them to the start of each source file to most effectively 
convey the exclusion of warranty; and each file should have at least the 
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.> 
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or 
modify it under the terms of the GNU Lesser General Public 
License as published by the Free Software Foundation; either 
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU 
Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.193 gopkg.in/resty v1.12.0

1.193.1 Available under license:
The MIT License (MIT)

Copyright (c) 2015-2019 Jeevanandam M., https://myjeeva.com <jeeva@myjeeva.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
1.194 docbook-style-xsl 1.79.2-9.el8

1.194.1 Available under license:

The webhelp indexer is released under the Apache 2.0 license and includes software from other projects.

The webhelp indexer was originally developed by N. Quaine and released under a MIT/BSD-style license. See LICENSE.txt.

This product includes software developed by The Apache Software Foundation (http://www.apache.org/). See LICENSE.txt.

This product also includes software released as part of the Snowball project maintained by Martin Porter and Richard Boulton released under a BSD-style license: http://snowball.tartarus.org/
The MIT License (MIT)

Copyright (c) 1999-2016 members of the DocBook Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as otherwise noted, for example, under some of the /contrib/ directories, the DocBook XSLT 1.0 Stylesheets use The MIT License.

See LICENSE.

Copyright (c) 2001-2002, SourceForge ISO-RELAX Project (ASAMI Tomoharu, Daisuke Okajima, Kohsuke Kawaguchi, and MURATA Makoto)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache Jakarta HttpClient
Copyright 1999-2007 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
// ------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,
// ------------------------------------------------------------------
// Version 2.0, in this case for Commons Logging
// ------------------------------------------------------------------

Commons Logging
Copyright 2001-2007 The Apache Software Foundation

This product includes/uses software(s) developed by 'an unknown organization'
- Unnamed - avalon-framework:avalon-framework:jar:4.1.3
- Unnamed - log4j:log4j:jar:1.2.12
- Unnamed - logkit:logkit:jar:1.0.1

LICENSE

Copyright (c) 2008 N. Quaine - NexWave Solutions All Rights Reserved.

CONDITIONS

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of the copyright holders nor the names of the contributors may be used to endorse or promote products derived from this software without specific prior written permission.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE
POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of Your accepting any such warranty or additional liability.
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Some code in src/java/org/apache/lucene/util/UnicodeUtil.java was derived from unicode conversion examples available at http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
 * Disclaimer
 * 
 * This source code is provided as is by Unicode, Inc. No claims are
 * made as to fitness for any particular purpose. No warranties of any
 * kind are expressed or implied. The recipient agrees to determine
 * applicability of information provided. If this file has been
 * purchased on magnetic or optical media from Unicode, Inc., the
 * sole remedy for any claim will be exchange of defective media
 * within 90 days of receipt.
 * 
 * Limitations on Rights to Redistribute This Code
 */
* Unicode, Inc. hereby grants the right to freely use the information
* supplied in this file in the creation of products supporting the
* Unicode Standard, and to make copies of this file in any form
* for internal or external distribution as long as this notice
* remains attached.
*/

Some code in src/java/org/apache/lucene/util/ArrayUtil.java was
derived from Python 2.4.2 sources available at
http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

(This notice is included in the Saxon distribution because Saxon includes a QuickSort
module that was originally developed by Wolfgang Hoschek at CERN, and which was licensed
for use under the conditions specified here.)

Copyright 1999 CERN - European Organization for Nuclear Research.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose
is hereby granted without fee, provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear in supporting documentation.
CERN makes no representations about the suitability of this software for any purpose.
It is provided "as is" without expressed or implied warranty.

===========================================================================
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache Xerces Java distribution. ==
===========================================================================

Apache Xerces Java
Copyright 1999-2007 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.

(This notice is included in the Saxon distribution because Saxon
uses code for conversion of XML Schema Regular expressions to
Java/.NET regular expressions that was originally written by James
Clark and made available under this license. The Saxon version of
the code has been enhanced in various ways but is still recognizably
based on the original.)

Copyright (c) 2001-2003 Thai Open Source Software Center Ltd
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

Neither the name of the Thai Open Source Software Center Ltd nor
the names of its contributors may be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===========================================================================
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache Xerces Java distribution. ==
===========================================================================

Apache Xerces Java
Copyright 1999-2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

 Portions of this software were originally based on the following:
LEGAL NOTICE

This notice is issued to fulfill the requirements of the Mozilla Public License version 1.0 ("MPL 1.0") sections 3.4(a) and 3.6. MPL 1.0 can be found at http://www.mozilla.org/MPL/MPL-1.0.html.

Section 3.4(a) of MPL 1.0 states that any third party intellectual property rights in particular functionality or code must be notified in a text file named LEGAL that is issued with the source code. Saxon includes a number of such third party components, and the relevant claims are included in notices included in the same directory as this notice. Although MPL 1.0 requires this notice to be included only with source code, some of the third parties may also require notices to be included with executable code. Therefore, Saxon executable code must not be distributed separately from this notice and all the accompanying third party notices. The term "Distribution" here includes making the code available for download, and its inclusion in download repositories such as Maven.

Section 3.6 of MPL 1.0 states:

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2.

Section 3.2 requires the Source Code of Covered Code to be made available via an accepted Electronic Distribution Mechanism.

The Source Code version of the Covered Code (that is, the source code of Saxon-HE) is available under the terms of the Mozilla Public License version 1.0, and may be obtained from the Subversion repository for the Saxon project on SourceForge, at https://sourceforge.net/svn/?group_id=29872.

The precise version of the Subversion source for a particular Saxon maintenance release can be determined by referring to the release notes for the particular release in the SourceForge download area.

Note that MPL 1.0 requires that any modifications to this source code must be made available under the terms of the MPL "to anyone to whom you made an executable version available". As a courtesy, it is also requested that you make such modifications available to Saxonica Limited.

Apache Lucene
Copyright 2006 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

The snowball stemmers in
contrib/snowball/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/


Includes lib/servlet-api-2.4.jar from Apache Tomcat

The SmartChineseAnalyzer source code (under contrib/analyzers) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

ICU4J, (under contrib/collation) is licensed under an MIT styles license (contrib/collation/lib/ICU-LICENSE.txt) and Copyright (c) 1995-2008 International Business Machines Corporation and others

xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

HEAR YE, HEAR YE!

All of the .java software and associated documentation about the DOM in this repository are distributed under the license from the W3C, which is provided herein.

LICENSE.dom-software.txt covers all software from the W3C including the following items in the xml-commons project:

xml-commons/java/external/src/org/w3c
  and all subdirectories

(Note: SAC (The Simple API for CSS) has been published under an older version of the W3C license. The original license file is LICENSE.sac.html.)

LICENSE.dom-documentation.txt covers all documentation from the W3C including the following items in the xml-commons project:

xml-commons/java/external/xdocs/dom
  and all subdirectories

The actual DOM Java Language Binding classes in xml-commons came from:
  http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html
The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

===========================================================================
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache xml-commons xml-apis ==
== distribution. ==
===========================================================================

Apache XML Commons XML APIs
Copyright 1999-2009 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
  - software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org
Copyright
---------
Copyright (C) 1999-2007 Norman Walsh
Copyright (C) 2003 Ji Kosek
Copyright (C) 2004-2007 Steve Ball
Copyright (C) 2005-2014 The DocBook Project
Copyright (C) 2011-2012 O'Reilly Media

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Except as contained in this notice, the names of individuals credited with contribution to this software shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the individuals in question.

Any stylesheet derived from this Software that is publically distributed will be identified with a different name and the version strings in any derived Software will be changed so that no possibility of confusion between the derived package and this Software will exist.

Warranty
--------
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL NORMAN WALSH OR ANY OTHER CONTRIBUTOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Contacting the Author
---------------------
The DocBook XSL stylesheets are maintained by Norman Walsh, <ndw@nwalsh.com>, and members of the DocBook Project, <docbook-developers@sf.net>

(This notice is included in the Saxon distribution because Saxon uses code performing Unicode Normalization that was originally written by Mark Davis and made available under this license. The Saxon version of the code has been enhanced in various minor ways but is still recognizably
The actual SAX classes in xml-commons came from:
http://www.megginson.com/Software/index.html
The original versions are tagged 'SAX-2_0-r2-prerelease'
See doc/content/index.html.

This license came from: http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.zip
(COPYRIGHT.html)

W3C SOFTWARE NOTICE AND LICENSE

The DOM bindings are published under the W3C Software Copyright Notice and License. The software license requires "Notice of any changes or modifications to the W3C files, including the date changes were made." Consequently, modified versions of the DOM bindings must document that they do not conform to the W3C standard; in the case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the case of the Java language binding, the package names can no longer be in the 'org.w3c' package.

Note: The original version of the W3C Software Copyright Notice and License could be found at http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body
of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date
changes were made. (We recommend you provide URIs to the location from
which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or
publicity pertaining to the software without specific, written prior permission.
Title to copyright in this software and any associated documentation will at
all times remain with copyright holders.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.
"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The contents of these file are subject to the Mozilla Public License Version 1.0 (the "License"); you may not use these files except in compliance with the License. You may obtain a copy of the License at http://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is all Saxon modules labelled with a notice referring to this license.

The Initial Developer of the Original Code is Michael Kay, except where otherwise specified in an individual module.

Portions created by other named contributors are copyright as identified in the relevant module. All Rights Reserved.

Contributor(s) are listed in the documentation: see notices/contributors.

(This notice is included in the Saxon distribution because Saxon's XPath parser was originally derived from an XPath parser written by James Clark and made available
Copyright (c) 1998, 1999 James Clark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL JAMES CLARK BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of James Clark shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from James Clark.

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-20021231

W3C DOCUMENT LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231

Public documents on the W3C site are provided by the copyright holders under the following license. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:
1. A link or URL to the original W3C document.
2. The pre-existing copyright notice of the original author, or if it doesn't exist, a notice (hypertext is preferred, but a textual representation is permitted) of the form: "Copyright [$date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University). All Rights Reserved.
   http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231"
3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

--------------------------------------------------------------------------------

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, moves information on style sheets, DTDs, and schemas to the Copyright FAQ, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, such as the translating
or annotating specifications. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005)$

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Some code in src/java/org/apache/lucene/util/UnicodeUtil.java was derived from unicode conversion examples available at http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 *
 * Disclaimer
 *
 * This source code is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.
 *
 * Limitations on Rights to Redistribute This Code
 *
 * Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.
 */

Some code in src/java/org/apache/lucene/util/ArrayUtil.java was
derived from Python 2.4.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work orDerivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This license came from: http://www.megginson.com/SAX/copying.html
However please note future versions of SAX may be covered under http://saxproject.org/?selected=pd

This page is now out of date -- see the new SAX site at http://www.saxproject.org/ for more up-to-date releases and other information. Please change your bookmarks.
SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com
2000-05-05

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
   Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
   excluding those notices that do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions. 
Notwithstanding the above, nothing herein shall supersede or modify 
the terms of any separate license agreement you may have executed 
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade 
names, trademarks, service marks, or product names of the Licensor, 
except as required for reasonable and customary use in describing the 
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or 
agreed to in writing, Licensor provides the Work (and each 
Contributor provides its Contributions) on an "AS IS" BASIS, 
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or 
implied, including, without limitation, any warranties or conditions 
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A 
PARTICULAR PURPOSE. You are solely responsible for determining the 
appropriateness of using or redistributing the Work and assume any 
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, 
whether in tort (including negligence), contract, or otherwise, 
unless required by applicable law (such as deliberate and grossly 
negligent acts) or agreed to in writing, shall any Contributor be 
liable to You for damages, including any direct, indirect, special, 
incidental, or consequential damages of any character arising as a 
result of this License or out of the use or inability to use the 
Work (including but not limited to damages for loss of goodwill, 
work stoppage, computer failure or malfunction, or any and all 
other commercial damages or losses), even if such Contributor 
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing 
the Work or Derivative Works thereof, You may choose to offer, 
and charge a fee for, acceptance of support, warranty, indemnity, 
or other liability obligations and/or rights consistent with this 
License. However, in accepting such obligations, You may act only 
on Your own behalf and on Your sole responsibility, not on behalf 
of any other Contributor, and only if You agree to indemnify, 
defend, and hold each Contributor harmless for any liability 
incurred by, or claims asserted against, such Contributor by reason 
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.195 psmisc 23.1-5.el8
1.195.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.196 io-console 0.4.6
1.196.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.197 cryptsetup 2.3.3-4.el8

1.197.1 Available under license:

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

- the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
- moral rights retained by the original author(s) and/or performer(s);
- publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
rights protecting the extraction, dissemination, use and reuse of data in a Work;
database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or
obligation with respect to this CC0 or use of the Work.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

-----
In addition, as a special exception, the copyright holders give
permission to link the code of portions of this program with the
OpenSSL library under certain conditions as described in each
individual source file, and distribute linked combinations
including the two.

You must obey the GNU Lesser General Public License in all respects
for all of the code used other than OpenSSL. If you modify
file(s) with this exception, you may extend this exception to your
version of the file(s), but you are not obligated to do so. If you
do not wish to do so, delete this exception statement from your
version. If you delete this exception statement from all source
files in the program, then also delete it here.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software— to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation’s software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author’s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

-----

In addition, as a special exception, the copyright holders give permission to link the code of portions of this program with the OpenSSL library under certain conditions as described in each individual source file, and distribute linked combinations including the two.
You must obey the GNU General Public License in all respects for all of the code used other than OpenSSL. If you modify file(s) with this exception, you may extend this exception to your version of the file(s), but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. If you delete this exception statement from all source files in the program, then also delete it here.

1.198 sg3-utils 1.44 5.el8
1.198.1 Available under license:

Upstream Authors: Douglas Gilbert <dgilbert@interlog.com>,
    Bruce Allen <ballen@gravity.phys.uwm.edu>,
    Peter Allworth <linsol@zeta.dot.org.au>,
    James Bottomley <jejb@parisc-linux.dot.org>,
    Lars Marowsky-Bree <lmb@suse.de>,
    Kurt Garloff <garloff@suse.de>,
    Grant Grundler <grundler@parisc-linux.dot.org>,
    Christophe Varoqui <christophe.dot.varoqui@free.fr>,
    Michael Weller <eowmob@exp-math.uni-essen.de>,
    Eric Youngdale <eric@andante.org>

Copyright:

This software is copyright(c) 1994-2012 by the authors

Most of the code in this package is covered by a BSD license. On Debian systems, the complete text of the BSD License can be found in `/usr/share/common-licenses/BSD'. All the code in the library (usually called libsgutils) is covered by a BSD license.

Some of the older utilities are covered by the GPL. More precisely: You are free to distribute this software under the terms of the GNU General Public License either version 2, or (at your option) any later version. On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2' file. The later GPL-3 is found in `/usr/share/common-licenses/GPL-3' file but no code in this package refers to that license.

Douglas Gilbert
10th April 2012

Copyright (c) 1999-2018, Douglas Gilbert
All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.199 icu 60.3 2.el8_1

1.199.1 Available under license:

```makefile
##-*-makefile-*-.
## Copyright (C) 2016 and later: Unicode, Inc. and others.
## License & terms of use: http://www.unicode.org/copyright.html
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and ## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS = -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$((SHELL)) -ec "$(GEN_DEPS.c) $< \n| sed \"s\($\*\$\)\.o\[ :\]*/\1.o $@ : /g;\" > $@;\n| [ -s $@ ] \|| rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$((SHELL)) -ec "$(GEN_DEPS.cc) $< \n| sed \"s\($\*\$\)\.o\[ :\]*/\1.o $@ : /g;\" > $@;\n| [ -s $@ ] \|| rm -f $@

## Versioned libraries rules
%.$(SO),%.$(SO_TARGET_VERSION_MAJOR): %.$(SO),%.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${*F}.$(SO),.$(SO_TARGET_VERSION_MAJOR)

%.$(SO),%.$(SO_TARGET_VERSION_MAJOR): %.$(SO),%.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $(*F),.$(SO),.$(SO_TARGET_VERSION_MAJOR)

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS = -Wl,-Bsymbic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------
Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.


# The Google Chrome software developed by Google is licensed under
# the BSD license. Other software included in this distribution is
# provided under other licenses, as set forth below.
#
# The BSD License
# http://opensource.org/licenses/bsd-license.php
# Copyright (C) 2006-2008, Google Inc.
#
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#
# Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.
# Redistributions in binary form must reproduce the above
# copyright notice, this list of conditions and the following
# disclaimer in the documentation and/or other materials provided with
# the distribution.
# Neither the name of Google Inc. nor the names of its
# contributors may be used to endorse or promote products derived from
# this software without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
# CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
# frequency is generated with an iterative training against Google web
# corpora.
#
# * Libtabe (Chinese)
#   - https://sourceforge.net/project/?group_id=1519
#   - Its license terms and conditions are shown below.
#
# * IPADIC (Japanese)
#   - http://chasen.aist-nara.ac.jp/chasen/distribution.html
#   - Its license terms and conditions are shown below.
#
# --------COPYING.libtabe ---- BEGIN------------------
# * All rights reserved.
# *
# * Redistribution and use in source and binary forms, with or without
# * modification, are permitted provided that the following conditions
# * are met:
# *
# * Redistributions of source code must retain the above copyright
# * notice, this list of conditions and the following disclaimer.
# * Redistributions in binary form must reproduce the above copyright
# * notice, this list of conditions and the following disclaimer in
# * the documentation and/or other materials provided with the
# * distribution.
# * Neither the name of the TaBE Project nor the names of its
# * contributors may be used to endorse or promote products derived
# * from this software without specific prior written permission.
# *
# * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# * OF THE POSSIBILITY OF SUCH DAMAGE.
# */
#
#
# /*
# * Copyright (c) 1999 Computer Systems and Communication Lab,
# * Institute of Information Science, Academia
# * Sinica. All rights reserved.
# *
# * Redistribution and use in source and binary forms, with or without
# * modification, are permitted provided that the following conditions
# * are met:
# *
# * Redistributions of source code must retain the above copyright
# * notice, this list of conditions and the following disclaimer.
# * Redistributions in binary form must reproduce the above copyright
# * notice, this list of conditions and the following disclaimer in
# * the documentation and/or other materials provided with the
# * distribution.
# * Neither the name of the Computer Systems and Communication Lab
# * nor the names of its contributors may be used to endorse or
# * promote products derived from this software without specific
# * prior written permission.
# *
# * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# * OF THE POSSIBILITY OF SUCH DAMAGE.
# */

# Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
# University of Illinois
# c-tsai4@uiuc.edu http://casper.beckman.uiuc.edu/~c-tsai4
#
# ------------COPYING.libtable-----END-------------------------------
#
# ------------COPYING.ipadic-----BEGIN-------------------------------
#
# Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
# and Technology. All Rights Reserved.
#
# Use, reproduction, and distribution of this software is permitted.
# Any copy of this software, whether in its original form or modified,
# must include both the above copyright notice and the following
# paragraphs.
#
# Nara Institute of Science and Technology (NAIST),
# the copyright holders, disclaims all warranties with regard to this
# software, including all implied warranties of merchantability and
# fitness, in no event shall NAIST be liable for
# any special, indirect or consequential damages or any damages
# whatsoever resulting from loss of use, data or profits, whether in an
# action of contract, negligence or other tortuous action, arising out
# of or in connection with the use or performance of this software.
#
# A large portion of the dictionary entries
# originate from ICOT Free Software. The following conditions for ICOT
# Free Software applies to the current dictionary as well.
#
# Each User may also freely distribute the Program, whether in its
# original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

# NO WARRANTY

# The program was produced on an experimental basis in the course of the
# research and development conducted during the project and is provided
# to users as so produced on an experimental basis. Accordingly, the
# program is provided without any warranty whatsoever, whether express,
# implied, statutory or otherwise. The term "warranty" used herein
# includes, but is not limited to, any warranty of the quality,
# performance, merchantability and fitness for a particular purpose of
# the program and the nonexistence of any infringement or violation of
# any right of any third party.

# Each user of the program will agree and understand, and be deemed to
# have agreed and understood, that there is no warranty whatsoever for
# the program and, accordingly, the entire risk arising from or
# otherwise connected with the program is assumed by the user.

# Therefore, neither ICOT, the copyright holder, or any other
# organization that participated in or was otherwise related to the
# development of the program and their respective officials, directors,
# officers and other employees shall be held liable for any and all
# damages, including, without limitation, general, special, incidental
# and consequential damages, arising out of or otherwise in connection
# with the use or inability to use the program or any product, material
# or result produced or otherwise obtained by using the program,
# regardless of whether they have been advised of, or otherwise had
# knowledge of, the possibility of such damages at any time during the
# project or thereafter. Each user will be deemed to have agreed to the
# foregoing by his or her commencement of use of the program. The term
# "use" as used herein includes, but is not limited to, the use,
# modification, copying and distribution of the program and the
# production of secondary products from the program.

# In the case where the program, whether in its original form or
# modified, was distributed or delivered to or received by a user from
# any person, organization or entity other than ICOT, unless it makes or
# grants independently of ICOT any specific warranty to the user in
# writing, such person, organization or entity, will also be exempted
# from and not be held liable to the user for any such damages as noted
# above as far as the program is concerned.

#
3. Lao Word Break Dictionary Data (laodict.txt)

# Copyright (c) 2013 International Business Machines Corporation
# and others. All Rights Reserved.
#
# Project: http://code.google.com/p/lao-dictionary/
# License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
# (copied below)
#
# This file is derived from the above dictionary, with slight
# modifications.
# ----------------------------------------------------------------------
# Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#
# Redistributions of source code must retain the above copyright notice, this
# list of conditions and the following disclaimer. Redistributions in
# binary form must reproduce the above copyright notice, this list of
# conditions and the following disclaimer in the documentation and/or
# other materials provided with the distribution.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
# INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# OF THE POSSIBILITY OF SUCH DAMAGE.
# ----------------------------------------------------------------------

4. Burmese Word Break Dictionary Data (burmesedict.txt)

# Copyright (c) 2014 International Business Machines Corporation
# and others. All Rights Reserved.
5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

# 7. Database Ownership

# The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work that is in the public domain, and is intended to remain in the
# public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
# not apply to the TZ Database or contributions that individuals make
# to it. Should any claims be made and substantiated against the TZ
# Database, the organization that is providing the IANA
# Considerations defined in this RFC, under the memorandum of
# understanding with the IETF, currently ICANN, may act in accordance
# with all competent court orders. No ownership claims will be made
# by ICANN or the IETF Trust on the database or the code. Any person
# making a contribution to the database or code waives all rights to
# future claims in that contribution or in the TZ Database.

1.200 ltrace 0.7.91-28.el8

1.200.1 Available under license:

This is the Debian GNU/Linux's prepackaged version of the Dynamic Library Tracer `ltrace`.

It was downloaded from http://www.ltrace.org/

Copyrights

-------
Copyright (C) 1997-2009 Juan Cespedes <cespedes@debian.org>

ARMLinux port: Copyright (C) 1998 Pat Beirne <pbeirne@home.com>
m68k port: Copyright (C) 1998 Roman Hodek <Roman.Hodek@informatik.uni-erlangen.de>
Misc fixes: Copyright (C) 1999 Morten Eriksen <mortene@sim.no>
s390 port: Copyright (C) 2001 IBM Poughkeepsie, IBM Cororation <slate@us.ibm.com>
ELF hacking: Copyright (C) 1999 Silvio Cesare <silvio@big.net.au>
PowerPC port: Copyright (C) 2001-2002 Anton Blanchard <anton@samba.org>
SPARC port: Copyright (C) 1999 Jakub Jelinek <jakub@redhat.com>

C++ demangle: Copyright 1989-1997 Free Software Foundation, Inc.

License

-------
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2, or (at your option)
any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.
A copy of the GNU General Public License is available as
`/usr/share/common-licenses/GPL' in the Debian GNU/Linux distribution
You can also obtain it by writing to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.201 pkcs11-helper 1.22-7.el8

1.201.1 Available under license :

pkcs11-helper License

Copyright (c) 2005-2011 Alon Bar-Lev <alon.barlev@gmail.com>
All rights reserved.

This software is available to you under a choice of one of two licenses. You may choose to be licensed under the terms of the GNU General Public License (GPL) Version 2, or the BSD license.

GNU General Public License (GPL) Version 2
===========================================
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program (see the file COPYING.GPL included with this distribution); if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

BSD License
============
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the Alon Bar-Lev nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Packeging License

RPM
Copyright (c) 2006-2007 Eddy Nigg

Debian
Copyright (c) 2007 Sandro Wefel

m4 Macros License

autoconf/automake
Copyright (C) 2002, 2003 Free Software Foundation, Inc.

pkg.m4
Copyright 2004 Scott James Remnant <scott@netsplit.com>.

AX_CPP_VARARG*
Copyright (c) James Yonan <jim@yonan.net>
Copyright (c) Matthias Andree <matthias.andree@web.de>

pkcs11.h License
Copyright 2006, 2007 g10 Code GmbH
Copyright 2006 Andreas Jellinghaus

OpenSSL License (Optional component, parsing certificates, engine)

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (jh@cryptsoft.com).

GnuTLS License (Optional component, for a complete GPLed license, replaces OpenSSL)

See the end for copying conditions.

The copyright holder for Gnutls is Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.

NSS License (Optional component, parsing certificates, engine)

The Original Code is Mozilla Communicator client code, released

The Initial Developer of the Original Code is Netscape
Communications Corporation. Portions created by Netscape are
Copyright (C) 1998-1999 Netscape Communications Corporation. All
Rights Reserved.

Doxygen License (Optional component, documentation)

Copyright 1997-2006 by Dimitri van Heesch.

Permission to use, copy, modify, and distribute this software and
its documentation under the terms of the GNU General Public License
is hereby granted. No representations are made about the suitability
of this software for any purpose. It is provided "as is" without express
or implied warranty. See the GNU General Public License for more details.

Documents produced by doxygen are derivative works derived
from the input used in their production; they are not affected by this
license.
Copyright (c) 2005-2006, Alon Bar-Lev <alon.barlev@gmail.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  o Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  o Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  o Neither the name of the Alon Bar-Lev nor the names of its
contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package was debianized by S. Wefel <wefel@informatik.uni-halle.de> on Mon, 29 Jan 2007 16:56:30 +0100.

It was downloaded from http://www.opensc-project.org/files/pkcs11-helper/

Upstream Author: Alon Bar-Lev <alon.barlev@gmail.com>

Copyright: Copyright (c) 2005-2006 Alon Bar-Lev

pkcs11-helper License

Copyright (c) 2005-2011 Alon Bar-Lev <alon.barlev@gmail.com>
All rights reserved.

This software is available to you under a choice of one of two licenses. You may choose to be licensed under the terms of the GNU General Public License (GPL) Version 2, or the BSD license.

GNU General Public License (GPL) Version 2
===========================================
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program (see the file COPYING.GPL included with this distribution); if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
BSD License
============
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  o Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  o Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  o Neither the name of the Alon Bar-Lev nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Packeging License

RPM
Copyright (c) 2006-2007 Eddy Nigg

Debian
Copyright (c) 2007 Sandro Wefel

m4 Macros License

autoconf/automake
Copyright (C) 2002, 2003 Free Software Foundation, Inc.

pkg.m4
Copyright 2004 Scott James Remnant <scott@netsplit.com>.

AX_CPP_VARARG*
Copyright (c) James Yonan <jim@yonan.net>
Copyright (c) Matthias Andree <matthias.andree@web.de>

pkcs11.h License
Copyright 2006, 2007 g10 Code GmbH
Copyright 2006 Andreas Jellinghaus

OpenSSL License (Optional component, parsing certificates, engine)

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

GnuTLS License (Optional component, for a complete GPLed license, replaces OpenSSL)

See the end for copying conditions.

The copyright holder for Gnutls is Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

NSS License (Optional component, parsing certificates, engine)

The Original Code is Mozilla Communicator client code, released March 31, 1998.

The Initial Developer of the Original Code is Netscape Communications Corporation. Portions created by Netscape are Copyright (C) 1998-1999 Netscape Communications Corporation. All Rights Reserved.

Doxygen License (Optional component, documentation)

Copyright 1997-2006 by Dimitri van Heesch.

Permission to use, copy, modify, and distribute this software and its documentation under the terms of the GNU General Public License is hereby granted. No representations are made about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty. See the GNU General Public License for more details.

Documents produced by doxygen are derivative works derived from the input used in their production; they are not affected by this license.

On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in /usr/share/common-licenses/GPL.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.202 lsscsi 0.32-2.el8

1.202.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
This package was debianized by Matt Taggart <taggart@debian.org> on
Wed, 2 Feb 2005 00:27:11 -0800.

It was downloaded from http://sg.danny.cz/scsi/lsscsi.html

Copyright: Copyright (C) 2003-2008 D. Gilbert

Upstream Author: Doug Gilbert <dgilbert@interlog.com>

License:

This package is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 dated June, 1991.

This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this package; if not, write to the
Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston,
MA 02110-1301, USA.

On Debian systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL'.
a) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version, or

b) the "Artistic License" which comes with this Kit.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See either
the GNU General Public License or the Artistic License for more details.

You should have received a copy of the Artistic License with this
Kit, in the file named "Artistic". If not, I'll be glad to provide one.

You should also have received a copy of the GNU General Public License
along with this program in the file named "Copying". If not, write to the
Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor,
Boston, MA 02110-1301, USA or visit their web page on the internet at

For those of you that choose to use the GNU General Public License,
my interpretation of the GNU General Public License is that no Perl
script falls under the terms of the GPL unless you explicitly put
said script under the terms of the GPL yourself. Furthermore, any
object code linked with perl does not automatically fall under the
terms of the GPL, provided such object code only adds definitions
of subroutines and variables, and does not otherwise impair the
resulting interpreter from executing any standard Perl script. I
consider linking in C subroutines in this manner to be the moral
equivalent of defining subroutines in the Perl language itself. You
may sell such an object file as proprietary provided that you provide
or offer to provide the Perl source, as specified by the GNU General
Public License. (This is merely an alternate way of specifying input
to the program.) You may also sell a binary produced by the dumping of
a running Perl script that belongs to you, provided that you provide or
offer to provide the Perl source as specified by the GPL. (The
fact that a Perl interpreter and your code are in the same binary file
is, in this case, a form of mere aggregation.) This is my interpretation
of the GPL. If you still have concerns or difficulties understanding
my intent, feel free to contact me. Of course, the Artistic License
spells all this out for your protection, so you may prefer to use that.

1.204 perl-thread-queue 3.13-1.el8
1.204.1 Available under license:

No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1137994296_1614192680.16/0/perl-Thread-Queue-3.13-1.el8-1.src.rpm-cosi-expand-archive-kcqQwIjN/perl-Thread-Queue.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Thread::Queue - Thread-safe queues

=head1 VERSION

This document describes Thread::Queue version 3.13

=head1 SYNOPSIS

use strict;
use warnings;

use threads;
use Thread::Queue;

my $q = Thread::Queue->new();  # A new empty queue

# Worker thread
my $thr = threads->create(
  sub {
    # Thread will loop until no more work
    while (defined(my $item = $q->dequeue())) {
      # Do work on $item
      ...
    }
  }
);

# Send work to the thread
$q->enqueue($item1, ...);
# Signal that there is no more work to be sent
$q->end();
# Join up with the thread when it finishes
$thr->join();

...
# Count of items in the queue
my $left = $q->pending();

# Non-blocking dequeue
if (defined(my $item = $q->dequeue_nb())) {
    # Work on $item
}

# Blocking dequeue with 5-second timeout
if (defined(my $item = $q->dequeue_timed(5))) {
    # Work on $item
}

# Set a size for a queue
$q->limit = 5;

# Get the second item in the queue without dequeuing anything
my $item = $q->peek(1);

# Insert two items into the queue just behind the head
$q->insert(1, $item1, $item2);

# Extract the last two items on the queue
my ($item1, $item2) = $q->extract(-2, 2);

=head1 DESCRIPTION

This module provides thread-safe FIFO queues that can be accessed safely by any number of threads.

Any data types supported by L<threads::shared> can be passed via queues:

=over

=item Ordinary scalars

=item Array refs

=item Hash refs

=item Scalar refs

=item Objects based on the above

=back

Ordinary scalars are added to queues as they are.
If not already thread-shared, the other complex data types will be cloned (recursively, if needed, and including any C<bless>ings and read-only settings) into thread-shared structures before being placed onto a queue.

For example, the following would cause L<Thread::Queue> to create a empty, shared array reference via C<&shared([])>, copy the elements 'foo', 'bar' and 'baz' from C<@ary> into it, and then place that shared reference onto the queue:

my @ary = qw/foo bar baz/;
$q->enqueue(@ary);

However, for the following, the items are already shared, so their references are added directly to the queue, and no cloning takes place:

my @ary :shared = qw/foo bar baz/;
$q->enqueue(@ary);

my $obj = &shared({});
$obj{‘foo’} = ‘bar’;
$obj{‘qux’} = 99;
bless($obj, ’My::Class’);
$q->enqueue($obj);

See L</"LIMITATIONS"> for caveats related to passing objects via queues.

=head1 QUEUE CREATION

=head1 BASIC METHODS

The following methods deal with queues on a FIFO basis.
Adds a list of items onto the end of the queue.

=item ->dequeue()

=item ->dequeue(COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then the thread will be blocked until the requisite number of items are available (i.e., until other threads enqueue more items).

=item ->dequeue_nb()

=item ->dequeue_nb(COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then it immediately (i.e., non-blocking) returns whatever items there are on the queue. If the queue is empty, then C<undef> is returned.

=item ->dequeue_timed(TIMEOUT)

=item ->dequeue_timed(TIMEOUT, COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then the thread will be blocked until the requisite number of items are available, or until the timeout is reached. If the timeout is reached, it returns whatever items there are on the queue, or C<undef> if the queue is empty.

The timeout may be a number of seconds relative to the current time (e.g., 5 seconds from when the call is made), or may be an absolute timeout in I<epoch> seconds the same as would be used with L<cond_timedwait()threads::shared/"cond_timedwait VARIABLE, ABS_TIMEOUT">. Fractional seconds (e.g., 2.5 seconds) are also supported (to the extent of the underlying implementation).

If C<TIMEOUT> is missing, C<undef>, or less than or equal to 0, then this call behaves the same as C<dequeue_nb>.

=item ->pending()

Returns the number of items still in the queue. Returns C<undef> if the queue has been ended (see below), and there are no more items in the queue.

=item ->limit
Sets the size of the queue. If set, calls to C<enqueue()> will block until the number of pending items in the queue drops below the C<limit>. The C<limit> does not prevent enqueuing items beyond that count:

```perl
my $q = Thread::Queue->new(1, 2);
$q->limit = 4;
$q->enqueue(3, 4, 5);  # Does not block
$q->enqueue(6);        # Blocks until at least 2 items are
                       # dequeued
my $size = $q->limit;  # Returns the current limit (may return
                       # 'undef')
$q->limit = 0;         # Queue size is now unlimited
```

Calling any of the dequeue methods with C<COUNT> greater than a queue's C<limit> will generate an error.

```perl
=item -end()
```

Declares that no more items will be added to the queue.

All threads blocking on C<dequeue()> calls will be unblocked with any remaining items in the queue and/or C<undef> being returned. Any subsequent calls to C<dequeue()> will behave like C<dequeue_nb()>.

Once ended, no more items may be placed in the queue.

=back

=head1 ADVANCED METHODS

The following methods can be used to manipulate items anywhere in a queue.

To prevent the contents of a queue from being modified by another thread while it is being examined and/or changed, L<lockthreads::shared"lock VARIABLE"> the queue inside a local block:

```perl
{  
  lock($q); # Keep other threads from changing the queue's contents  
  my $item = $q->peek();  
  if ($item ...) {  
    ...  
  }  
}  
# Queue is now unlocked
```

=over
=item ->peek()

=item ->peek(INDEX)

Returns an item from the queue without dequeuing anything. Defaults to the the head of queue (at index position 0) if no index is specified. Negative index values are supported as with L<arrays|perldata/"Subscripts"> (i.e., -1 is the end of the queue, -2 is next to last, and so on).

If no items exists at the specified index (i.e., the queue is empty, or the index is beyond the number of items on the queue), then C<undef> is returned.

Remember, the returned item is not removed from the queue, so manipulating a C<peek>ed at reference affects the item on the queue.

=item ->insert(INDEX, LIST)

Adds the list of items to the queue at the specified index position (0 is the head of the list). Any existing items at and beyond that position are pushed back past the newly added items:

$q->enqueue(1, 2, 3, 4);
$q->insert(1, qw/foo bar/);
# Queue now contains:  1, foo, bar, 2, 3, 4

Specifying an index position greater than the number of items in the queue just adds the list to the end.

Negative index positions are supported:

$q->enqueue(1, 2, 3, 4);
$q->insert(-2, qw/foo bar/);
# Queue now contains:  1, 2, foo, bar, 3, 4

Specifying a negative index position greater than the number of items in the queue adds the list to the head of the queue.

=item ->extract()

=item ->extract(INDEX)

=item ->extract(INDEX, COUNT)

Removes and returns the specified number of items (defaults to 1) from the specified index position in the queue (0 is the head of the queue). When called with no arguments, C<extract> operates the same as C<dequeue_nb>.

This method is non-blocking, and will return only as many items as are
available to fulfill the request:

$q->enqueue(1, 2, 3, 4);
my $item  = $q->extract(2)    # Returns 3
    # Queue now contains:  1, 2, 4
my @items = $q->extract(1, 3) # Returns (2, 4)
    # Queue now contains:  1

Specifying an index position greater than the number of items in the queue results in C<undef> or an empty list being returned.

$q->enqueue('foo');
my $nada = $q->extract(3)   # Returns undef
my @nada = $q->extract(1, 3) # Returns ()

Negative index positions are supported. Specifying a negative index position greater than the number of items in the queue may return items from the head of the queue (similar to C<dequeue_nb>) if the count overlaps the head of the queue from the specified position (i.e. if queue size + index + count is greater than zero):

$q->enqueue(qw/foo bar baz/);
my @nada = $q->extract(-6, 2);  # Returns () - (3+(-6)+2) <= 0
my @some = $q->extract(-6, 4);  # Returns (foo) - (3+(-6)+4) > 0
    # Queue now contains:  bar, baz
my @rest = $q->extract(-3, 4);  # Returns (bar, baz) -
    #                   (2+(-3)+4) > 0

=head1 NOTES

Queues created by L<Thread::Queue> can be used in both threaded and non-threaded applications.

=head1 LIMITATIONS

Passing objects on queues may not work if the objects' classes do not support sharing. See L<threads::shared/"BUGS AND LIMITATIONS"> for more.

Passing array/hash refs that contain objects may not work for Perl prior to 5.10.0.

=head1 SEE ALSO

Thread::Queue on MetaCPAN:
L<https://metacpan.org/release/Thread-Queue>
Code repository for CPAN distribution:
L<https://github.com/Dual-Life/Thread-Queue>

L<threads>, L<threads::shared>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 MAINTAINER

Jerry D. Hedden, S<E<lt>jdhedden AT cpan DOT orgE<gt>>

=head1 LICENSE

This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1137994296_1614192680.16/0/perl-Thread-Queue-3.13-1.el8-1.src.rpm-cosi-expand-archive-
kcqWvjN/Thread-Queue-3.13.tar.gz-cosi-expand-archive-MK9aJFVk/Thread-Queue-3.13/lib/Thread/Queue.pm
No license file was found, but licenses were detected in source scan.

---

abstract: 'Thread-safe queues'
author:
  - Jerry D. Hedden <jdhedden AT cpan DOT org>'
bUILD_DEPENDENCIES:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1

gerENERATED BY: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Thread-Queue
no_index:
directory:
  - t
  - inc
requires:
  Scalar::Util: '1.1'
Test::More: '0.5'
Thread::Semaphore: '0'
threads::shared: '1.21'
version: '3.13'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

1.205 zstd 1.4.4 1.el8

1.205.1 Available under license:

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name Facebook nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.206.1 Available under license:

libestr is available under the terms of the GNU LGPL v2.1 or above (full text below).

-----------------------------------------------

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

liblognorm, a fast samples-based log normalization library
Copyright (C) 2010 Rainer Gerhards

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

1.207 os-prober 1.74 6.el8
1.207.1 Available under license:
The majority of code in os-prober is Copyright 2004-2011 by Joshua Kwan, Joey Hess, Christian Perrier, Colin Watson and Otavio Salvador. This is licensed under the terms of the GNU GPL, either version 2 or, at your option, any later version.

Some portions of os-prober by other contributors has an unclear license of "GNU GPL", with the version not specified.

On Debian systems, a copy of the GNU General Public License is available in /usr/share/common-licenses/GPL-2.

1.208 systemd-tap 4.4-11.el8_4
1.208.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed...
under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.209 libxmu 1.1.3-1.el8

1.209.1 Available under license:

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

-----------

Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:

Copyright 1987, 1988 by Digital Equipment Corporation, Maynard, Massachusetts.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------

Xmu/Clip.c and Xmu/Lookup.h have:

Copyright (c) 1998 by The XFree86 Project, Inc.
Copyright 1999 by Thomas E. Dickey <dickey@clark.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE XFREE86 PROJECT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY.
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Except as contained in this notice, the name of the XFree86 Project shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in this Software without prior written authorization from the
XFree86 Project.

---

abstract: parse text into an array of tokens or array of arrays
author:
- 'Alexandr Ciornii <alexchorny@gmail.com>'
build_requires:
ExtUtils::MakeMaker: 0
Scalar::Util: 0
configure_requires:
ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Text::ParseWords
no_index:
directory:
- t
- inc
requires:

1.210 perl-text-parsewords 3.30-395.el8
1.210.1 Available under license :

No license file was found, but licenses were detected in source scan.
perl: 5.006
resources:
  repository: http://github.com/chorny/Text-ParseWords
version: 3.30

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Text::ParseWords - parse text into an array of tokens or array of arrays

=head1 SYNOPSIS

use Text::ParseWords;
@lists = nested_quotewords($delim, $keep, @lines);
@words = quotewords($delim, $keep, @lines);
@words = shellwords(@lines);
@words = parse_line($delim, $keep, $line);
@words = old_shellwords(@lines); # DEPRECATED!

=head1 DESCRIPTION

The &nested_quotewords() and &quotewords() functions accept a delimiter
(which can be a regular expression)
and a list of lines and then breaks those lines up into a list of
words ignoring delimiters that appear inside quotes. &quotewords() returns all of the tokens in a single long list, while &nested_quotewords() returns a list of token lists corresponding to the elements of @lines.
&parse_line() does tokenizing on a single string. The &quotewords() functions simply call &parse_line(), so if you're only splitting
one line you can call &parse_line() directly and save a function call.

The $keep argument is a boolean flag. If true, then the tokens are
split on the specified delimiter, but all other characters (including quotes and backslashes) are kept in the tokens. If $keep is false then the &quotewords() functions remove all quotes and backslashes that are not themselves backslash-escaped or inside of single quotes (i.e., &quotewords() tries to interpret these characters just like the Bourne shell). NB: these semantics are significantly different from the original version of this module shipped with Perl 5.000 through 5.004. As an additional feature, $keep may be the keyword "delimiters" which causes the functions to preserve the delimiters in each string as tokens in the token lists, in addition to preserving quote and
&shellwords() is written as a special case of &quotewords(), and it does token parsing with whitespace as a delimiter-- similar to most Unix shells.

=head1 EXAMPLES

The sample program:

```perl
use Text::ParseWords;
@words = quotewords("\s+", 0, q{this is "a test" of \ quotewords "for you");
$i = 0;
foreach (@words) {
    print "$i: <$_>
";
    $i++;
}
```

produces:

```
0: <this>
1: <is>
2: <a test>
3: <of quotewords>
4: <"for>
5: <you>
```

demonstrating:

=over 4

=item 0Z<>
  a simple word

=item 1Z<>
  multiple spaces are skipped because of our $delim

=item 2Z<>
  use of quotes to include a space in a word

=item 3Z<>
  use of a backslash to include a space in a word

=item 4Z<>
```
use of a backslash to remove the special meaning of a double-quote

=back

Replacing C<quotewords(\s+), 0, q{this is...}>> with C<shellwords(q{this is...})>> is a simpler way to accomplish the same thing.

=head1 SEE ALSO

L<Text::CSV> - for parsing CSV files

=head1 AUTHORS

Maintainer: Alexandr Ciornii <alexchornyATgmail.com>. Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>, 1994-1997 (Original author unknown). Much of the code for &parse_line() (including the primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>. Examples section another documentation provided by John Heidemann <johnh@ISI.EDU>

Bug reports, patches, and nagging provided by lots of folks-- thanks everybody! Special thanks to Michael Schwern <schwern@envirolink.org> for assuring me that a &nested_quotewords() would be useful, and to Jeff Friedl <jfriedl@yahoo-inc.com> for telling me not to worry about error-checking (sort of-- you had to be there).

=head1 COPYRIGHT AND LICENSE

This library is free software; you may redistribute and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.
License: GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548109_1591379857.65/0/perl-Text-ParseWords-3.30-395.el8.src.rpm-cosi-expand-archive-hLfeekCO/perl-Text-ParseWords.spec

1.211 fileutils 1.0.2
1.211.1 Available under license :
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.212 libcroco 0.6.12 4.el8_2.1
1.212.1 Available under license :
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

No Warranty

15. Because the Library is licensed free of charge, there is no warranty for the Library, to the extent permitted by applicable law. Except when otherwise stated in writing the copyright holders and/or other parties provide the Library "as is" without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of the Library is with you. Should the Library prove defective, you assume the cost of all necessary servicing, repair or correction.

16. In no event unless required by applicable law or agreed to in writing will any copyright holder, or any other party who may modify and/or redistribute the Library as permitted above, be liable to you for damages, including any general, special, incidental or consequential damages arising out of the use or inability to use the Library (including but not limited to loss of data or data being rendered inaccurate or losses sustained by you or third parties or a failure of the Library to operate with any other software), even if such holder or other party has been advised of the possibility of such damages.

End of Terms and Conditions

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.213 audit 3.0 0.17.20191104git1c2f876.el8
1.213.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW,
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS
^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it
does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gatis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.214 bison 3.0.4-10.el8

1.214.1 Available under license:
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History'.') To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING
You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item

COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.
It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.
@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retile any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."
@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of
following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page

@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:
@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled "GNU
Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the `\with@dots{}Texts.'@: line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.
The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.
You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.
If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.215 libx11 1.6.8-4.el8

1.215.1 Available under license:

The following is the 'standard copyright' agreed upon by most contributors, and is currently the canonical license preferred by the X.Org Foundation. This is a slight variant of the common MIT license form published by the Open Source Initiative at http://www.opensource.org/licenses/mit-license.php
Copyright holders of new code should use this license statement where possible, and insert their name to this list. Please sort by surname for people, and by the full name for other entities (e.g. Juliusz Chroboczek sorts before Intel Corporation sorts before Daniel Stone).

See each individual source file or directory for the license that applies to that file.

Copyright (C) 2003-2006, 2008 Jamey Sharp, Josh Triplett
Copyright 2009 Red Hat, Inc.
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following licenses are 'legacy' - usually MIT/X11 licenses with the name of the copyright holder(s) in the license statement:

Copyright 1984-1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

X Window System is a trademark of The Open Group.

----------------------------------------
Copyright 2000 The XFree86 Project, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.


Portions Copyright 1990, 1991 by Tektronix, Inc.

Permission to use, copy, modify and distribute this documentation for
any purpose and without fee is hereby granted, provided that the above
copyright notice appears in all copies and that both that copyright notice
and this permission notice appear in all copies, and that the names of
Digital and Tektronix not be used in in advertising or publicity pertaining
to this documentation without specific, written prior permission.
Digital and Tektronix makes no representations about the suitability
of this documentation for any purpose.
It is provided "as is" without express or implied warranty.

----------------------------------------
Copyright (c) 1999-2000  Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
FREE SOFTWARE FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the Free Software Foundation
shall not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization from the
Free Software Foundation.

----------------------------------------
Code and supporting documentation (c) Copyright 1990 1991 Tektronix, Inc.
All Rights Reserved

This file is a component of an X Window System-specific implementation
of Xcms based on the TekColor Color Management System. TekColor is a
trademark of Tektronix, Inc. The term "TekHVC" designates a particular
color space that is the subject of U.S. Patent No. 4,985,853 (equivalent
foreign patents pending). Permission is hereby granted to use, copy,
modify, sell, and otherwise distribute this software and its
documentation for any purpose and without fee, provided that:
1. This copyright, permission, and disclaimer notice is reproduced in all copies of this software and any modification thereof and in supporting documentation;

2. Any color-handling application which displays TekHVC color coordinates identifies these as TekHVC color coordinates in any interface that displays these coordinates and in any associated documentation;

3. The term "TekHVC" is always used, and is only used, in association with the mathematical derivations of the TekHVC Color Space, including those provided in this file and any equivalent pathways and mathematical derivations, regardless of digital (e.g., floating point or integer) representation.

Tektronix makes no representation about the suitability of this software for any purpose. It is provided "as is" and with all faults.

TEKTRONIX DISCLAIMS ALL WARRANTIES APPLICABLE TO THIS SOFTWARE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL TEKTRONIX BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA, OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE, OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR THE PERFORMANCE OF THIS SOFTWARE.

(c) Copyright 1995 FUJITSU LIMITED
This is source code modified by FUJITSU LIMITED under the Joint Development Agreement for the CDE/Motif PST.

Copyright 1992 by Oki Technosystems Laboratory, Inc.
Copyright 1992 by Fuji Xerox Co., Ltd.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Oki Technosystems Laboratory and Fuji Xerox not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.
Oki Technosystems Laboratory and Fuji Xerox make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OKI TECHNO SYSTEMS LABORATORY AND FUJI XEROX DISCLAIM ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OKI TECHNO SYSTEMS
LABORATORY AND FUJI XEROX BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of FUJITSU LIMITED
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
FUJITSU LIMITED makes no representations about the suitability of
this software for any purpose.
It is provided "as is" without express or implied warranty.

FUJITSU LIMITED DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL FUJITSU LIMITED BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Copyright (c) 1995 David E. Wexelblat. All rights reserved

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL DAVID E. WEXELBLAT BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of David E. Wexelblat shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from David E. Wexelblat.

----------------------------------------
Copyright 1990, 1991 by OMRON Corporation

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name OMRON not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. OMRON makes no representations
about the suitability of this software for any purpose. It is provided
"as is" without express or implied warranty.

OMRON DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL OMRON BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTUOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Digital Equipment Corporation

Portions Copyright 1990, 1991 by Tektronix, Inc

Rewritten for X.org by Chris Lee <clee@freedesktop.org>

Permission to use, copy, modify, distribute, and sell this documentation
for any purpose and without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
Chris Lee makes no representations about the suitability for any purpose
of the information in this document. It is provided "as-is" without
express or implied warranty.

----------------------------------------

Copyright 1993 by Digital Equipment Corporation, Maynard, Massachusetts,
Copyright 1994 by FUJITSU LIMITED
Copyright 1994 by Sony Corporation

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the names of Digital, FUJITSU
LIMITED and Sony Corporation not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

DIGITAL, FUJITSU LIMITED AND SONY CORPORATION DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL, FUJITSU LIMITED
AND SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1991 by the Open Software Foundation

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Open Software Foundation
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission. Open Software
Foundation makes no representations about the suitability of this
software for any purpose. It is provided "as is" without express or
implied warranty.

OPEN SOFTWARE FOUNDATION DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL OPEN SOFTWARE FOUNDATION BE
LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Copyright 1993, 1994 by Sony Corporation

Permission to use, copy, modify, distribute, and sell this software and
its documentation for any purpose is hereby granted without fee, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of FUJITSU LIMITED and Sony Corporation
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission. FUJITSU LIMITED and
Sony Corporation makes no representations about the suitability of this
software for any purpose. It is provided "as is" without express or
implied warranty.

FUJITSU LIMITED AND SONY CORPORATION DISCLAIMS ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS. IN NO EVENT SHALL FUJITSU LIMITED OR SONY CORPORATION BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLECTION OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Copyright (c) 1993, 1995 by Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, and distribute this
software and its documentation for any purpose and without
fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting
documentation, and that the name of Silicon Graphics not be
used in advertising or publicity pertaining to distribution
of the software without specific prior written permission.
Silicon Graphics makes no representation about the suitability
of this software for any purpose. It is provided "as is"
without any express or implied warranty.

SILICON GRAPHICS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SILICON
GRAPHICS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1993 by Digital Equipment Corporation

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of FUJITSU LIMITED and Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. FUJITSU LIMITED and Digital Equipment Corporation makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

FUJITSU LIMITED AND DIGITAL EQUIPMENT CORPORATION DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL FUJITSU LIMITED AND DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1992, 1993 by FUJITSU LIMITED
Copyright 1993 by Fujitsu Open Systems Solutions, Inc.
Copyright 1994 by Sony Corporation

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of FUJITSU LIMITED, Fujitsu Open Systems Solutions, Inc. and Sony Corporation not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. FUJITSU LIMITED, Fujitsu Open Systems Solutions, Inc. and Sony Corporation make no representations about the suitability of
this software for any purpose. It is provided "as is" without express or implied warranty.

FUJITSU LIMITED, FUJITSU OPEN SYSTEMS SOLUTIONS, INC. AND SONY CORPORATION DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL FUJITSU OPEN SYSTEMS SOLUTIONS, INC., FUJITSU LIMITED AND SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1987, 1988, 1990, 1993 by Digital Equipment Corporation, Maynard, Massachusetts,

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1993 by SunSoft, Inc.
Copyright 1999-2000 by Bruno Haible

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of SunSoft, Inc. and Bruno Haible not be used in advertising or publicity pertaining to distribution of the software without specific, written prior
permission. SunSoft, Inc. and Bruno Haible make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

SunSoft Inc. AND Bruno Haible DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SunSoft, Inc. OR Bruno Haible BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1991 by the Open Software Foundation
Copyright 1993 by the TOSHIBA Corp.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of Open Software Foundation and TOSHIBA not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Open Software Foundation and TOSHIBA make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OPEN SOFTWARE FOUNDATION AND TOSHIBA DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OPEN SOFTWARE FOUNDATION OR TOSHIBA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1988 by Wyse Technology, Inc., San Jose, Ca.,

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name Wyse not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

WYSE DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1991 by the Open Software Foundation
Copyright 1993, 1994 by the Sony Corporation

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of Open Software Foundation and Sony Corporation not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Open Software Foundation and Sony Corporation make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OPEN SOFTWARE FOUNDATION AND SONY CORPORATION DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OPEN SOFTWARE FOUNDATION OR SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1992, 1993 by FUJITSU LIMITED
Copyright 1993 by Fujitsu Open Systems Solutions, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of FUJITSU LIMITED and Fujitsu Open Systems Solutions, Inc. not be used in advertising or publicity pertaining to distribution of the software without specific,
written prior permission.
FUJITSU LIMITED and Fujitsu Open Systems Solutions, Inc. makes no
representations about the suitability of this software for any purpose.
It is provided "as is" without express or implied warranty.

FUJITSU LIMITED AND FUJITSU OPEN SYSTEMS SOLUTIONS, INC. DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL FUJITSU OPEN SYSTEMS
SOLUTIONS, INC. AND FUJITSU LIMITED BE LIABLE FOR ANY SPECIAL, INDIRECT
OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

----------------------------------------
Copyright 1993, 1994 by Sony Corporation

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of Sony Corporation
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
Sony Corporation makes no representations about the suitability of
this software for any purpose. It is provided "as is" without
express or implied warranty.

SONY CORPORATION DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Copyright 1986, 1998  The Open Group
Copyright (c) 2000  The XFree86 Project, Inc.

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM OR THE XFREE86 PROJECT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium or of the XFree86 Project shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium and the XFree86 Project.

----------------------------------------

Copyright 1990, 1991 by OMRON Corporation, NTT Software Corporation, and Nippon Telegraph and Telephone Corporation
Copyright 1991 by the Open Software Foundation
Copyright 1993 by the FUJITSU LIMITED

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of OMRON, NTT Software, NTT, and Open Software Foundation not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. OMRON, NTT Software, NTT, and Open Software Foundation make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OMRON, NTT SOFTWARE, NTT, AND OPEN SOFTWARE FOUNDATION DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OMRON, NTT SOFTWARE, NTT, OR OPEN SOFTWARE FOUNDATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 1988 by Wyse Technology, Inc., San Jose, Ca,
Copyright 1987 by Digital Equipment Corporation, Maynard, Massachusetts,
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name Digital not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

DIGITAL AND WYSE DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL DIGITAL OR WYSE BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1991, 1992 by Fuji Xerox Co., Ltd.
Copyright 1992, 1993, 1994 by FUJITSU LIMITED

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of Fuji Xerox,
FUJITSU LIMITED not be used in advertising or publicity pertaining
to distribution of the software without specific, written prior
permission. Fuji Xerox, FUJITSU LIMITED make no representations
about the suitability of this software for any purpose.
It is provided "as is" without express or implied warranty.

FUJI XEROX, FUJITSU LIMITED DISCLAIM ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL FUJI XEROX,
FUJITSU LIMITED BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA
OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 2006 Josh Triplett
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(c) Copyright 1996 by Sebastien Marineau and Holger Veit
<marineau@genie.uottawa.ca>
<Holger.Veit@gmd.de>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL HOLGER VEIT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Sebastien Marineau or Holger Veit shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Holger Veit or Sebastien Marineau.
Copyright 1990, 1991 by OMRON Corporation, NTT Software Corporation, and Nippon Telegraph and Telephone Corporation
Copyright 1991 by the Open Software Foundation
Copyright 1993 by the TOSHIBA Corp.
Copyright 1993, 1994 by Sony Corporation
Copyright 1993, 1994 by the FUJITSU LIMITED

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of OMRON, NTT Software, NTT, Open Software Foundation, and Sony Corporation not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. OMRON, NTT Software, NTT, Open Software Foundation, and Sony Corporation make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OMRON, NTT SOFTWARE, NTT, OPEN SOFTWARE FOUNDATION, AND SONY CORPORATION DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OMRON, NTT SOFTWARE, NTT, OPEN SOFTWARE FOUNDATION, OR SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Copyright 2000 by Bruno Haible

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Bruno Haible not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Bruno Haible makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Bruno Haible DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN
NO EVENT SHALL Bruno Haible BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright 2003 Keith Packard

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Keith Packard not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Keith Packard makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

KEITH PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL KEITH PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------

Copyright (c) 2007-2009, Troy D. Hanson
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------
Copyright 1992, 1993 by TOSHIBA Corp.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of TOSHIBA not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. TOSHIBA make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

TOSHIBA DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL TOSHIBA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------
Copyright IBM Corporation 1993

All Rights Reserved

License to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of IBM not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

IBM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS, AND NONINFRINGEMENT OF THIRD PARTY RIGHTS, IN NO EVENT SHALL IBM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright 1990, 1991 by OMRON Corporation, NTT Software Corporation, and Nippon Telegraph and Telephone Corporation

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of OMRON, NTT Software, and NTT not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. OMRON, NTT Software, and NTT make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OMRON, NTT SOFTWARE, AND NTT, DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OMRON, NTT SOFTWARE, OR NTT, BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This notice applies to the files in this directory. They are taken from the libiconv-1.1 package, which is covered by the LGPL license. The files in this directory have been placed under the following copyright, with permission from the Free Software Foundation.

Copyright (c) 1999-2000 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE FREE SOFTWARE FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Except as contained in this notice, the name of the Free Software Foundation shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the Free Software Foundation.

Notes:

1. This copyright applies only to the files in this directory, and not to the remaining files in libiconv.

2. The Free Software Foundation does not encourage the use of the above license for newly written software.

1.216 ipaddr 1.2.2
1.216.1 Available under license:

Copyright (c) 2002 Hajimu UMEMOTO <ume@mahoroba.org>
Copyright (c) 2007-2017 Akinori MUSHA <knu@iDaemons.org>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.217 authselect 1.2.2-2.el8
1.217.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program—to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.
e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.


You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.218 avahi 0.7-20.el8
1.218.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain...
special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.219 libxslt 1.1.32-6.el8
1.219.1 Available under license:
DocBk XML V3.1.7 DTD
Copyright (C) 1998, 1999 Norman Walsh
http://nwalsh.com/docbook/xml/

You may distribute this DTD under the same terms as DocBook.

Please direct all questions and comments about this DTD to
This DTD is based on the DocBook V3.1 DTD from OASIS:


Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

For more information about the DocBook DTD, see http://www.oasis-open.org/docbook/

Simplified DocBk XML V3.1.7.1 DTD
Copyright (C) 1999 Norman Walsh
http://nwalsh.com/docbook/simple/

You may distribute this DTD under the same terms as DocBook.

Please direct all questions and comments about this DTD to Norman Walsh, <ndw@nwalsh.com>.

This DTD is based on the DocBk XML DTD, which is in turn based on the DocBook V3.1 DTD from OASIS:


Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

For more information about the DocBook DTD, see http://www.oasis-open.org/docbook/
Licence for libxslt except libexslt

-------------------------------------------------------------------------------------------------------------------

Copyright (C) 2001-2002 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

-------------------------------------------------------------------------------------------------------------------

Licence for libexslt

-------------------------------------------------------------------------------------------------------------------

Copyright (C) 2001-2002 Thomas Broyer, Charlie Bozeman and Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Except as contained in this notice, the name of the authors shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from him.

Simplified DocBook XML V4.1.2.4 DTD
Copyright (C) 1999, 2000 Norman Walsh
http://nwalsh.com/docbook/simple/

You may distribute this DTD under the same terms as DocBook.

Please direct all questions and comments about this DTD to
Norman Walsh, <ndw@nwalsh.com>.

This DTD is based on the DocBook XML V4.1.2 DTD from OASIS:

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, and the Organization for the
Advancement of Structured Information Standards (OASIS).

Permission to use, copy, modify and distribute the DocBook
DTD and its accompanying documentation for any purpose and
without fee is hereby granted in perpetuity, provided that
the above copyright notice and this paragraph appear in all
copies. The copyright holders make no representation about
the suitability of the DTD for any purpose. It is provided
"as is" without expressed or implied warranty.

For more information about the DocBook DTD, see
http://www.oasis-open.org/docbook/

1.220 tpm2-tss-tcti 2.3.2-3.el8

1.220.1 Available under license :
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21009
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

1.221 webrick 1.7.0.gem.data
1.221.1 Available under license:
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.222 libappstream-glib 0.7.14 3.el8
1.222.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

# the list of licenses from http://spdx.org/licenses/ version: 3.0
  0BSD
  AAL
  Abstyles
Adobe-2006
Adobe-Glyph
ADSL
AFL-1.1
AFL-1.2
AFL-2.0
AFL-2.1
AFL-3.0
Afmparse
AGPL-1.0
AGPL-3.0-only
AGPL-3.0-or-later
Aladdin
AMDPPLPA
AML
AMPAS
ANTLR-PD
Apache-1.0
Apache-1.1
Apache-2.0
APAFML
APL-1.0
APSL-1.0
APSL-1.1
APSL-1.2
APSL-2.0
Artistic-1.0-cl8
Artistic-1.0-Perl
Artistic-1.0
Artistic-2.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
BSD-1-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-2-Clause-Patent
BSD-2-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-Warranty
BSD-3-Clause
BSD-4-Clause-UC
BSD-4-Clause
BSD-Protection
BSD-Source-Code
BSL-1.0
bzip2-1.0.5
bzip2-1.0.6
Caldera
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
CC-BY-NC-SA-3.0
CC-BY-NC-SA-4.0
CC-BY-ND-1.0
CC-BY-ND-2.0
CC-BY-ND-2.5
CC-BY-ND-3.0
CC-BY-ND-4.0
CC-BY-SA-1.0
CC-BY-SA-2.0
CC-BY-SA-2.5
CC-BY-SA-3.0
CC-BY-SA-4.0
CC0-1.0
CDDL-1.0
CDDL-1.1
CDLA-Permissive-1.0
CDLA-Sharing-1.0
CECILL-1.0
CECILL-1.1
CECILL-2.0
CECILL-2.1
CECILL-B
CECILL-C
ClArtistic
CNRI-Jython
CNRI-Python-GPL-Compatible
CNRI-Python
Condor-1.1
CPAL-1.0
CPL-1.0
CPOl-1.02
Crossword
CrystalStacker
CUA-OPL-1.0
Cube
curl
D-FSL-1.0
diffmark
DOC
Dotseqn
DSDP
dvipdfm
ECL-1.0
ECL-2.0
EFL-1.0
EFL-2.0
eGenix
Entessa
EPL-1.0
EPL-2.0
ErlPL-1.1
EUDatagrid
EUPL-1.0
EUPL-1.1
EUPL-1.2
Eurosym
Fair
Frameworx-1.0
FreeImage
FSFAP
FSFUL
FSFULLR
FTL
GFDL-1.1-only
GFDL-1.1-or-later
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3-only
GFDL-1.3-or-later
Giftware
GL2PS
Glide
Gulxe
gnuplot
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0-only
GPL-2.0-or-later
GPL-3.0-only
GPL-3.0-or-later
gSOAP-1.3b
HaskellReport
HPND
IBM-pibs
ICU
IJC
ImageMagick
iMatix
Imlib2
Info-ZIP
Intel-ACPI
Intel
Interbase-1.0
IPA
IPL-1.0
ISC
JasPer-2.0
JSON
LAL-1.2
LAL-1.3
Latex2e
Leptonica
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1-only
LGPL-2.1-or-later
LGPL-3.0-only
LGPL-3.0-or-later
LGPLLR
Libpng
libiiff
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
MakeIndex
MirOS
MIT-advertising
MIT-CMU
MIT-enna
MIT-feh
MIT
MITNFA
Motosoto
mpich2
MPL-1.0
MPL-1.1
MPL-2.0-no-copyleft-exception
MPL-2.0
MS-PL
MS-RL
MTLL
Multics
Mup
NASA-1.3
Naumen
NBPL-1.0
NCSA
Net-SNMP
NetCDF
Newsletr
NGPL
NLOD-1.0
NLPL
Nokia
NOSL
Noweb
NPL-1.0
NPL-1.1
NPOSL-3.0
NRL
NTP
OCCT-PL
OCLC-2.0
ODbL-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0.1
OLDAP-2.0
OLDAP-2.1
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OpenSSL
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
psfrag
psutils
Python-2.0
Qhull
QPL-1.0
Rdisc
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Ruby
SAX-PD
Saxpath
SCEA
Sendmail
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SimPL-2.0
SISSL-1.2
SISSL
Sleepycat
SMLNJ
SMPPL
SNIA
Spencer-86
Spencer-94
Spencer-99
SPL-1.0
SugarCRM-1.1.3
SWL
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
UPL-1.0
Vim
VOSTROM
VSL-1.0
W3C-19980720
W3C-20150513
W3C
Watcom-1.0
Wsuipe
WTFPL
X11
Xerox
XFree86-1.1
xinetd
Xnet
xpp
XSKat
YPL-1.0
YPL-1.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
zlib-acknowledgement
Zlib
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.
This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
That's all there is to it!

1.223 psacct 6.6.3 4.el8

1.223.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.
Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program’s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.
A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.
A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".
You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.224 perl-mime-base64 3.15 396.el8

1.224.1 Available under license:
No license file was found, but licenses were detected in source scan.

This package contains a base64 encoder/decoder and a quoted-printable encoder/decoder. These encoding methods are specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions).

The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

In order to install and use this package you will need Perl version 5.6 or better. Installation as usual:

perl Makefile.PL
    make
    make test
    make install

Copyright 1995-1999,2001-2004,2010 Gisle Aas <gisle@ActiveState.com>

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-
No license file was found, but licenses were detected in source scan.

---

abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author:
  - 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: MIME-Base64
no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
  perl: 5.004
resources:
  repository: https://github.com/gisle/mime-base64
version: 3.15

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPTIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION
This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The following primary functions are provided:

=over 4
=item encode_base64( $bytes )
=item encode_base64( $bytes, $eol );

Encode data by calling the encode_base64() function. The first argument is the byte string to encode. The second argument is the line-ending sequence to use. It is optional and defaults to "\n". The returned encoded string is broken into lines of no more than 76 characters each and it will end with $eol unless it is empty. Pass an empty string as second argument if you do not want the encoded string to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes contains characters with code above 255. The base64 encoding is only defined for single-byte characters. Use the Encode module to select the byte encoding you want.

=item decode_base64( $str )

Decode a base64 string by calling the decode_base64() function. This function takes a single argument which is the string to decode and returns the decoded data.

Any character not part of the 65-character base64 subset is silently ignored. Characters occurring after a '=' padding character are never decoded.

=back

If you prefer not to import these routines into your namespace, you can call them as:

use MIME::Base64 ( );
$encoded = MIME::Base64::encode($decoded);
$decoded = MIME::Base64::decode($encoded);
Additional functions not exported by default:

=over 4

=item encode_base64url( $bytes )

=item decode_base64url( $str )

Encode and decode according to the base64 scheme for "URL applications" [1]. This is a variant of the base64 encoding which does not use padding, does not break the string into multiple lines and use the characters "," and ",_" instead of "+" and "/" to avoid using reserved URL characters.

=item encoded_base64_length( $bytes )

=item encoded_base64_length( $bytes, $eol )

Returns the length that the encoded string would have without actually encoding it. This will return the same value as \C{length(encode_base64($bytes))}, but should be more efficient.

=item decoded_base64_length( $str )

Returns the length that the decoded string would have without actually decoding it. This will return the same value as \C{length(decode_base64($str))}, but should be more efficient.

=back

=head1 EXAMPLES

If you want to encode a large file, you should encode it in chunks that are a multiple of 57 bytes. This ensures that the base64 lines line up and that you do not end up with padding in the middle. 57 bytes of data fills one complete base64 line (76 == 57*4/3):

use MIME::Base64 qw(encode_base64);

open(FILE, "/var/log/wtmp") or die "S!";
while (read(FILE, $buf, 60*57)) {
    print encode_base64($buf);
}

or if you know you have enough memory

use MIME::Base64 qw(encode_base64);
local($) = undef; # slurp
print encode_base64(<STDIN>);
The same approach as a command line:

```
perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file
```

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:

```
perl -MMIME::Base64 -ne 'print decode_base64($_)' <file
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```
use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

=head1 COPYRIGHT


This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans Mulder <hansm@wsinti07.win.tue.nl>

The XS implementation uses code from metamail. Copyright 1991 Bell Communications Research, Inc. (Bellcore)

=head1 SEE ALSO

L<MIME::QuotedPrint>


=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15.tar.gz-cosi-expand-archive-Y9WxesAM/MIME-Base64-
License: (GPL+ or Artistic) and MIT

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/perl-MIME-Base64.spec

=head1 NAME

MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character (as defined by English Americans) is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

The following functions are provided:

=over 4

=item encode_qp( $str)

=item encode_qp( $str, $eol)

=item encode_qp( $str, $eol, $binmode )

This function returns an encoded version of the string ($str) given as argument.

The second argument ($eol) is the line-ending sequence to use. It is optional and defaults to "\n". Every occurrence of "\n" is replaced with this string, and it is also used for additional "soft line
breaks" to ensure that no line end up longer than 76 characters. Pass it as "015012" to produce data suitable for external consumption. The string "\n\n" produces the same result on many platforms, but not all.

The third argument ($binmode) will select binary mode if passed as a TRUE value. In binary mode "\n" will be encoded in the same way as any other non-printable character. This ensures that a decoder will end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L<MIME::Base64>.

An $eol of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.

=item decode_qp( $str )

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\n\n" terminated lines.

=back

If you prefer not to import these routines into your namespace, you can call them as:

```
use MIME::QuotedPrint ();
$encoded = MIME::QuotedPrint::encode($decoded);
$decoded = MIME::QuotedPrint::decode($encoded);
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the quoted-printable encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```
use MIME::QuotedPrint qw(encode_qp);
use Encode qw(encode);

$encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

=head1 COPYRIGHT

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

L<MIME::Base64>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15.tar.gz-cosi-expand-archive-Y9WxESAM/MIME-Base64-3.15/QuotedPrint.pm
No license file was found, but licenses were detected in source scan.

/*

Copyright 1997-2004 Gisle Aas

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

The tables and some of the code that used to be here was borrowed from metamail, which comes with this message:

Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)

Permission to use, copy, modify, and distribute this material for any purpose and without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Bellcore not be used in advertising or publicity pertaining to this material without the specific, prior written permission of an authorized representative of Bellcore.  BELLCORE MAKES NO REPRESENTATIONS ABOUT THE ACCURACY OR SUITABILITY OF THIS MATERIAL FOR ANY PURPOSE. IT IS PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15.tar.gz-cosi-expand-archive-Y9WxESAM/MIME-Base64-3.15/Base64.xs
## 1.225 ima-evm-utils 1.3.2-12.el8

### 1.225.1 Available under license:

**GNU GENERAL PUBLIC LICENSE**

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

**Preamble**

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 1.226 libxfont 7.5-40.el8

### 1.226.1 Available under license:

**Copyright 2007 Red Hat, Inc**

Copyright (c) 2008, 2009, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**Copyright (c) 1997 by Mark Leisher**

Copyright (c) 1998-2003 by Juliusz Chroboczek

Copyright (c) 1998 Go Watanabe, All rights reserved.

Copyright (c) 1998 Kazushi (Jam) Marukawa, All rights reserved.

Copyright (c) 1998 Takuya SHIOZAKI, All rights reserved.

Copyright (c) 1998 X-TrueType Server Project, All rights reserved.

Copyright (c) 2003-2004 After X-TT Project, All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 1990, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright 1989 by Digital Equipment Corporation, Maynard, Massachusetts.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1999 SuSE, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of SuSE not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. SuSE makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

SuSE DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SuSE BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1990 Network Computing Devices

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Network Computing Devices not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Network Computing Devices makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

NETWORK COMPUTING DEVICES DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL NETWORK COMPUTING DEVICES BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1990 Network Computing Devices

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of Network Computing Devices, or Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

NETWORK COMPUTING DEVICES, AND DIGITAL AND DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL NETWORK COMPUTING DEVICES, OR DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

[Note: clause 3 in the following license, the "advertising clause", was rescinded by Berkeley in 1999. See <ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change>]

Copyright (c) 1991, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:
   This product includes software developed by the University of California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS `AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1998-1999 Shunsuke Akiyama <akiyama@jp.FreeBSD.org>. All rights reserved.
Copyright (c) 1998-1999 X-TrueType Server Project, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2004 Keith Packard

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Keith Packard not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Keith Packard makes no representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

KEITH PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL KEITH PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */

Copyright (c) 1999 The XFree86 Project Inc.

All Rights Reserved.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The XFree86 Project Inc. shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The XFree86 Project Inc..

1.227 dc 1.4
1.227.1 Available under license :
No license file was found, but licenses were detected in source scan.

   // Copyright (c) 2015 DC. All rights reserved.

   Found in path(s):
   * /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift/AppDelegate.swift
   * /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift-Bridging-Header.h
Pod::Spec.new do |s|
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = "A beautiful button copy from Path®"
  s.description = <<-DESC
  DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC
  s.homepage = "https://github.com/Tangdixi/DCPathButton"
  s.license = {
    :type => 'MIT',
    :text => 'The DCPathButton use the MIT license'
  }
  s.author = { "Tangdixi" => "Tangdixi@gmail.com" }
  s.platform = :ios, '7.0'
  s.source = {
    :git => "https://github.com/Tangdixi/DCPathButton.git",
    :tag => "2.1.1"
  }
  s.source_files = 'DCPathButton/Classes/*.h,m'
  s.resources = ['DCPathButton/Sounds/*']
  s.frameworks = 'QuartzCore','AudioToolbox'
  s.requires_arc = true
end

Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift/ViewController.swift
No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

//  Copyright © 2015 Tangdixi. All rights reserved.

The MIT License (MIT)

Copyright (c) 2013 Tangdixi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
**DCPathButton** is available under the MIT license. See the LICENSE file for more info.

Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/README.md
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Pods/DCPathButton/README.md

No license file was found, but licenses were detected in source scan.

<string>The DCPathButton use the MIT license</string>

Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist

No license file was found, but licenses were detected in source scan.

# Acknowledgements
This application makes use of the following third party libraries:

## DCPathButton

The DCPathButton use the MIT license

Generated by CocoaPods - http://cocoapods.org

Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.markdown

No license file was found, but licenses were detected in source scan.

// Copyright (c) 2014 Tangdxi. All rights reserved.

Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Example/viewController.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Example/viewController.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Example/AppDelegate.h
1.228 realmd 0.16.3-22.el8
1.228.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specialty designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.229 blktrace 1.2.0 10.el8

1.229.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.230 libmpc 1.1.0-9.1.el8

1.230.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
@ The GNU Free Documentation License.
@ Version 1.3, 3 November 2008

@ This file is intended to be included within another document,
@ hence no sectioning command or @node.

@display
@ Uref{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document free in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section...
of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.
The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work’s title, preceding the beginning of the body of the text.

The `publisher` means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item

COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

- For any section Entitled ‘`Acknowledgements’’ or ‘`Dedications’’, Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

- Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

- Delete any section Entitled ‘`Endorsements’’. Such a section may not be included in the Modified Version.

- Do not retitle any existing section to be Entitled ‘`Endorsements’’ or to conflict in title with any Invariant Section.

- Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ‘`Endorsements’’, provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.
The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.
``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year}  @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.231 threading-building-blocks 2018.2-9.el8.x86_64

1.231.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NONINFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.232 groff 1.22.3 18.el8

1.232.1 Available under license:

- *- text -*

AUTHOR

-------

Peter Schaffter (peter@schaffter.ca)
3-355 Lafontaine Ave
Vanier (ON) CANADA
K1L 6X6

================================================================================

The groff macro file om.tmac and the html documentation pertaining to it are Copyright (C) 2004-2014 Peter Schaffter.

om.tmac is issued under the GNU General Public License, a full copy of which can be had at

http://www.gnu.org/licenses/gpl.html

The html documentation pertaining to om.tmac is issued under the GNU Free Documentation License, a full copy of which can be had at

http://www.gnu.org/copyleft/fdl.html

================================================================================

GNU Free Documentation License
Version 1.3, 3 November 2008

<http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.
If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.
I. Preserve the section Entitled "History", Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled "History" in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.
J. Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the "History" section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.
K. For any section Entitled "Acknowledgements" or "Dedications",
Preserve the Title of the section, and preserve in the section all
the substance and tone of each of the contributor acknowledgements
and/or dedications given therein.
L. Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.
M. Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.
N. Do not retitle any existing section to be Entitled "Endorsements"
or to conflict in title with any Invariant Section.
O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various
parties--for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.
7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multi-author Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.
If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

The GNU Free Documentation License.
Version 1.3, 3 November 2008

This file is intended to be included within another document,
hence no sectioning command or @node.

display
uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

display

enumerate 0
item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document free in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft”, which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The `Document`, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as `you`. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version`` of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section`` is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections`` are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts`` are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent`` copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount
of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS
You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version fulfilling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled "History" in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the "History" section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.

@item
Do not retile any existing section to be Entitled "Endorsements" or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various
parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an “aggregate” if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled “Acknowledgements”,
“Dedications”, or “History”, the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
@item

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Copyright 2003-2014 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification,
are permitted in any medium without royalty provided the copyright
notice and this notice are preserved.

LICENSES
--------

The groff program is a free software project. It is licensed under the GNU
General Public License (GNU GPL), version 3 or later.

The file COPYING in the top directory of the groff source package contains a
copy of the GPL that was downloaded from the GNU web site

All files part of groff are licensed under this version of the GPL (or
licenses which are compatible with the GPL). You are free to choose
The GPL, version 3 or any subsequent version of the GPL.

The GPL names an address where you can get the actual version by normal post. Further information is found in the internet at http://www.gnu.org/copyleft.

The groff program is a GNU package, and the copyright of all files of the groff source package which are under the GPL has been assigned to the Free Software Foundation (FSF). Information on GNU and FSF is found at http://www.fsf.org/.

Here a list of files which are distributed with groff but which aren't part of it (this is, they either have a non-GPL license, or the copyright hasn't been assigned to the FSF).

Source Files
-------------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

    http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <barr@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
Macro Packages

--------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
  src/devices/xditview/GXditview.ad
  src/devices/xditview/Menu.h
  src/devices/xditview/ad2c
  src/devices/xditview/device.c
  src/devices/xditview/device.h
  src/devices/xditview/draw.c
  src/devices/xditview/font.c
  src/devices/xditview/gray1.bm
  src/devices/xditview/gray2.bm
  src/devices/xditview/gray3.bm
  src/devices/xditview/gray4.bm
  src/devices/xditview/gray5.bm
  src/devices/xditview/gray6.bm
  src/devices/xditview/gray7.bm
  src/devices/xditview/gray8.bm
  src/devices/xditview/gxditview.man
  src/devices/xditview/lex.c
  src/devices/xditview/page.c
  src/devices/xditview/parse.c
  src/devices/xditview/xdit.bm
  src/devices/xditview/xdit_mask.bm
  src/devices/xditview/xditview.c

  src/include/DviChar.h
  src/include/XFontName.h

  src/libs/libxutil/DviChar.c
  src/libs/libxutil/XFontName.c
Hyphenation Patterns
---------------------

The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

See the file itself for a copyright notice.

The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

The patterns have been converted to a format groff can understand.

See the file itself for a copyright notice.

The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex

See the file itself for a copyright notice.

The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

The patterns have been converted to a format groff can understand.
See the files themselves for a copyright notice.

. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at


See the file itself for a copyright notice.

. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive


The patterns have been converted to a format groff can understand.

See the file itself for a copyright notice.

EOF

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.
Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

   a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

   b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.
If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21159
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).
However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.
You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
even if such holder or other party has been advised of the possibility of
such damages.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.233 findutils 4.6.0 20.el8
1.233.1 Available under license:

GNU GENERAL PUBLIC LICENSE
   Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:
a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.
"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

@c The GNU Free Documentation License.
@c Version 1.3, 3 November 2008
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.
The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, \LaTeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.
A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.
If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document.
unaltered in their text and in their titles. Section numbers 
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section 
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or 
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or 
appendices that qualify as Secondary Sections and contain no material 
copied from the Document, you may at your option designate some or all 
of these sections as invariant. To do this, add their titles to the 
list of Invariant Sections in the Modified Version's license notice. 
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains 
nothing but endorsements of your Modified Version by various 
parties---for example, statements of peer review or that the text has 
been approved by an organization as the authoritative definition of a 
standard.

You may add a passage of up to five words as a Front-Cover Text, and a 
passage of up to 25 words as a Back-Cover Text, to the end of the list 
of Cover Texts in the Modified Version. Only one passage of 
Front-Cover Text and one of Back-Cover Text may be added by (or 
through arrangements made by) any one entity. If the Document already 
includes a cover text for the same cover, previously added by you or 
by arrangement made by the same entity you are acting on behalf of, 
you may not add another; but you may replace the old one, on explicit 
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License 
give permission to use their names for publicity for or to assert or 
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this 
License, under the terms defined in section 4 above for modified 
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'',
``Dedications'', or ``History'', the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.
Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RE LICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.
An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```
\begin{verbatim}
\begin{verbatim}
\textcopyright \var{year} \\text{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
\end{verbatim}
\end{verbatim}
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with\ldots Texts.$$@: line with this:

```
\begin{verbatim}
\begin{verbatim}
\text{with the Invariant Sections being \var{list their titles}, with the Front-Cover Texts being \var{list}, and with the Back-Cover Texts being \var{list}.}
\end{verbatim}
\end{verbatim}
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.234 urllib3 1.26.6
1.234.1 Available under license :
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.235 libatomic-ops 7.6.2-3.el8
1.235.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide...
a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this license. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along  
with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:

     Gnomovision version 69, Copyright (C) year name of author  
     Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
     This is free software, and you are welcome to redistribute it  
     under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

     Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
     `Gnomovision' (which makes passes at compilers) written by James Hacker.

     <signature of Ty Coon>, 1 April 1989
     Ty Coon, President of Vice

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

   Gnomovision version 69, Copyright (C) year name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it
   under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in the program
   `Gnomovision' (which makes passes at compilers) written by James Hacker.

   <signature of Ty Coon>, 1 April 1989
   Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
The MD5 Message-Digest Algorithm

Network Working Group  R. Rivest
Request for Comments: 1321  MIT Laboratory for Computer Science
and RSA Data Security, Inc.
April 1992

Status of this Memo
This memo provides information for the Internet community. It does not specify an Internet standard. Distribution of this memo is unlimited.

Acknowledgements

We would like to thank Don Coppersmith, Burt Kaliski, Ralph Merkle, David Chaum, and Noam Nisan for numerous helpful comments and suggestions.

Table of Contents

1. Executive Summary 1
2. Terminology and Notation 2
3. MD5 Algorithm Description 3
4. Summary 6
5. Differences Between MD4 and MD5 6
References 7
APPENDIX A - Reference Implementation 7
Security Considerations 21
Author's Address 21

1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.

Rivest

RFC 1321 MD5 Message-Digest Algorithm April 1992

The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution
tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm [1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

\[
\text{md5 OBJECT IDENTIFIER ::= }
\text{iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5}
\]

In the X.509 type AlgorithmIdentifier [3], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.

Let \( x_i \) denote "x sub i". If the subscript is an expression, we surround it in braces, as in \( x_{[i+1]} \). Similarly, we use ^ for superscripts (exponentiation), so that \( x^i \) denotes x to the i-th power.

Let the symbol "+" denote addition of words (i.e., modulo-2^32 addition). Let \( X<<<s \) denote the 32-bit value obtained by circularly shifting (rotating) X left by s bit positions. Let not(X) denote the bit-wise complement of X, and let \( X \lor Y \) denote the bit-wise OR of X and Y. Let \( X \land Y \) denote the bit-wise AND of X and Y.
3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that we wish to find its message digest. Here b is an arbitrary nonnegative integer; b may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the message written down as follows:

\[ m_0 \ m_1 \ \ldots \ m_{b-1} \]

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of b (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that b is greater than \(2^{64}\), then only the low-order 64 bits of b are used. (These bits are appended as two 32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let \(M[0 \ \ldots \ N-1]\) denote the words of the resulting message, where N is a multiple of 16.

3.3 Step 3. Initialize MD Buffer
A four-word buffer (A,B,C,D) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):

word A: 01 23 45 67
word B: 89 ab cd ef
word C: fe dc ba 98
word D: 76 54 32 10

3.4 Step 4. Process Message in 16-Word Blocks

We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

\[
\begin{align*}
F(X,Y,Z) &= XY \lor \neg(X) Z \\
G(X,Y,Z) &= XZ \lor Y \neg(Z) \\
H(X,Y,Z) &= X \oplus Y \oplus Z \\
I(X,Y,Z) &= Y \oplus (X \lor \neg(Z))
\end{align*}
\]

In each bit position F acts as a conditional: if X then Y else Z. The function F could have been defined using + instead of v since XY and not(X)Z will never have 1's in the same bit position.) It is interesting to note that if the bits of X, Y, and Z are independent and unbiased, the each bit of F(X,Y,Z) will be independent and unbiased.

The functions G, H, and I are similar to the function F, in that they act in "bitwise parallel" to produce their output from the bits of X, Y, and Z, in such a manner that if the corresponding bits of X, Y, and Z are independent and unbiased, then each bit of G(X,Y,Z), H(X,Y,Z), and I(X,Y,Z) will be independent and unbiased. Note that the function H is the bit-wise "xor" or "parity" function of its inputs.

This step uses a 64-element table T[1 ... 64] constructed from the sine function. Let T[i] denote the i-th element of the table, which is equal to the integer part of 4294967296 times abs(sin(i)), where i is in radians. The elements of the table are given in the appendix.
Do the following:

/* Process each 16-word block. */
For i = 0 to N/16-1 do

/* Copy block i into X. */
For j = 0 to 15 do
    Set X[j] to M[i*16+j].
end /* of loop on j */

/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A
BB = B
CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  0  7  1] [DABC  1 12  2] [CDAB  2 17  3] [BCDA  3 22  4]
[ABCD  4  7  5] [DABC  5 12  6] [CDAB  6 17  7] [BCDA  7 22  8]
[ABCD  8  7  9] [DABC  9 12 10] [CDAB 10 17 11] [BCDA 11 22 12]
[ABCD 12  7 13] [DABC 13 12 14] [CDAB 14 17 15] [BCDA 15 22 16]

/* Round 2. */
/* Let [abcd k s] denote the operation
   a = b + ((a + G(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  1  5 17] [DABC  6  9 18] [CDAB 11 14 19] [BCDA  0 20 20]
[ABCD  5  5 21] [DABC 10  9 22] [CDAB 15 14 23] [BCDA  4 20 24]
[ABCD  9  5 25] [DABC 14  9 26] [CDAB  3 14 27] [BCDA  8 20 28]
[ABCD 13  5 29] [DABC  2  9 30] [CDAB  7 14 31] [BCDA 12 20 32]

/* Round 3. */
/* Let [abcd k s] denote the operation
   a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  5  4 33] [DABC  8 11 34] [CDAB 11 16 35] [BCDA 14 23 36]
/* Round 4. */
/* Let [abcd k s t] denote the operation
   a = b + ((a + I(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  0  6 49]  [DABC  7 10 50]  [CDAB 14 15 51]  [BCDA  5 21 52]
[ABCD 12  6 53]  [DABC  3 10 54]  [CDAB 10 15 55]  [BCDA  1 21 56]
[ABCD  8  6 57]  [DABC 15 10 58]  [CDAB  6 15 59]  [BCDA 13 21 60]
[ABCD  4  6 61]  [DABC 11 10 62]  [CDAB  2 15 63]  [BCDA  9 21 64]

/* Then perform the following additions. (That is, increment each
of the four registers by the value it had before this block
was started.) */
A = A + AA
B = B + BB
C = C + CC
D = D + DD

end /* of loop on i */
relatively new algorithm and further security analysis is of course justified, as is the case with any new proposal of this sort.

5. Differences Between MD4 and MD5

The following are the differences between MD4 and MD5:

1. A fourth round has been added.

2. Each step now has a unique additive constant.

3. The function g in round 2 was changed from \(XY \lor XZ \lor YZ\) to \(XZ \lor Y \\neg(Z)\) to make g less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.

References


APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

- global.h -- global header file
- md5.h -- header file for MD5
- md5c.c -- source code for MD5

For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

- mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different platforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on “little-endian” platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

/* GLOBAL.H - RSAREF types and constants */

/* PROTOTYPES should be set to one if and only if the compiler supports function argument prototyping. 
The following makes PROTOTYPES default to 0 if it has not already been defined with C compiler flags. */
#ifndef PROTOTYPES
#define PROTOTYPES 0
#endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above. 
If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it 
returns an empty list. */
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All 
rights reserved. 
License to copy and use this software is granted provided that it 
is identified as the "RSA Data Security, Inc. MD5 Message-Digest 
Algorithm" in all material mentioning or referencing this software 
or this function. 
License is also granted to make and use derivative works provided 
that such works are identified as "derived from the RSA Data 
Security, Inc. MD5 Message-Digest Algorithm" in all material 
mentioning or referencing the derived work. 
RSA Data Security, Inc. makes no representations concerning either 
the merchantability of this software or the suitability of this 
software for any particular purpose. It is provided "as is" 
without express or implied warranty of any kind. */
These notices must be retained in any copies of any part of this documentation and/or software.
*/

/* MD5 context. */
typedef struct {
    UINT4 state[4]; /* state (ABCD) */
    UINT4 count[2]; /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

void MD5Init PROTO LIST ((MD5_CTX *));
void MD5Update PROTO LIST ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO LIST ((unsigned char [16], MD5_CTX *));

A.3 md5c.c

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.
*/
#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine. */

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST ((unsigned char *, UINT4 *, unsigned int));
static void Decode PROTO_LIST ((UINT4 *, unsigned char *, unsigned int));
static void MD5_memcpy PROTO_LIST ((POINTER, POINTER, unsigned int));
static void MD5_memset PROTO_LIST ((POINTER, int, unsigned int));

static unsigned char PADDING[64] = {
    0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4. Rotation is separate from addition to prevent recomputation. */
#define FF(a, b, c, d, x, s, ac) { (a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); (a) = ROTATE_LEFT ((a), (s)); (a) += (b); }
#define GG(a, b, c, d, x, s, ac) { (a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); (a) = ROTATE_LEFT ((a), (s)); (a) += (b); }
#define HH(a, b, c, d, x, s, ac) { (a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); (a) = ROTATE_LEFT ((a), (s)); (a) += (b); }
#define II(a, b, c, d, x, s, ac) { (a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); (a) = ROTATE_LEFT ((a), (s)); (a) += (b); }

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
void MD5Init (context)
MD5_CTX *context; /* context */
{
    context->count[0] = context->count[1] = 0;
    /* Load magic initialization constants. */
}
context->state[0] = 0x67452301;
context->state[1] = 0xefcdab89;
context->state[2] = 0x98badcfe;
context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
void MD5Update (context, input, inputLen)
    MD5_CTX *context;                                        /* context */
    unsigned char *input;                                /* input block */
    unsigned int inputLen;                     /* length of input block */
{
    unsigned int i, index, partLen;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3))
        < ((UINT4)inputLen << 3))
        context->count[1]++;  
        context->count[1] += ((UINT4)inputLen >> 29);

    partLen = 64 - index;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        MD5_memcpy
            ((POINTER)&context->buffer[index], (POINTER)input, partLen);
                MD5Transform (context->state, context->buffer);
            for (i = partLen; i + 63 < inputLen; i += 64)
                MD5Transform (context->state, &input[i]);

        index = 0;
    }
else
i = 0;

/* Buffer remaining input */
MD5_memcpy
((POINTER)&context->buffer[index], (POINTER)&input[i],
inputLen-i);
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the
the message digest and zeroizing the context. */
void MD5Final (digest, context)
unsigned char digest[16]; /* message digest */
MD5_CTX *context; /* context */
{
unsigned char bits[8];
unsigned int index, padLen;

/* Save number of bits */
Encode (bits, context->count, 8);

/* Pad out to 56 mod 64. */
index = (unsigned int)((context->count[0] >> 3) & 0x3f);
padLen = (index < 56) ? (56 - index) : (120 - index);
MD5Update (context, PADDING, padLen);

/* Append length (before padding) */
MD5Update (context, bits, 8);

Rivest

RFC 1321 MD5 Message-Digest Algorithm April 1992

/* Store state in digest */
Encode (digest, context->state, 16);

/* Zeroize sensitive information. */
MD5_memcpy ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

    Decode (x, block, 64);

    /* Round 1 */
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 0x1bdceeec); /* 4 */
    FF (a, b, c, d, x[ 4], S11, 0x5f87a98d); /* 5 */
    FF (d, a, b, c, x[ 5], S12, 0x2431d887); /* 6 */
    FF (c, d, a, b, x[ 6], S13, 0x8b27de65); /* 7 */
    FF (b, c, d, a, x[ 7], S14, 0x62771cd9); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x92805771); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0xe6f672a9); /* 10 */
    FF (c, d, a, b, x[10], S13, 0x64706269); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x84785d81); /* 12 */
    FF (a, b, c, d, x[12], S11, 0x402c3b6c); /* 13 */
    FF (d, a, b, c, x[13], S12, 0xa33f9804); /* 14 */
    FF (c, d, a, b, x[14], S13, 0x47b54818); /* 15 */
    FF (b, c, d, a, x[15], S14, 0x84785d81); /* 16 */

    /* Round 2 */
    GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
    GG (d, a, b, c, x[ 6], S22, 0x04c341f); /* 18 */
    GG (c, d, a, b, x[11], S23, 0x327f64d); /* 19 */
    GG (b, c, d, a, x[ 0], S24, 0x58371d2); /* 20 */
    GG (a, b, c, d, x[ 5], S21, 0x9d0c2de); /* 21 */
    GG (d, a, b, c, x[10], S22, 0x3251f0); /* 22 */
    GG (c, d, a, b, x[15], S23, 0x02549bc); /* 23 */
    GG (b, c, d, a, x[ 4], S24, 0x7c85c70); /* 24 */
    GG (a, b, c, d, x[ 9], S21, 0xe579996); /* 25 */
    GG (d, a, b, c, x[14], S22, 0x330f6c0); /* 26 */
    GG (c, d, a, b, x[ 3], S23, 0x47b54818); /* 27 */

    Rivest
    [Page 13]

    RFC 1321         MD5 Message-Digest Algorithm        April 1992

    GG (b, c, d, a, x[ 8], S24, 0x055a14ed); /* 28 */
    GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21222

GG (d, a, b, c, x[2], S22, 0xfcea3f8); /* 30 */
GG (c, d, a, b, x[7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
HH (a, b, c, d, x[5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfd6580e); /* 36 */
HH (a, b, c, d, x[1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[7], S33, 0xf6b8b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbebfc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[0], S32, 0xea127fa); /* 42 */
HH (c, d, a, b, x[3], S33, 0xd4e3085); /* 43 */
HH (b, c, d, a, x[6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[9], S31, 0x9d9d6d39); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[3], S42, 0x8f0xcc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xeff47d); /* 55 */
II (b, c, d, a, x[1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0xe2e6e0); /* 58 */
II (c, d, a, b, x[6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xe0811a1); /* 60 */
II (a, b, c, d, x[4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xbd3af235); /* 62 */
II (c, d, a, b, x[2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information. */
MD5_memset ((POINTER)x, 0, sizeof (x));
}

/* Encodes input (UINT4) into output (unsigned char). Assumes len is a multiple of 4. */
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j] = (unsigned char)(input[i] & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is a multiple of 4. */
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4)
    output[i] = ((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) | (((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
}

/* Note: Replace "for loop" with standard memcpy if possible. */
static void MD5_memcpy (output, input, len)
POINTER output;
POINT input;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)

Rivest

RFC 1321 MD5 Message-Digest Algorithm April 1992

output[i] = input[i];
}

/* Note: Replace "for loop" with standard memset if possible. */

static void MD5_memset (output, value, len)
POINTER output;
int value;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
((char *)output)[i] = (char)value;
}

A.4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */

/* Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All rights reserved. 

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software. */

/* The following makes MD default to MD5 if it has not already been
defined with C compiler flags.

 ifndef MD
 define MD MD5
 endif

 include <stdio.h>
 include <time.h>
 include <string.h>
 include "global.h"
 if MD == 2
 include "md2.h"
 endif
 if MD == 4

 Rivest

 RFC 1321 MD5 Message-Digest Algorithm April 1992

 include "md4.h"
 endif
 if MD == 5
 include "md5.h"
 endif

 /* Length of test block, number of test blocks.
 */
 define TEST_BLOCK_LEN 1000
 define TEST_BLOCK_COUNT 1000

 static void MDString PROTO_LIST ((char *));
 static void MDTimeTypeTrial PROTO_LIST ((void));
 static void MDTesTestSuite PROTO_LIST ((void));
 static void MDfile PROTO_LIST ((char *));
 static void MDfilter PROTO_LIST ((void));
 static void MDPrint PROTO_LIST ((unsigned char [16]));

 if MD == 2
 define MD_CTX MD2_CTX
 define MDInit MD2Init
 define MDUpdate MD2Update
 define MDFinal MD2Final
 endif
 if MD == 4
 define MD_CTX MD4_CTX

/* Main driver.

Arguments (may be any combination):
-ssstring - digests string
-t       - runs time trial
-x       - runs test script
filename - digests file
(none)   - digests standard input
*/

int main (argc, argv)
int argc;

Rivest

RFC 1321 MD5 Message-Digest Algorithm April 1992

char *argv[];
{
int i;

if (argc > 1)
for (i = 1; i < argc; i++)
if (argv[i][0] == '-' && argv[i][1] == 's')
    MDString (argv[i] + 2);
else if (strcmp (argv[i], "-t") == 0)
    MDTimeTrial ()
else if (strcmp (argv[i], "-x") == 0)
    MDTestSuite ()
else
    MDFile (argv[i])
else
    MDFilter ();

return (0);
/* Digests a string and prints the result. */
static void MDString (string)
char *string;
{
    MD_CTX context;
    unsigned char digest[16];
    unsigned int len = strlen (string);

    MDInit (&context);
    MDUpdate (&context, string, len);
    MDFinal (digest, &context);

    printf ("MD%d ("%s") = ", MD, string);
    MDPrint (digest);
    printf ("u");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte blocks. */
static void MDTimeTrial ()
{
    MD_CTX context;
    time_t endTime, startTime;
    unsigned char block[TEST_BLOCK_LEN], digest[16];
    unsigned int i;

    printf ("MD%d time trial. Digesting %d %d-byte blocks ...", MD, TEST_BLOCK_LEN, TEST_BLOCK_COUNT);
    /* Initialize block */
    for (i = 0; i < TEST_BLOCK_LEN; i++)
        block[i] = (unsigned char)(i & 0xff);
    /* Start timer */
    time (&startTime);

    printf ("MD%d time trial. Digesting %d %d-byte blocks ...", MD, TEST_BLOCK_LEN, TEST_BLOCK_COUNT);
/* Digest blocks */
MDInit (&context);
for (i = 0; i < TEST_BLOCK_COUNT; i++)
MDUpdate (&context, block, TEST_BLOCK_LEN);
MDFinal (digest, &context);

/* Stop timer */
time (&endTime);

printf (" done\n");
printf ("Digest = ");
MDPrint (digest);
printf ("\nTime = %ld seconds\n", (long)(endTime-startTime));
printf ("\nSpeed = %ld bytes/second\n",
(long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));
}

/* Digests a reference suite of strings and prints the results. */
static void MDTestSuite ()
{
printf ("MD%d test suite:\n", MD);

MDString (" ");
MDString ("a");
MDString ("abc");
MDString ("message digest");
MDString ("abcdefghijklmnopqrstuvwxyz");
MDString ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
}

/* Digests a file and prints the result. */

/*
Rivest [Page 19]

RFC 1321 MD5 Message-Digest Algorithm April 1992
*/
static void MDFile (filename)
char *filename;
{
FILE *file;
MD_CTX context;
int len;
unsigned char buffer[1024], digest[16];

if ((file = fopen (filename, "rb")) == NULL)
printf ("%s can't be opened\n", filename);
else {
MDInit (&context);
while (len = fread (buffer, 1, 1024, file))
    MDUpdate (&context, buffer, len);
MDFinal (digest, &context);

fclose (file);

printf ("MD%d (%s) = ", MD, filename);
MDPrint (digest);
printf ("\n");
}
}

/* Digests the standard input and prints the result. */
static void MDFilter ()
{
MD_CTX context;
int len;
unsigned char buffer[16], digest[16];

MDInit (&context);
while (len = fread (buffer, 1, 16, stdin))
    MDUpdate (&context, buffer, len);
MDFinal (digest, &context);

MDPrint (digest);
printf ("\n");
}

/* Prints a message digest in hexadecimal. */
static void MDPrint (digest)
unsigned char digest[16];
{

}
unsigned int i;

for (i = 0; i < 16; i++)
printf ("%02x", digest[i]);
}

A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 9001509833c24526561e083e16a396
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496cca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
  d174ab98d277d9f5a5611c2c9f419d9f
MD5 ("1234567890123456789012345678901234567890123456789012345678901234567890") =
  57edf4a22be3c955ac49da2e2107b67a

Security Considerations

The level of security discussed in this memo is considered to be sufficient for implementing very high security hybrid digital-signature schemes based on MD5 and a public-key cryptosystem.

Author's Address

Ronald L. Rivest
Massachusetts Institute of Technology
Laboratory for Computer Science
NE43-324
545 Technology Square
Cambridge, MA  02139-1986

Phone: (617) 253-5880
EMail: rivest@theory.lcs.mit.edu
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/rfc1321.txt

No license file was found, but licenses were detected in source scan.

=head1 NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

=head1 DESCRIPTION

The C<Digest::MD5> module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest, but it is probably wise to move to stronger algorithms for applications that depend on the digest to uniquely identify a message.

The C<Digest::MD5> module provide a procedural interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

=head1 FUNCTIONS

The following functions are provided by the C<Digest::MD5> module. None of these functions are exported by default.

=over 4

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item md5_base64($data,...)

Same as md5(), but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

Note that the base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the redundant string "==" to the result.

=back

=head1 METHODS
The object oriented interface to `Digest::MD5` is described in this section. After a `Digest::MD5` object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

=over 4
=item $md5 = Digest::MD5->new

The constructor returns a new `Digest::MD5` object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. `$md5->new`) it will just reset the state the object to the state of a newly created object. No new object is created in this case.

=item $md5->reset

This is just an alias for `$md5->new`.

=item $md5->clone

This a copy of the `$md5` object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

```perl
my $md5 = Digest::MD5->new;
while (<>) {
  $md5->add($_);
  print "Line $.: ", $md5->clone->hexdigest, "\n";
}
```

=item $md5->add($data,...)

The $data provided as argument are appended to the message we calculate the digest for. The return value is the `$md5` object itself.

All these lines will have the same effect on the state of the `$md5` object:

```perl
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b")->add("c");
$md5->add("a", "b", "c");
$md5->add("abc");
```
=item $md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the message we calculate the digest for. The return value is the $md5 object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $md5 object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $md5 object if this occurs.

In most cases you want to make sure that the $io_handle is in C<binmode> before you pass it as argument to the addfile() method.

=item $md5->add_bits($data, $nbits)

=item $md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as multiples of 8, so you probably want to just use add() instead. The add_bits() method is provided for compatibility with other digest implementations. See L<Digest> for description of the arguments that add_bits() take.

=item $md5->digest

Return the binary digest for the message. The returned string will be 16 bytes long.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the C<Digest::MD5> object is automatically C<reset> and can be used to calculate another digest value. Call $md5->clone->digest if you want to calculate the digest without resetting the digest state.

=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest

Same as $md5->digest, but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+'
The base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the string "==" to the result.

```
=item @ctx = $md5->context

=item $md5->context(@ctx)
```

Saves or restores the internal state. When called with no arguments, returns a 3-element list: number of blocks processed, a 16-byte internal state buffer, then up to 63 bytes of unprocessed data. When passed those same arguments, restores the state. This is only useful for specialised operations.

```
=back
```

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex() function (or one of its cousins):

```
use Digest::MD5 qw(md5_hex);
print "Digest is ", md5_hex("foobarbaz"), "\n";
```

The above example would print out the message:

Digest is 6df23dc03f9b54cc38a0fc1483df6e21

The same checksum can also be calculated in OO style:

```
use Digest::MD5;

$md5 = Digest::MD5->new;
$md5->add('foo', 'bar');
$md5->add('baz');
$digest = $md5->hexdigest;

print "Digest is $digest\n";
```

With OO style, you can break the message arbitrarily. This means that we are no longer limited to have space for the whole message in memory, i.e. we can handle messages of any size.

This is useful when calculating checksum for files:
use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binnmode($fh);

$md5 = Digest::MD5->new;
while (<$fh>) {
    $md5->add($_);
}
close($fh);
print $md5->b64digest, " $filename\n";

Or we can use the addfile method for more efficient reading of
the file:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binnmode ($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";

Since the MD5 algorithm is only defined for strings of bytes, it can not be
used on strings that contains chars with ordinal number above 255 (Unicode
strings). The MD5 functions and methods will croak if you try to feed them
such input data:

use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}";
print md5_hex($str), "\n";  # croaks
# Wide character in subroutine entry

What you can do is calculate the MD5 checksum of the UTF-8
representation of such strings. This is achieved by filtering the
string through encode_utf8() function:

use Digest::MD5 qw(md5_hex);
use Encode qw(encode_utf8);

my $str = "abc\x{300}";
print md5_hex(encode_utf8($str)), "\n";
# 8c2d46911f3f5a326455f0ed7a8ed3b3

=head1 SEE ALSO
L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>

L<md5sum(1)>

RFC 1321


The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang
and Hongbo Yu.

=head1 COPYRIGHT

This library is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Copyright 1998-2003 Gisle Aas.

The MD5 algorithm is defined in RFC 1321. This implementation is
derived from the reference C code in RFC 1321 which is covered by
the following copyright statement:

=over 4

=item

Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
rights reserved.

License to copy and use this software is granted provided that it
is identified as the "RSA Data Security, Inc. MD5 Message-Digest
Algorithm" in all material mentioning or referencing this software
or this function.

License is also granted to make and use derivative works provided
that such works are identified as "derived from the RSA Data
Security, Inc. MD5 Message-Digest Algorithm" in all material
mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either
the merchantability of this software or the suitability of this
software for any particular purpose. It is provided "as is"
without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

=head1 AUTHORS

The original C<MD5> interface was written by Neil Winton
(C<N.Winton@axion.bt.co.uk>).

The C<Digest::MD5> module is written by Gisle Aas <gisle@ActiveState.com>.

=cut

The Digest::MD5 module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. MD5 is described in RFC 1321.

Copyright 1998-2000 Gisle Aas.
Copyright 1990-1992 RSA Data Security, Inc.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

No license file was found, but licenses were detected in source scan.

/*
 * This library is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 */

* Copyright 1998-2000 Gisle Aas.
*
* This code is derived from Neil Winton's MD5-1.7 Perl module, which in
* turn is derived from the reference implementation in RFC 1321 which
* comes with this message:
*
* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
* rights reserved.
*
* License to copy and use this software is granted provided that it
* is identified as the "RSA Data Security, Inc. MD5 Message-Digest
* Algorithm" in all material mentioning or referencing this software
* or this function.
*
* License is also granted to make and use derivative works provided
* that such works are identified as "derived from the RSA Data
* Security, Inc. MD5 Message-Digest Algorithm" in all material
* mentioning or referencing the derived work.
*
* RSA Data Security, Inc. makes no representations concerning either
* the merchantability of this software or the suitability of this
* software for any particular purpose. It is provided "as is"
* without express or implied warranty of any kind.
*
* These notices must be retained in any copies of any part of this
* documentation and/or software.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/MD5.xs

No license file was found, but licenses were detected in source scan.

License: (GPL+ or Artistic) and BSD

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/perl-Digest-MD5.spec

1.237 at 3.1.20 11.el8
1.237.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the deferred
execution scheduler called at.

This package was debianized by its author Thomas Koenig
In August 2009 the upstream development and Debian packaging were taken over by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

In August 2015 the upstream development and Debian packaging were taken over by Jose M Calhariz <jose@calhariz.com>

This may be considered the experimental upstream source, and since there doesn’t seem to be any other upstream source, the only upstream source.

1993 (c) David Parsons
2002, 2005 (c) Ryan Murray

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

The files posixtm.c and posixtm.h have the following copyright information:


This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

parsetime.pl:

Copyright (C) 2009, Ansgar Burchardt <ansgar@debian.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL'.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.238 libndp 1.7-5.el8
1.238.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.239.1 Available under license:

No license file was found, but licenses were detected in source scan.

:license: BSD, see LICENSE for details.

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

No license file was found, but licenses were detected in source scan.

```python
from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '(\[^']*)'" , io.open(path.join(path.dirname(__file__), 'webencodings', '__init__.py'), encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
    ],
)```
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.6',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
},
packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
No license file was found, but licenses were detected in source scan.

```python

webencodings.mklebels
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

:copyright: Copyright 2012 by Simon Sapin
:license: BSD, see LICENSE for details.

```
Map encoding labels to their name.

:copyright: Copyright 2012 by Simon Sapin
:license: BSD, see LICENSE for details.

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    ]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

encoding labels
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like \``Content-Type: text/html; charset=latin1``
, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, \``US-ASCII`` and \``iso-8859-1`` on the web are actually aliases for \``windows-1252`` , and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

python-webencodings

=================================
This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1``,

tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1.tar-gz/webencodings-0.5.1/README.rst

---

1.240 perl-socket 2.027 3.el8
1.240.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

   b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

   d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

   a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

   b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.
8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than 'show w' and 'show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

The "Artistic License"
Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
This code was extracted from the Perl 5 core at perl 5.15.5.

The original licence reads as follows:
-----

This program is free software; you can redistribute it and/or modify it under the terms of either:

a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version, or

b) the "Artistic License" which comes with this Kit.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See either the GNU General Public License or the Artistic License for more details.
You should have received a copy of the Artistic License with this Kit, in the file named "Artistic". If not, I'll be glad to provide one.

You should also have received a copy of the GNU General Public License along with this program in the file named "Copying". If not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA or visit their web page on the internet at http://www.gnu.org/copyleft/gpl.html.

1.241 setup 2.12.2-6.el8

1.241.1 Available under license :
Setup package is public domain.

You are free to use, copy, distribute or modify included files without restrictions.

1.242 libgd 2.2.5-7.el8

1.242.1 Notifications :
This software is based in part on the work of the Independent JPEG Group.

1.242.2 Available under license :
Credits and license terms:

In order to resolve any possible confusion regarding the authorship of gd, the following copyright statement covers all of the authors who have required such a statement. If you are aware of any oversights in this copyright notice, please contact Pierre-A. Joye who will be pleased to correct them.


* Portions relating to GIF compression copyright 1989 by Jef Poskanzer and David Rowley, with modifications for thread safety by Thomas Boutell.


* Portions relating to GIF animations copyright 2004 Jaakko Hyvätti (jaakko.hyvatti@iki.fi)

Permission has been granted to copy, distribute and modify gd in any context without fee, including a commercial application, provided that this notice is present in user-accessible supporting documentation.

This does not affect your ownership of the derived work itself, and the intent is to assure proper credit for the authors of gd, not to interfere with your productive use of gd. If you have questions, ask. "Derived works" includes all programs that utilize the library. Credit must be given in user-accessible documentation.

This software is provided "AS IS." The copyright holders disclaim all warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to this code and accompanying documentation.

Although their code does not appear in the current release, the authors wish to thank David Koblas, David Rowley, and Hutchison Avenue Software Corporation for their prior contributions.
1.243 libarchive 3.3.3-1.el8

1.243.1 Available under license:

The libarchive distribution as a whole is Copyright by Tim Kientzle and is subject to the copyright notice reproduced at the bottom of this file.

Each individual file in this distribution should have a clear copyright/licensing statement at the beginning of the file. If any do not, please let me know and I will rectify it. The following is intended to summarize the copyright status of the individual files; the actual statements in the files are controlling.

* Except as listed below, all C sources (including .c and .h files) and documentation files are subject to the copyright notice reproduced at the bottom of this file.

* The following source files are also subject in whole or in part to a 3-clause UC Regents copyright; please read the individual source files for details:
  libarchive/archive_entry.c
  libarchive/archive_read_support_filter_compress.c
  libarchive/archive_write_add_filter_compress.c
  libarchive/ntree.5

* The following source files are in the public domain:
  libarchive/archive_getdate.c

* The following source files are triple-licensed with the ability to choose from CC0 1.0 Universal, OpenSSL or Apache 2.0 licenses:
  libarchive/archive_blake2.h
  libarchive/archive_blake2_impl.h
  libarchive/archive_blake2s_ref.c
  libarchive/archive_blake2sp_ref.c

* The build files---including Makefiles, configure scripts, and auxiliary scripts used as part of the compile process---have widely varying licensing terms. Please check individual files before distributing them to see if those restrictions apply to you.

I intend for all new source code to use the license below and hope over time to replace code with other licenses with new implementations that do use the license below. The varying licensing of the build scripts seems to be an unavoidable mess.
Copyright (c) 2003-2018 <author(s)>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer in this position and unchanged.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.244 msgp v1.1.0

1.244.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015 Rainer Gerhards

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------------------------

Copyright (c) 2009-2012 Eric Haszlakiewicz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------------------------
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.246 tree 1.7.0 15.el8
1.246.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.247 perl-sys-syslog 0.35-397.el8
1.247.1 Available under license :
No license file was found, but licenses were detected in source scan.

Revision history for Sys-Syslog

0.35 -- 2016-09-01 -- Sebastien Aperghis-Tramoni (SAPER)

[Security]
- CPAN RT #116543: CVE-2016-1238: avoid loading optional modules from default . (Tony Cook). Patch rewrote to no longer depend upon @INC.

[Documentation]
- openlog() options; mention the version of Sys::Syslog they were added.
- Update HISTORY.
- Update some broken links.
[Distribution]
- Converted the Changes file to CPAN::Changes::Spec format.
- Improved a bit the readability of the ticket numbers.

[Tests]
- GitHub PR #4: use lexical instead of global filehandles (Alex Balhatchet).

0.34 -- 2016-05-06 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #105117: use %e where available, fall back to %d and a regexp where not (Markus Laker).
- CPAN RT #105152: the noeol option was ignored (Markus Laker).
- CPAN RT #98446: trailing new line with perror (Alexander Bluhm).
- CPAN RT #90538: facility from openlog() is not used (Anton Yuzhaninov).

[Portability]
- CPAN RT #104710: loadable library and perl binaries are mismatched, because of missing CCFLAGS (CHORNY, KMX).
- No longer inheriting from Exporter doesn't work before Perl 5.8.3.
- CPAN RT #90212: Support non-Windows platforms where syslog.h is not defined (Brian Fraser).
- CPAN RT #90224: setlocale() is not available everywhere, for example on Android (Brian Fraser).
- CPAN RT #90218: getproto*() and getserv*() functions are not available everywhere (Brian Fraser).

[Documentation]
- CPAN RT #102058: mention the repository in the documentation.

0.33 -- 2013-05-24 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #82531: Invalid usage of POSIX::_exit (Alexander Berger).

[Optimizations]
- No longer inherit from Exporter.
- Load Fcntl only when necessary.

[Documentation]
- Add links to other logging modules.
- CPAN RT #80398: Typo spotted by alfirth@gmail.com
- Typo spotted by David Steinbrunner.

[Tests]
- CPAN RT #79683: Added delays in t/facilities-routing.t (Jerome Quelin).

0.32 -- 2012-09-14 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #69040: Don't modify @_ in syslog().
- Restore compatibility with Perl 5.6.0.

[Documentation]
- Perl RT #81858: Fix some spelling errors (Peter J. Acklam).

0.31 -- 2012-08-18 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Level 'emerg' could not be used since v0.29.
- Setting a message facility with syslog() was broken since v0.29
  (Noel Butler).
- CPAN RT #69992: Make setlogsock() only use the requested mechanism,
  restoring way it worked in v0.27 and before (Niko Tyni).
- CPAN RT #69986: setlogsock() doesn't return undef on failure (Niko Tyni).
- CPAN RT #69997: Use the default UDP socket timeout on GNU/kFreeBSD as well,
  and lower it to a more sensible value (Niko Tyni).
- CPAN RT #75827: syslog() logging everything regardless of log mask when
  using using numeric LOG_* macros (Bryan Thale).

[Documentation]
- Don't highlight "the Rules of Sys::Syslog" from the Description.

[Tests]
- Added t/facilities-routing.t

[Distribution]
- Add meta-information in Makefile.PL

0.30 -- 2012-08-15 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #69310: Avoid a POSIX::strftime issue on Windows (Michael Ludwig).
- CPAN RT #77577: Build on Haiku-OS (Tony Cook).
- CPAN RT #77578: Silence a compilation warning (Tony Cook).
- CPAN RT #78044: Don't call getservbyname() when the port is specified
  (Chan Wilson).

[Tests]
- t/syslog.t no longer needs to chdir under PERL_CORE.
0.29 -- 2011-04-18 -- Sebastien Aperghis-Tramoni (SAPER) #PerlQA2011

[Bugfixes]
- CPAN RT #55215: Sys::Syslog might call exit which triggers DESTROY (Alexander Berger).
- CPAN RT #55151: Allow temporary facility with native mechanism (Tim Jenkins).
- CPAN RT #50928: Convert Win32 files to Unix EOLs (Steve Hay).
- CPAN RT #50534: Unwanted space at the end of syslog message (Eugene V. Lyubimkin).
- CPAN RT #49877: Options not reset after closelog() (Herbert Brezina).
- CPAN RT #48386: Add Win32::EventLog as a prerequisite (kmx and Laurent Dami).

[New features]
- CPAN RT #50534: Added options noeol and nonul.

[Distribution]
- Set INSTALLDIRS to "site" when installed on Perl 5.11+

0.28 -- 2011-04-16 -- Sebastien Aperghis-Tramoni (SAPER) #PerlQA2011

[Bugfixes]
- CPAN RT #56084: Reset connection tracking vars (Vladimir Marek).
- CPAN RT #56826: Avoid memory corruption when closelog() is called twice (Andreas Jaekel).
- CPAN RT #64287: Make strftime() Windows-compatible (Dave Stafford).

[New features]
- New API for setlogsock(), in order to allow the setting of new options.
  Thanks to Jake Scott for the idea.

[Portability]
- CPAN RT #44410: Provide fallback macros in Syslog.xs in order to compile on Novell Netware.

[Internal changes]
- Modify can_load() so it can print the warnings if desired.

[Tests]
- In blead, the distribution was moved from ext/Sys/Syslog to ext/Sys-Syslog.
  t/constantst.t had to be fixed (Vincent Pit).
- CPAN RT #53317: In core, Sys-Syslog was moved to cpan/, thus making t/constantst.t unable to find macros.all (David Mitchell).
- CPAN RT #64716: Skip t/data-validation.t if the available version of POE::Component::Server::Syslog is too old.
[Distribution]
- Bleadperl no longer require an empty MAN3PODS (Nicholas Clark).
- Removed unneeded modules in Makefile.PL (Nicholas Clark).

[Documentation]
- Recreated Sys::Syslog history from the unified git repository.
- Added a section to list the matching Perl and Sys::Syslog version.
- CPAN RT #49859: Removed a dead link (Leon Brocard).

0.27 -- 2008-09-21 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Fixed compilation on Win32, thanks to Serguei Trouchelle. Also added stubs so calling the XS functions will never fail.

[Tests]
- t/pod.t now also uses Pod::Checker.

0.26 -- 2008-06-16 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Make Sys::Syslog works with Perl 5.10.0 (because of ExtUtils::Constant::ProxySubs).

[Internal changes]
- setlogsock() is now a little more strict about its arguments.

0.25 -- 2008-05-17 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #34691: Fixed an incorrect call to sysopen() which prevented Sys::Syslog from working on some Solaris systems. Thanks to Paul Townsend.
- CPAN RT #34753: Fixed a slowness introduced in v0.19 (which was to work around OSX syslog own slowness). Thanks to Alex Efros.
- CPAN RT #35952: Fixed a bug with the "nofatal" option.
- CPAN RT #35189: Fixed a bug in xlate().
- Fixed build on Win32, thanks to Adam Kennedy.

[New features]
- setlogsock() now interprets the second argument as the hostname for network mechanisms.

[Tests]
- Improved t/pod.t with Pod::Checker.
[Distribution]
- Add AUTHOR to WriteMakefile() in order to fix the META.yml generated by ExtUtils::MakeMaker.

0.24 -- 2007-12-31 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #32001: Skip the setlogsock('stream') tests when /dev/log is unavailable (Brendan O'Dea).

0.23 -- 2007-11-12 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Fixed a too liberal test in the "pipe" mechanism, thanks to Jan Dubois.

[Tests]
- Better handling of Perl 5.005, thanks to CPAN Tester Slaven Rezic.

[Distribution]
- fallback/syslog.h was missing from MANIFEST (thanks to CPAN Tester Matthew Musgrove).

0.22 -- 2007-11-08 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #29875: Added workaround SpamAssassin overzealous logging features.

[New features]
- Added support for PERROR option.
- Support for SYSLOG on z/OS, thanks to Chun Bing Ge.

[Internal changes]
- Prevent $@ from being visible outside the module, in trying to address the problem reported in CPAN RT #29875.

[Documentation]
- CPAN RT #29451: Add Copyright notice. Thanks to Allison Randal for her advice.
- New speaking about Win32 API instead of Win32 operating system.

0.21 -- 2007-09-14 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- setlogsock(eventlog) returned true even when it shouldn't have.
- CPAN RT #24431: Added workaround for Mac OS X syslogd.

[New features]
- Added "pipe" mechanism in order to support HP-UX named pipe. Thanks to H.Merijn Brand and PROCURA.

[Internal changes]
- Sys::Syslog works again on Perl 5.005, thanks to Nicholas Clark.

0.20 -- 2007-09-05 -- Sebastien Aperghis-Tramoni (SAPER)

[Documentation]
- Added README.win32 which was missing in MANIFEST.

0.19 -- 2007-09-05 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #20635: Fix tests to avoid problems related to the "stream" mechanism which occured on Debian and Cygwin.
- CPAN RT #20780: Facility could not be temporarily changed. Also fixes the syslog() before openlog() bug.
- CPAN RT #21333: Makefile.PL now creates a typemap for Perl 5.6.1
- CPAN RT #21516: disconnect_log() now correctly calls closelog_xs().
- CPAN RT #21866: Silence warnings in openlog().
- CPAN RT #25488: Silence warnings in disconnect_log(). via syslog().
- Rewrote the constants generation code in order to provide fallback value for non-standard macros.
- Mark Blackman and Edmund von der Burg identified and fixed the random failures appearing on OSX, caused by a UDP timeout.

[New features]
- Added Win32 event log support thanks to Yves Orton.
- Added new macros from modern BSD and IRIX.
- Each non-standard macro now fall backs to a standard macro.

[Internal changes]
- Merged changes from Jerry D. Hedden to use ppport.h only when not built from core distribution (blead@30657).

[Tests]
- t/syslog.t now generates a more detailed TAP output.
- Merged change blead@29176: suppress taint mode from t/constants.t
- Added regression tests for CPAN RT #21866 and #25488.

[Documentation]
- CPAN RT #26097: man pages were not installed.
- Added the Sys::Syslog Rules.
- Added example script eg/syslog.pl

0.18 -- 2006-08-28 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Rewrote the way the default identifiant is constructed.

[Tests]
- CPAN RT #20946: Removed the console mechanism from the main test loop because writing to the console hangs on several systems.

[Documentation]
- Added a note discouraging the use of setlogsock().

0.17 -- 2006-07-23 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #20622, #20164: Fixed path handling in connect_unix().

[Internal changes]
- Renamed some variables ($that is not a valid name), and removed some dead code.
- Actually added the macros from Mac OS X that were announced in the 0.14 version.

[Documentation]
- CPAN RT #20545: Rewrote the documentation about setlogsock().

0.16 -- 2006-06-20 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Perl RT #20557: Save errno before trying to connect.

[New features]
- Perl RT #35406: Applied the patch proposed by Keisuke Hirata for a more lax handling of "stream" or "unix" path.
- Now try the "native" mechanism first.

[Tests]
- Silence warnings generated by t/syslog.t in Perl 5.8.8 and later.

[Documentation]
- Added documentation about the "native" mechanism.
- Now indicates whether tickets are from CPAN or Perl RT.
0.15 -- 2006-06-10 -- Sebastien Aperghis-Tramoni (SAPER)

[New features]
- CPAN RT #17316: Added a "nofatal" option to openlog().
- Sys::Syslog warnings can now be controlled by the warnings category of the same name.
- Added support for using the native C syslog(3) functions.

[Internal changes]
- Removed most "our" variables.
- Improved readability by removing cargo-cult brackets and parentheses.

0.14 -- 2006-05-25 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #19259, #17518: Now allowing all levels and facilities.

[Internal changes]
- Removed useless "&".
- Improved readability by adding empty lines and reworking the code here and there.
- Added new macros from Mac OS X.

[Tests]
- Added more tests in order to increase coverage.

[Documentation]
- CPAN RT #19085: Corrected errors in the documentation for setlogmask().
- Added several links to online manual pages, RFCs and articles.
- Corrected minor things in Changes.

0.13 -- 2006-01-11 -- Sebastien Aperghis-Tramoni (SAPER)

[Internal changes]
- Applied Gisle Aas' patch for a better handling of error messages, then optimized it.
- Merged bleed@26768: If getservbyname fails tell what service the lookup attempt tried to use.
- Merged bleed@26769: suppress Sys::Hostname usage and directly use INADDR_LOOPBACK.
- Merged bleed@26772: Shost needs to stay in case the user sets it.
- Merged bleed@26773: check that $syslog_path is a socket.

[Test]
- CPAN RT #16980: Sys::Syslog blows up rather spectacularly on Solaris. Corrected by previous patches.
- CPAN RT #16974: Failed test in t/podspell. This test is now skipped.

0.12 -- 2006-01-07 -- Sebastien Aperghis-Tramoni (SAPER)

[Documentation]
- Added a link to an article about Sys::Syslog.

[Tests]
- Merged some modifications from bleadperl.
- Removed optional dependency on Test::Exception.
- Improved t/constant.t
- Rewrote t/constants.t because future versions of ExtUtils::Constant will prevent the constant() function from being directly called.

0.11 -- 2005-12-28 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- setlogmask() now behaves like its C counterpart.

[New features]
- Can now export and use the macros.
- Support for three Exporter tags.
- XSLoader is now optional.

[Internal changes]
- No longer "use"s Sys::Hostname as it was "require"d where needed.
- CPAN RT #16604: Use local timestamp.

[Distribution]
- Merged blead@26343: Fix realclean target.

[Documentation]
- Improved documentation.

[Tests]
- Added more tests to t/syslog.t in order to increase code coverage.

0.10 -- 2005-12-08 -- Sebastien Aperghis-Tramoni (SAPER)

[Documentation]
- Improved documentation.

[Tests]
- Added -T to t/syslog.t
- Added t/constants.t to check the macros.
- Added t/distchk.t, t/podspell.t, t/podcover.t, t/portfs.t

0.09 -- 2005-12-06 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Escape percent signs in error message when interpolating %m
  (Ronald J. Kimball).

[Internal changes]
- Now setlogsock() really croak(), as documented.

[Distribution]
- CPANized from blead@26281.
- Modified Makefile.PL so that ExtUtils::Constant is conditionally used,
  with a fallback in the case it's not available.
- Bumped version to 0.09

[Documentation]
- Added support and license information.

[Tests]
- Rewrote and ported t/syslog.t to Test::More

0.08 -- 2005-12-03

[New features]
- syslog() can now accept a message without printf() escapes and arguments
  (Gisle Aas).

[Documentation]
- Document that openlog() might die (Rafael Garcia-Suarez).

0.07 -- 2005-06-27

[Internal changes]
- Use XSLoader instead of DynaLoader (Alexey Tourbin).

[Documentation]
- Shows the correct way to use syslog() (Dave Mitchell).

0.06 -- 2004-12-14
[New features]
- Allow escaping %m as %%m in Sys::Syslog format strings (Rafael Garcia-Suarez, suggested by Joshua Richardson and Yitzchak Scott-Thoennes).

[Internal changes]
- Make Sys::Syslog stricture-compliant (Rafael Garcia-Suarez).

[Documentation]
- Document $Sys::Syslog::host (Jay Hannah).

0.05 -- 2004-04-06

[New features]
- IRIX wants setlogsock("stream") (Jarkko Hietaniemi).
- Allow syslog() to use numeric constants in addition to strings for facility names and priorities (Jim Schneider).

[Documentation]
- Remind users to always use openlog() (Jarkko Hietaniemi).

0.04 -- 2003-08-13

[Bugfixes]
- Do not use "udp" on some platforms (Slaven Rezic).
- Perl RT #18180: Fixed a problem with Sys::Syslog on Solaris 8 with perl 5.8.0 (Joost van Baal).
- Fixed some warnings (Jarkko Hietaniemi).
- Better error messages (Jari Aalto).

0.03 -- 2002-03-23

[Bugfixes]
- Fixed copious warnings from Sys::Syslog (Andreas Knig).

[New features]
- Failover to different communication modes by Nick Williams.

0.02 -- 2001-06-04

[Bugfixes]
- /dev/console may not be writable in Syslog.pm (Ask Bjoern Hansen).
- Fixed for accidental arguments to autoloaded constants (Gurusamy Sarathy).
- Make _PATH_LOG() return "" if not available (Gurusamy Sarathy).
- Forked child may not exit correctly if it failed to open /dev/console
(Graham Barr).
- More checking in case someone has broken their services or protocol
databases (Robert Spier).
- xlate() doesn't handle LOG_EMERG (Mark J. Reed).

[Internal changes]
- Code for constant()s regenerated by Nicholas Clark.

[Tests]
- Added syslog.t to check if Sys::Syslog works (Tom Hughes).

0.01 -- 2000-02-04 -- Gurusamy Sarathy

[New features]
- Sys::Syslog now uses XSUBs to access facilities from syslog.h so it no
  longer requires syslog.ph to exist. Thanks to Tom Hughes. As a consequence,
  Sys::Syslog moved from lib/ to ext/.

perl 5.004_03 -- 1997-09-05 -- Tim Bunce

[Bugfixes]
- Handle missing _PATH_LOG (Ulrich Pfeifer).

perl 5.004_02 -- 1997-08-07 -- Tim Bunce

[New features]
- UNIX domain sockets support, by Sean Robinson and Tim Bunce.

perl 5.004_01 -- 1997-06-11 -- Tim Bunce

[Bugfixes]
- Allows FQDN (even allowing ".").

perl 5.004 -- 1997-05-15 -- Chip Salzenberg

[Bugfixes]
- Fixed $whoami calculation (Marc Rouleau).
- Allows hyphens in hostnames (Jerome Abela).

perl 5.003_01 -- 1996-06-18 -- Charles Bailey

[Internal changes]
- Moved call to hostname() into connect() function, and eliminated domain suffix.

[Documentation]
- Correct documentation for calling sequence of syslog() function.

perl 5.002_01 -- 1996-03-25 -- Charles Bailey

[Internal changes]
- Use Sys::Hostname::hostname() only when necessary.

perl 5.002 -- 1996-02-29 -- Larry Wall

[Internal changes]
- Use constants from Socket.pm (Andy Dougherty).
- Connect to the name given by Sys::Hostname::hostname() instead of "localhost" (Andy Dougherty).

[Documentation]
- Added documentation, thanks to Hallvard B Furuseth.

perl 5.000 -- 1994-10-17 -- Larry Wall

[Distribution]
- Converted from lib/syslog.pl to lib/Sys/Syslog.pm

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/Changes
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interface to the UNIX syslog(3) calls'
author:
  - 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
=head1 NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

=head1 VERSION

This is the documentation of version 0.35

=head1 SYNOPSIS

use Sys::Syslog;                        # all except setlogsock()
use Sys::Syslog qw(:standard :macros);  # standard functions & macros

openlog($ident, $logopt, $facility);    # don't forget this
syslog($priority, $format, @args);
$oldmask = setlogmask($mask_priority);
closelog();

=head1 DESCRIPTION

C<Sys::Syslog> is an interface to the UNIX C<syslog(3)> program.
Call C<syslog()>, with a string priority and a list of C<printf()> args
just like C<syslog(3)>. 

=head1 EXPORTS

C<Sys::Syslog> exports the following C<Exporter> tags:

=over 4

=item *

C<:standard> exports the standard C<syslog(3)> functions:

openlog closelog setlogmask syslog

=item *

C<:extended> exports the Perl specific functions for C<syslog(3)>:

setlogsock

=item *

C<:macros> exports the symbols corresponding to most of your C<syslog(3)> macros and the C<LOG_UPTO()> and C<LOG_MASK()> functions. See L<"CONSTANTS"> for the supported constants and their meaning.

=back

By default, C<Sys::Syslog> exports the symbols from the C<:standard> tag.

=head1 FUNCTIONS

=over 4

=item B<openlog($ident, $logopt, $facility)>)

Opens the syslog.

C<$ident> is prepended to every message. C<$logopt> contains zero or more of the options detailed below. C<$facility> specifies the part of the system to report about, for example C<LOG_USER> or C<LOG_LOCAL0>: see L<"Facilities"> for a list of well-known facilities, and your C<syslog(3)> documentation for the facilities available in your system.

Check L<"SEE ALSO"> for useful links. Facility can be given as a string or a numeric macro.

This function will croak if it can't connect to the syslog daemon.
Note that `openlog()` now takes three arguments, just like `openlog(3)`.

`You should use openlog() before calling syslog().`

**Options**

- over 4
- *

C<cons> - This option is ignored, since the failover mechanism will drop down to the console automatically if all other media fail.

- *

C<ndelay> - Open the connection immediately (normally, the connection is opened when the first message is logged).

- *

C<noeol> - When set to true, no end of line character (C\n) will be appended to the message. This can be useful for some syslog daemons. Added in C<Sys::Syslog> 0.29.

- *

C<nofatal> - When set to true, C<openlog()> and C<syslog()> will only emit warnings instead of dying if the connection to the syslog can't be established. Added in C<Sys::Syslog> 0.15.

- *

C<nonul> - When set to true, no C<NUL> character (C\0) will be appended to the message. This can be useful for some syslog daemons. Added in C<Sys::Syslog> 0.29.

- *

C<nowait> - Don't wait for child processes that may have been created while logging the message. (The GNU C library does not create a child process, so this option has no effect on Linux.)

- *

C<perror> - Write the message to standard error output as well to the system log. Added in C<Sys::Syslog> 0.22.
C<pid> - Include PID with each message.

=back

B<Examples>

Open the syslog with options C<ndelay> and C<pid>, and with facility C<LOCAL0>:

    openlog($name, "ndelay,pid", "local0");

Same thing, but this time using the macro corresponding to C<LOCAL0>:

    openlog($name, "ndelay,pid", LOG_LOCAL0);

=item B<syslog($priority, $message)>

=item B<syslog($priority, $format, @args)>

If C<$priority> permits, logs C$message> or C<sprintf($format, @args)> with the addition that C<%m> in $message or C$format> is replaced with C"$!" (the latest error message).

C<$priority> can specify a level, or a level and a facility. Levels and facilities can be given as strings or as macros. When using the C<eventlog> mechanism, priorities C<DEBUG> and C/INFO> are mapped to event type C<informational>, C<NOTICE> and C<WARNING> to C<warning> and C<ERR> to C<EMERG> to C<error>.

If you didn't use C<openlog()> before using C<syslog()>, C<syslog()> will try to guess the C<$ident> by extracting the shortest prefix of C$format> that ends in a C";".

B<Examples>

# informational level
syslog("info", $message);
syslog(LOG_INFO, $message);

# information level, Local0 facility
syslog("info|local0", $message);
syslog(LOG_INFO|LOG_LOCAL0, $message);

=over 4

=item B<Note>
C<Sys::Syslog> version v0.07 and older passed the C<$message> as the formatting string to C<sprintf()> even when no formatting arguments were provided. If the code calling C.syslog()> might execute with older versions of this module, make sure to call the function as C.syslog($priority, "%s", $message)> instead of C.syslog($priority, $message)>. This protects against hostile formatting sequences that might show up if $message contains tainted data.

=back

=item B<setlogmask($mask_priority)>

Sets the log mask for the current process to C<$mask_priority> and returns the old mask. If the mask argument is 0, the current log mask is not modified. See L<"Levels"> for the list of available levels. You can use the C<LOG_UPTO()> function to allow all levels up to a given priority (but it only accept the numeric macros as arguments).

B<Examples>

Only log errors:

   setlogmask( LOG_MASK(LOG_ERR) );

Log everything except informational messages:

   setlogmask( ~(LOG_MASK(LOG_INFO)) );

Log critical messages, errors and warnings:

   setlogmask( LOG_MASK(LOG_CRIT) |
   LOG_MASK(LOG_ERR) |
   LOG_MASK(LOG_WARNING) );

Log all messages up to debug:

   setlogmask( LOG_UPTO(LOG_DEBUG) );

=item B<setlogsock()>

Sets the socket type and options to be used for the next call to C<openlog()> or C<syslog()>. Returns true on success, C<undef> on failure.

Being Perl-specific, this function has evolved along time. It can currently be called as follow:
The available options are:

- **type** - equivalent to **sock_type**, selects the socket type (or "mechanism"). An array reference can be passed to specify several mechanisms to try, in the given order.

- **path** - equivalent to **stream_location**, sets the stream location. Defaults to standard Unix location, or **_PATH_LOG**.

- **timeout** - equivalent to **sock_timeout**, sets the socket timeout in seconds. Defaults to 0 on all systems except **Mac OS X** where it is set to 0.25 sec.

- **host** - sets the hostname to send the messages to. Defaults to the local host.
C<port> - sets the TCP or UDP port to connect to. Defaults to the first standard syslog port available on the system.

=back

The available mechanisms are:

=over

=item *

C<"native"> - use the native C functions from your C<syslog(3)> library (added in C<Sys::Syslog> 0.15).

=item *

C<"eventlog"> - send messages to the Win32 events logger (Win32 only; added in C<Sys::Syslog> 0.19).

=item *

C<"tcp"> - connect to a TCP socket, on the C<syslog/tcp> or C<syslogng/tcp> service. See also the C<host>, C<port> and C<timeout> options.

=item *

C<"udp"> - connect to a UDP socket, on the C<syslog/udp> service. See also the C<host>, C<port> and C<timeout> options.

=item *

C<"inet"> - connect to an INET socket, either TCP or UDP, tried in that order. See also the C<host>, C<port> and C<timeout> options.

=item *

C<"unix"> - connect to a UNIX domain socket (in some systems a character special device). The name of that socket is given by the C<path> option or, if omitted, the value returned by the C<_PATH_LOG> macro (if your system defines it), F</dev/log> or F</dev/conslog>, whichever is writable.

=item *

C<"stream"> - connect to the stream indicated by the C<path> option, or, if omitted, the value returned by the C<_PATH_LOG> macro (if your system defines it), F</dev/log> or F</dev/conslog>, whichever is writable. For
example Solaris and IRIX system may prefer C"stream" instead of C"unix".

=item *

C"pipe" - connect to the named pipe indicated by the C<path> option,
or, if omitted, to the value returned by the C$_PATH_LOG$ macro (if your
system defines it), or F</dev/log> (added in C<Sys::Syslog> 0.21).
HP-UX is a system which uses such a named pipe.

=item *

C"console" - send messages directly to the console, as for the C"cons"
option of C<openlog>().

=back

The default is to try C<native>, C<tcp>, C<udp>, C< unix>, C<pipe>, C<stream>,
C<console>.
Under systems with the Win32 API, C<eventlog> will be added as the first
mechanism to try if C<Win32::EventLog> is available.

Giving an invalid value for C<$sock_type> will C<croak>.

B<Examples>

Select the UDP socket mechanism:

  setlogsock("udp");

Send messages using the TCP socket mechanism on a custom port:

  setlogsock( { type => "tcp", port => 2486 });

Send messages to a remote host using the TCP socket mechanism:

  setlogsock( { type => "tcp", host => $loghost });

Try the native, UDP socket then UNIX domain socket mechanisms:

  setlogsock(["native", "udp", "unix"]);

=over

=item B<Note>

Now that the "native" mechanism is supported by C<Sys::Syslog> and selected
by default, the use of the C<setlogsock()> function is discouraged because
other mechanisms are less portable across operating systems. Authors of
modules and programs that use this function, especially its cargo-cult form
C<setlogsock("unix")>, are advised to remove any occurrence of it unless they
specifically want to use a given mechanism (like TCP or UDP to connect to
a remote host).

=back

=item B<closelog()>

Closes the log file and returns true on success.

=back

=head1 THE RULES OF SYS::SYSLOG

I<The First Rule of Sys::Syslog is:>
You do not call C<setlogsock>.

I<The Second Rule of Sys::Syslog is:>
You B<do not> call C<setlogsock>.

I<The Third Rule of Sys::Syslog is:>
The program crashes, C<die>s, calls C<closelog>, the log is over.

I<The Fourth Rule of Sys::Syslog is:>
One facility, one priority.

I<The Fifth Rule of Sys::Syslog is:>
One log at a time.

I<The Sixth Rule of Sys::Syslog is:>
No C<syslog> before C<openlog>.

I<The Seventh Rule of Sys::Syslog is:>
Logs will go on as long as they have to.

I<The Eighth, and Final Rule of Sys::Syslog is:>
If this is your first use of Sys::Syslog, you must read the doc.

=head1 EXAMPLES

An example:

    openlog($program, 'cons,pid', 'user');
    syslog('info', '%s', 'this is another test');
    syslog('mail|warning', 'this is a better test: %d', time);
closelog();

syslog('debug', 'this is the last test');

Another example:

openlog("$program $$", 'ndelay', 'user');
syslog('notice', 'fooprogram: this is really done');

Example of use of C<%m>:

$! = 55;
syslog('info', 'problem was %m');  # %m == $! in syslog(3)

Log to UDP port on C<$remotehost> instead of logging locally:

setlogsock("udp", $remotehost);
openlog($program, 'ndelay', 'user');
syslog('info', 'something happened over here');

=head1 CONSTANTS

=head2 Facilities

=over 4

=item *

C<LOG_AUDIT> - audit daemon (IRIX); falls back to C<LOG_AUTH>

=item *

C<LOG_AUTH> - security/authorization messages

=item *

C<LOG_AUTHPRIV> - security/authorization messages (private)

=item *

C<LOG_CONSOLE> - C</dev/console> output (FreeBSD); falls back to C<LOG_USER>

=item *

C<LOG_CRON> - clock daemons (B<cron> and B<at>)

=item *
C<LOG_DAEMON> - system daemons without separate facility value

C<LOG_FTP> - FTP daemon

C<LOG_KERN> - kernel messages

C<LOG_INSTALL> - installer subsystem (Mac OS X); falls back to C<LOG_USER>

C<LOG_LAUNCHD> - launchd - general bootstrap daemon (Mac OS X); falls back to C<LOG_DAEMON>

C<LOG_LFMT> - logalert facility; falls back to C<LOG_USER>

C<LOG_LOCAL0> through C<LOG_LOCAL7> - reserved for local use

C<LOG_LPR> - line printer subsystem

C<LOG_MAIL> - mail subsystem

C<LOG_NETINFO> - NetInfo subsystem (Mac OS X); falls back to C<LOG_DAEMON>

C<LOG_NEWS> - USENET news subsystem

C<LOG_NTP> - NTP subsystem (FreeBSD, NetBSD); falls back to C<LOG_DAEMON>
C<LOG_RAS> - Remote Access Service (VPN / PPP) (Mac OS X);
falls back to C<LOG_AUTH>

C<LOG_REMOTEAUTH> - remote authentication/authorization (Mac OS X);
falls back to C<LOG_AUTH>

C<LOG_SECURITY> - security subsystems (firewalling, etc.) (FreeBSD);
falls back to C<LOG_AUTH>

C<LOG_SYSLOG> - messages generated internally by B<syslogd>

C<LOG_USER> (default) - generic user-level messages

C<LOG_UUCP> - UUCP subsystem

C<LOG_EMERG> - system is unusable

C<LOG_ALERT> - action must be taken immediately

C<LOG_CRIT> - critical conditions
C<LOG_ERR> - error conditions

=item *

C<LOG_WARNING> - warning conditions

=item *

C<LOG_NOTICE> - normal, but significant, condition

=item *

C<LOG_INFO> - informational message

=item *

C<LOG_DEBUG> - debug-level message

=back

=head1 DIAGNOSTICS

=over

=item C<Invalid argument passed to setlogsock>

B<(F)> You gave C<setlogsock()> an invalid value for C<$sock_type>.

=item C<eventlog passed to setlogsock, but no Win32 API available>

B<(W)> You asked C<setlogsock()> to use the Win32 event logger but the operating system running the program isn't Win32 or does not provides Win32 compatible facilities.

=item C<no connection to syslog available>

B<(F)> C<syslog()> failed to connect to the specified socket.

=item C<stream passed to setlogsock, but %s is not writable>

B<(W)> You asked C<setlogsock()> to use a stream socket, but the given path is not writable.

=item C<stream passed to setlogsock, but could not find any device>

B<(W)> You asked C<setlogsock()> to use a stream socket, but didn't provide a path, and C<Sys::Syslog> was unable to find an appropriate one.
B<(W)> You asked C<setlogsock()> to use a TCP socket, but the service is not available on the system.

B<(F)> You forgot to give C<syslog()> the indicated argument.

B<(F)> You specified an invalid level or facility.

B<(F)> You specified too many levels.

B<(F)> You specified too many facilities.

B<(F)> You forgot to specify a level.

B<(W)> You asked C<setlogsock()> to use a UDP socket, but the service is not available on the system.

B<(W)> You asked C<setlogsock()> to use a UNIX socket, but C<Sys::Syslog> was unable to find an appropriate device.

=head1 HISTORY

C<Sys::Syslog> is a core module, part of the standard Perl distribution since 1990. At this time, modules as we know them didn't exist, the Perl library was a collection of F<.pl> files, and the one for sending syslog messages was simply F<lib/syslog.pl>, included with Perl 3.0. It was converted as a module with Perl 5.0, but had a version number only starting with Perl 5.6. Here is a small table with the matching Perl and C<Sys::Syslog> versions.
Sys::Syslog     Perl

-----------     ----
undef        5.0.0 ~ 5.5.4
0.01         5.6.*
0.03         5.8.0
0.04         5.8.1, 5.8.2, 5.8.3
0.05         5.8.4, 5.8.5, 5.8.6
0.06         5.8.7
0.13         5.8.8
0.22         5.10.0
0.27         5.8.9, 5.10.1 ~ 5.14.*
0.29         5.16.*
0.32         5.18.*
0.33         5.20.*
0.33         5.22.*

=head1 SEE ALSO

=head2 Other modules

L<Log::Log4perl> - Perl implementation of the Log4j API

L<Log::Dispatch> - Dispatches messages to one or more outputs

L<Log::Report> - Report a problem, with exceptions and language support

=head2 Manual Pages

L<syslog(3)>

SUSv3 issue 6, IEEE Std 1003.1, 2004 edition,
L<http://www.opengroup.org/onlinepubs/000095399/basedefs/syslog.h.html>

GNU C Library documentation on syslog,

FreeBSD documentation on syslog,
L<https://www.freebsd.org/cgi/man.cgi?query=syslog>

Solaris 11 documentation on syslog,
L<https://docs.oracle.com/cd/E53394_01/html/E54766/syslog-3c.html>

Mac OS X documentation on syslog,

IRIX documentation on syslog,

AIX 5L 5.3 documentation on syslog,

HP-UX 11i documentation on syslog,
L<http://docs.hp.com/en/B2355-60130/syslog.3C.html>

Tru64 documentation on syslog,
L<http://nixdoc.net/man-pages/Tru64/man3/syslog.3.html>

Stratus VOS 15.1,

=head2 RFCs

-- Please note that this is an informational RFC, and therefore does not specify a standard of any kind.

I<RFC 3195 - Reliable Delivery for syslog>, L<http://www.faqs.org/rfcs/rfc3195.html>

=head2 Articles

I<Syslogging with Perl>, L<http://lexington.pm.org/meetings/022001.html>

=head2 Event Log

Windows Event Log,

=head1 AUTHORS & ACKNOWLEDGEMENTS

Tom Christiansen E&lt;F&lt;christ (at) perl.com&gt;gt> and Larry Wall E&lt;F&lt;larry (at) wall.org&gt;gt>.

UNIX domain sockets added by Sean Robinson E&lt;F&lt;robinson_s (at) sc.maricopa.edu&gt;gt> with support from Tim Bunce E&lt;F&lt;Tim.Bunce (at) ig.co.uk&gt;gt> and the C&lt;perl5-porters&gt; mailing list.

Dependency on F&lt;syslog.ph&gt; replaced with XS code by Tom Hughes E&lt;F&lt;tom (at) compton.nu&gt;gt>.

Code for C&lt;constant()&gt;s regenerated by Nicholas Clark E&lt;F&lt;nick (at) ccl4.org&gt;gt>.
Failover to different communication modes by Nick Williams
E<lt>F<Nick.Williams (at) morganstanley.com>E<gt>.

Extracted from core distribution for publishing on the CPAN by
SE<acute>bastien Aperghis-Tramoni E<lt>sebastien (at) aperghis.netE<gt>.

XS code for using native C functions borrowed from C<lt>Unix::Syslog>,
written by Marcus Harnisch E<lt>F<marcus.harnisch (at) gmx.net>E<gt>.

Yves Orton suggested and helped for making C<Sys::Syslog> use the native
event logger under Win32 systems.

Jerry D. Hedden and Reini Urban provided greatly appreciated help to
debug and polish C<Sys::Syslog> under Cygwin.

=head1 BUGS

Please report any bugs or feature requests to
C<bug-sys-syslog (at) rt.cpan.org>, or through the web interface at
I will be notified, and then you'll automatically be notified of progress on
your bug as I make changes.

=head1 SUPPORT

You can find documentation for this module with the perldoc command.

    perldoc Sys::Syslog

You can also look for information at:

=over

=item * Perl Documentation

L<http://perldoc.perl.org/Sys/Syslog.html>

=item * MetaCPAN

L<https://metacpan.org/module/Sys::Syslog>

=item * Search CPAN

L<http://search.cpan.org/dist/Sys-Syslog/>

=item * AnnoCPAN: Annotated CPAN documentation
L<http://annocpan.org/dist/Sys-Syslog>

=item * CPAN Ratings

L<http://cpanratings.perl.org/d/Sys-Syslog>

=item * RT: CPAN's request tracker


=back

The source code is available on GitHub:
L<https://github.com/maddingue/Sys-Syslog/>

=head1 COPYRIGHT

Copyright (C) 1990-2012 by Larry Wall and others.

=head1 LICENSE

This program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

cut

begin comment

Notes for the future maintainer (even if it's still me..)
-----------------------------------------------

Using Google Code Search, I search who on Earth was relying on $host being
count of $host being public. It found 5 hits:

* First was inside Indigo Star Perl2exe documentation. Just an old version
of Sys::Syslog.

* One real hit was inside DalWeatherDB, a weather related program. It simply
does a

$Sys::Syslog::host = '127.0.0.1';

- L<http://www.gallistel.net/nparker/weather/code/>
* Two hits were in TPC, a fax server thingy. It does a

```perl
$Sys::Syslog::host = $TPC::LOGHOST;
```

but also has this strange piece of code:

```perl
# work around perl5.003 bug
sub Sys::Syslog::hostname {} 
```

I don't know what bug the author referred to.

- L<http://www.tpc.int/>

* Last hit was in Filefix, which seems to be a FIDOnet mail program (!). This one does not use $host, but has the following piece of code:

```perl
sub Sys::Syslog::hostname 
{
    use Sys::Hostname;
    return hostname;
}
```

I guess this was a more elaborate form of the previous bit, maybe because of a bug in Sys::Syslog back then?


Links
-----
Linux Fast-STREAMS
- L<http://www.openss7.org/streams.html>

II12021: SYSLOGD HOWTO TCPIPINFO (z/OS, OS/390, MVS)

Getting the most out of the Event Viewer

Log events to the Windows NT Event Log with JNI

=end comment

Found in path(s):
No license file was found, but licenses were detected in source scan.

NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

DESCRIPTION

Sys::Syslog is an interface to the UNIX syslog(3) program. Call syslog() with a string priority and a list of printf() args just like syslog(3).

INSTALLATION

To install this module, run the following commands:

$ perl Makefile.PL
$ make
$ make test
$ make install

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is regularly compiled and tested by the CPAN Testers on various combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:
http://testers.cpan.org/show/Sys-Syslog.html

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc Sys::Syslog

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/Sys-Syslog/

MetaCPAN
https://metacpan.org/module/Sys::Syslog

CPAN Request Tracker:
http://rt.cpan.org/NoAuth/Bugs.html?Dist=Sys-Syslog

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/Sys-Syslog

CPAN Ratings:
http://cpanratings.perl.org/d/Sys-Syslog

COPYRIGHT AND LICENCE

Copyright (C) 1990-2012 by Larry Wall and others.

This program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Sys::Syslog::Win32 - Win32 support for Sys::Syslog

=head1 DESCRIPTION

This module is a back-end plugin for C<Sys::Syslog>, for supporting the Win32
event log. It is not expected to be directly used by any module other than
C<Sys::Syslog> therefore it's API may change at any time and no warranty is
made with regards to backward compatibility. You Have Been Warned.

=head1 SEE ALSO

L<Sys::Syslog>

=head1 AUTHORS

SE<eacute>bastien Aperghis-Tramoni and Yves Orton

=head1 LICENSE

This program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.
Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/sys-Syslog-0.35/win32/Win32.pm
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.08

Automatically created by Devel::PPPort running under perl 5.008005 on Thu Jun  8 00:58:19 2006.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

----------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.08

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h (this, obviously, cannot be undone)

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported
Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_nolen()</td>
<td>NEED_sv_2pv_nolen</td>
<td>NEED_sv_2pv_nolen_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function, use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/ /
```
to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2006, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.
=cut

use strict;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
);

my($ppport) = $0 =~ /([\w\.]+)$/;
my $LF = '([^\r\n][\r\n\r\n])';  # line feed
my $HS = '[ \t]';              # horizontal whitespace

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
    
    usage() if $opt{help};
    strip() if $opt{strip};

    if (exists $opt{'compat-version'}) {
        my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
        if ($@) {
die "Invalid version number format: "$opt{'compat-version'}"\n";
}
die "Only Perl 5 is supported\n" if $r ! = 5;
die "Invalid version number: "$opt{'compat-version'}"\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!!
my $ccs = '/.*';
my $cce = '.*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(.*?)|([^|]*)(?:[^|]*)(?:[^|]*)$/ } qw(
    AvFILLp|5.004050|p
    AvFILLp||n
    CLASSp||n
    CX_CURPAD_SAVEp
    CX_CURPAD_SVP
    CopFILEAV|5.006000|p
    CopFILEGV_set|5.006000|p
    CopFILEGV|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p
    CopSTASHPV_set|5.006000||p
    CopSTASHPV|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASH_set|5.006000||p
    CopSTASH|5.006000||p
    CopyD|5.009002||p
    Copyp||n
    CvPADLISTp
    CvSTASHp
    CvWEAKOUTSIDEp
    DEFSVP|5.004050|p
    END_EXTERN_C|5.005000|p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move||
NEWSV||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVref|5.006001||p
NVgf|5.006001||p
Newx|5.009003||p
Newx|5.009003||p
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
ORIGMARK||
PAD_BASE_SV||
PAD_CLONE_VARS||
PAD_COMPNAME_FLAGS||
PAD_COMPNAME_GEN_set||
PAD_COMPNAME_GEN||
PAD_COMPNAME_OURSTASH||
PAD_COMPNAME_PV||
PAD_COMPNAME_TYPE||
PAD_RESTORE_LOCAL||
PAD_SAVE_LOCAL||
PAD_SAVE_SETNULLPAD||
PAD_SETSV||
PAD_SET_CUR_NOSAVE||
PAD_SET_CUR||
PAD_SV||
PAD_SV||
PERL_BCDVERSION|5.009003||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.007002||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.007002||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_DECL|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||n
PL_Sv|5.005000||p
PL_compiling|5.004050||p
PL_copline|5.005000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_ergv|5.004050||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_last_in_gv|||n
PL_modglobal|5.005000||n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofs_sv|||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
POP_MULTICALL|5.009003||
POPi|||n
POPI|||n
POPn|||n
SAVE_DEF|5.004050||p
SPAGAIN||
SPI||
START_EXTERN_C|5.005000||p
START_MY_CTX|5.007003||p
STMT_END||p
STMT_START||p
ST||
SVt_IV||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg|5.009001||p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvSetMagicSV||5.004000|
SvSetSV_nostea||5.004000|
SvSetSV|||
SvTAINTED_off||5.004000|
SvTAINTED_on||5.004000|
SvTAINTED||5.004000|
SvTAINT|||
SvTRUE|||
SvTYPE|||
SvUNLOCK||5.007003|
SvUOK||5.007001|
SvUPGRADE|||
SvUTF8_off||5.006000|
SvUTF8_on||5.006000|
SvUTF8||5.006000|
SvUVXx||5.004000||p
SvUVX||5.004000||p
SvUV_nomg||5.009001||p
SvUV_set||5.009003||p
SvUVx||5.004000||p
SvUV||5.004000||p
SvVOK||5.008001|
THIS|||
UNDERBAR||5.009002||p
UVSIZE||5.006000||p
UVTYPE||5.006000||p
UVXf||5.007001||p
UVof||5.006000||p
UVuf||5.006000||p
UVxf||5.006000||p
XCPT_CATCH||5.009002||p
XCPT_RETHROW||5.009002||p
XCPT_TRY_END||5.009002||p
XCPT_TRY_START||5.009002||p
XPUSHi|||
XPUSHmortal||5.009002||p
XPUSHn|||
XPUSHp|||
XPUSHs|||
XPUSHu||5.004000||p
XSRETURN_EMPTY|||
XSRETURN_IV|||
XSRETURN_NO|||
XSRETURN_NV|||
XSRETURN_PV|||
XSRETURN_UNDEF|||
XSRETURN_UV||5.008001||p
XSRETURN_YES|||
djSP||
do_aexec5||
do_aexec||
do_aspawn||
do_binmode[5.004050]
do_chomp||
do_chop||
do_close||
do_dump_pad||
do_eof||
do_exec3||
do_execfree||
do_exec||
do_gv_dump[5.006000]
do_gv_gv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcctl||
do_ipcget||
do_join||
do_kv||
do_magic_dump[5.006000]
do_msgcvt||
do_msgsnd||
do_oddball||
do_op_dump[5.006000]
do_open9[5.006000]
do_opena[5.007001]
do_open[5.004000]
do_pipe||
do_pmop_dump[5.006000]
do_print||
do_readline||
do_seek||
do_semop||
do_shmio||
do_smartmatch||
do_spawn_nowait||
do_spawn||
do_sprintf||
do_sv_dump[5.006000]
do_syssseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
grok_oct[5.007003]|p
gv_AVadd||
gv_HVadd||
gv_IOadd||
gv_SVadd||
gv_autoload4[5.004000]
gv_check||
gv_const_sv[5.009003]
gv_dump[5.006000]
gv_efullname3[5.004000]
gv_efullname4[5.006001]
gv_efullname||
gv_enamel||
gv_fetchfile||
gv_fetchmeth_autoload[5.007003]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod||
gv_fetchmeth||
gv_fetchpvn_flags[5.009002]
gv_fetchpvn||
gv_fetchsv[5.009002]
gv_fullname3[5.004000]
gv_fullname4[5.006001]
gv_fullname||
gv_handler[5.007001]
gv_init_sv||
gv_init||
gv_stashpvn[5.006000]|p
gv_stashpv||
gv_stashsv||
h_dup||
hek_dup||
hfreeentries||
hsplit||
hv_assert[5.009001]
hv_auxinit||
hv_backreferences_p||
hv_clear_placeholders[5.009001]
hv_clear||
hv_delayfree_ent[5.004000]
hv_delete_common||
hv_delete_ent[5.004000]
hv_delete||
hv_eiter_p[5.009003]
hv_eiter_set[5.009003]
hv_exists_ent[5.004000]
hv_exists||
init_tm||5.007002|
instr||
intro_my||
intuit_method||
intuit_more||
invert||
io_close||
isALNUM||
isALPHA||
isDIGIT||
isLOWER||
isSPACE||
isUPPER||
is_an_int||
is_gv_magical_sv||
is_gv_magical||
is_handle_constructor||
is_list_assignment||
is_lvalue_sub||5.007001|
is_uni_alnum_lc||5.006000|
is_uni_alnumc_lc||5.006000|
is_uni_alnumc||5.006000|
is_uni_alnum||5.006000|
is_uni_alpha_lc||5.006000|
is_uni_alpha||5.006000|
is_uni_ascii_lc||5.006000|
is_uni_ascii||5.006000|
is_uni_cntrl_lc||5.006000|
is_uni_cntrl||5.006000|
is_uni_digit_lc||5.006000|
is_uni_digit||5.006000|
is_uni_graph_lc||5.006000|
is_uni_graph||5.006000|
is_uni_idfirst_lc||5.006000|
is_uni_idfirst||5.006000|
is_uni_lower_lc||5.006000|
is_uni_lower||5.006000|
is_uni_print_lc||5.006000|
is_uni_print||5.006000|
is_uni_punct_lc||5.006000|
is_uni_punct||5.006000|
is_uni_space_lc||5.006000|
is_uni_space||5.006000|
is_uni_upper_lc||5.006000|
is_uni_upper||5.006000|
is_uni_xdigit_lc||5.006000|
is_uni_xdigit||5.006000|
is_utf8_alnumc||5.006000|
magic_clearpack
magic_clearsig
magic_dump
magic_existspack
magic_freeNodeLen
magic_freeovrld
magic_freetregex
magic_getarylen
magic_getdefelem
magic_getglob
magic_getnkeys
magic_getpack
magic_getpos
magic_getsig
magic_getsubstr
magic_gettaint
magic_getuvar
magic_getvec
magic_get
magic_killbackrefs
magic_len
magic_methcall
magic_methpack
magic_nextpack
magic_regdata_cnt
magic_regdatum_get
magic_regdatum_set
magic_scalarpack
magic_set_all_env
magic_setamagic
magic_setarylen
magic_setbm
magic_setcollxfrm
magic_setdbline
magic_setdefelem
magic_setenv
magic_setfm
magic_setglob
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setsig
magic_setsubstr
magic_setsig
magic_setutf8
my_betohl||n
my_betohs||n
my_bzero||n
my_chsize||
my_clearenv||
my_ctxt_init||
my_exit_jump||
my_exit||
my_failure_exit|5.004000|
my_fflush_all|5.006000|
my_fork|5.007003|n
my_htobe16||n
my_htobe32||n
my_htobe64||n
my_htobei||n
my_htobel||n
my_htobes||n
my_htole16||n
my_htole32||n
my_htole64||n
my_htolei||n
my_htolel||n
my_htoles||n
my_hton1|||
my_kid||
my_letoh16||n
my_letoh32||n
my_letoh64||n
my_letohi||n
my_letohl||n
my_letohs||n
my_lstat||
my_memcmp|5.004000|n
my_memset||n
my_ntohl||
my_pclose|5.004000|
my_popen_list|5.007001|
my_popen|5.004000|
my_setenv||
my_socketpair|5.007003|n
my_sprintf|5.009003|vn
my_stat||
my_strftime|5.007002|
my_swabn||n
my_swap||
my_unexec||
my||
need_utf8||n
ptr_table_clear
ptr_table_fetch
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
put_byte
pv_display
pv_uni_display
qerror
re_croak2
re_dup
re_intuit_start
re_intuit_string
realloc
reentrant_free
reentrant_init
reentrant_retry
ref_array_or_hash
refkids
refto
ref
reg_node
reganode
regatom
regbranch
regclass_swash
regclass
regcppop
regcppush
regcurly
regdump
regexec_flags
reghop3
reghopmaybe3
reghopmaybe
reghop
reginclass
reginitcolors
reginsert
regmatch
regnext
regoptail
regpiece
regppposixcc
regprop
strnNE|||
study_chunk|||
sub_crush_depth|||
sublex_done|||
sublex_push|||
sublex_start|||
sv_2bool|||
sv_2cv|||
sv_2io|||
sv_2iuv_non_preserve|||
sv_2iv_flags[5.009001]
sv_2iv|||
sv_2mortal|||
sv_2nv|||
sv_2pv_flags[5.007002]
sv_2pv_nolen[5.006000][p
sv_2pvbyte_nolen]]
sv_2pvbyte[5.006000][p
sv_2pvutf8_nolen[5.006000]
sv_2pvutf8[5.006000]
sv_2pv|||
sv_2uv[5.009001]
sv_2uv[5.004000][p
sv_add_arena|||
sv_add_backref|||
sv_backoff|||
sv_bless|||
sv_cat_decode[5.008001]
sv_catpv_mg[5.006000][p
sv_catpvf_mg_nocontext][pvn
sv_catpvf_mg[5.006000][5.004000][pv
sv_catpvf_nocontext][vn
sv_catpvf][5.004000][v
sv_catpv[5.007002]
sv_catpv[5.004050][p
sv_catpv_nomg[5.007002][p
sv_catpv[5.007002]
sv_catsv_flags[5.007002]
sv_catsv_mg[5.004050][p
sv_catsv_nomg[5.007002][p
sv_catsv|||
sv_chop|||
sv_clean_all|||
sv_clean_objs|||
sv_clear|||
sv_cmp_locale[5.004000]
sv_cmp|||
warner||5.006000|v
warn|||v
watch|||
whichsig|||
write_no_mem|||
write_to_stderr|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21362


$need{S1} = 1 if m{^
if\s+defined\(\text{NEED}_\(\w+\)?\_GLOBAL\)\?}$;

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "\Q$opt{'api-info'}\E";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n== $f ==\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo\n";
      print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
      print "Depends on: ", join(', ', @{$depends{$f}}), "\n" if exists $depends{$f};
      print "$hints{$f}" if exists $hints{$f};
      $info++;
    }
    unless ($info) {
      print "No portability information available\n";
    }
    $count++;
  }
  if ($count > 0) {
    print \n;  }
  else {
    print "Found no API matching \$opt\{'api-info\'}\n";
  }
  exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    my $flags = @flags ? '['.join(', ', @flags).'] : ",
    print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
unless (@files) {
die "No input files given!\n";
}
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21364


unless (open IN, "<$filename") { 
    warn "Unable to read from $filename: $!
    next;
}

info("Scanning $filename ...");

my $c = do { local $/; <IN> }; 
close IN;

my %file = (orig => $c, changes => 0);

# temporarily remove C comments from the code
my @ccom;
$c =~ s{
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
    (?![^"'\[\]^*?\{\}\|\(\)[\s\#\-]+)
    |
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
if (exists $need{$_}) {
$file{needs}{$_} = 'static';
}
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else {
warning("Possibly wrong #define $1 in $filename");
}
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21366


@targets = @t if @t;
my $Target = shift @targets;
$files{$Target}{needs}{$need} = 'global';
for (@($global{needs}{$need})) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $Target;
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            my $changes = ($c =~ s{\bPerl_$func\s*(\s*?!aTHX_\?)\(|\^s*\}\s*(?!aTHX_\?)\}\s*}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*(\s*?!aTHX_\?)\(|\^s*\}\s*}{ $func$1\}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s{\b$func\s*}{ $replace{$func}/g);
    }

    for $func (sort keys %{$file{uses}}) {
        next unless $file{uses}{$func};  # if it's only a dependency
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } elsif (exists $replace{$func}) {
            warning("Uses $func instead of $replace{$func}");
            $file{changes} += ($c =~ s{\b$func\s*}{ $replace{$func}/g);
        }
    }
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21367
else {
    diag("Uses $func");
}  
hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} & $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_${type}"}{$func}) {
        if ($type eq 'global') {
            diag("Files [@ {global{needs}{$func}}] need $func, adding global request");
        } else {
            diag("File needs $func, adding static request");
        }
        $pp .= "#define NEED_$func$suffix\n";
    }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp = qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+).*?/\$1$pp/ms)
        || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*?)/\$pp/m)
        || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)/\$1$pp/m)
        || ($c =~ s/\$/\$pp/);  
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\$PERSONAL/\$ppport\E.*?SLF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
if ($cppc) {
  my $s = $cppc != 1 ? 's' : 'i';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile' already exists, refusing to write copy of '$filename'");
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      } else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  } elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        } else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
      mydiff(^PATCH, $filename, $c);
    } else {
      fallback:
      info("Suggested changes:");
      mydiff(^STDOUT, $filename, $c);
    }
  }
}

else {
  $c =~ s/$rcs$ix$rcs/$ccom[$ix]/;
}

}
} }
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and can_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }
}
print F $diff;

}

sub run_diff
{
  my($prog, $file, $str) = @_;
  my $tmp = 'dppptemp';
  my $suf = 'aaa';
  my $diff = "
  local *F;

  while (-e "$tmp.$suf") { $suf++ }
  $tmp = "$tmp.$suf";

  if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
      while (<F>) {
        s/\Q$tmp\E/$file.patched/;
        $diff .= $_;
      }
      close F;
      unlink $tmp;
      return $diff;
    }
  }
  else {
    error("Cannot open '$tmp' for writing: $!");
  }

  unlink $tmp;
}
else {
  return undef;
}

sub can_use
{
  eval "use @_;";
  return $@ eq "
}

sub rec_depend
{
  my $func = shift;
  my %seen;
  }
return () unless exists $depends{$_};
grep !seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$_}}:
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /(^d+)(d+)$/) {
    return ($1, $2, $3);
  }
  elsif ($ver !~ /^\d+\d\d\d$/) {
    die "cannot parse version \$ver\n";
  }

  $ver =~ s/_//g;
  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /(^d+)(d{3})(d{3})/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "cannot parse version \$ver\n";
    }
  }

  return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;
  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /(^d+)(d{3})(d{3})/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "invalid version \$ver\n";
    }
    $s /= 10;
  }

  return ($r, $v, $s);
}
$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "-%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** " , @_, "\n";
}

sub error
{
    print "*** ERROR: " , @_, "\n";
}

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /=head\d$HS+SYNOPSIS\s*^(.*)\s*/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+$/^X $0/;
$usage =~ s/((A-Z])<(([^>]+)>)/$M{$1}$2$M{$1}/g;

print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> }; $self =~ s/^$HS+Do NOT edit.*?(?=^-)//ms; $self =~ s/^SKIP.*(?=^__DATA__)/SKIP if (@ARGV && $ARGV[0] eq '--unstrip') { eval { require Devel::PPPort }; <$@ and die "Cannot require Devel::PPPort, please install.
Devel::PPPort::WriteFile($0); exit 0; }
print <<END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X $0 --unstrip

END
/ms;

open OUT, ">$0" or die "cannot strip $0: $!
print OUT $self;
exit 0;
}

__DATA__
*/

Found in path(s):
License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/ppport.h
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/perl-Sys-Syslog.spec
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1982, 1986, 1988, 1993
 * The Regents of the University of California. All rights reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 4. Neither the name of the University nor the names of its contributors
 * may be used to endorse or promote products derived from this software
 * without specific prior written permission.
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * @(#)syslog.h 8.1 (Berkeley) 6/2/93
 */

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/fallback/syslog.h
No license file was found, but licenses were detected in source scan.

This program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-
mQLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/win32/compile.pl

1.248 libtool 2.4.6 25.el8

1.248.1 Available under license:
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The “Document”, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as “you”. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A “Modified Version” of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A “Secondary Section” is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The “Invariant Sections” are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The “Cover Texts” are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A “Transparent” copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
ASCII without markup, Texinfo input format, LaTeX input
format, SGML or XML using a publicly available
DTD, and standard-conforming simple HTML,
PostScript or PDF designed for human modification. Examples
of transparent image formats include PNG, XCF and
JPG. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, SGML or
XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The `publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties; any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item

VERBATIM COPYING
You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
Include an unaltered copy of this License.

Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various
parties—for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History"
in the various original documents, forming one section Entitled
"History"; likewise combine any sections Entitled "Acknowledgements",
and any sections Entitled "Dedications". You must delete all
sections Entitled "Endorsements."
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'',
``Dedications'', or ``History'', the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is `eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page

@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{} Texts.''@: line with this:

```
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

```
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble
```
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.249 free-type 2.9.1 4.el8_3.1

1.249.1 Available under license :

The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

- We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)
You can use this software for whatever you want, in parts or full form, without having to pay us. (‘royalty-free usage)

You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (‘credits’)

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
Portions of this software are copyright <year> The FreeType Project (www.freetype.org). All rights reserved.
```

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
=============

0. Definitions
-------------

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty

------------

THE FREETYPE PROJECT IS PROVIDED AS IS WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution

------------

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

o Redistribution of source code must retain this license file (FTL.TXT) unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising
Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

https://www.freetype.org

--- end of FTL.TXT ---
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
# Don't put empty lines into this file!

# .gitignore

builds/unix/pkg.m4

docs/FTL.TXT
docs/GPLv2.TXT

include/freetype/internal/fhash.h

src/base/fhash.c
src/base/md5.c
src/base/md5.h

src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk

src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk

src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

The FreeType 2 font engine is copyrighted work and cannot be used legally without a software license. In order to make this project usable to a vast majority of developers, we distribute it under two mutually exclusive open-source licenses.

This means that *you* must choose *one* of the two licenses described below, then obey all its terms and conditions when using FreeType 2 in any of your projects or products.

- The FreeType License, found in the file `FTL.TXT', which is similar to the original BSD license *with* an advertising clause that forces you to explicitly cite the FreeType project in your product's documentation. All details are in the license file. This license is suited to products which don't use the GNU General Public License.

  Note that this license is compatible to the GNU General Public License version 3, but not version 2.

- The GNU General Public License version 2, found in `GPLv2.TXT' (any later version can be used also), for programs which already use the GPL. Note that the FTL is incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see file src/bdf/README and src/pcf/README). The same holds for the files `fthash.c' and `fthash.h'; their code was part of the BDF driver in earlier FreeType versions.

The gzip module uses the zlib license (see src/gzip/zlib.h) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.250 highline 2.0.3-1.ph4
1.250.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

= License Terms

Distributed under the user's choice of the {GPL Version 2}[http://www.gnu.org/licenses/old-licenses/gpl-2.0.html] (see COPYING for details) or the

Please email James[mailto:james@grayproductions.net] with any questions.

1.251 libsoup 2.62.3 2.el8

1.251.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.252 epel-release 8-11.el8
1.252.1 Available under license :

********************************************************************************
The following copyright applies to the Red Hat Linux compilation and any portions of Red Hat Linux it does not conflict with. Whenever this policy does conflict with the copyright of any individual portion of Red Hat Linux, it does not apply.

********************************************************************************

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.253 babeltrace 1.5.4-3.el8

1.253.1 Available under license:

/*
 * BabelTrace
 * *
 * Trace Format Header
 * *
 * Copyright 2010-2011 EfficiOS Inc. and Linux Foundation
 * *
 * Author: Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
 * *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 * copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 * *
 * The above copyright notice and this permission notice shall be included in
 * all copies or substantial portions of the Software.
 * *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */

1.254 chardet 4.0.0

1.254.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.255 gc 7.6.4-3.el8

1.255.1 Available under license:

<OWNER> = Regents of the University of California
<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.256 coreutils 8.30 8.el8

1.256.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system.
(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.257 libpipeline 1.5.0 2.el8

1.257.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.
To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.
"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction.
and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:
a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.258 openssl 1.1.1k
1.258.1 Notifications :
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.258.2 Available under license :

LICENSE ISSUES
=============

The OpenSSL toolkit stays under a double license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts.

OpenSSL License
---------------

/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project. All rights reserved.
 * Redistribution and use in source and binary forms, with or without
 */
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.
*
* 3. All advertising materials mentioning features or use of this
* software must display the following acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
* endorse or promote products derived from this software without
* prior written permission. For written permission, please contact
* openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
* nor may "OpenSSL" appear in their names without prior written
* permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
* acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
Original SSLeay License
-----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to. The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code. The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *    Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the library
 *    being used are not cryptographic related :-). 
 * 4. If you include any Windows specific code (or a derivative thereof) from
 *    the apps directory (application code) you must include an acknowledgement:
 *    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

1.259 python-pexpect 4.3.1-3.el8

1.259.1 Available under license:

ISC LICENSE

This license is approved by the OSI and FSF as GPL-compatible.

http://opensource.org/licenses/isc-license.txt

Copyright (c) 2013-2014, Pexpect development team
Copyright (c) 2012, Noah Spurrier <noah@noah.org>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.260 irqbalance 1.4.0-6.el8

1.260.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
1.261 cpio 2.12-10.el8

1.261.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.
For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates.
for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU_ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see
The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.262 icu 60
1.262.1 Available under license:

```bash
## -*-makefile-*-.
## Copyright (C) 2016 and later: Unicode, Inc. and others.
## License & terms of use: http://www.unicode.org/copyright.html
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
```
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c

$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c

$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp

$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp

$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c

@echo "generating dependency information for $<"

@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/(\$*)\.o[ :]*/\1.o \$@ : /g\" > \$@; \
[-s \$@ ] || rm -f \$@’

%.d: $(srcdir)/%.cpp

@echo "generating dependency information for $<"

@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\n| sed \"s/(\$*)\.o[ :]*/\1.o \$@ : /g\" > \$@; \\n[-s \$@ ] || rm -f \$@’

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)

$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)

$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use

BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library

BIR_DEPS=

## Remove shared library 's'

STATIC_PREFIX_WHEN_USED =

STATIC_PREFIX =

## End BSD-specific setup

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that either (a) this copyright and permission notice appear with all copies of the Data Files or Software, or (b) this copyright and permission notice appear in associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

Third-Party Software Licenses

This section contains third-party software notices and/or additional terms for licensed third-party software components included within ICU libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.


#    The Google Chrome software developed by Google is licensed under
#    the BSD license. Other software included in this distribution is
#    provided under other licenses, as set forth below.
#
#    The BSD License
#    http://opensource.org/licenses/bsd-license.php
#    Copyright (C) 2006-2008, Google Inc.
#
#    All rights reserved.
#
#    Redistribution and use in source and binary forms, with or without
#    modification, are permitted provided that the following conditions are met:
#    #
#    Redistributions of source code must retain the above copyright notice,
#    this list of conditions and the following disclaimer.
#    Redistributions in binary form must reproduce the above
#    copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided with
#    the distribution.
#    Neither the name of Google Inc. nor the names of its
This software is provided by the copyright holders and contributors "as is" and any express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the copyright owner or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, purchase of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

The word list in cjdict.txt are generated by combining three word lists listed below with further processing for compound word breaking. The frequency is generated with an iterative training against Google web corpora.

* Libtabe (Chinese)
  - https://sourceforge.net/project/?group_id=1519
  - Its license terms and conditions are shown below.

* IPADIC (Japanese)
  - http://chasen.aist-nara.ac.jp/chasen/distribution.html
  - Its license terms and conditions are shown below.

--------COPYING.libtabe ------ BEGIN------------------
# * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# * OF THE POSSIBILITY OF SUCH DAMAGE.
# */

# Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
# University of Illinois
# c-tsai4@uiuc.edu http://casper.beckman.uiuc.edu/~c-tsai4
#
# ------------COPYING.libtable-----END--------------------------------
#
#
# ------------COPYING.ipadic-----BEGIN--------------------------------
#
# Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
# and Technology. All Rights Reserved.
#
# Use, reproduction, and distribution of this software is permitted.
# Any copy of this software, whether in its original form or modified,
# must include both the above copyright notice and the following
# paragraphs.
#
# Nara Institute of Science and Technology (NAIST),
# the copyright holders, disclaims all warranties with regard to this
# software, including all implied warranties of merchantability and
# fitness, in no event shall NAIST be liable for
# any special, indirect or consequential damages or any damages
# whatsoever resulting from loss of use, data or profits, whether in an
# action of contract, negligence or other tortuous action, arising out
# of or in connection with the use or performance of this software.
#
# A large portion of the dictionary entries
# originate from ICOT Free Software. The following conditions for ICOT
# Free Software applies to the current dictionary as well.
#
# Each User may also freely distribute the Program, whether in its
# original form or modified, to any third party or parties, PROVIDED
# that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
# on, or be attached to, the Program, which is distributed substantially
# in the same form as set out herein and that such intended
# distribution, if actually made, will neither violate or otherwise
# contravene any of the laws and regulations of the countries having
# jurisdiction over the User or the intended distribution itself.
#
# NO WARRANTY
#
# The program was produced on an experimental basis in the course of the
# research and development conducted during the project and is provided
# to users as so produced on an experimental basis. Accordingly, the
# program is provided without any warranty whatsoever, whether express, 
# implied, statutory or otherwise. The term "warranty" used herein 
# includes, but is not limited to, any warranty of the quality, 
# performance, merchantability and fitness for a particular purpose of 
# the program and the nonexistence of any infringement or violation of 
# any right of any third party.
#
# Each user of the program will agree and understand, and be deemed to 
# have agreed and understood, that there is no warranty whatsoever for 
# the program and, accordingly, the entire risk arising from or 
# otherwise connected with the program is assumed by the user. 
#
# Therefore, neither ICOT, the copyright holder, or any other 
# organization that participated in or was otherwise related to the 
# development of the program and their respective officials, directors, 
# officers and other employees shall be held liable for any and all 
# damages, including, without limitation, general, special, incidental 
# and consequential damages, arising out of or otherwise in connection 
# with the use or inability to use the program or any product, material 
# or result produced or otherwise obtained by using the program, 
# regardless of whether they have been advised of, or otherwise had 
# knowledge of, the possibility of such damages at any time during the 
# project or thereafter. Each user will be deemed to have agreed to the 
# foregoing by his or her commencement of use of the program. The term 
# "use" as used herein includes, but is not limited to, the use, 
# modification, copying and distribution of the program and the 
# production of secondary products from the program. 
#
# In the case where the program, whether in its original form or 
# modified, was distributed or delivered to or received by a user from 
# any person, organization or entity other than ICOT, unless it makes or 
# grants independently of ICOT any specific warranty to the user in 
# writing, such person, organization or entity, will also be exempted 
# from and not be held liable to the user for any such damages as noted 
# above as far as the program is concerned. 
#
# ----------------COPYING.ipadic-----END----------------------------------

3. Lao Word Break Dictionary Data (laodict.txt)

# Copyright (c) 2013 International Business Machines Corporation 
# and others. All Rights Reserved. 
#
# Project: http://code.google.com/p/lao-dictionary/ 
# License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt 
#                     (copied below) 
#
# This file is derived from the above dictionary, with slight
# modifications.
# ----------------------------------------------------------------------
# Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification,
# are permitted provided that the following conditions are met:
#
# Redistributions of source code must retain the above copyright notice, this
# list of conditions and the following disclaimer. Redistributions in
# binary form must reproduce the above copyright notice, this list of
# conditions and the following disclaimer in the documentation and/or
# other materials provided with the distribution.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
# INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# OF THE POSSIBILITY OF SUCH DAMAGE.
# ----------------------------------------------------------------------

4. Burmese Word Break Dictionary Data (burmesedict.txt)

# Copyright (c) 2014 International Business Machines Corporation
# and others. All Rights Reserved.
#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-karen-word-lists
# #
# Copyright (c) 2013, LeRoy Benjamin Sharon
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met: Redistributions of source code must retain the above
# copyright notice, this list of conditions and the following
5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

# 7. Database Ownership

# The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work # that is in the public domain, and is intended to remain in the # public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply to the TZ Database or contributions that individuals make to it. Should any claims be made and substantiated against the TZ Database, the organization that is providing the IANA Considerations defined in this RFC, under the memorandum of understanding with the IETF, currently ICANN, may act in accordance with all competent court orders. No ownership claims will be made by ICANN or the IETF Trust on the database or the code. Any person making a contribution to the database or code waives all rights to future claims in that contribution or in the TZ Database.

6. Google double-conversion
Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.263 linux-kernel 4.18.0-305.3.1.el8
1.263.1 Available under license :
GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU
General Public License is intended to guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to most of the Free Software Foundation's
software and to any other program whose authors commit to using it. (Some other Free Software Foundation
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty
protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is normally distributed (in either source or
binary form) with the major components (compiler, kernel, and so on) of the operating system on which the
executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering
equivalent access to copy the source code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License.
Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically
terminate your rights under this License. However, parties who have received copies, or rights, from you under this
License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you
permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do
not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program),
you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or
modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives
a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions.
You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited
to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the
conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as
to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a
consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-
free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only
way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the
section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest
validity of any such claims; this section has the sole purpose of protecting the integrity of the free software
distribution system, which is implemented by public license practices. Many people have made generous
contributions to the wide range of software distributed through that system in reliance on consistent application of
that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other
system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted
interfaces, the original copyright holder who places the Program under this License may add an explicit
geographical distribution limitation excluding those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this
The Free Software Foundation may publish revised and/or new versions of the General Public License from time
to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new
problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License
which applies to it and “any later version”, you have the option of following the terms and conditions either of that
version or of any later version published by the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the Free Software Foundation.

If you wish to incorporate parts of the Program into other free programs whose distribution conditions are
different, write to the author to ask for permission. For software which is copyrighted by the Free Software
Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be
guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the
sharing and reuse of software generally.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE
PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM
“AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY
COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL,
SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY
TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER
PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.264 nghttp2 1.33.0 3.el8_2.1
1.264.1 Available under license :
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

LEGAL NOTICE INFORMATION

All the files in this distribution are covered under the MIT license
(see the file MITL) except some files mentioned below:
If not otherwise noted, the extensions in this package are licensed
under the following license.

Copyright (c) 2010 by the contributors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21523
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.265 packagekit 1.1.12-6.el8
1.265.1 Available under license:

AAL
Abstyles
Adobe
ADSL
AFL
AGPLv1
AMDPLPA
AML
AMPAS BSD
APSL 2.0
ARL
Arphic
Artistic 2.0
Artistic clarified
ASL 1.0
ASL 1.1
ASL 2.0
Baekmuk
Barr
Beerware
BeOpen
BitTorrent
Boost
Borceux
BSD
BSD Protection
BSD with advertising
BSD with attribution
CATOSL
CC0
CC-BY
CC-BY-SA
CDDL
CDL
CeCILL
CeCILL-B
CeCILL-C
Charter
CNRI
Condor
Copyright only
CPAL
CPL
Crossword
Crystal Stacker
DOC
Dotseqn
DoubleStroke
DSDP
DSL
dvipdfm
ECL 1.0
ECL 2.0
eCos
EFL 2.0
eGenix
Elvish
Entessa
EPL
ERPL
EUPL 1.1
Eurosym
EU Datagrid
Fair
FBSDDL
Free Art
FTL
GeoGratis
GF DL
Giftware
GL2PS
Glide
Glulxe
gnuplot
GPLv1
GPLv2
GPLv2 or Artistic
GPLv2+
GPLv2+ or Artistic
GPLv2+ with exceptions
GPLv2 with exceptions
GPLv3
GPLv3+
GPLv3+ with exceptions
GPLv3 with exceptions
GPL+
GPL+ or Artistic
GPL+ with exceptions
IBM
IEEE
IJG
ImageMagick
iMatix
Imlib2
Intel ACPI
Interbase
IPA
ISC
Jabber
JasPer
JPython
Knuth
LaTeX2e
LBNL BSD
LDPL
LGPLv2
LGPLv2+
LGPLv2+ or Artistic
LGPLv2+ with exceptions
LGPLv2 with exceptions
LGPLv3
LGPLv3+
LGPLv3+ with exceptions
LGPLv3 with exceptions
Lhcyr
Liberation
libtiff
LLGPL
Logica
LPL
LPPL
mecab-ipadic
MirOS
MIT
MIT with advertising
mod_macro
Motosoto
mplus
MPLv1.0
MPLv1.1
MS-PL
MS-RL
Naumen
NCSA
NetCDF
Netscape
Newmat
Newsletr
NGPL
Nokia
NOSL
Noweb
OAL
OFL
OFSFDL
OML
OpenLDAP
OpenPBS
OpenSSL
OREilly
OSL 1.0
OSL 1.1
OSL 2.0
OSL 2.1
OSL 3.0
Phorum
PHP
Plexus
PostgreSQL
psutils
PTFL
Public Domain
Public Use
Python
Qhull
QPL
Rdisc
RiceBSD
Romio
RPSL
Rsfs
Ruby
Saxpath
SCEA
SCRIP
Sendmail
SISSL
Sleepycat
SLIB
SNIA
SPL
STIX
TCL
Teeworlds
Threeparttable
TMate
TORQUE v1.1
TOSL
TPL
UCD
Vim
VNLSL
VOSTROM
VSL
W3C
Wadalab
Webmin
Wsuipa
WTFPL
wxWidgets
XANO
Xerox
xinetd
XSkat
YPL v1.1
Zed
Zend
zlib
zlib with acknowledgement
ZPL v1.0
ZPL v2.0
ZPL v2.1

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

   Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

   In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.266 etc 1.2.0

1.266.1 Available under license :
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.267 libverto 0.3.0 5.el8

1.267.1 Available under license :
Copyright 2011 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.268 bigdecimal 3.0.2.gem.data

1.268.1 Available under license:

No license file was found, but licenses were detected in source scan.

/* Document-class: BigDecimal
 * BigDecimal provides arbitrary-precision floating point decimal arithmetic.
 * 
 * == Introduction
 * 
 * Ruby provides built-in support for arbitrary precision integer arithmetic.
 * 
 * For example:
 * 
 * 42**13  #=>  1265437718438866624512
 * 
 * BigDecimal provides similar support for very large or very accurate floating point numbers.
 * 
 * Decimal arithmetic is also useful for general calculation, because it
 * provides the correct answers people expect--whereas normal binary floating
 * point arithmetic often introduces subtle errors because of the conversion
 * between base 10 and base 2.
 * 
 * For example, try:
 * 
 * sum = 0
 * 10_000.times do
 * sum = sum + 0.0001
 * end
 * print sum #=> 0.9999999999999062
* and contrast with the output from:
* 
* require 'bigdecimal'
*
* sum = BigDecimal("0")
* 10_000.times do
*   sum = sum + BigDecimal("0.0001")
* end
* print sum #=> 0.1E1
*
* Similarly:
* 
*(BigDecimal("1.2") - BigDecimal("1.0")) == BigDecimal("0.2") #=> true
*
*(1.2 - 1.0) == 0.2 #=> false
*
* == Special features of accurate decimal arithmetic
* 
* Because BigDecimal is more accurate than normal binary floating point
* arithmetic, it requires some special values.
*
* === Infinity
* 
* BigDecimal sometimes needs to return infinity, for example if you divide
* a value by zero.
*
*BigDecimal("1.0") / BigDecimal("0.0") #=> Infinity
*BigDecimal("-1.0") / BigDecimal("0.0") #=> -Infinity
*
* You can represent infinite numbers to BigDecimal using the strings
* <code>'Infinity'</code>, <code> '+Infinity'</code> and
* <code>'-Infinity'</code> (case-sensitive)
*
* === Not a Number
* 
* When a computation results in an undefined value, the special value +NaN+
* (for 'not a number') is returned.
*
* Example:
* 
*BigDecimal("0.0") / BigDecimal("0.0") #=> NaN
*
* You can also create undefined values.
*
* NaN is never considered to be the same as any other value, even NaN itself:
*
* n = BigDecimal('NaN')
*n == 0.0 #=> false
n == n #=> false
*
* === Positive and negative zero
*
* If a computation results in a value which is too small to be represented as
* a BigDecimal within the currently specified limits of precision, zero must
* be returned.
*
* If the value which is too small to be represented is negative, a BigDecimal
* value of negative zero is returned.
*
*BigDecimal("1.0") / BigDecimal("-Infinity") #=> -0.0
*
* If the value is positive, a value of positive zero is returned.
*
*BigDecimal("1.0") / BigDecimal("Infinity") #=> 0.0
*
* (See BigDecimal.mode for how to specify limits of precision.)
*
* Note that +0.0+ and +0.0+ are considered to be the same for the purposes of
* comparison.
*
* Note also that in mathematics, there is no particular concept of negative
* or positive zero; true mathematical zero has no sign.
*
* == bigdecimal/util
*
* When you require +bigdecimal/util+, the #to_d method will be
* available on BigDecimal and the native Integer, Float, Rational,
* and String classes:
*
*require 'bigdecimal/util'
*
* 42.to_d       #=> 0.42e2
* 0.5.to_d      #=> 0.5e0
*  (2/3r).to_d(3) #=> 0.667e0
*  "0.5".to_d   #=> 0.5e0
*
* == License
*
* Copyright (C) 2002 by Shigeo Kobayashi <shigeo@tinyforest.gr.jp>.
*
* BigDecimal is released under the Ruby and 2-clause BSD licenses.
* See LICENSE.txt for details.
*
* Maintained by mrkn <mrkn@mrkn.jp> and ruby-core members.
*
* Documented by zzak <zachary@zacharyscott.net>, mathew <meta@pobox.com>, and
1.269 iputils 20180629-7.el8

1.269.1 Available under license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/*
 * Copyright (c) 1989 The Regents of the University of California.
 * All rights reserved.
 *
 * This code is derived from software contributed to Berkeley by
 * Mike Muuss.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
must display the following acknowledgement:
* This product includes software developed by the University of
  California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

arping: GPL v2 or later
clockdiff: BSD-3
ninfod: BSD-3
ping: BSD-3
rarp: GPL v2 or later
rdisc: AS-IS, SUN MICROSYSTEMS license
tftpd: BSD-3
tracepath: GPL v2 or later
traceroute: BSD-3

Copyright (C) 2002 USAGI/WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ~~AS IS~~ AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.270 tdb 1.4.3-1.el8
1.270.1 Available under license :
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the
GNU General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The “Corresponding Application Code” for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the
Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.
The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the
Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non--permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:
a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally
used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the
Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be
marked in reasonable ways as different from the original version; or
d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or
modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these
contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If
the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along
with a term that is a further restriction, you may remove that term. If a license document contains a further
restriction but permits re licensing or conveying under this License, you may add to a covered work material
governed by the terms of that license document, provided that the further restriction does not survive such
relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a
statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated
as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt
otherwise to propagate or modify it is void, and will automatically terminate your rights under this License
(including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated
(a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b)
permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days
after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies
you of the violation by some reasonable means, this is the first time you have received notice of violation of this
License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of
the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or
rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not
qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation
of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise
does not require acceptance. However, nothing other than this License grants you permission to propagate or modify
any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or
propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.
If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.
Of course, your program's commands might be different; for a GUI interface, you would use an “about box”.

You should also get your employer (if you work as a programmer) or school, if any, to sign a “copyright disclaimer”
for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your
program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first,

1.271 cairo 1.15.12 3.el8
1.271.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an
annoucement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

      Gnomovision version 69, Copyright (C) year name of author
      Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
      This is free software, and you are welcome to redistribute it
      under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

      Yoyodyne, Inc., hereby disclaims all copyright interest in the program
      `Gnomovision' (which makes passes at compilers) written by James Hacker.

      <signature of Ty Coon>, 1 April 1989
      Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

Cairo is free software.

cairo-trace is released under the terms of the GNU General Public License
(GPL) version 3. Please see COPYING-GPL-3 for the precise terms and
conditions.
Cairo is free software.

These tests are mainly available under a liberal MIT license to simplify any use of the code for reference purposes. Please check the opening comment of each file for copyright and licensing information.

The test suite also bundles some fonts for use by the test suite. The fonts included, their licenses, and why we use them in the test suite are as follows:

Font License Distinguishing feature
-------------------------
6x13.pcf Public Domain Bitmap font

The test suite also bundles some images for use by the test suite. The images included, their licenses, and why we use them in the test suite are as follows:

Image License Distinguishing feature
-------------------------
romedalen.jpg Public Domain Bitmap image (image/jpeg)
romedalen.png Public Domain Bitmap image (image/png)

The kind contributors of the bundled files are (in alphabetical order):
yvind Kols <pippin@freedesktop.org> Author of the original romedalen shot.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

Cairo is free software.

These tests are mainly available under a liberal MIT license to simplify any use of the code for reference purposes. Please check the opening comment of each file for copyright and licensing information. Cairo is free software.

Every source file in the implementation of cairo is available to be redistributed and/or modified under the terms of either the GNU Lesser General Public License (LGPL) version 2.1 or the Mozilla Public License (MPL) version 1.1. Some files are available under more liberal terms, but we believe that in all cases, each file may be used under either the LGPL or the MPL.

See the following files in this directory for the precise terms and conditions of either license:

COPYING-LGPL-2.1
COPYING-MPL-1.1
Please see each file in the implementation for copyright and licensing information, (in the opening comment of each file).

Cairo is free software.

These utilities are all free software, please see the licensing conditions in the opening comments of each file.

Cairo is free software.

Every source file in the implementation[*] of cairo is available to be redistributed and/or modified under the terms of either the GNU Lesser General Public License (LGPL) version 2.1 or the Mozilla Public License (MPL) version 1.1. Some files are available under more liberal terms, but we believe that in all cases, each file may be used under either the LGPL or the MPL.

See the following files in this directory for the precise terms and conditions of either license:

COPYING-LGPL-2.1
COPYING-MPL-1.1

Please see each file in the implementation for copyright and licensing information, (in the opening comment of each file).

[*] The implementation of cairo is contained entirely within the "src" directory of the cairo source distribution. There are other components of the cairo source distribution (such as the "test", "util", and "perf") that are auxiliary to the library itself. None of the source code in these directories contributes to a build of the cairo library itself, (libcairo.so or cairo.dll or similar).

These auxiliary components are also free software, but may be under different license terms than cairo itself. For example, most of the test cases in the perf and test directories are made available under an MIT license to simplify any use of this code for reference purposes in using cairo itself. Other files might be available under the GNU General Public License (GPL), for example. Again, please see the COPYING file under each directory and the opening comment of each file for copyright and licensing information.

1.272 python-linux-procsfs 0.6.3

1.272.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION


=head1 SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path('foo/bar/baz', '/zug/zwang');
@created = make_path('foo/bar/baz', '/zug/zwang', {  
    verbose => 1,  
    mode => 0711,  
  });
make_path('foo/bar/baz', '/zug/zwang', {  
    chmod => 0777,  
  });

$removed_count = remove_tree('foo/bar/baz', '/zug/zwang', {  
    verbose => 1,  
    error  => \my $err_list,  
    safe => 1,  
  });

# legacy (interface promoted before v2.00)
@created = mkpath('/foo/bar/baz');
@created = mkpath('/foo/bar/baz', 1, 0711);
@created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
$removed_count = rmtree('foo/bar/baz', 1, 1);
$removed_count = rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
@created = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
$removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

=head1 DESCRIPTION

This module provides a convenient way to create directories of
arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:

=over

=item make_path( $dir1, $dir2, ... )

=item make_path( $dir1, $dir2, ..., %opts )

The C<make_path> function creates the given directories if they don't exist before, much like the Unix command C<mkdir -p>.

The function accepts a list of directories to be created. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=over

=item mode => $num

The numeric permissions mode to apply to each created directory (defaults to C<0777>), to be modified by the current C<umask>. If the directory already exists (and thus does not need to be created), the permissions will not be modified.

C<mask> is recognised as an alias for this parameter.

=item chmod => $num

Takes a numeric mode to apply to each created directory (not modified by the current C<umask>). If the directory already exists (and thus does not need to be created), the permissions will not be modified.

=item verbose => $bool

If present, will cause C<make_path> to print the name of each directory as it is created. By default nothing is printed.

=item error => \$err
If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

If this parameter is not used, certain error conditions may raise a fatal error that will cause the program to halt, unless trapped in an C<eval> block.

=item owner => $owner
=item user => $owner
=item uid => $owner

If present, will cause any created directory to be owned by C<$owner>. If the value is numeric, it will be interpreted as a uid; otherwise a username is assumed. An error will be issued if the username cannot be mapped to a uid, the uid does not exist or the process lacks the privileges to change ownership.

Ownership of directories that already exist will not be changed.

C<user> and C<uid> are aliases of C<owner>.

=item group => $group

If present, will cause any created directory to be owned by the group C<$group>. If the value is numeric, it will be interpreted as a gid; otherwise a group name is assumed. An error will be issued if the group name cannot be mapped to a gid, the gid does not exist or the process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

    make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};

=back

=item mkpath( $dir )
=item mkpath( $dir, $verbose, $mode )
=item mkpath( [$dir1, $dir2,...], $verbose, $mode )
=item mkpath( $dir1, $dir2,..., \%opt )

The C<mkpath()> function provide the legacy interface of
The `C<make_path()>` function with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to `C<make_path()>`.

```perl
=item remove_tree( $dir1, $dir2, .... )
```

```perl
=item remove_tree( $dir1, $dir2, ...., \%opts )
```

The `C<remove_tree()>` function deletes the given directories and any files and subdirectories they might contain, much like the Unix command `C<rm -rf>` or the Windows commands `C<rmdir /s>` and `C<rd /s>`.

The function accepts a list of directories to be removed. (In point of fact, it will also accept filesystem entries which are not directories, such as regular files and symlinks. But, as its name suggests, its intent is to remove trees rather than individual files.)

`C<remove_tree()>`'s behaviour may be tuned by an optional hashref appearing as the last parameter on the call. If an empty string is passed to `C<remove_tree()>`, an error will occur.

**B<NOTE>:** For security reasons, we strongly advise use of the hashref-as-final-argument syntax -- specifically, with a setting of the `C<safe>` element to a true value.

```perl
remove_tree( $dir1, $dir2, ....,
    {
      safe => 1,
      ... # other key-value pairs
    },
);
```

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

```perl
=over

=item verbose => $bool

If present, will cause `C<remove_tree()>` to print the name of each file as it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause `C<remove_tree()>` to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code
will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories to be removed, except the initially specified directories. This comes in handy when cleaning out an application's scratch directory.

    remove_tree('/tmp', {keep_root => 1});

=item result => \$res

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.

    remove_tree('/tmp', {result => \my $list});
    print "unlinked $n" for @$list;

This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</ERROR HANDLING”> section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmtree( $dir )

=item rmtree( $dir, $verbose, $safe )

=item rmtree( [{$dir1, $dir2,...}], $verbose, $safe )
The `rmtree()` function provides the legacy interface of `remove_tree()` with a different interpretation of the arguments passed. The behavior and return value of the function is otherwise identical to `remove_tree()`.

**NOTE:** For security reasons, we strongly advise use of the hashref-as-final-argument syntax, specifically with a setting of the `safe` element to a true value.

```
rmtree( $dir1, $dir2, ....,
   {   
       safe => 1,
       ...   # other key-value pairs
   },
);
```

=head2 ERROR HANDLING

The following error handling mechanism is consistent throughout all code paths EXCEPT in cases where the ROOT node is nonexistent. In version 2.11 the maintainers attempted to rectify this inconsistency but too many downstream modules encountered problems. In such case, if you require root node evaluation or error checking prior to calling `make_path` or `remove_tree`, you should take additional precautions.

If `make_path` or `remove_tree` encounters an error, a diagnostic message will be printed to `STDERR` via `carp` (for non-fatal errors) or via `croak` (for fatal errors).

If this behavior is not desirable, the `error` attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contains a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of `$!` when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:
remove_tree( 'foo/bar', 'bar/rat', [error => \my $err] );
if ($err && @$err) {
    for my $diag (@$err) {
        my ($file, $message) = %$diag;
        if ($file eq '') {
            print "general error: $message\n";
        } else {
            print "problem unlinking $file: $message\n";
        }
    }
} else {
    print "No error encountered\n";
}

Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are B<not> exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.
The new semantics are now only available with \texttt{make\_path} and \texttt{remove\_tree}. The old semantics are only available through \texttt{mkpath} and \texttt{rmtree}. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions in the 1.x implementations of File::Path's \texttt{rmtree} function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.

See the following pages for more information:

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
http://www.nttp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the \texttt{safe} parameter is set (or the third parameter in the traditional interface is \texttt{TRUE}), should a \texttt{remove\_tree} be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

The following CVE reports were previously filed against File-Path and are believed to have been addressed:

=over 4

=item * L\texttt{http://cve.circl.lu/cve/CVE-2004-0452}>

=item * L\texttt{http://cve.circl.lu/cve/CVE-2005-0448}>

=back

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The \texttt{chmod()} logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L\texttt{https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use}) between the \texttt{stat()} that decides the inode is a directory and the \texttt{chmod()} that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS
FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=over 4

=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only emitted if the routine is called with the traditional interface. The modern interface will remain silent if given nothing to do.

=item No such file or directory

On Windows, if C<make_path> gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

=item cannot fetch initial working directory: [errmsg]

C<remove_tree> attempted to determine the initial directory by calling C<Cwd::getcwd>, but the call failed for some reason. No attempt will be made to delete anything.

=item cannot stat initial working directory: [errmsg]

C<remove_tree> attempted to stat the initial directory (after having successfully obtained its name via C<getcwd>), however, the call failed for some reason. No attempt will be made to delete anything.

=item cannot chdir to [dir]: [errmsg]

C<remove_tree> attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete
other things, but this directory will be left intact.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

C<remove_tree> recorded the device and inode of a directory, and then moved into it. It then performed a C<stat> on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.

=item cannot reset chmod [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here> and you are attempting to remove an ancestor, such as F</some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)
C<remove_tree> was unable to stat the parent directory after having returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=itm previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

=itm cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed everything it contained), C<remove_tree> attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

=itm cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because some objects that were unable to be removed remain in the directory, or it could be a permissions issue. The directory will be left behind.

=itm cannot restore permissions of [dir] to [0nnn]: [errmsg]

After having failed to remove a directory, C<remove_tree> was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

=itm cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

=itm cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

=itm cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

=itm unable to map [owner] to a uid, ownership not changed";
C<make_path> was instructed to give the ownership of created directories to the symbolic name [owner], but C<getpwnam> did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

= item unable to map [group] to a gid, group ownership not changed

C<make_path> was instructed to give the group ownership of created directories to the symbolic name [group], but C<getgrnam> did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be made available directly in C<File::Path>.

=item *

L<File::Find::Rule>

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swathes alone), F<File::Find::Rule> offers a convenient and flexible approach to examining directory trees.

=back

=head1 BUGS AND LIMITATIONS

The following describes F<File::Path> limitations and how to report bugs.

=head2 MULTITHREADED APPLICATIONS

F<File::Path> C<rmtree> and C<remove_tree> will not work with multithreaded applications due to its use of C<chdir>. At this time, no warning or error is generated in this situation. You will
certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the
F<File::Path::Tiny> module for functionality similar to F<File::Path> but which does
not C<chdir>.

=head2 NFS Mount Points

F<File::Path> is not responsible for triggering the automounts, mirror mounts,
and the contents of network mounted filesystems. If your NFS implementation
requires an action to be performed on the filesystem in order for
F<File::Path> to perform operations, it is strongly suggested you assure
filesystem availability by reading the root of the mounted filesystem.

=head2 REPORTING BUGS

Please report all bugs on the RT queue, either via the web interface:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

or by email:

    bug-File-Path@rt.cpan.org

In either case, please B<attach> patches to the bug report rather than
including them inline in the web post or the body of the email.

You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan
O'Dea wrote an implementation for Debian that addressed the problem.
That code was used as a basis for the current code. Their efforts
are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for
2.07 and his advice and assistance is also greatly appreciated.

=head1 AUTHORS

Prior authors and maintainers: Tim Bunce, Charles Bailey, and
David Landgren <F<david@landgren.net>>.

Current maintainers are Richard Elberger <F<riche@cpan.org>> and
James (Jim) Keenan <F<jkeenan@cpan.org>>.
CONTRIBUTORS

Contributors to File::Path, in alphabetical order by first name.

Charlie Gonzalez <itcharlie@cpan.org>
Craig A. Berry <craigberry@mac.com>
James E Keenan <jkeenan@cpan.org>
John Lightsey <john@perlsec.org>
Nigel Horne <njh@bandsman.co.uk>
Richard Elberger <riche@cpan.org>
Ryan Yee <ryee@cpan.org>
Skye Shaw <shaw@cpan.org>
Tom Lutz <tommylutz@gmail.com>
Will Sheppard <willsheppard@gmail.com>

COPYRIGHT

This module is copyright (C) Charles Bailey, Tim Bunce, David Landgren, James Keenan and Richard Elberger 1995-2017. All rights reserved.

LICENSE

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1178587664_1625692314.05/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-0UqTq70B/File-Path-2.15.tar.gz-cosi-expand-archive-QC7Qw6bg/File-Path-2.15/lib/File/Path.pm
No license file was found, but licenses were detected in source scan.
NAME
File::Path - Create or remove directory trees

INSTALLATION
  perl Makefile.PL
  make
  make test
make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
   ExtUtils::MakeMaker

To build:
   Cwd       File::Basename
   Exporter  File::Spec

To test:
   Carp      File::Spec::Functions
   Config    SelectSaver
   Cwd       Test::More
   Errno     Win32      # Windows only
   Fcntl

BUGS
The File-Path bug tracker is located at:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

File reports by sending email to:

   bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
Prior authors and maintainers: Tim Bunce, Charles Bailey, and David
Landgren (david at landgren dot net).

Current maintainers are Richard Elberger (riche at cpan dot org) and
James E Keenan (jkeenan at cpan dot org).

COPYRIGHT
This module is copyright (C) Charles Bailey, Tim Bunce, David Landgren,
James Keenan, and Richard Elberger 1995-2017. All rights reserved.

LICENSE
This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

Found in path(s):
   * /opt/cola/permits/1178587664_1625692314.05/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-0UqTq70B/File-Path-2.15.tar.gz-cosi-expand-archive-QC7Qw6bg/File-Path-2.15/README
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1178587664_1625692314.05/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-0UqTq70B/perl-File-Path.spec

1.274 fiddle 1.0.0
1.274.1 Available under license:
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS `AS IS` AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.275 libpwquality 1.4.4-3.el8
1.275.1 Available under license:
Unless otherwise explicitly stated the following text describes the licensed conditions under which the contents of this libpwquality release may be distributed:

Redistribution and use in source and binary forms of libpwquality, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission.

ALTERNATIVELY, this product may be distributed under the terms of the GNU General Public License version 2 or later, in which case the provisions of the GNU GPL are required INSTEAD OF the above restrictions.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The full text of the GNU GENERAL PUBLIC LICENSE Version 2 is included below.

-------------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANDABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.276 kpatch 0.9.2-3.el8
1.276.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.277 tevent 0.10.2-2.el8

1.277.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the
GNU General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.278 lua 5.3.4 11.el8

1.278.1 Available under license:

No license file was found, but licenses were detected in source scan.

--][
***************************************************************************
* Copyright (C) 1994-2016 Lua.org, PUC-Rio.
* *
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
* *
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
* *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*****************************************************************************
]]

No license file was found, but licenses were detected in source scan.

Copyright (c) 1994-2013 Lua.org, PUC-Rio.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

No license file was found, but licenses were detected in source scan.

Freely available under the terms of the
Lua is free software,

No license file was found, but licenses were detected in source scan.

Freely available under the terms of the
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019648978_1591375194.93/0/lua-5.3.4-11.el8.src.rpm-cosi-expand-archive-alE0FwEC/lua-5.3.4.tar.gz-cosi-expand-archive-KGIABfZM/lua-5.3.4/doc/readme.html

1.279 csv 1.0.0

1.279.1 Available under license:
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.280 openssl-pkcs11 0.4.10 2.el8

1.280.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts]
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.281 libxkbcommon 0.9.1 1.el8

1.281.1 Available under license:

The following is a list of all copyright notices and license statements which appear in the xkbcommon source tree.

If making new contributions, the first form (i.e. Daniel Stone, Ran Benita, etc) is vastly preferred.

All licenses are derivative of the MIT/X11 license, mostly identical other than no-endorsement clauses (e.g. paragraph 4 of The Open Group's license).

These statements are split into two sections: one for the code compiled and distributed as part of the libxkbcommon shared library and the code component of all tests (i.e. everything under src/ and xkbcommon/, plus the .c and .h files under test/), and another for the test data under test/data, which is distributed with the xkbcommon source tarball, but not installed to the system.

BEGINNING OF SOFTWARE COPYRIGHT/LICENSE STATEMENTS:

-------------------------------------------------------------------------------
Copyright 2009-2012, 2016 Daniel Stone
Copyright 2012 Ran Benita <ran234@gmail.com>
Copyright 2010, 2012 Intel Corporation
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------


Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the names of the authors or their institutions shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written
authorization from the authors.

--------------------------------------------------------------------------


Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Silicon Graphics not be used in advertising or publicity pertaining to distribution of the software without specific prior written permission. Silicon Graphics makes no representation about the suitability of this software for any purpose. It is provided "as is" without any express or implied warranty.

SILICON GRAPHICS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

--------------------------------------------------------------------------

Copyright 1987, 1988 by Digital Equipment Corporation, Maynard, Massachusetts.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------------------------------------------

Copyright (C) 2011 Joseph Adams <joeyadams3.14159@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------------

END OF SOFTWARE COPYRIGHT/LICENSE STATEMENTS

BEGINNING OF LICENSE STATEMENTS FOR UNDISTRIBUTED DATA FILES IN test/data, derived from xkeyboard-config:

-----------------------------------------------------------------------------------

Copyright 1996 by Joseph Moss
Copyright (C) 2002-2007 Free Software Foundation, Inc.
Copyright (C) Dmitry Golubev <lastguru@mail.ru>, 2003-2004
Copyright (C) 2004, Gregory Mokhin <mokhin@bog.msu.ru>

-----------------------------------------------------------------------------------
Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of the copyright holder(s) not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. The copyright holder(s) makes no
representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

THE COPYRIGHT HOLDER(S) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1992 by Oki Technosystems Laboratory, Inc.
Copyright 1992 by Fuji Xerox Co., Ltd.

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of Oki Technosystems
Laboratory and Fuji Xerox not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
Oki Technosystems Laboratory and Fuji Xerox make no representations
about the suitability of this software for any purpose. It is provided
"as is" without express or implied warranty.

OKI TECHNOSYSTEMS LABORATORY AND FUJI XEROX DISCLAIM ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OKI TECHNOSYSTEMS
LABORATORY AND FUJI XEROX BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
OR PERFORMANCE OF THIS SOFTWARE.
1.282 mailcap 2.1.48 3.el8

1.282.1 Available under license:

Red Hat disclaims any copyright on the "mailcap" and "mime-types" files and places them in the public domain. You are free to do whatever you wish with these files.

The mailcap.4 man page is under an MIT license:

Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)

Permission to use, copy, modify, and distribute this material for any purpose and without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Bellcore not be used in advertising or publicity pertaining to this material without the specific, prior written permission of an authorized representative of Bellcore. BELLCORE MAKES NO REPRESENTATIONS ABOUT THE ACCURACY OR SUITABILITY OF THIS MATERIAL FOR ANY PURPOSE. IT IS PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES.

Tom Callaway, Fedora Legal, Red Hat
Thu Sep 17, 2009

1.283 libcap 2.26 4.el8

1.283.1 Available under license:

Unless otherwise *explicitly* stated the following text describes the licensed conditions under which the contents of this module release may be distributed:

Redistribution and use in source and binary forms of this module, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission.

ALTERNATIVELY, this product may be distributed under the terms of the GNU Library General Public License, in which case the provisions of the GNU LGPL are required INSTEAD OF the above restrictions. (This clause is necessary due to a potential conflict between the GNU LGPL and the restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------

Unless otherwise *explicitly* stated, the following text describes the licensed conditions under which the contents of this libcap release may be used and distributed:

-------------------------------------------------------------------------

Redistribution and use in source and binary forms of libcap, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission.

ALTERNATIVELY, this product may be distributed under the terms of the GNU General Public License (v2.0 - see below), in which case the provisions of the GNU GPL are required INSTEAD OF the above
restrictions. (This clause is necessary due to a potential conflict between the GNU GPL and the restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------
-------------------------
Full text of gpl-2.0.txt:
-------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.284 microcode-ctl 20210216-
1.20210608.1.el8_4
1.284.1 Available under license :
Copyright (c) 2018-2021 Intel Corporation.
All rights reserved.

Redistribution.

Redistribution and use in binary form, without modification, are permitted,
provided that the following conditions are met:

1. Redistributions must reproduce the above copyright notice and the
   following disclaimer in the documentation and/or other materials provided
   with the distribution.

2. Neither the name of Intel Corporation nor the names of its suppliers may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

3. No reverse engineering, decompilation, or disassembly of this software
"Binary form" includes any format that is commonly used for electronic conveyance that is a reversible, bit-exact translation of binary representation to ASCII or ISO text, for example "uuencode".

DISCLAIMER.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2018-2019 Intel Corporation.
All rights reserved.

Redistribution.

Redistribution and use in binary form, without modification, are permitted, provided that the following conditions are met:

1. Redistributions must reproduce the above copyright notice and the following disclaimer in the documentation and/or other materials provided with the distribution.

2. Neither the name of Intel Corporation nor the names of its suppliers may be used to endorse or promote products derived from this software without specific prior written permission.

3. No reverse engineering, decompilation, or disassembly of this software is permitted.

"Binary form" includes any format that is commonly used for electronic conveyance that is a reversible, bit-exact translation of binary representation to ASCII or ISO text, for example "uuencode".

DISCLAIMER.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
1.285 grub2 2.02-99.el8

1.285.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system.
(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work’s users, your or third parties’ legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not 
invalidates such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display 
Appropriate Legal Notices; however, if the Program has interactive 
interfaces that do not display Appropriate Legal Notices, your 
work need not make them do so.

A compilation of a covered work with other separate and independent 
works, which are not by their nature extensions of the covered work, 
and which are not combined with it such as to form a larger program, 
in or on a volume of a storage or distribution medium, is called an 
"aggregate" if the compilation and its resulting copyright are not 
used to limit the access or legal rights of the compilation's users 
beyond what the individual works permit. Inclusion of a covered work 
in an aggregate does not cause this License to apply to the other 
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms 
of sections 4 and 5, provided that you also convey the 
machine-readable Corresponding Source under the terms of this License, 
in one of these ways:

a) Convey the object code in, or embodied in, a physical product 
(including a physical distribution medium), accompanied by the 
Corresponding Source fixed on a durable physical medium 
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product 
(including a physical distribution medium), accompanied by a 
written offer, valid for at least three years and valid for as 
long as you offer spare parts or customer support for that product 
model, to give anyone who possesses the object code either (1) a 
copy of the Corresponding Source for all the software in the 
product that is covered by this License, on a durable physical 
medium customarily used for software interchange, for a price no 
more than your reasonable cost of physically performing this 
conveying of source, or (2) access to copy the 
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the 
written offer to provide the Corresponding Source. This 
alternative is allowed only occasionally and noncommercially, and 
only if you received the object code with such an offer, in accord 
with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright...
holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

    Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

    Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


    You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

    Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

    An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

    You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2011 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

1.286 librepo 1.12.0-3.el8
1.286.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above,

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU 
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public 
License along with this library; if not, write to the Free Software 
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your 
school, if any, to sign a "copyright disclaimer" for the library, if 
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the 
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.287 python-requests 2.26.0
1.287.1 Available under license :

Requests
Copyright 2019 Kenneth Reitz

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, 
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by 
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all 
other entities that control, are controlled by, or are under common 
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all...
other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.288 libgpg-error 1.31 1.el8
1.288.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it.
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations
When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

1.289 tpm2-tss 2.3.2-3.el8

1.289.1 Available under license:
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.290 geolite2 20180605-1.el8

1.290.1 Available under license:
This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-sa/4.0/.

This database incorporates GeoNames [http://www.geonames.org] geographical data, which is made available under the Creative Commons Attribution 3.0 License. To view a copy of this license, visit http://www.creativecommons.org/licenses/by/3.0/us/.

Database and Contents Copyright (c) 2018 MaxMind, Inc.

1.291 google-go-cmp v0.3.1

1.291.1 Available under license:
Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.292 six 1.11.0

1.292.1 Available under license:

The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
Alexander Artemenko
Aymeric Augustin
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Tim Graham
Thomas Grainger
Max Grender-Jones
Joshua Harlow
Anselm Kruis
Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.293 gsettings-desktop-schemas 3.32.0 5.el8

1.293.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.294 nss 3.53.1 17.el8_3

1.294.1 Available under license:

NSS is available under the Mozilla Public License, version 2, a copy of which is below.

Note on GPL Compatibility
--------------------------

The MPL 2, section 3.3, permits you to combine NSS with code under the GNU General Public License (GPL) version 2, or any later version of that license, to make a Larger Work, and distribute the result under the GPL. The only condition is that you must also make NSS, and any changes you have made to it, available to recipients under the terms of the MPL 2 also.

Anyone who receives the combined code from you does not have to continue to dual licence in this way, and may, if they wish, distribute under the terms of either of the two licences - either the MPL alone or the GPL alone. However, we discourage people from distributing copies of NSS under the GPL alone, because it means that any improvements they make cannot be reincorporated into the main version of NSS. There is never a need to do this for license compatibility reasons.

Note on LGPL Compatibility
--------------------------

The above also applies to combining MPLed code in a single library with code under the GNU Lesser General Public License (LGPL) version 2.1, or any later version of that license. If the LGPLed code and the MPLed code are not in the same library, then the copyleft coverage of the two licences does not overlap, so no issues arise.

Mozilla Public License Version 2.0
==================================
1. Definitions

1.1. "Contributor"
   means each individual or legal entity that creates, contributes to
   the creation of, or owns Covered Software.

1.2. "Contributor Version"
   means the combination of the Contributions of others (if any) used
   by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
   means Covered Software of a particular Contributor.

1.4. "Covered Software"
   means Source Code Form to which the initial Contributor has attached
   the notice in Exhibit A, the Executable Form of such Source Code
   Form, and Modifications of such Source Code Form, in each case
   including portions thereof.

1.5. "Incompatible With Secondary Licenses"
   means

   (a) that the initial Contributor has attached the notice described
       in Exhibit B to the Covered Software; or

   (b) that the Covered Software was made available under the terms of
       version 1.1 or earlier of the License, but not also under the
       terms of a Secondary License.

1.6. "Executable Form"
   means any form of the work other than Source Code Form.

1.7. "Larger Work"
   means a work that combines Covered Software with other material, in
   a separate file or files, that is not Covered Software.

1.8. "License"
   means this document.

1.9. "Licensable"
   means having the right to grant, to the maximum extent possible,
   whether at the time of the initial grant or subsequently, any and
   all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:
(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form" means the form of the work preferred for making modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software;

or

(b) for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version);

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary
3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the      *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,  *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any
8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.
10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

-------------------------------------------
This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

---------------------------------------------------------
This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.
This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
Copyright (c) 2006, CRYPTOGRAMS by <appro@openssl.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain copyright notices, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the CRYPTOGRAMS nor the names of its copyright holder and contributors may be used to endorse or promote products derived from this software without specific prior written permission.

ALTERNATIVELY, provided that this notice is retained in full, this product may be distributed under the terms of the GNU General Public License (GPL), in which case the provisions of the GPL apply INSTEAD OF those given above.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Within this directory, each of the file listed below is licensed under the terms given in the file LICENSE-MPL, also in this directory.

```
basecvt.pod
gcd.pod
invmod.pod
isprime.pod
lap.pod
mpi-test.pod
prime.txt
prng.pod
```

# This file contains a list of people who've made non-trivial 
# contribution to the Google C++ Testing Framework project. People 
# who commit code to the project are encouraged to add their names 
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
1.295 fileutils 1.5.0.gem.data

1.295.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.296 libnsl2 1.2.0 2.20180605git4a062cf.el8

1.296.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.297 libtiff 4.0.9-18.el8

1.297.1 Available under license:
Copyright (c) 1988-1997 Sam Leffler
Copyright (c) 1991-1997 Silicon Graphics, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that (i) the above copyright notices and this permission notice appear in all copies of the software and related documentation, and (ii) the names of Sam Leffler and Silicon Graphics may not be used in any advertising or publicity relating to the software without the specific, prior written permission of Sam Leffler and Silicon Graphics.

THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.298 checkpolicy 2.9 1.el8
1.298.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.299 gettext 0.19.8.1 17.el8

1.299.1 Available under license:

The libasprintf package is under the LGPL, see file COPYING.LIB. This subpackage is under the GPL, see file COPYING in the toplevel directory.

@c The GNU Lesser General Public License.
@c center Version 2.1, February 1999

@c This file is intended to be included within another document,
c @c hence no sectioning command or @node.

display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

display

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
end display

subheading Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
We call this license the \textit{Lesser} General Public License because it does \textit{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \textit{Less} of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is \textit{Less} protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

\begin{verbatim}
\section{ TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION}
\item This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
\end{verbatim}
(which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item The modified work must itself be a software library.
@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs it.
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.
@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center @b{NO WARRANTY}

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
@end smallexample

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
@c The GNU General Public License.
@center Version 2, June 1991

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@heading Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The ``Program'', below, refers to any such program or work, and a ``work based on the Program'' means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term ``modification''.) Each licensee is addressed as ``you''.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item
Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

@item
You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
@end item

You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying the Program or works based on it.

@item
Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms. To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright` line and a pointer to where the full notice is found.

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@smallexample

Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the program, if necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

This is the file "copying.dj". It does NOT apply to any sources or binaries copyrighted by UCB Berkeley, the Free Software Foundation, or any other agency besides DJ Delorie and others who have agreed to allow their sources to be distributed under these terms.

Copyright Information for sources and executables that are marked
Copyright (C) DJ Delorie
    7 Kim Lane
    Rochester NH 03867-2954
This document is Copyright (C) DJ Delorie and may be distributed verbatim, but changing it is not allowed.

Source code copyright DJ Delorie is distributed under the terms of the GNU General Public Licence, with the following exceptions:

* Sources used to build crt0.o, gcrt0.o, libc.a, libdbg.a, and libemu.a are distributed under the terms of the GNU Library General Public License, rather than the GNU GPL.

* Any existing copyright or authorship information in any given source file must remain intact. If you modify a source file, a notice to that effect must be added to the authorship information in the source file.

* Runtime binaries, as provided by DJ in DJGPP, may be distributed without sources ONLY if the recipient is given sufficient information to obtain a copy of djgpp themselves. This primarily applies to go32-v2.exe, emu387.dxe, and stubedit.exe.

* Runtime objects and libraries, as provided by DJ in DJGPP, when linked into an application, may be distributed without sources ONLY if the recipient is given sufficient information to obtain a copy of djgpp themselves. This primarily applies to crt0.o and libc.a.

-----

Changes to source code copyright BSD, FSF, or others, by DJ Delorie fall under the terms of the original copyright. Such files usually have multiple copyright notices in them.

A copy of the files "COPYING" and "COPYING.LIB" are included with this document. If you did not receive a copy of these files, you may obtain one from whence this document was obtained, or by writing:

Free Software Foundation
51 Franklin Street, Fifth Floor
Boston, MA 02110-1301
USA

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions.
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.
All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that oblige you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

The gettext-runtime package is partially under the LGPL and partially under the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:
- the _programs_ gettext, ngettext, envsubst,
- the documentation.

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

@c The GNU Free Documentation License.
@c center Version 1.2, November 2002

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000,2001,2002 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA
@end display

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the
general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain \texttt{ASCII} without markup, \texttt{Texinfo} input format, \texttt{LaTeX} input format, \texttt{SGML} or \texttt{XML} using a publicly available \texttt{DTD}, and standard-conforming simple \texttt{HTML}. PostScript or \texttt{PDF} designed for human modification. Examples of transparent image formats include \texttt{PNG}, \texttt{XCF} and \texttt{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, \texttt{SGML} or \texttt{XML} for which the \texttt{DTD} and/or processing tools are not generally available, and the machine-generated \texttt{HTML}, PostScript or \texttt{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.
You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item

COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.
It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

- List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

- State on the Title page the name of the publisher of the Modified Version, as the publisher.

- Preserve all the copyright notices of the Document.

- Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

- Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

- Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various
parties—for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History"
in the various original documents, forming one section Entitled
"History"; likewise combine any sections Entitled "Acknowledgements",
and any sections Entitled "Dedications". You must delete all
sections Entitled "Endorsements."
@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.
@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
@end group
@end smallexample
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with@dots{}Texts." line with this:

```
@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

1.300 python-ply 3.9-9.el8

1.300.1 Available under license:

No license file was found, but licenses were detected in source scan.

```
# All rights reserved

Found in path(s):
* /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
  7j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZ5m5/pyly-3.9/pyly/cpp.py
No license file was found, but licenses were detected in source scan.

# All rights reserved.
# Redistribution and use in source and binary forms, with or without
```
# modification, are permitted provided that the following conditions are
# * Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# * Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
# * Neither the name of the David Beazley or Dabeaz LLC may be used to

Found in path(s):
  * /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
    j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZ5m5/ply-3.9/pl
    * /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
    j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZ5m5/ply-3.9/ply.yacc.py
  * /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
    j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZ5m5/ply-3.9/pl

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: ply
Version: 3.9
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:
   PLY is yet another implementation of lex and yacc for Python. Some notable
   features include the fact that its implemented entirely in Python and it
   uses LALR(1) parsing which is efficient and well suited for larger grammars.

   PLY provides most of the standard lex/yacc features including support for empty
   productions, precedence rules, error recovery, and support for ambiguous grammars.

   PLY is extremely easy to use and provides very extensive error checking.
   It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

Found in path(s):
  * /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
    j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZ5m5/ply-3.9/PKG-INFO
  * /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
    j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZ5m5/ply-3.9/ply.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

License: BSD

Found in path(s):
  * /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

# This work is hereby released into the Public Domain. To view a copy of
# the public domain dedication, visit

Found in path(s):
* /opt/cola/permits/1172581794_1623342423.61/0/python-ply-3.9-9.el8.src.rpm-cosi-expand-archive-
  7j2YNor7/ply-3.9.tar.gz-cosi-expand-archive-zpZoZsm5/ply-3.9/example/GardenSnake/GardenSnake.py
No license file was found, but licenses were detected in source scan.

PLY (Python Lex-Yacc) Version 3.9

Copyright (C) 2001-2016
David M. Beazley (Dabeaz LLC)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the David Beazley or Dabeaz LLC may be used to
  endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Introduction

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:
- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```
The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.
Special Note for PLY-3.0

========================

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3—it is not necessary and may in fact break the implementation.

Example

======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
#
# A simple calculator with variables.
#

tokens = (  
    'NAME', 'NUMBER',  
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',  
    'LPAREN', 'RPAREN',  
)

# Tokens

t_PLUS = r'\+'  
t_MINUS = r'-'  
t_TIMES = r'\*'  
t_DIVIDE = r'/'  
t_EQUALS = r'='  
t_LPAREN = r'('  
t_RPAREN = r')'  
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

# Ignored characters

t_ignore = " \
"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")
```
def t_error(t):
    print("Illegal character \"%s\" % t.value[0])
t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (  
    ('left','PLUS','MINUS'),  
    ('left','TIMES','DIVIDE'),  
    ('right','UMINUS'),  
)

# dictionary of names (for storing variables)
names = { }  

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression  
    | expression MINUS expression  
    | expression TIMES expression  
    | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]
def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
========================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

Found in path(s):

1.301 lshw-b B.02.19.2-5.el8
1.301.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.302 efivar 37-4.el8

1.302.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

______________________________________________________________________________________________
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 21835
may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

**NO WARRANTY**

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

**END OF TERMS AND CONDITIONS**

*How to Apply These Terms to Your New Libraries*

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.303 samba 4.13.3-4.el8_4
1.303.1 Available under license :
Attribution 4.0 International

Creative Commons Corporation ("Creative Commons") is not a law firm and does not provide legal services or legal advice. Distribution of Creative Commons public licenses does not create a lawyer-client or other relationship. Creative Commons makes its licenses and related information available on an "as-is" basis. Creative Commons gives no warranties regarding its licenses, any material licensed under their terms and conditions, or any related information. Creative Commons disclaims all liability for damages resulting from their use to the fullest extent possible.

Using Creative Commons Public Licenses

Creative Commons public licenses provide a standard set of terms and conditions that creators and other rights holders may use to share
original works of authorship and other material subject to copyright and certain other rights specified in the public license below. The following considerations are for informational purposes only, are not exhaustive, and do not form part of our licenses.

Considerations for licensors: Our public licenses are intended for use by those authorized to give the public permission to use material in ways otherwise restricted by copyright and certain other rights. Our licenses are irrevocable. Licensors should read and understand the terms and conditions of the license they choose before applying it. Licensors should also secure all rights necessary before applying our licenses so that the public can reuse the material as expected. Licensors should clearly mark any material not subject to the license. This includes other CC-licensed material, or material used under an exception or limitation to copyright. More considerations for licensors: wiki.creativecommons.org/Considerations_for_licensors

Considerations for the public: By using one of our public licenses, a licensor grants the public permission to use the licensed material under specified terms and conditions. If the licensor's permission is not necessary for any reason—for example, because of any applicable exception or limitation to copyright—then that use is not regulated by the license. Our licenses grant only permissions under copyright and certain other rights that a licensor has authority to grant. Use of the licensed material may still be restricted for other reasons, including because others have copyright or other rights in the material. A licensor may make special requests, such as asking that all changes be marked or described. Although not required by our licenses, you are encouraged to respect those requests where reasonable. More considerations for the public:
wiki.creativecommons.org/Considerations_for_licensees

Creative Commons Attribution 4.0 International Public License

By exercising the Licensed Rights (defined below), You accept and agree to be bound by the terms and conditions of this Creative Commons Attribution 4.0 International Public License (“Public License”). To the extent this Public License may be interpreted as a contract, You are granted the Licensed Rights in consideration of Your acceptance of these terms and conditions, and the Licensor grants You such rights in consideration of benefits the Licensor receives from making the Licensed Material available under these terms and conditions.
Section 1 -- Definitions.

a. Adapted Material means material subject to Copyright and Similar Rights that is derived from or based upon the Licensed Material and in which the Licensed Material is translated, altered, arranged, transformed, or otherwise modified in a manner requiring permission under the Copyright and Similar Rights held by the Licensor. For purposes of this Public License, where the Licensed Material is a musical work, performance, or sound recording, Adapted Material is always produced where the Licensed Material is synched in timed relation with a moving image.

b. Adapter's License means the license You apply to Your Copyright and Similar Rights in Your contributions to Adapted Material in accordance with the terms and conditions of this Public License.

c. Copyright and Similar Rights means copyright and/or similar rights closely related to copyright including, without limitation, performance, broadcast, sound recording, and Sui Generis Database Rights, without regard to how the rights are labeled or categorized. For purposes of this Public License, the rights specified in Section 2(b)(1)-(2) are not Copyright and Similar Rights.

d. Effective Technological Measures means those measures that, in the absence of proper authority, may not be circumvented under laws fulfilling obligations under Article 11 of the WIPO Copyright Treaty adopted on December 20, 1996, and/or similar international agreements.

e. Exceptions and Limitations means fair use, fair dealing, and/or any other exception or limitation to Copyright and Similar Rights that applies to Your use of the Licensed Material.

f. Licensed Material means the artistic or literary work, database, or other material to which the Licensor applied this Public License.

g. Licensed Rights means the rights granted to You subject to the terms and conditions of this Public License, which are limited to all Copyright and Similar Rights that apply to Your use of the Licensed Material and that the Licensor has authority to license.

h. Licensor means the individual(s) or entity(ies) granting rights under this Public License.
i. Share means to provide material to the public by any means or process that requires permission under the Licensed Rights, such as reproduction, public display, public performance, distribution, dissemination, communication, or importation, and to make material available to the public including in ways that members of the public may access the material from a place and at a time individually chosen by them.

j. Sui Generis Database Rights means rights other than copyright resulting from Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, as amended and/or succeeded, as well as other essentially equivalent rights anywhere in the world.

k. You means the individual or entity exercising the Licensed Rights under this Public License. Your has a corresponding meaning.

Section 2 -- Scope.

a. License grant.

1. Subject to the terms and conditions of this Public License, the Licensor hereby grants You a worldwide, royalty-free, non-sublicensable, non-exclusive, irrevocable license to exercise the Licensed Rights in the Licensed Material to:

   a. reproduce and Share the Licensed Material, in whole or in part; and

   b. produce, reproduce, and Share Adapted Material.

2. Exceptions and Limitations. For the avoidance of doubt, where Exceptions and Limitations apply to Your use, this Public License does not apply, and You do not need to comply with its terms and conditions.

3. Term. The term of this Public License is specified in Section 6(a).

4. Media and formats; technical modifications allowed. The Licensor authorizes You to exercise the Licensed Rights in all media and formats whether now known or hereafter created, and to make technical modifications necessary to do so. The Licensor waives and/or agrees not to assert any right or authority to forbid You from making technical modifications necessary to exercise the Licensed Rights, including technical modifications necessary to circumvent Effective
Technological Measures. For purposes of this Public License, simply making modifications authorized by this Section 2(a) (4) never produces Adapted Material.

5. Downstream recipients.

a. Offer from the Licensor -- Licensed Material. Every recipient of the Licensed Material automatically receives an offer from the Licensor to exercise the Licensed Rights under the terms and conditions of this Public License.

b. No downstream restrictions. You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, the Licensed Material if doing so restricts exercise of the Licensed Rights by any recipient of the Licensed Material.

6. No endorsement. Nothing in this Public License constitutes or may be construed as permission to assert or imply that You are, or that Your use of the Licensed Material is, connected with, or sponsored, endorsed, or granted official status by, the Licensor or others designated to receive attribution as provided in Section 3(a)(1)(A)(i).

b. Other rights.

1. Moral rights, such as the right of integrity, are not licensed under this Public License, nor are publicity, privacy, and/or other similar personality rights; however, to the extent possible, the Licensor waives and/or agrees not to assert any such rights held by the Licensor to the limited extent necessary to allow You to exercise the Licensed Rights, but not otherwise.

2. Patent and trademark rights are not licensed under this Public License.

3. To the extent possible, the Licensor waives any right to collect royalties from You for the exercise of the Licensed Rights, whether directly or through a collecting society under any voluntary or waivable statutory or compulsory licensing scheme. In all other cases the Licensor expressly reserves any right to collect such royalties.

Section 3 -- License Conditions.
Your exercise of the Licensed Rights is expressly made subject to the following conditions.

a. Attribution.

1. If You Share the Licensed Material (including in modified form), You must:

   a. retain the following if it is supplied by the Licensor with the Licensed Material:

      i. identification of the creator(s) of the Licensed Material and any others designated to receive attribution, in any reasonable manner requested by the Licensor (including by pseudonym if designated);

      ii. a copyright notice;

      iii. a notice that refers to this Public License;

      iv. a notice that refers to the disclaimer of warranties;

      v. a URI or hyperlink to the Licensed Material to the extent reasonably practicable;

   b. indicate if You modified the Licensed Material and retain an indication of any previous modifications; and

   c. indicate the Licensed Material is licensed under this Public License, and include the text of, or the URI or hyperlink to, this Public License.

2. You may satisfy the conditions in Section 3(a)(1) in any reasonable manner based on the medium, means, and context in which You Share the Licensed Material. For example, it may be reasonable to satisfy the conditions by providing a URI or hyperlink to a resource that includes the required information.

3. If requested by the Licensor, You must remove any of the information required by Section 3(a)(1)(A) to the extent reasonably practicable.

4. If You Share Adapted Material You produce, the Adapter's License You apply must not prevent recipients of the Adapted
Section 4 -- Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that apply to Your use of the Licensed Material:

a. for the avoidance of doubt, Section 2(a)(1) grants You the right to extract, reuse, reproduce, and Share all or a substantial portion of the contents of the database;

b. if You include all or a substantial portion of the database contents in a database in which You have Sui Generis Database Rights, then the database in which You have Sui Generis Database Rights (but not its individual contents) is Adapted Material; and

c. You must comply with the conditions in Section 3(a) if You Share all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not replace Your obligations under this Public License where the Licensed Rights include other Copyright and Similar Rights.

Section 5 -- Disclaimer of Warranties and Limitation of Liability.

a. UNLESS OTHERWISE SEPARATELY UNDERTAKEN BY THE LICENSOR, TO THE EXTENT POSSIBLE, THE LICENSOR OFFERS THE LICENSED MATERIAL AS-IS AND AS-AVAILABLE, AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE LICENSED MATERIAL, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHER. THIS INCLUDES, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OR ABSENCE OF ERRORS, WHETHER OR NOT KNOWN OR DISCOVERABLE. WHERE DISCLAIMERS OF WARRANTIES ARE NOT ALLOWED IN FULL OR IN PART, THIS DISCLAIMER MAY NOT APPLY TO YOU.

b. TO THE EXTENT POSSIBLE, IN NO EVENT WILL THE LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE) OR OTHERWISE FOR ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR OTHER LOSSES, COSTS, EXPENSES, OR DAMAGES ARISING OUT OF THIS PUBLIC LICENSE OR USE OF THE LICENSED MATERIAL, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES, COSTS, EXPENSES, OR DAMAGES. WHERE A LIMITATION OF LIABILITY IS NOT ALLOWED IN FULL OR IN PART, THIS LIMITATION MAY NOT APPLY TO YOU.
c. The disclaimer of warranties and limitation of liability provided above shall be interpreted in a manner that, to the extent possible, most closely approximates an absolute disclaimer and waiver of all liability.

Section 6 -- Term and Termination.

a. This Public License applies for the term of the Copyright and Similar Rights licensed here. However, if You fail to comply with this Public License, then Your rights under this Public License terminate automatically.

b. Where Your right to use the Licensed Material has terminated under Section 6(a), it reinstates:

1. automatically as of the date the violation is cured, provided it is cured within 30 days of Your discovery of the violation; or

2. upon express reinstatement by the Licensor.

For the avoidance of doubt, this Section 6(b) does not affect any right the Licensor may have to seek remedies for Your violations of this Public License.

c. For the avoidance of doubt, the Licensor may also offer the Licensed Material under separate terms or conditions or stop distributing the Licensed Material at any time; however, doing so will not terminate this Public License.

d. Sections 1, 5, 6, 7, and 8 survive termination of this Public License.

Section 7 -- Other Terms and Conditions.

a. The Licensor shall not be bound by any additional or different terms or conditions communicated by You unless expressly agreed.

b. Any arrangements, understandings, or agreements regarding the Licensed Material not stated herein are separate from and independent of the terms and conditions of this Public License.

Section 8 -- Interpretation.

a. For the avoidance of doubt, this Public License does not, and
shall not be interpreted to, reduce, limit, restrict, or impose conditions on any use of the Licensed Material that could lawfully be made without permission under this Public License.

b. To the extent possible, if any provision of this Public License is deemed unenforceable, it shall be automatically reformed to the minimum extent necessary to make it enforceable. If the provision cannot be reformed, it shall be severed from this Public License without affecting the enforceability of the remaining terms and conditions.

c. No term or condition of this Public License will be waived and no failure to comply consented to unless expressly agreed to by the Licensor.

d. Nothing in this Public License constitutes or may be interpreted as a limitation upon, or waiver of, any privileges and immunities that apply to the Licensor or You, including from the legal processes of any jurisdiction or authority.

=======================================================================

Creative Commons is not a party to its public licenses. Notwithstanding, Creative Commons may elect to apply one of its public licenses to material it publishes and in those instances will be considered the Licensor. The text of the Creative Commons public licenses is dedicated to the public domain under the CC0 Public Domain Dedication. Except for the limited purpose of indicating that material is shared under a Creative Commons public license or as otherwise permitted by the Creative Commons policies published at creativecommons.org/policies, Creative Commons does not authorize the use of the trademark "Creative Commons" or any other trademark or logo of Creative Commons without its prior written consent including, without limitation, in connection with any unauthorized modifications to any of its public licenses or any other arrangements, understandings, or agreements concerning use of licensed material. For the avoidance of doubt, this paragraph does not form part of the public licenses.

Creative Commons may be contacted at creativecommons.org.

The MIT License (MIT)
Copyright (c) Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

LibTomMath is hereby released into the Public Domain.

-- Tom St Denis

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.


You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

   A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

   A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

   Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

   In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

   If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
NOTE:

The licence on these schema files is not GPL, or a standard Open
Source licence. Be careful to redistribute these files as part of
Samba or 'your implementation', but not alone.

See each file for it's licence from Microsoft.
Copyright (c) 1998 Red Hat Software

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
distributed to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from the X Consortium.
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The IDL files in this directory are made available by the Samba Team
under the following license:

Permission to use, copy, modify, and distribute these interface
definitions for any purpose is hereby granted without fee.

This work is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
This is a copy of the standard copyright notice on most files in the
heimdal tree. This license is considered to be GPL compatible by the
Free Software Foundation (see http://www.fsf.org/licensing/licenses/index_html#GPLCompatibleLicenses)

Note that the list of copyright holders varies between the individual
files. Also note that this Samba4 MODIFIED VERSION may depend on GPL'ed
libraries.

Many thanks to the Heimdal developers for their support and
cooperation in the use of the heimdal code in Samba.

/*
 * Copyright (c) 1997 - 2005 Kungliga Tekniska Hgskolan and others.
 * (Royal Institute of Technology, Stockholm, Sweden).
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the Institute nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
* THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS ``AS IS'' AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  SUCH DAMAGE.
*/
Copyright 2006-2009 Johann C. Rocholl <johann@rocholl.net>
Copyright 2009-2014 Florent Xicluna <florent.xicluna@gmail.com>

Licensed under the terms of the Expat License

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
1.304 harfbuzz 1.7.5 3.el8

1.304.1 Available under license:

The following license applies to many of the fonts in this folder.

This Font Software is licensed under the SIL Open Font License, Version 1.1.

This license is copied below, and is also available with a FAQ at: http://scripts.sil.org/OFL

-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007
-----------------------------------------------------------

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software” refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name” refers to any names specified as such after the copyright statement(s).

"Original Version” refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version” refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the
components of the Original Version, by changing formats or by porting
the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical
writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Font Software, to use, study, copy, merge, embed,
modify, redistribute, and sell modified and unmodified copies of the
Font Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components, in
Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled,
redistributed and/or sold with any software, provided that each copy
contains the above copyright notice and this license. These can be
included either as stand-alone text files, human-readable headers or
in the appropriate machine-readable metadata fields within text or
binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font
Name(s) unless explicit written permission is granted by the
corresponding Copyright Holder. This restriction only applies to the
primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font
Software shall not be used to promote, endorse or advertise any
Modified Version, except to acknowledge the contribution(s) of the
Copyright Holder(s) and the Author(s) or with their explicit written
permission.

5) The Font Software, modified or unmodified, in part or in whole,
must be distributed entirely under this license, and must not be
distributed under any other license. The requirement for fonts to
remain under this license does not apply to any document created using
the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE
COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

The contents of this directory are licensed under the following terms:

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.

For parts of HarfBuzz that are licensed under different licenses see individual files names COPYING in subdirectories where applicable.

Copyright 2012 Mozilla Foundation
Copyright 2011 Codethink Limited
Copyright 2008,2010 Nokia Corporation and/or its subsidiary(-ies)
Copyright 2009 Keith Stribley
Copyright 2009 Martin Hosken and SIL International
Copyright 2007 Chris Wilson
Copyright 2006 Behdad Esfahbod
Copyright 2005 David Turner
Copyright 1998-2004 David Turner and Werner Lemberg

For full copyright notices consult the individual files in the package.

Permission is hereby granted, without written agreement and without license or royalty fees, to use, copy, modify, and distribute this software and its documentation for any purpose, provided that the above copyright notice and the following two paragraphs appear in all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

Copyright 2016 Unicode Inc. All rights reserved.

Licensed under the Apache License, Version2.0 (the License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

CC BY-NC-SA 3.0
http://www.curile.org/software/license/CreativeCommons.html
https://creativecommons.org/licenses/by-nc-sa/3.0/
Copyright (c) 2010 Red Hat Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.305 glib-networking 2.56.1 1.1.el8
1.305.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

LICENSE EXCEPTION FOR OPENSSL

* In addition, as a special exception, the copyright holders give permission to link the code of portions of this program with
* OpenSSL library, and distribute linked combinations including the two.
* You must obey the GNU Library General Public License in all respects for all of the code used other than OpenSSL. If you modify
* file(s) with this exception, you may extend this exception to your
* version of the file(s), but you are not obligated to do so. If you
* do not wish to do so, delete this exception statement from your
* version. If you delete this exception statement from all source
* files in the program, then also delete it here.
In jurisdictions that recognize copyright laws, the author or authors of this software dedicate any and all copyright interest in the software to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org/>
Copyright (c) 2016 The humantime Developers

Includes parts of http date with the following copyright:
Copyright (c) 2016 Pyfisch

Includes portions of musl libc with the following copyright:
Copyright 2005-2013 Rich Felker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015 The quick-error Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License (MIT)

Copyright (c) 2015 Andrew Gallant

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

!<arch>
/ 1516160780 0 0 0 260 ` H&&
Copyright (c) 2017 Redox OS Developers

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 The rust-unreachable Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights
open source used in kenna virtual tunnel and agent 2021.08 21886

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the software, and to permit persons to whom the software is furnished to do so, subject to the following conditions:

the above copyright notice and this permission notice shall be included in all copies or substantial portions of the software.

the software is provided "as is", without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and noninfringement. in no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software.

this project is dual-licensed under the unlicense and mit licenses.

you may use this code under the terms of either license.

apache license
version 2.0, january 2004

http://www.apache.org/licenses/

terms and conditions for use, reproduction, and distribution

1. definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and limitations under the License.

MIT License

Copyright (c) 2018 Michal Sekletr <msekleta@redhat.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2016 Ticki

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015-2017 Doug Tangren

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014 Alex Crichton

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge,
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 David Cuddeback

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010 The Rust Project Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 The winapi-rs Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 The winapi-rs Developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Y. T. CHUNG

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following license covers testregex.c and all associated test data.

Permission is hereby granted, free of charge, to any person obtaining a copy of THIS SOFTWARE FILE (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following disclaimer:

THIS SOFTWARE IS PROVIDED BY AT&T "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL AT&T BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
MIT License

Copyright (c) 2017 Redox OS

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.307 python-six 1.11.0 8.el8

1.307.1 Available under license :

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
1.308 glibc 2.28-151.el8

1.308.1 Available under license:

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the Lesser General Public License because it does to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library" and a `work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called `this License'). Each licensee is addressed as `you'.

A `library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The `Library", below, refers to any such software library or work which has been distributed under these terms. A `work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center @b{NO WARRANTY}

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY ""AS IS"" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
`copyright` line and a pointer to where the full notice is found.

```
Copyright (C) [year] [name of author]
This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published
by the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.
This library is distributed in the hope that it will be useful, but
```
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

@end smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
"Frob" (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
   software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
   explicit claim or by omission. Since few users ever read sources,
   credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
   misrepresented as being the original software. Since few users
   ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any
later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program’s name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

**NO WARRANTY**

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

**END OF TERMS AND CONDITIONS**

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.
```
This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

This file contains the copying permission notices for various files in the GNU C Library distribution that have copyright owners other than the Free Software Foundation. These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software.
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC Berkeley, by Digital Equipment Corporation and by Internet Software Consortium. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the
software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNegie MELLon ALLOWS FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION. CARNegie MELLon DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or extensions that they make and grant Carnegie Mellon the rights to redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNegie MELLon UNIVERSITY AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:
Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled as not being for redistribution (check the version message and/or README), you are not permitted to redistribute that version of the software in any way or form.

1. All terms of the all other applicable copyrights and licenses must be followed.
2. Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please see <http://www.gnu.org/licenses/> to obtain a copy.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the copyright holder not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved. This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it, subject to the following restrictions:

1. The author is not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.
2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any computer system, and to redistribute it freely, subject to the following restrictions:

1. This software is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by explicit claim or by omission. In practice, this means that if you use PCRE in software that you distribute to others, commercially or otherwise, you must put a sentence like this

   Regular expression support is provided by the PCRE library package, which is open source software, written by Philip Hazel, and copyright by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant files or online help data or similar. A reference to the ftp site for the source, that is, to

   ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

should also be given in the documentation. However, this condition is not intended to apply to whole chains of software. If package A includes PCRE, it must acknowledge it, but if package B is software that includes package A, the condition is not imposed on package B (unless it uses PCRE independently).

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
then the terms of that licence shall supersede any condition above with which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, see <http://www.gnu.org/licenses/>. */

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF online code charts under the directory http://www.unicode.org/Public/.

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE
Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
c hence no sectioning command or @node.

display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
display

@enumerate 0
@item
PREAMBLE
The purpose of this License is to make a manual, textbook, or other functional and useful document \textit{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of \textit{``copyleft''}, which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

\textbf{APPLICABILITY AND DEFINITIONS}

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The \textit{``Document''}, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as \textit{``you''}. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A \textit{``Modified Version''} of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A \textit{``Secondary Section''} is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding
them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.
The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ''Dedications'', ''Endorsements'', or ''History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

1. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

2. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.
@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History": likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RE LICENSING

``Massive Multiauthor Collaboration Site’’ (or “MMC Site”) means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A “Massive Multiauthor Collaboration” (or “MMC”) contained in the site means any set of copyrightable works thus published on the MMC site.

“CC-BY-SA” means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

“Incorporate” means to publish or republish a Document, in whole or
An MMC is `eligible for relicensing` if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```
Copyright (C)  @var{year}  @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `with@dots{}Texts.`@: line with this:

```
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.
If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.309 mokutil 0.3.0-11.el8

1.309.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.
No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated...
place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.
The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.310 libproxy 0.4.15 5.2.el8
1.310.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.311.1 Available under license:

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided...
that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall
under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.313 pydbus 0.6.0
1.313.1 Available under license:
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.314 diffutils 3.6 6.el8
1.314.1 Available under license:
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}
@end display

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.
This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title"
of such a section when you modify the Document means that it remains a
section “Entitled XYZ” according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties; any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.
@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

Termination

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.
The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) \@var{year} \@var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled \``GNU Free Documentation License\''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the \``with@dots{}Texts.@:\'' line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users.
beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.
Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.315 sdbm 1.0.0
1.315.1 Available under license :
MIT License

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.316 perl-pod-escapes 1.07-395.el8
1.316.1 Available under license :
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-
expand-archive-AcQE8bnL/perl-Pod-Escapes.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
...la la la, parsing POD, la la la...
$text = e2char($e_node->label);
unless(defined $text) {
    print "Unknown E sequence \"", $e_node->label, "\"!";
}
...else print/interpolate $text...

=head1 DESCRIPTION

This module provides things that are useful in decoding Pod EE<lt>...E<gt> sequences. Presumably, it should be used only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But you can request any of them to be exported. Either request them individually, as with
C<use Pod::Escapes qw(symbolname symbolname2...)>;
or you can do C<use Pod::Escapes qw(:ALL)> to get all exportable symbols.

=head1 GOODIES

=item e2char($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the string that it stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return "/", because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/". If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the number of the Unicode character that this stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return 47, because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>> like "eacute" or "sol"
to the string that each stands for. Note that this does not
include numerics (like "64" or "x981c"). Under old Perl versions
(before 5.7) you get a "?" in place of characters whose Unicode
value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute" or "sol"
to the Unicode value that each stands for. For example,
C<$Name2character_number{'eacute'}> is 201, and
C<$Name2character_number{'eacute'}> is 8364. You get the correct
Unicode value, regardless of the version of Perl you're using --
which differs from C<%Name2character>'s behavior under pre-5.7 Perls.

Note that this hash does not
include numerics (like "64" or "x981c").

=item $Latin1Code_to_fallback{I<integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps
from the character code for a Latin-1 character (like 233 for
lowercase e-acute) to the US-ASCII character that best approximates
it (like "e"). You may find this useful if you are rendering
POD in a format that you think deals well only with US-ASCII
characters.

=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "xE9",
lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding
character (like space, for 32). Only characters 32 to 126 are
defined. This is meant for use by C<e2char($x)> when it senses
that it's running on a non-ASCII platform (where chr(32) doesn't
get you a space -- but $Code2USASCII{32} will). It's
documented here just in case you might find it useful.

=back

=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value
over 255 (like lambda or emdash) can't be conveyed. This
module does work under such early Perl versions, but in the
place of each such character, you get a "?".
characters (characters 160-255) are unaffected.

Under EBCDIC platforms, \texttt{C\textasciitilde e2char($n)} may not always be the same as \texttt{C\textasciitilde chr(e2charnum($n))}, and ditto for \texttt{C\$Name2character{$name}} and \texttt{C\textasciitilde chr($Name2character_number{$name})}, because the strings are returned as native, and the numbers are returned as Unicode. However, for Perls starting with v5.8, \texttt{C\textasciitilde e2char($n)} is the same as \texttt{C\textasciitilde chr(utf8::unicode_to_native(e2charnum($n)))}, and ditto for \texttt{C\$Name2character{$name}} and \texttt{C\textasciitilde chr(utf8::unicode_to_native($Name2character_number{$name}))}.

=head1 SEE ALSO

L\textasciitilde Pod::Browser\textasciitilde - a pod web server based on L\textasciitilde Catalyst\textasciitilde.

L\textasciitilde Pod::Checker\textasciitilde - check pod documents for syntax errors.

L\textasciitilde Pod::Coverage\textasciitilde - check if the documentation for a module is comprehensive.

L\textasciitilde perlpod\textasciitilde - description of pod format (for people documenting with pod).

L\textasciitilde perlpodspec\textasciitilde - specification of pod format (for people processing it).

L\textasciitilde Text::Unidecode\textasciitilde - ASCII transliteration of Unicode text.

=head1 REPOSITORY

L\textasciitilde https://github.com/neilbowers/Pod-Escapes\textasciitilde

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2001-2004 Sean M. Burke. All rights reserved.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

Portions of the data tables in this module are derived from the entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent
=head1 AUTHOR
Sean M. Burke C<sburke@cpan.org>
Now being maintained by Neil Bowers E<lt>neilb@cpan.orgE<gt>
=cut
#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# What I used for reading the XHTML .ent files:
my(@norms, @good, @bad);
my $dir = 'c:/sgml/docbook/';
my %escapes;
foreach my $file (qw(
xhtml-symbol.ent
xhtml-lat1.ent
xhtml-special.ent
)) {
open(IN, "<$dir$file") or die "can't read-open $dir$file: $!";
print "Reading $file...\n";
while(<IN>) {
if(m/<!ENTITY\s+(\S+)\s+"&#([^;]+);">/) {
my($name, $value) = ($1,$2);
next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';
$value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/s;
print "ILLEGAL VALUE $value" unless $value =~ m/^\d+$/s;
if($value > 255) {
push @good , sprintf " %-10s , chr(%s),\n", "'$name'", $value;
push @bad , sprintf " %-10s , \$bad,\n", "'$name'", $value;
} else {
push @norms, sprintf " %-10s , chr(%s),\n", "'$name'", $value;
}
} elsif(m/<!ENT/) {
print "# Skipping $_";
}
}
close(IN);
}
print @norms;
print "\n ( \$] .= 5.006001 ? (\n";
print @good;
print " ) : (\n";

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22023


Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-GKGiQNjB/Pod-Escapes-1.07/lib/Pod/Escape.pm

No license file was found, but licenses were detected in source scan.

---

abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Escapes
no_index:
directory:
  - t
  - inc
requires:
  Exporter: '0'
  perl: '5.006'
  strict: '0'
  vars: '0'
  warnings: '0'
resources:
  repository: git://github.com/neilbowers/Pod-Escapes.git
  version: '1.07'

Found in path(s):
1.317 man-db 2.7.6.1 17.el8

1.317.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.318 newt 0.52.20 11.el8

1.318.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.319 dbus-python 1.2.4
1.319.1 Available under license:
As of version 0.82.4, dbus-python is released under the following permissive non-copyleft license (the same one that was proposed for D-Bus core but wasn't achieved):

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright holders and licensing are indicated in the source files.

1.320 crontabs 1.11-17.20190603git.el8
1.320.1 Available under license :
Public Domain

------------------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering
equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy  name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.321 parted 3.2 38.el8
1.321.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through
An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding
The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of
Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor’s essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient’s use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008
This file is intended to be included within another document, hence no sectioning command or @node.

@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission
A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples
of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page” means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page” means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher” means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ” means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements”, “Dedications”, “Endorsements”, or “History”.) To "Preserve the Title” of such a section when you modify the Document means that it remains a section “Entitled XYZ” according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item 
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

State on the Title page the name of the publisher of the Modified Version, as the publisher.

Preserve all the copyright notices of the Document.

Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

Include an unaltered copy of this License.

Preserve the section Entitled ``History''. Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License “or any later version” applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy’s public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item

RELICENSING
"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@end page

@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License``.
@end group
@end smallexample
If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with@dots{}Texts."@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
      the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
         being @var{list}.
   @end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

1.322 libkcapi 1.2.0-2.el8
1.322.1 Available under license :

Copyright (C) 2016 - 2020, Stephan Mueller <smueler@chronox.de>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

ALTERNATIVELY, this product may be distributed under the terms of the GNU General Public License, in which case the provisions of the GPL2 are required INSTEAD OF the above restrictions. (This clause is necessary due to a potential bad interaction between the GPL and the restrictions contained in a BSD-style copyright.)
THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
1.323.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU 
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public 
License along with this library; if not, write to the Free Software 
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your 
school, if any, to sign a "copyright disclaimer" for the library, if 
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the 
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.324 json-c 0.13.1-0.4.el8
1.324.1 Available under license:

Copyright (c) 2009-2012 Eric Haszlakiewicz

Permission is hereby granted, free of charge, to any person obtaining a 
copy of this software and associated documentation files (the "Software"), 
to deal in the Software without restriction, including without limitation 
the rights to use, copy, modify, merge, publish, distribute, sublicense, 
and/or sell copies of the Software, and to permit persons to whom the 
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included 
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR 
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, 
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE 
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER 
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, 
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE 
SOFTWARE.
Copyright (c) 2004, 2005 Metaparadigm Pte Ltd

Permission is hereby granted, free of charge, to any person obtaining a

copy of this software and associated documentation files (the "Software"),

to deal in the Software without restriction, including without limitation

the rights to use, copy, modify, merge, publish, distribute, sublicense,

and/or sell copies of the Software, and to permit persons to whom the

Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included

in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE

SOFTWARE.

1.325 sscg 2.3.3 14.el8

1.325.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for

software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.
A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:
a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.
"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

  e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

In addition, as a special exception, the copyright holders give
permission to link the code of portions of this program with the
OpenSSL library under certain conditions as described in each
individual source file, and distribute linked combinations
including the two.
You must obey the GNU General Public License in all respects
for all of the code used other than OpenSSL. If you modify
file(s) with this exception, you may extend this exception to your
version of the file(s), but you are not obligated to do so. If you
do not wish to do so, delete this exception statement from your
version. If you delete this exception statement from all source
files in the program, then also delete it here.

1.326 libgusb 0.3.0 1.el8
**Preamble**

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling.
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.327 perl-pod-perldoc 3.28 396.el8
1.327.1 Available under license :

The Artistic License
Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
"Copyright Holder" is whoever is named in the copyright or copyrights for the package.
"You" is you, if you're thinking about copying or distributing this Package.
"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.
6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.328 libunistring 0.9.9 3.el8

1.328.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.
A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.
"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.
Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.
Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
@c The GNU General Public License.
center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
@display

Copyright © 2007 Free Software Foundation, Inc. [http://fsf.org/]

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—-to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users’ freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without
permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such
circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
@item The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices''.

@item You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

1. Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

2. Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

3. Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

``Installation Information`` for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.
If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

@item Additional Terms.

``Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:
Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

Limiting the use for publicity purposes of names of licensors or authors of the material; or

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered ``further restrictions'' within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the
above requirements apply either way.

@item Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

@item Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

@item Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.
An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

@item Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

@item No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying
from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

@item Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

@item Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

@item Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@small-example

@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an `about box'.

You should also get your employer (if you work as a programmer) or school,
if any, to sign a `copyright disclaimer' for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
@url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your
program into proprietary programs. If your program is a subroutine
library, you may consider it more useful to permit linking proprietary
applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

The purpose of this License is to make a manual, textbook, or other functional and useful document \textit{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of \textit{``copyleft''}, which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The \textit{``Document''}, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as \textit{``you''}. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A \textit{``Modified Version''} of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.
A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain \texttt{ascii} without markup, Texinfo input format, \LaTeX{} input format, \acronym{SGML} or \acronym{XML} using a publicly available \acronym{DTD}, and standard-conforming simple \acronym{HTML}, PostScript or \acronym{PDF} designed for human modification. Examples of transparent image formats include \acronym{PNG}, \acronym{XCF} and \acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, \acronym{SGML} or \acronym{XML} for which the \acronym{DTD} and/or processing tools are not generally available, and the machine-generated \acronym{HTML}, PostScript or \acronym{PDF} produced by some word processors for
output purposes only.

The ``Title Page`` means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page`` means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher`` means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ`` means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements``, ``Dedications``, ``Endorsements``, or ``History``.) To ``Preserve the Title`` of such a section when you modify the Document means that it remains a section ``Entitled XYZ`` according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at
least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item Do not retitle any existing section to be Entitled ```Endorsements'' or to conflict in title with any Invariant Section.

@item Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ```Endorsements'', provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.
The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Deductions". You must delete all sections Entitled "Endorsements."

@item COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",
"Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC
`CC-BY-SA` means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

`Incorporate` means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is `eligible for relicensing` if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```smallexample
@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled `GNU Free Documentation License`.
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `with@dots{ }Texts.` line with this:

```smallexample
@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.329 markupsafe 2.0.1

1.329.1 Available under license:
No license file was found, but licenses were detected in source scan.

Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Found in path(s):
* /opt/cola/permits/1166365833_1621397079.41/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst

No license file was found, but licenses were detected in source scan.

License :: OSI Approved :: BSD License

Found in path(s):
* /opt/cola/permits/1166365833_1621397079.41/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg

1.330 mtr 0.92 3.el8
1.330.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
      stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in
      whole or in part contains or is derived from the Program or any
      part thereof, to be licensed as a whole at no charge to all third
      parties under the terms of this License.

   c) If the modified program normally reads commands interactively
      when run, you must cause it, when started running for such
      interactive use in the most ordinary way, to print or display an
      announcement including an appropriate copyright notice and a
      notice that there is no warranty (or else, saying that you provide
      a warranty) and that users may redistribute the program under
      these conditions, and telling the user how to view a copy of this
      License. (Exception: if the Program itself is interactive but
      does not normally print such an announcement, your work based
      on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w`.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.331 fwd v1.0.0
1.331.1 Available under license:
Copyright (c) 2014-2015, Philip Hofer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
1.332 cmath 1.0.0

1.332.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.333 grubby 8.40 41.el8

1.333.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author’s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.334 openvpn 2.4.11-1.el8
1.334.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable
      source code, which must be distributed under the terms of Sections
      1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
      years, to give any third party, for a charge no more than your
      cost of physically performing source distribution, a complete
      machine-readable copy of the corresponding source code, to be
      distributed under the terms of Sections 1 and 2 above on a medium
      customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
      allowed only for noncommercial distribution and only if you
      received the program in object code or executable form with such
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and “any
later version”, you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License version 2
as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

OpenVPN (TM) -- An Open Source VPN daemon

Copyright (C) 2002-2018 OpenVPN Inc <sales@openvpn.net>

This distribution contains multiple components, some
of which fall under different licenses. By using OpenVPN
or any of the bundled components enumerated below, you agree to be bound by the conditions of the license for each respective component.

OpenVPN trademark
-------------------
"OpenVPN" is a trademark of OpenVPN Inc

OpenVPN license:
----------------
OpenVPN is distributed under the GPL license version 2 (see Below).

Special exception for linking OpenVPN with OpenSSL:

In addition, as a special exception, OpenVPN Inc gives permission to link the code of this program with the OpenSSL library (or with modified versions of OpenSSL that use the same license as OpenSSL), and distribute linked combinations including the two. You must obey the GNU General Public License in all respects for all of the code used other than OpenSSL. If you modify this file, you may extend this exception to your version of the file, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

LZO license:
------------
LZO is Copyright (C) Markus F.X.J. Oberhumer, and is licensed under the GPL.

Special exception for linking OpenVPN with both OpenSSL and LZO:

Hereby I grant a special exception to the OpenVPN project (http://openvpn.net/) to link the LZO library with the OpenSSL library (http://www.openssl.org).

Markus F.X.J. Oberhumer

TAP-Win32/TAP-Win64 Driver license:
-----------------------------------
This device driver was inspired by the CIPE-Win32 driver by Damion K. Wilson.

The source and object code of the TAP-Win32/TAP-Win64 driver
is Copyright (C) 2002-2018 OpenVPN Inc, and is released under the GPL version 2.

Windows DDK Samples:
---------------------

The Windows binary distribution includes devcon.exe, a Microsoft DDK sample which is redistributed under the terms of the DDK EULA.

NSIS License:
-------------

Copyright (C) 2002-2003 Joost Verburg

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented;
you must not claim that you wrote the original software.
   If you use this software in a product, an acknowledgment in the
   product documentation would be appreciated but is not required.
2. Altered versions must be plainly marked as such,
   and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any distribution.

OpenSSL License:
----------------

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

/* ====================================================================
 * Copyright (c) 1998-2003 The OpenSSL Project. All rights reserved.
 * *
 * Redistribution and use in source and binary forms, with or without *
 * modification, are permitted provided that the following conditions *
 * are met:
 * *
 * 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.
* 
* 3. All advertising materials mentioning features or use of this
* software must display the following acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)
* 
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
* endorse or promote products derived from this software without
* prior written permission. For written permission, please contact
* openssl-core@openssl.org.
* 
* 5. Products derived from this software may not be called "OpenSSL"
* nor may "OpenSSL" appear in their names without prior written
* permission of the OpenSSL Project.
* 
* 6. Redistributions of any form whatsoever must retain the following
* acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit (http://www.openssl.org/)"
* 
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* 
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
* 
* */

Original SSLeay License

-----------------------
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to. The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code. The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 * "This product includes cryptographic software written by
 * Eric Young (eay@cryptsoft.com)"
 * The word 'cryptographic' can be left out if the rouines from the library
 * being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof) from
 * the apps directory (application code) you must include an acknowledgement:
 * "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
The licence and distribution terms for any publically available version or
derivative of this code cannot be changed. i.e. this code cannot simply be
copied and put under another distribution licence
*[including the GNU Public Licence.]*
*/

GNU Public License (GPL)
------------------------

OpenVPN, LZO, and the TAP-Win32 distributions are licensed under the GPL version 2 (see COPYRIGHT/GPL).

In the Windows binary distribution of OpenVPN, the GPL is reproduced below.

1.335 flex 2.6.1-9.el8

1.335.1 Available under license :

Flex carries the copyright used for BSD software, slightly modified because it originated at the Lawrence Berkeley (not Livermore!) Laboratory, which operates under a contract with the Department of Energy:


Copyright (c) 1990, 1997 The Regents of the University of California.
All rights reserved.

This code is derived from software contributed to Berkeley by Vern Paxson.

The United States Government has rights in this work pursuant to contract no. DE-AC03-76SF0098 between the United States Department of Energy and the University of California.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

This basically says "do whatever you please with this software except remove this notice or take advantage of the University's (or the flex authors') name".

Note that the "flex.skl" scanner skeleton carries no copyright notice. You are free to do whatever you please with scanners generated using flex; for them, you are not even bound by the above copyright.

1.336 rpcbind 1.2.5-8.el8
1.336.1 Available under license:

/*
 * Copyright (c) Copyright (c) Bull S.A. 2005 All Rights Reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.338 cavium-octeon 3.1.2
1.338.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

IMPORTANT: Read this Agreement carefully before clicking on the I accept button to download the Software and/or before using the Software.

This License Agreement (the Agreement) is a legal agreement between you, either an individual or a single legal entity (You or you), and Cavium Inc. (Cavium). This Agreement governs your use of the Cavium software that can be downloaded after accepting this Agreement and/or that is accompanied by this Agreement (the Software). You must accept the terms of this Agreement before downloading and/or using the Software.

By clicking on the I accept button to download and/or by using the Software, you are indicating that you have read and understood, and assent to be bound by, the terms of this Agreement. If you do not agree to the terms of the Agreement, you are not granted any rights whatsoever in the Software. If you are not willing to be bound by these terms and conditions, you should not use or cease all use of the Software.

This Software is the property of Cavium Inc. and constitutes the proprietary information of Cavium Inc.. You agree to take reasonable steps to prevent the disclosure, unauthorized use or unauthorized distribution of the Software to any third party.

License Grant. Subject to the terms and conditions of this Agreement, Cavium grants you a nonexclusive, non-transferable, worldwide, fully-paid and royalty-free license to install, reproduce, and execute the Software solely for your internal use.

Restrictions. The rights granted to you in this Agreement are subject to,
and you agree you will comply with, the following restrictions: (a) You
will not license, sell, rent, lease, transfer, assign, display, host,
outsource, disclose or otherwise commercially exploit or make the Software
available to any third party; (b) you will not modify, create derivative
works of, decompile, disassemble, extract, or otherwise reverse engineer
any part of the Software; (c) you will not access or use the Software in
order to create similar or competitive products, components, or services;
and (d) except as expressly stated herein, no part of the Software may be
copied (except for the making of a single archival copy), reproduced,
distributed, republished, downloaded, displayed, posted or transmitted in
any form or by any means.

Ownership. You acknowledge and agree that, subject to the license grant
contained in this Agreement and as between you and Cavium, Cavium owns all
copies of and intellectual property rights to the Software, however made,
and retains all rights in and to the Software, including all intellectual
property rights therein. There are no implied licenses under this
Agreement, and any rights not expressly granted to your hereunder are
reserved by Cavium. You will not, at any time, contest anywhere in the
world Caviums ownership of the intellectual property rights in and to
the Software.

Disclaimer of Warranties. The Software is provided to you free of charge,
and on an As-Is basis. Cavium provides no technical support,
warranties or remedies for the Software. Cavium and its suppliers
disclaim all express, implied or statutory warranties relating to the
Software, including but not limited to, merchantability, fitness for a
particular purpose, title, and non-infringement. Cavium does not warrant
that the Software and the use thereof will be error-free, that defects
will be corrected, or that the Software is free of viruses or other
harmful components. If applicable law requires any warranties with
respect to the Software, all such warranties are limited in duration to
thirty (30) days from the date of download or first use, whichever comes
first.

Limitation of Liability. Neither Cavium nor its suppliers shall be
responsible or liable with respect to any subject matter of this Agreement
or terms or conditions related thereto under any contract, negligence,
strict liability or other theory (a) for loss or inaccuracy of data or
cost of procurement of substitute goods, services or technology, or (b)
for any indirect, incidental or consequential damages including, but not
limited to loss of revenues and loss of profits. Caviums aggregate
cumulative liability hereunder shall not exceed the greater of Fifty U.S.
Dollars (U.S.$50.00) or the amount paid by you for the Software that
caused the damage. Certain states and/or jurisdictions do not allow the
exclusion of implied warranties or limitation of liability for incidental
or consequential damages, so the exclusions set forth above may not apply
to you.
Basis of Bargain. The warranty disclaimer and limitation of liability set forth above are fundamental elements of the basis of the agreement between Cavium and you. Cavium would not provide the Software without such limitations. The warranty disclaimer and limitation of liability inure to the benefit of Cavium and Cavium's suppliers.

Term and Termination. This Agreement and the licenses granted hereunder are effective on the date you accept the terms of this Agreement, download the Software, or use the Software, whichever comes first, and shall continue unless this Agreement is terminated pursuant to this section. This Agreement immediately terminates in the event that you materially breach any of the terms hereof. You may terminate this Agreement at any time, with or without cause, by destroying any copies of the Software in your possession. Upon termination, the license granted hereunder shall terminate but the Sections titled Restrictions, Ownership, Disclaimer of Warranties, Limitation of Liability, Basis of Bargain, Term and Termination, Export, and Miscellaneous will remain in effect.

Export. The Software and related technology are subject to U.S. export control laws and may be subject to export or import regulations in other countries. You agree to strictly comply with all such laws and regulations and acknowledges that you have the responsibility to obtain authorization to export, re-export, or import the Software and related technology, as may be required. You will indemnify and hold Cavium harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including attorneys fees) arising from or relating to any breach by you of your obligations under this section. Your obligations under this section shall survive the expiration or termination of this Agreement.

Miscellaneous. Neither the rights nor the obligations arising under this Agreement are assignable by you, and any such attempted assignment or transfer shall be void and without effect. This Agreement shall be governed by and construed in accordance with the laws of the State of California without regard to any conflicts of laws provisions that would require application of the laws of another jurisdiction. Any action under or relating to this Agreement shall be brought in the state and federal courts located in California, with venue in the courts located in Santa Clara County and each party hereby submits to the personal jurisdiction of such courts; provided, however, that nothing herein will operate to prohibit or restrict Cavium from filing for and obtaining injunctive relief from any court of competent jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. In the event that any provision of this Agreement is found to be contrary to law, then such provision shall be construed as nearly as possible to reflect the intention of the parties,
with the other provisions remaining in full force and effect. Any notice
to you may be provided by email. This Agreement constitutes the entire
agreement between the parties and supersedes all prior or contemporaneous,
agreements, understandings and communications between the parties, whether
written or oral, pertaining to the subject matter hereof. Any
modifications of this Agreement must be in writing and agreed to by both
parties.

Copyright (c) 2011, Cavium Inc. All rights reserved.
GNU Free Documentation License
Version 1.1, March 2000

Copyright (C) 2000  Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
written document "free" in the sense of freedom: to assure everyone
the effective freedom to copy and redistribute it, with or without
modifying it, either commercially or noncommercially. Secondarily,
this License preserves for the author and publisher a way to get
credit for their work, while not being considered responsible for
modifications made by others.

This License is a kind of "copyleft", which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work that contains a
notice placed by the copyright holder saying it can be distributed
under the terms of this License. The "Document", below, refers to any
such manual or work. Any member of the public is a licensee, and is
addressed as "you".

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (For example, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, whose contents can be viewed and edited directly and straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup has been designed to thwart or discourage subsequent modification by readers is not Transparent. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML designed for human modification. Opaque formats include PostScript, PDF, proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, "Title Page" means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies of the Document numbering more than 100,
and the Document's license notice requires Cover Texts, you must enclose
the copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a publicly-accessible computer-network location containing a complete
Transparent copy of the Document, free of added material, which the
general network-using public has access to download anonymously at no
charge using public-standard network protocols. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has less than five).

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.

E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section entitled "History", and its title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. In any section entitled "Acknowledgements" or "Dedications", preserve the section's title, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retile any existing section as "Endorsements" or to conflict in title with any Invariant Section.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.
5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections entitled "History" in the various original documents, forming one section entitled "History"; likewise combine any sections entitled "Acknowledgements", and any sections entitled "Dedications". You must delete all sections entitled "Endorsements."

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, does not as a whole count as a Modified Version of the Document, provided no compilation copyright is claimed for the compilation. Such a compilation is called an "aggregate", and this License does not apply to the other self-contained works thus compiled with the Document, on account of their being thus compiled, if they
are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one quarter of the entire aggregate, the Document's Cover Texts may be placed on covers that surround only the Document within the aggregate. Otherwise they must appear on covers around the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License provided that you also include the original English version of this License. In case of a disagreement between the translation and the original English version of this License, the original English version will prevail.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.1 or any later version published by the Free Software Foundation; with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have no Invariant Sections, write "with no Invariant Sections" instead of saying which ones are invariant. If you have no Front-Cover Texts, write "no Front-Cover Texts" instead of "Front-Cover Texts being LIST"; likewise for Back-Cover Texts.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

The newlib subdirectory is a collection of software from several sources.

Each file may have its own copyright/license that is embedded in the source file. Unless otherwise noted in the body of the source file(s), the following copyright notices will apply to the contents of the newlib subdirectory:

(1) Red Hat Incorporated

Copyright (c) 1994-2009 Red Hat, Inc. All rights reserved.

This copyrighted material is made available to anyone wishing to use, modify, copy, or redistribute it subject to the terms and conditions of the BSD License. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY expressed or implied, including the implied warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. A copy of this license is available at http://www.opensource.org/licenses. Any Red Hat trademarks that are incorporated in the source code or documentation are not subject to the BSD License and may only be used or replicated with the express permission of Red Hat, Inc.
(2) University of California, Berkeley

Copyright (c) 1981-2000 The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the University nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.
IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY
OF SUCH DAMAGE.


The author of this software is David M. Gay.

Copyright (c) 1991 by AT&T.

Permission to use, copy, modify, and distribute this software for any
purpose without fee is hereby granted, provided that this entire notice
is included in all copies of any software which is or includes a copy
or modification of this software and in all copies of the supporting
documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR AT&T MAKES ANY
REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
The author of this software is David M. Gay.

Copyright (C) 1998-2001 by Lucent Technologies
All Rights Reserved

Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that the copyright notice and this
permission notice and warranty disclaimer appear in supporting
documentation, and that the name of Lucent or any of its entities
not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

LUCENT DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.
IN NO EVENT SHALL LUCENT OR ANY OF ITS ENTITIES BE LIABLE FOR ANY
SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
 ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF
THIS SOFTWARE.

(4) Advanced Micro Devices

Copyright 1989, 1990 Advanced Micro Devices, Inc.

This software is the property of Advanced Micro Devices, Inc (AMD) which
specifically grants the user the right to modify, use and distribute this
software provided this notice is not removed or altered. All other rights
are reserved by AMD.

AMD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS
SOFTWARE. IN NO EVENT SHALL AMD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL
DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR
USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems
or suggestions about this software to the 29K Technical Support Center at
800-29-29-AMD (800-292-9263) in the USA, or 0800-89-1131 in the UK, or
0031-11-1129 in Japan, toll free. The direct dial number is 512-462-4118.

Advanced Micro Devices, Inc.
and the following disclaimer are preserved with no changes.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(10) Stephane Carrez (m68hc11-elf/m68hc12-elf targets only)

Copyright (C) 1999, 2000, 2001, 2002 Stephane Carrez (stcarrez@nerim.fr)

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(11) Christopher G. Demetriou

Copyright (c) 2001 Christopher G. Demetriou
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2002 SuperH, Inc. All rights reserved

This software is the property of SuperH, Inc (SuperH) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by SuperH.

SUPERH MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL SUPERH BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the SuperH Support Center via e-mail at softwaresupport@superh.com.

SuperH, Inc.
405 River Oaks Parkway
San Jose
CA 95134
USA

(13) Royal Institute of Technology

Copyright (c) 1999 Kungliga Tekniska Högskolan (Royal Institute of Technology, Stockholm, Sweden). All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of KTH nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(14) Alexey Zelkin

Copyright (c) 2000, 2001 Alexey Zelkin <phantom@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(15) Andrey A. Chernov

Copyright (C) 1997 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(16) FreeBSD

Copyright (c) 1997-2002 FreeBSD Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(17) S. L. Moshier

Author: S. L. Moshier.

Copyright (c) 1984,2000 S.L. Moshier

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy
or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, THE AUTHOR MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

(18) Citrus Project

Copyright (c)1999 Citrus Project,
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(19) Todd C. Miller

Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(20) DJ Delorie (i386)
Copyright (C) 1991 DJ Delorie
All rights reserved.

Redistribution and use in source and binary forms is permitted
provided that the above copyright notice and following paragraph are
duplicated in all such forms.

This file is distributed WITHOUT ANY WARRANTY; without even the implied
warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

(21) Free Software Foundation LGPL License (*-linux* targets only)

Copyright (C) 1990-1999, 2000, 2001 Free Software Foundation, Inc.
This file is part of the GNU C Library.
Contributed by Mark Kettenis <kettenis@phys.uva.nl>, 1997.

The GNU C Library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

The GNU C Library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with the GNU C Library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1301 USA.

(22) Xavier Leroy LGPL License (i[3456]86-*-linux* targets only)

Copyright (C) 1996 Xavier Leroy (Xavier.Leroy@inria.fr)
This program is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

(23) Intel (i960)

Copyright (c) 1993 Intel Corporation

Intel hereby grants you permission to copy, modify, and distribute this software and its documentation. Intel grants this permission provided that the above copyright notice appears in all copies and that both the copyright notice and this permission notice appear in supporting documentation. In addition, Intel grants this permission provided that you prominently mark as "not part of the original" any modifications made to this software or documentation, and that the name of Intel Corporation not be used in advertising or publicity pertaining to distribution of the software or the documentation without specific, written prior permission.

Intel Corporation provides this AS IS, WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Intel makes no guarantee or representations regarding the use of, or the results of the use of, the software and documentation in terms of correctness, accuracy, reliability, currentness, or otherwise; and you rely on the software, documentation and results solely at your own risk.

IN NO EVENT SHALL INTEL BE LIABLE FOR ANY LOSS OF USE, LOSS OF BUSINESS, LOSS OF PROFITS, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. IN NO EVENT SHALL INTEL'S TOTAL LIABILITY EXCEED THE SUM PAID TO INTEL FOR THE PRODUCT LICENSED HEREUNDER.

(24) Hewlett-Packard (hppa targets only)

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty:
permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notice and this notice appears in all
copies, and that the name of Hewlett-Packard Company not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose.

(25) Henry Spencer (only *-linux targets)

Copyright 1992, 1993, 1994 Henry Spencer. All rights reserved. This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it, subject to the following restrictions:

1. The author is not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

(26) Mike Barcroft

Copyright (c) 2001 Mike Barcroft <mike@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(27) Konstantin Chuguev (--enable-newlib-iconv)

Copyright (c) 1999, 2000
Konstantin Chuguev. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

Copyright (c) 2003, Artem B. Bityuckiy, SoftMine Corporation.
Rights transferred to Franklin Electronic Publishers.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(29) IBM, Sony, Toshiba (only spu-* targets)

(C) Copyright 2001,2006,
International Business Machines Corporation,
Sony Computer Entertainment, Incorporated,
Toshiba Corporation,

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the names of the copyright holders nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(30) - Alex Tatmanjants (targets using libc/posix)
Copyright (c) 1995 Alex Tatmanjants <alex@elvisti.kiev.ua>
at Electronni Visti IA, Kiev, Ukraine.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(31) - M. Warner Losh (targets using libc/posix)

Copyright (c) 1998, M. Warner Losh <imp@freebsd.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(32) - Andrey A. Chernov (targets using libc/posix)

Copyright (C) 1996 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(33) - Daniel Eischen (targets using libc/posix)

Copyright (c) 2001 Daniel Eischen <deischen@FreeBSD.org>.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(34) - Jon Beniston (only lm32-* targets)

Contributed by Jon Beniston <jon@beniston.com>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS `AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(35) - ARM Ltd (arm and thumb variant targets only)

Copyright (c) 2009 ARM Ltd
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the company may not be used to endorse or promote
products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ARM LTD "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ARM LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(36) - Xilinx, Inc. (microblaze-* and powerpc-* targets)

Copyright (c) 2004, 2009 Xilinx, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of Xilinx nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(37) Texas Instruments Incorporated (tic6x-* targets)
Copyright (c) 1996-2010 Texas Instruments Incorporated
http://www.ti.com/

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Texas Instruments Incorporated nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(38) National Semiconductor (cr16-* and crx-* targets)

Copyright (c) 2004 National Semiconductor Corporation

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Copyright (c) 2011 Cavium Inc. (support@cavium.com). All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Cavium Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH ALL FAULTS AND CAVIUM INC. MAKES NO PROMISES, REPRESENTATIONS
OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH
RESPECT TO THE SOFTWARE, INCLUDING ITS CONDITION, ITS CONFORMITY TO ANY
REPRESENTATION OR DESCRIPTION, OR THE EXISTENCE OF ANY LATENT OR PATENT
DEFECTS, AND CAVIUM SPECIFICALLY DISCLAIMS ALL IMPLIED (IF ANY) WARRANTIES
OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR
PURPOSE, LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET
POSSESSION OR CORRESPONDENCE TO DESCRIPTION. THE ENTIRE RISK ARISING OUT
OF USE OR PERFORMANCE OF THE SOFTWARE LIES WITH YOU.

License

LZMA SDK is placed in the public domain.

Lua License

-------

Lua is licensed under the terms of the MIT license reproduced below.
This means that Lua is free software and can be used for both academic
and commercial purposes at absolutely no cost.

For details and rationale, see http://www.lua.org/license.html .

===============================================================================

Copyright (C) 1994-2012 Lua.org, PUC-Rio.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

===============================================================================

(end of COPYRIGHT)

Note that this license is not endorsed by the Free Software Foundation.
It is available here as a convenience to readers of [1]the license
list.
The eCos license version 2.0

This file is part of eCos, the Embedded Configurable Operating System. Copyright (C) 1998, 1999, 2000, 2001, 2002 Red Hat, Inc.

eCos is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 or (at your option) any later version.

eCos is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with eCos; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

As a special exception, if other files instantiate templates or use macros or inline functions from this file, or you compile this file and link it with other works to produce a work based on this file, this file does not by itself cause the resulting work to be covered by the GNU General Public License. However the source code for this file must still be made available in accordance with section (3) of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on this file might be covered by the GNU General Public License.

Alternative licenses for eCos may be arranged by contacting Red Hat, Inc. at http://sources.redhat.com/ecos/ecos-license/

-------------------------------------------
####ECOSGPLCOPYRIGHTEND####

References

1. http://www.gnu.org/licenses/license-list.html
Licensing and contribution policy of dtc and libfdt

This dtc package contains two pieces of software: dtc itself, and libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct.
dtc does not incorporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have
different license conditions.

As the copyright banners in each source file attest, dtc is licensed under the GNU GPL. The full text of the GPL can be found in the file entitled ‘GPL’ which should be included in this package. dtc code, therefore, may not be incorporated into works which do not have a GPL compatible license.

libfdt, however, is GPL/BSD dual-licensed. That is, it may be used either under the terms of the GPL, or under the terms of the 2-clause BSD license (aka the ISC license). The full terms of that license are given in the copyright banners of each of the libfdt source files. This is, in practice, equivalent to being BSD licensed, since the terms of the BSD license are strictly more permissive than the GPL.

I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license makes it easier for vendors or authors of such software to do so.

This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused therby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk

The libgloss subdirectory is a collection of software from several sources.

Each file may have its own copyright/license that is embedded in the source file. Unless otherwise noted in the body of the source file(s), the following copyright notices will apply to the contents of the libgloss subdirectory:

(1) Red Hat Incorporated

Copyright (c) 1994-2009 Red Hat, Inc. All rights reserved.

This copyrighted material is made available to anyone wishing to use, modify, copy, or redistribute it subject to the terms and conditions of the BSD License. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY expressed or implied, including the implied warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. A copy of this license is available at http://www.opensource.org/licenses. Any Red Hat trademarks that are incorporated in the source code or documentation are not subject to the BSD License and may only be used or replicated with the express permission of Red Hat, Inc.

(2) University of California, Berkeley

Copyright (c) 1981-2000 The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the University nor the names of its contributors may
be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(3) DJ Delorie

Copyright (C) 1993 DJ Delorie
All rights reserved.

Redistribution and use in source and binary forms is permitted provided that the above copyright notice and following paragraph are duplicated in all such forms.

This file is distributed WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

(4) (formerly GPL for fr30)

The GPL is no longer applicable to the fr30 platform. The piece of code (syscalls.c) referencing the GPL has been officially relicensed.

(5) Advanced Micro Devices

Copyright 1989, 1990 Advanced Micro Devices, Inc.

This software is the property of Advanced Micro Devices, Inc (AMD) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by AMD.

AMD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL AMD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.
So that all may benefit from your experience, please report any problems or suggestions about this software to the 29K Technical Support Center at 800-29-29-AMD (800-292-9263) in the USA, or 0800-89-1131 in the UK, or 0031-11-1129 in Japan, toll free. The direct dial number is 512-462-4118.

Advanced Micro Devices, Inc.
29K Support Products
Mail Stop 573
5900 E. Ben White Blvd.
Austin, TX 78741
800-292-9263

(6) Array Technology Corporation and MIPS (mips/lsi33k-stub.h)

COPYRIGHT (C) 1991, 1992 ARRAY TECHNOLOGY CORPORATION
All Rights Reserved

This software is confidential information which is proprietary to and a trade secret of ARRAY Technology Corporation. Use, duplication, or disclosure is subject to the terms of a separate license agreement.

Copyright 1985 by MIPS Computer Systems, Inc.

(7) University of Utah and the Computer Systems Laboratory (CSL)
    [applies only to hppa-*-pro* targets]
Copyright (c) 1990,1994 The University of Utah and the Computer Systems Laboratory (CSL). All rights reserved.

Permission to use, copy, modify and distribute this software is hereby granted provided that (1) source code retains these copyright, permission, and disclaimer notices, and (2) distributions including binaries reproduce the notices in supporting documentation, and (3) all advertising materials mentioning features or use of this software display the following acknowledgement: "This product includes software developed by the Computer Systems Laboratory at the University of Utah."

THE UNIVERSITY OF UTAH AND CSL ALLOW FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION. THE UNIVERSITY OF UTAH AND CSL DISCLAIM ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

CSL requests users of this software to return to csl-dist@cs.utah.edu any improvements that they make and grant CSL redistribution rights.

(8) Sun Microsystems

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

(9) Hewlett Packard

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty:

permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notice and this notice appears in all copies, and that the name of Hewlett-Packard Company not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose.

(10) Hans-Peter Nilsson

Copyright (C) 2001 Hans-Peter Nilsson

Permission to use, copy, modify, and distribute this software is freely granted, provided that the above copyright notice, this notice and the following disclaimer are preserved with no changes.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(11) IBM Corp. spu processor (only spu-* targets)

(C) Copyright IBM Corp. 2005, 2006

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of IBM nor the names of its contributors may be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(12) Jon Beniston (only lm32-* targets)

Contributed by Jon Beniston <jon@beniston.com>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(13) - Xilinx, Inc. (microblaze-* and powerpc-* targets)

Copyright (c) 2004, 2009 Xilinx, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of Xilinx nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(14) - National Semiconductor Corporation

Copyright (c) 2004 National Semiconductor Corporation

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(15) - CodeSourcery, Inc. (tic6x-* targets)

Copyright (c) 2010 CodeSourcery, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of CodeSourcery nor the
names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CODESOURCERY, INC. ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL CODESOURCERY BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision` (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

IMPORTANT: Read this Agreement carefully before clicking on the I accept button to download the Software and/or before using the Software.

This License Agreement (the Agreement) is a legal agreement between you, either an individual or a single legal entity (You or you), and Cavium Inc. (Cavium). This Agreement governs your use of the Cavium software that can be downloaded after accepting this Agreement and/or that is accompanied by this Agreement (the Software). You must accept the terms of this Agreement before downloading and/or using the Software.

By clicking on the I accept button to download and/or by using the Software, you are indicating that you have read and understood, and assent to be bound by, the terms of this Agreement. If you do not agree to the terms of the Agreement, you are not granted any rights whatsoever in the Software. If you are not willing to be bound by these terms and conditions, you should not use or cease all use of the Software.

This Software is the property of Cavium Inc. and constitutes the proprietary information of Cavium Inc.. You agree to take reasonable steps to prevent the disclosure, unauthorized use or unauthorized distribution of the Software to any third party.

License Grant. Subject to the terms and conditions of this Agreement, Cavium grants you a nonexclusive, non-transferable, worldwide, fully-paid and royalty-free license to
(a) install, reproduce, and execute the executable version of the Software solely for your internal use and solely on hardware and only (a) on hardware manufactured by Cavium, or (b) software of Cavium that simulates Cavium hardware;

(b) create derivative works of any portions of the Software provided to you by Cavium in source code form and identified by contained this Agreement, which portions enable features of the Cavium hardware products you or your licensees are entitled to use, provided that any such derivative works must be used only (a) on hardware manufactured by Cavium, or (b) software of Cavium that simulates Cavium hardware; and

(c) distribute derivative works (in source code and/or executable form) you created in accordance with clause (b) above only if such distribution (i) reproduces the copyright notice that can be found at the very end of this Agreement and (ii) is pursuant to a binding license agreement that contains terms no less restrictive and no less protective of Cavium than this Agreement. You will immediately notify Cavium if you become aware of any breach of any such license agreement.

Restrictions. The rights granted to you in this Agreement are subject to the following restrictions: Except as expressly set forth in this Agreement (a) you will not license, sell, rent, lease, transfer, assign, display, host, outsource, disclose or otherwise commercially exploit or make the Software, or any derivatives you create under this Agreement, available to any third party; (b) you will not modify or create derivative works of any part of the Software; (c) you will not access or use the Software in order to create similar or competitive products, components, or services; and (d), no part of the Software may be copied (except for the making of a single archival copy), reproduced, distributed, republished, downloaded, displayed, posted or transmitted in any form or by any means.

Ownership. You acknowledge and agree that, subject to the license grant contained in this Agreement and as between you and Cavium (a) Cavium owns all copies of and intellectual property rights to the Software, however made, and retains all rights in and to the Software, including all intellectual property rights therein, and (b) you own all the derivative works of the Software created by you under this Agreement, subject to Cavium’s rights in the Software. There are no implied licenses under this Agreement, and any rights not expressly granted to you hereunder are reserved by Cavium. You will not, at any time, contest anywhere in the world Cavium’s ownership of the intellectual property rights in and to the Software.

Open Source Software. Certain items of independent code that are included with the Software hereunder are subject to the GNU Lesser General Public
License (LGPL), or other open source or free software licenses, (Open Source Software). This Open Source Software is licensed under the terms of the end-user license that accompanies such Open Source Software. Nothing in this Agreement limits your rights under, or grants you rights that supersede, the terms and conditions of any applicable end user license for such Open Source Software. In particular, nothing in this Agreement restricts your right to copy, modify, and distribute such Open Source Software that is subject to the terms of the LGPL. The terms of this Agreement other than Sections titled Disclaimer of Warranties, Limitation of Liability, Basis of Bargain, Term and Termination, Export, and Miscellaneous will not apply to Open Source Software.

Disclaimer of Warranties. The Software is provided to you free of charge, and on an As-Is basis. Cavium provides no technical support, warranties or remedies for the Software. Cavium and its suppliers disclaim all express, implied or statutory warranties relating to the Software, including but not limited to, merchantability, fitness for a particular purpose, title, and non-infringement. Cavium does not warrant that the Software and the use thereof will be error-free, that defects will be corrected, or that the Software is free of viruses or other harmful components. If applicable law requires any warranties with respect to the Software, all such warranties are limited in duration to thirty (30) days from the date of download or first use, whichever comes first.

Limitation of Liability. Neither Cavium nor its suppliers shall be responsible or liable with respect to any subject matter of this Agreement or terms or conditions related thereto under any contract, negligence, strict liability or other theory (a) for loss or inaccuracy of data or cost of procurement of substitute goods, services or technology, or (b) for any indirect, incidental or consequential damages including, but not limited to loss of revenues and loss of profits. Caviums aggregate cumulative liability hereunder shall not exceed the greater of Fifty U.S. Dollars (U.S.$50.00) or the amount paid by you for the Software that caused the damage. Certain states and/or jurisdictions do not allow the exclusion of implied warranties or limitation of liability for incidental or consequential damages, so the exclusions set forth above may not apply to you.

Basis of Bargain. The warranty disclaimer and limitation of liability set forth above are fundamental elements of the basis of the agreement between Cavium and you. Cavium would not provide the Software without such limitations. The warranty disclaimer and limitation of liability inure to the benefit of Cavium and Caviums suppliers.

Term and Termination. This Agreement and the licenses granted hereunder are effective on the date you accept the terms of this Agreement, download
the Software, or use the Software, whichever comes first, and shall continue unless this Agreement is terminated pursuant to this section. This Agreement immediately terminates in the event that you materially breach any of the terms hereof. You may terminate this Agreement at any time, with or without cause, by destroying any copies of the Software in your possession. Upon termination, the license granted hereunder shall terminate but the Sections titled Restrictions, Ownership, Disclaimer of Warranties, Limitation of Liability, Basis of Bargain, Term and Termination, Export, and Miscellaneous will remain in effect.

Export. The Software and related technology are subject to U.S. export control laws and may be subject to export or import regulations in other countries. You agree to strictly comply with all such laws and regulations and acknowledges that you have the responsibility to obtain authorization to export, re-export, or import the Software and related technology, as may be required. You will indemnify and hold Cavium harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including attorneys fees) arising from or relating to any breach by you of your obligations under this section. Your obligations under this section shall survive the expiration or termination of this Agreement.

Miscellaneous. Neither the rights nor the obligations arising under this Agreement are assignable by you, and any such attempted assignment or transfer shall be void and without effect. This Agreement shall be governed by and construed in accordance with the laws of the State of California without regard to any conflicts of laws provisions that would require application of the laws of another jurisdiction. Any action under or relating to this Agreement shall be brought in the state and federal courts located in California, with venue in the courts located in Santa Clara County and each party hereby submits to the personal jurisdiction of such courts; provided, however, that nothing herein will operate to prohibit or restrict Cavium from filing for and obtaining injunctive relief from any court of competent jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. In the event that any provision of this Agreement is found to be contrary to law, then such provision shall be construed as nearly as possible to reflect the intention of the parties, with the other provisions remaining in full force and effect. Any notice to you may be provided by email. This Agreement constitutes the entire agreement between the parties and supersedes all prior or contemporaneous, agreements, understandings and communications between the parties, whether written or oral, pertaining to the subject matter hereof. Any modifications of this Agreement must be in writing and agreed to by both parties.

Copyright (c) 2011, Cavium Inc. All rights reserved.
The license for all Octeon simulators (cn*-simulator* files) is in the file licenses/cavium-license-type1.txt

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Author: Cavium Inc.

Contact: support@cavium.com
This file is part of the OCTEON SDK

Copyright (c) 2011 Cavium Inc.

This file is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License, Version 2, as published by the Free Software Foundation.

This file is distributed in the hope that it will be useful, but AS-IS and WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, TITLE, or NONINFRINGEMENT. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this file; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA or visit http://www.gnu.org/licenses/.

This file may also be available under a different license from Cavium. Contact Cavium Inc. for more information

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.
This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
That's all there is to it!

IMPORTANT: Read this Agreement carefully before clicking on the I
accept button to download the Software and/or before using the
Software.

This License Agreement (the Agreement) is a legal agreement between
you, either an individual or a single legal entity (You or
you), and Cavium Inc. (Cavium). This Agreement governs
your use of the Cavium software that can be downloaded after accepting
this Agreement and/or that is accompanied by this Agreement (the
Software). You must accept the terms of this Agreement before
downloading and/or using the Software.

By clicking on the I accept button to download and/or by using the
Software, you are indicating that you have read and understood, and assent
to be bound by, the terms of this Agreement. If you do not agree to the
terms of the Agreement, you are not granted any rights whatsoever in the
Software. If you are not willing to be bound by these terms and
conditions, you should not use or cease all use of the Software.

This Software is the property of Cavium Inc. and constitutes the
proprietary information of Cavium Inc. You agree to take reasonable
steps to prevent the disclosure, unauthorized use or unauthorized
distribution of the Software to any third party.

License Grant. Subject to the terms and conditions of this Agreement,
Cavium grants you a nonexclusive, non-transferable, worldwide, fully-paid
and royalty-free license to

(a) install, reproduce, and execute the executable version of the Software
solely for your internal use and only (a) on hardware manufactured by
Cavium, or (b) software of Cavium that simulates Cavium hardware;

(b) create derivative works of any portions of the Software provided to
you by Cavium in source code form, which portions enable features of the
Cavium hardware products you or your licensees are entitled to use,
provided that any such derivative works must be used only (a) on hardware
manufactured by Cavium, or (b) software of Cavium that simulates Cavium
hardware; and

(c) distribute derivative works you created in accordance with clause (b)
above, only in executable form and only if such distribution (i)
reproduces the copyright notice that can be found at the very end of this
Agreement and (ii) is pursuant to a binding license agreement that
contains terms no less restrictive and no less protective of Cavium than
this Agreement. You will immediately notify Cavium if you become aware of any breach of any such license agreement.

Restrictions. The rights granted to you in this Agreement are subject to the following restrictions: Except as expressly set forth in this Agreement (a) you will not license, sell, rent, lease, transfer, assign, display, host, outsource, disclose or otherwise commercially exploit or make the Software, or any derivatives you create under this Agreement, available to any third party; (b) you will not modify or create derivative works of any part of the Software; (c) you will not access or use the Software in order to create similar or competitive products, components, or services; and (d), no part of the Software may be copied (except for the making of a single archival copy), reproduced, distributed, republished, downloaded, displayed, posted or transmitted in any form or by any means.

Ownership. You acknowledge and agree that, subject to the license grant contained in this Agreement and as between you and Cavium (a) Cavium owns all copies of and intellectual property rights to the Software, however made, and retains all rights in and to the Software, including all intellectual property rights therein, and (b) you own all the derivate works of the Software created by you under this Agreement, subject to Caviums rights in the Software. There are no implied licenses under this Agreement, and any rights not expressly granted to your hereunder are reserved by Cavium. You will not, at any time, contest anywhere in the world Caviums ownership of the intellectual property rights in and to the Software.

Disclaimer of Warranties. The Software is provided to you free of charge, and on an As-Is basis. Cavium provides no technical support, warranties or remedies for the Software. Cavium and its suppliers disclaim all express, implied or statutory warranties relating to the Software, including but not limited to, merchantability, fitness for a particular purpose, title, and non-infringement. Cavium does not warrant that the Software and the use thereof will be error-free, that defects will be corrected, or that the Software is free of viruses or other harmful components. If applicable law requires any warranties with respect to the Software, all such warranties are limited in duration to thirty (30) days from the date of download or first use, whichever comes first.

Limitation of Liability. Neither Cavium nor its suppliers shall be responsible or liable with respect to any subject matter of this Agreement or terms or conditions related thereto under any contract, negligence, strict liability or other theory (a) for loss or inaccuracy of data or cost of procurement of substitute goods, services or technology, or (b) for any indirect, incidental or consequential damages including, but not limited to loss of revenues and loss of profits. Caviums aggregate
cumulative liability hereunder shall not exceed the greater of Fifty U.S. Dollars (U.S.$50.00) or the amount paid by you for the Software that caused the damage. Certain states and/or jurisdictions do not allow the exclusion of implied warranties or limitation of liability for incidental or consequential damages, so the exclusions set forth above may not apply to you.

Basis of Bargain. The warranty disclaimer and limitation of liability set forth above are fundamental elements of the basis of the agreement between Cavium and you. Cavium would not provide the Software without such limitations. The warranty disclaimer and limitation of liability inure to the benefit of Cavium and Cavium's suppliers.

Term and Termination. This Agreement and the licenses granted hereunder are effective on the date you accept the terms of this Agreement, download the Software, or use the Software, whichever comes first, and shall continue unless this Agreement is terminated pursuant to this section. This Agreement immediately terminates in the event that you materially breach any of the terms hereof. You may terminate this Agreement at any time, with or without cause, by destroying any copies of the Software in your possession. Upon termination, the license granted hereunder shall terminate but the Sections titled Restrictions, Ownership, Disclaimer of Warranties, Limitation of Liability, Basis of Bargain, Term and Termination, Export, and Miscellaneous will remain in effect.

Export. The Software and related technology are subject to U.S. export control laws and may be subject to export or import regulations in other countries. You agree to strictly comply with all such laws and regulations and acknowledges that you have the responsibility to obtain authorization to export, re-export, or import the Software and related technology, as may be required. You will indemnify and hold Cavium harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including attorneys fees) arising from or relating to any breach by you of your obligations under this section. Your obligations under this section shall survive the expiration or termination of this Agreement.

Miscellaneous. Neither the rights nor the obligations arising under this Agreement are assignable by you, and any such attempted assignment or transfer shall be void and without effect. This Agreement shall be governed by and construed in accordance with the laws of the State of California without regard to any conflicts of laws provisions that would require application of the laws of another jurisdiction. Any action under or relating to this Agreement shall be brought in the state and federal courts located in California, with venue in the courts located in Santa Clara County and each party hereby submits to the personal jurisdiction of such courts; provided, however, that nothing herein will operate to
prohibit or restrict Cavium from filing for and obtaining injunctive relief from any court of competent jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. In the event that any provision of this Agreement is found to be contrary to law, then such provision shall be construed as nearly as possible to reflect the intention of the parties, with the other provisions remaining in full force and effect. Any notice to you may be provided by email. This Agreement constitutes the entire agreement between the parties and supersedes all prior or contemporaneous agreements, understandings and communications between the parties, whether written or oral, pertaining to the subject matter hereof. Any modifications of this Agreement must be in writing and agreed to by both parties.

Copyright (c) 2011, Cavium Inc. All rights reserved.

U-Boot is Free Software. It is copyrighted by Wolfgang Denk and many others who contributed code (see the actual source code for details). You can redistribute U-Boot and/or modify it under the terms of version 2 of the GNU General Public License as published by the Free Software Foundation. Most of it can also be distributed, at your option, under any later version of the GNU General Public License -- see individual files for exceptions.

NOTE! This license does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "include/asm-*/*u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

Also note that the GPL below is copyrighted by the Free Software Foundation, but the instance of code that it refers to (the U-Boot source code) is copyrighted by me and others who actually wrote it.
-- Wolfgang Denk

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License: they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330
Boston, MA 02111-1307, USA.

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; see the file COPYING. If not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The files in this directory and elsewhere which refer to this LICENCE file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 or (at your option) any later version.
JFFS2 is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with JFFS2; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use macros or inline functions from these files, or you compile these files and link them with other works to produce a work based on these files, these files do not by themselves cause the resulting work to be covered by the GNU General Public License. However the source code for these files must still be made available in accordance with section (3) of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on this file might be covered by the GNU General Public License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

   b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

   c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

   d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

**GNU LESSER GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:
0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.
Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).
However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.
You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.339 util-linux 2.32.1-27.el8
1.339.1 Available under license :

/*
 * Copyright (c) 1989 The Regents of the University of California.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 * This product includes software developed by the University of
 * California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 * may be used to endorse or promote products derived from this software
 * without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPLv2.1 file.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3 file.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.340 rsyslog 8.1911.0-7.el8_4.2
1.340.1 Available under license:

Free Getopt
Copyright (c)2002-2003 Mark K. Kim
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the original author of this software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.
If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.
For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for 
the User Product in which it has been modified or installed. Access to a 
network may be denied when the modification itself materially and 
adversely affects the operation of the network or violates the rules and 
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, 
in accord with this section must be in a format that is publicly 
documented (and with an implementation available to the public in 
source code form), and must require no special password or key for 
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this 
License by making exceptions from one or more of its conditions. 
Additional permissions that are applicable to the entire Program shall 
be treated as though they were included in this License, to the extent 
that they are valid under applicable law. If additional permissions 
apply only to part of the Program, that part may be used separately 
under those permissions, but the entire Program remains governed by 
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option 
remove any additional permissions from that copy, or from any part of 
it. (Additional permissions may be written to require their own 
removal in certain cases when you modify the work.) You may place 
additional permissions on material, added by you to a covered work, 
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you 
add to a covered work, you may (if authorized by the copyright holders of 
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the 
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or 
author attributions in that material or in the Appropriate Legal 
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or 
requiring that modified versions of such material be marked in 
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or 
authors of the material; or

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22392
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see
The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.


No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work’s users, your or third parties’ legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.
A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.
A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that oblige you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

PROTON SUBCOMPONENTS:

Proton includes freegetopt with a separate BSD license. Your use of the source code for freegetopt is subject to the terms and conditions of its license in the license file c/tools/include/pncompat/internal/LICENSE.txt.

The setup scripts for the python bindings include files derived by PyZMQ and are licensed with a separate Modified BSD license. Use of the source code in these setup files are subject to the terms and conditions in the license file python/setuputils/PYZMQ_LICENSE.BSD.

NOTE: it is our intent to place new doc under the ASL 2.0 license. **However** at the time of this writing, the files are under different license. Please review the copyright section of each file to see which license applies.

Below is a copy of the ASL 2.0.

-------------------------------------------------------------------------------
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and
limitations under the License.
Apache Qpid Proton
Copyright 2012-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
PyZMQ is licensed under the terms of the Modified BSD License (also known as
New or Revised BSD), as follows:

Copyright (c) 2009-2012, Brian Granger, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

Neither the name of PyZMQ nor the names of its contributors may be used to
endorse or promote products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such
license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

1. You must give any other recipients of the Work or Derivative Works a copy of this License; and
2. You must cause any modified files to carry prominent notices stating that You changed the files; and
3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
4. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or
consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct

copyright notice that is included in or attached to the work (an example is provided in the Appendix below).
or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[[]]
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.341 json-glib 1.4.4 1.el8

1.341.1 Available under license :
    GNU LESSER GENERAL PUBLIC LICENSE
    Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user’s freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.342.1 Available under license:

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License version 3 as
published by the Free Software Foundation.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for details.

You should have received a copy of the GNU General Public License
along with this program; if not see <http://www.gnu.org/licenses/>.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the
terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on
those licensors and authors.

All other non-permissive additional terms are considered “further
restrictions” within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}
@end display

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of "copyleft", which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that
the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain \texttt{asci} without markup, \texttt{Texinfo} input format, \texttt{LaTeX} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols.
a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item Preserve all the copyright notices of the Document.

@item Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.
Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License or any later version applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.
ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with@dots{ }Texts." line with this:

```
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

Local Variables:
ispell-local-pdict: "ispell-dict"
End:
PCRE2 LICENCE

-----------------

PCRE2 is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Releases 10.00 and above of PCRE2 are distributed under the terms of the "BSD" licence, as specified below, with one exemption for certain binary redistributions. The documentation for PCRE2, supplied in the "doc" directory, is distributed under the same terms as the software itself. The data in the testdata directory is not copyrighted and is in the public domain.

The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

Copyright (c) 1997-2018 University of Cambridge
All rights reserved.

PCRE2 JUST-IN-TIME COMPILATION SUPPORT

-------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

Copyright(c) 2010-2018 Zoltan Herczeg
All rights reserved.

STACK-LESS JUST-IN-TIME COMPILER
THE "BSD" LICENCE

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notices, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notices, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the University of Cambridge nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

EXEMPTION FOR BINARY LIBRARY-LIKE PACKAGES

The second condition in the BSD licence (covering binary redistributions) does not apply all the way down a chain of software. If binary package A includes PCRE2, it must respect the condition, but if package B is software that includes package A, the condition is not imposed on package B unless it uses PCRE2 independently.
PCRE2 LICENCE

Please see the file LICENCE in the PCRE2 distribution for licensing details.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.344 libmetalink 0.1.3 7.el8

1.344.1 Available under license:

The MIT License

Copyright (c) 2008 Tatsuhiro Tsujikawa

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.345 google-droid-fonts 20120715 13.el8
1.345.1 Available under license:

Copyright (c) 2005-2008, The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.346 libnftnl 1.1.5-4.el8
1.346.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.347 certifi 2021.05.30
1.347.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#)$RCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.348 autoconf 2.69-27.el8

1.348.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party).
that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

AUTOCONF CONFIGURE SCRIPT EXCEPTION
Version 3.0, 18 August 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This Exception is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

The purpose of this Exception is to allow distribution of Autoconf's typical output under terms of the recipient's choice (including proprietary).

0. Definitions

"Covered Code" is the source or object code of a version of Autoconf that is a covered work under this License.

"Normally Copied Code" for a version of Autoconf means all parts of its Covered Code which that version can copy from its code (i.e., not from its input file) into its minimally verbose, non-debugging and non-tracing output.

"Ineligible Code" is Covered Code that is not Normally Copied Code.

1. Grant of Additional Permission.

You have permission to propagate output of Autoconf, even if such propagation would otherwise violate the terms of GPLv3. However, if by modifying Autoconf you cause any Ineligible Code of the version you received to become Normally Copied Code of your modified version, then you void this Exception for the resulting covered work. If you convey that resulting covered work, you must remove this Exception in accordance with the second paragraph of Section 7 of GPLv3.

2. No Weakening of Autoconf Copyleft.
The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of Autoconf.

The GNU Free Documentation License.
Version 1.3, 3 November 2008

This file is intended to be included within another document, hence no sectioning command or @node.

@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".
Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item

COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item

MODIFICATIONS
You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History” in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the `"History’’ section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ”Acknowledgements” or ”Dedications”, Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ”Endorsements”. Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ”Endorsements” or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.

@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled `"Endorsements”, provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements."

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",
"Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@end page

@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
@end smallexample

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22511
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled `GNU Free Documentation License'.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.349 e2fsprogs 1.45.6 1.el8
1.349.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
  Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
  Copyright (c) 2001 Alcove <http://www.alcove.com/>
  Copyright (c) 1997 Klee Dienes
  Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

Upstream Author: Theodore Ts'o <tytso@mit.edu>
Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU General Public License.


On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'.

# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libcce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)
$(BSD_LIB): $(OBJS)
	(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
	$(MV) pic/$(BSD_LIB)
	$(RM) -f ../$(BSD_LIB)
	(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
$(LDCONFIG)

install-strip: install
install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:

Copyright (C) 1999, 2001 by Andries Brouwer
Copyright (C) 1999, 2000, 2003 by Theodore Ts'o

You are free to distribute this software under the terms of the GNU Lesser (Library) General Public License.

On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2.

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:


Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety,
including the disclaimer of warranties.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
Sources were obtained from http://sourceforge.net/projects/e2fsprogs

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU General Public License.


On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'.

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version
 
 - trivial database library - private includes
 -
 - Copyright (C) Andrew Tridgell 2005
 + Copyright (C) Andrew Tridgell 1999-2005
 + Copyright (C) Jeremy Allison 2000-2006
 + Copyright (C) Paul 'Rusty' Russell 2000

 ** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released
 This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

 Sources were obtained from http://sourceforge.net/projects/e2fsprogs
Packaging is Copyright (c) 2003-2007 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright notice:

This package, the EXT2 filesystem utilities, are made available under the GNU General Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license.


On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'. The complete text of the GNU Library General Public License can be found in `/usr/share/common-licenses/LGPL-2'.

The license used for lib/et and lib/ss libraries is:

Copyright 1987 by the Student Information Processing Board of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose is hereby granted, provided that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

The license used for lib/uuid is:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

--------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:

Copyright (C) 1999, 2000, 2003, 2004 by Theodore Ts'o

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.
EXT2ED is hereby placed under the terms of the GNU General Public License.
Follows the GNU license.

Gadi Oxman, August 1995
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
 distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.350 python36 3.6.8-2.module_el8.4.0+790+083e3d81

1.350.1 Available under license:

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9.0 thru 1.2</td>
<td>1.2</td>
<td>1991-1995</td>
<td>CWI</td>
<td>yes</td>
</tr>
<tr>
<td>1.3 thru 1.5.2</td>
<td>1.2</td>
<td>1995-1999</td>
<td>CNRI</td>
<td>yes</td>
</tr>
<tr>
<td>1.6</td>
<td>1.5.2</td>
<td>2000</td>
<td>CNRI</td>
<td>no</td>
</tr>
<tr>
<td>2.0</td>
<td>1.6</td>
<td>2000</td>
<td>BeOpen.com</td>
<td>no</td>
</tr>
<tr>
<td>1.6.1</td>
<td>1.6</td>
<td>2001</td>
<td>CNRI</td>
<td>yes (2)</td>
</tr>
<tr>
<td>2.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>no</td>
</tr>
<tr>
<td>2.0.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>
Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.


3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-----------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOpen MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGEMENT ANY THIRD PARTY RIGHTS.

4. BEOpen SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions. Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee. This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party. As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee. Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013”.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia’s conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT” button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.
CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

----------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.351 wget 1.19.5 10.el8

1.351.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your
You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.
You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.
When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.
Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.
If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.352 iptables 1.8.4-17.el8
1.352.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable
      source code, which must be distributed under the terms of Sections
      1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
      years, to give any third party, for a charge no more than your
      cost of physically performing source distribution, a complete
      machine-readable copy of the corresponding source code, to be
      distributed under the terms of Sections 1 and 2 above on a medium
      customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.353.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Copyright (C) 2000-2007 Stuart Rackham

Email: srackham@gmail.com

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307,
USA.

1.354 psych 3.0.2
1.354.1 Available under license:
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED. INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you
duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The
"Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

   b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

   d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:
a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice
That's all there is to it!
This distribution is free software; you can redistribute it and/or modify it under the terms of either:

a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version; or

b) the "Artistic License" which comes with this distribution.

This distribution is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See either the GNU General Public License or the Artistic License for more details.

You should have received a copy of the GNU General Public License along with this distribution in the file named "Copying". If not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA or visit their web page on the internet at http://www.gnu.org/copyleft/gpl.html or the Perl web page at http://dev.perl.org/licenses/gpl1.html.

You should also have received a copy of the Artistic License with this distribution, in the file named "Artistic". If not, visit the Perl web page on the internet at http://dev.perl.org/licenses/artistic.html.

1.356 systemd 239-45.el8_4.3

1.356.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.357 libwebp 1.0.0-3.el8_4
1.357.1 Available under license:
Copyright (c) 2010, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

* Neither the name of Google nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.358 ipset 7.1 1.el8
1.358.1 Available under license :
GNUT GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation’s software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

**GNU LESSER GENERAL PUBLIC LICENSE**

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**
0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

### 1.359 selinux 2.9-5.el8

**1.359.1 Available under license:**
No license file was found, but licenses were detected in source scan.

```
# # February 2020, Victor Kamensky
# # Copyright (c) 2020 by Cisco Systems, Inc.
# # All rights reserved
#

## <summary>Polaris dbgd Policy Rules.</summary>

### <summary>Write dbgd /var/run socket file</summary>

### <param name="domain">

### Domain allowed access.

```
interface(`polaris_dbgd_var_sock_write',`
    gen_require(`
        type polaris_dbgd_t;
        type polaris_dbgd_var_run_t;
        type var_run_t;
    `)
    write_sock_files_pattern($1, var_run_t, polaris_dbgd_var_run_t)
    allow $1 polaris_dbgd_t:unix_stream_socket { connectto };
    `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.if
```

No license file was found, but licenses were detected in source scan.

```
# # July 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# # All rights reserved
#
```
## <summary>Polaris cpp_stats Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.if

No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

# Map GNSS TTY to correct device context
/dev/ttyS1 -c gen_context(system_u:object_r:polaris_cabo_gnss_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisnginx, 1.0);

gen_require(
    type polaris_nginx_t;
)

polaris_btrace_data_manage(polaris_nginx_t)
polaris_chasfs_manage(polaris_nginx_t)
polaris_tdlresolve_read(polaris_nginx_t)
polaris_tdlldb_list_dirs(polaris_nginx_t)
polaris_cpld_read(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_flashlib_read(polaris_nginx_t)
polaris_crtft_data_manage(polaris_nginx_t)
polaris_ripc_sman_ui_serv_connect(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_disk_harddisk_read_lnk(polaris_nginx_t)
allow polaris_nginx_t self:tcp_socket { bind create listen accept setopt getopt shutdown};
allow polaris_nginx_t self:capability2 block_suspend;
allow polaris_nginx_t self:capability { setgid setuid sys_resource };

polaris_lfts_dev_use(polaris_nginx_t)
logging_send_syslog_msg(polaris_nginx_t)

corenets_tcp_connect_http_port(polaris_nginx_t)
corenets_tcp_bind_generic_node(polaris_nginx_t)
corenets_tcp_bind_http_port(polaris_nginx_t)
corenets_tcp_connect_pkiserver_port(polaris_nginx_t)
# FIXME: add interface to allow bind to port 1025-65535

corenets_tcp_bind_all_ports(polaris_nginx_t)
# Allow the nginx to search/read the web servers config files
apache_read_config(polaris_nginx_t)
apache_search_config(polaris_nginx_t)
# allow read httpd_sys_content_t (/var/www/...)
apache_read_sys_content(polaris_nginx_t)

gen_require("
  type httpd_var_run_t;
  type syslogd_var_run_t;
")
setattr_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_sock_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
files_pid_filetrans(polaris_nginx_t, httpd_var_run_t, { file sock_file dir unix_stream_socket })

accept_socketat_nsfs_read(polaris_nginx_t)
# socketat does setsockopt SO_VRF
allow polaris_nginx_t self:capability net_admin;
auth_use_nsswitch(polaris_nginx_t)

allow polaris_nginx_t tmp_t:dir create_dir_perms;
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_access.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_error.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.pid")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.accept")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.cookie_tbl")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.login_count")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "openresty.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxcsrcf.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxtest.log")
create_dirs_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
manage_files_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
apache_read_log(polaris_nginx_t)
apache_write_log(polaris_nginx_t)
polaris_restconf_tmp_use(polaris_nginx_t)
dev_read_sysfs(polaris_nginx_t)

# dev/zram0 needs fs_t:filesystem getattr
ifdef('quake_platform','
fsgetattr_xattr_fs(polaris_nginx_t)
')

type polaris_nginx_tmp_t;
files_tmp_file(polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_aaa")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_master")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_session")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "ciscosdwan.cfg")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "proxy_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "client_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "fastcgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "scgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "uwsgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "pki")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "auth")

polaris_restconf_read(polaris_nginx_t)

#########################################################################
# webui_helper.sh/webui_helper_upgrade.sh
#########################################################################
polaris_process_domain_template(nginx_webui)
polaris_process_domain_template(nginx_webui_install)

polaris_nginx_exec_domain(polaris_nginx_webui_t, polaris_nginx_webui_exec_t)
polaris_nginx_exec_domain(polaris_nginx_webui_install_t, polaris_nginx_webui_install_exec_t)

corecmd_exec_bin(polaris_nginx_webui_t)
corecmd_exec_bin(polaris_nginx_webui_install_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_webui_t)
auth_use_nsswitch(polaris_nginx_webui_install_t)

#allow polaris_nginx_webui_t/polaris_nginx_webui_install_t access to nginx webui /tmp base folder
# /tmp/nginx/webui_tmp
manage_files_pattern(polaris_nginx_webui_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_webui_install_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
#allow polaris_file_transfer_client_t to access nginx webui /tmp base folder
# /tmp/nginx/webui_tmp. We also need to allow chvrf to use the FIFO in cases
# where we use the VRF interface

gen_require(
    type polaris_file_transfer_client_t;
    type polaris_chvrf_t;
)
manage_files_pattern(polaris_file_transfer_client_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_fifo_files_pattern(polaris_file_transfer_client_t, polaris_nginx_t, polaris_nginx_t)
manage_fifo_files_pattern(polaris_chvrf_t, polaris_nginx_t, polaris_nginx_t)

#fts_client binary requires access to chassis, tdlresolve and cpld
polaris_tdlresolve_read(polaris_file_transfer_client_t)
polaris_chasfs_manage(polaris_file_transfer_client_t)
polaris_cpld_read(polaris_file_transfer_client_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

ngen_require(
    type polaris_file_transfer_client_exec_t;
)
polaris_bexecute_domain(polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t)

type polaris_fts_client_tmp_t;
files_tmp_file(polaris_fts_client_tmp_t)
polaris_fts_client_tmp_manage(polaris_file_transfer_client_t)

# on ultra /var/www directory created by systemd unit that runs /mount_packages.sh
# under unconfined_service_t domain
ngen_require(
    type unconfined_service_t;
)
files_var_filetrans(unconfined_service_t, httpd_sys_content_t, dir, "www")

allow polaris_nginx_t self:capability dac_override;

#iox local mgr in webui connects to caf service on port 8098
corenent_tcp_connect_polaris_caf_api_port(polaris_nginx_t)

# IOx downloads the application package using network protocol (e.g http)
gen_require(
    type fifo_var_run_t;
)
allow polaris_file_transfer_client_t fifo_var_run_t:fifo_file read;

# webui connects to dbm backend service on port 9090
corenent_tcp_connect_polaris_wnc_mgrd_port(polaris_nginx_t)

# webui connects to poljvm service on port 9093
corenet_tcp_connect_polaris_poljvm_websocket_port(polaris_nginx_t)

# remote docker workflow
corenet_tcp_connect_us_cli_port(polaris_nginx_t)

# webui sw mgmt app which does install and smu, invokes webui helper shell
# scripts which in turn invoke installer scripts. Hence need to provide transition
# rule to polaris_install_engine_t domain
polaris_install_engine_domtrans(polaris_nginx_webui_install_t)
polaris_install_show_domtrans(polaris_nginx_webui_install_t)

# Allow pipe operations during install command invocation
polaris_nginx_manage_fifo_files(polaris_bexecute_t)
polaris_nginx_manage_fifo_files(polaris_code_verify_t)
polaris_nginx_manage_fifo_files(polaris_install_engine_t)
polaris_nginx_manage_fifo_files(polaris_install_show_t)
polaris_nginx_manage_fifo_files(rsync_t)

# During install-add via WebUI, code_sign_verify generates a file:map denial
# "/usr/bin/code_sign_verify package
# /tmp/patch/smus/10_vwlc_apsp_ap3g3_17.6.bin/mount/C9800-CL-mono-patch.2021-01-11_11.31_radonep"
require {
type etc_runtime_t;
}
allow polaris_code_verify_t etc_runtime_t:file map;

# Provide sys_resource capability to webui install scripts for sys_pipe calls.
allow polaris_nginx_webui_install_t self:capability sys_resource;

# nginx/webui File-manager app provides bootflash file-mgmt facility.
# as part of this it needs RW access to bootflash.
# TODO: Bug CSCvp83328 to isolate the access to another utility, which
# can have its own domain and nginx_t can transition to it.
polaris_bootflash_manage(polaris_nginx_t)

# allow nginx to manage core files
polaris_core_file_manage(polaris_nginx_t)

# luajit module for nginx triggers execmem denial due to mprotect call.
# TODO: cdets CSCvp70095 is used to track this vulnerability in
# current nginx component.
allow polaris_nginx_t self:process execmem;

# FIXME : allow shell/binary execution
# Elevated privilege needs to be addressed
# Tracked by Bugid : CSCvp93448
corecmd_exec_bin(polaris_nginx_t)
corecmd_exec_shell(polaris_nginx_t)
#FIXME
# Need to re-evaluate these privileges
#Tracked by Bugid : CSCvp92908, CSCvt81963(fts_client)
polaris_file_transfer_client_domtrans(polaris_nginx_webui_install_t)
# nginx need access btrace fifo file:
polaris_use_btrace_fifo(polaris_nginx_t)
gen_require('
  type proc_t;
')
manage_files_pattern(polaris_nginx_t, polaris_nginx_t, polaris_nginx_t)
allow polaris_nginx_t proc_t:filesystem { associate };
# nginx needs access to /dev/stdout which is owned by pman
allow polaris_nginx_t polaris_pman_t:fifo_file open;

############################################################################
# aireos_translate_helper.sh
# Invokes a python library that converts aireos config to ewlc config.
############################################################################
type polaris_aireos_translator_scripts_t;
files_type(polaris_aireos_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireos_translator)
polaris_nginx_exec_domain(polaris_nginx_webui_aireos_translator_t, polaris_nginx_webui_aireos_translator_exec_t)
allow polaris_nginx_t polaris_aireos_translator_scripts_t:dir { getattr open read search };
allow polaris_nginx_t polaris_aireos_translator_scripts_t:file { getattr ioctl open read };
allow polaris_nginx_t polaris_nginx_webui_aireos_translator_exec_t:file ioctl;
allow polaris_nginx_t self:process setfscreate;
files_list_var(polaris_nginx_t)

############################################################################
# ra_trace_webui_helper.sh
# Invokes mcp_trace_filter.sh to perform radio active tracing.
############################################################################
polaris_process_domain_template(nginx_webui_trace_filter)
polaris_nginx_exec_domain(polaris_nginx_webui_trace_filter_t, polaris_nginx_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_nginx_webui_trace_filter_t)
manage_files_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
auth_use_nsswitch(polaris_nginx_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_nginx_webui_trace_filter_t)
polaris_nginx_manage_fifo_files(polaris_trace_filter_t)

############################################################################
# nginx_helper.sh
# nginx show command helper run by pman invoking curl
############################################################################
polaris_utility_domain_template(nginx_helper)
polaris_pman_entry(polaris_nginx_helper_t, polaris_nginx_helper_exec_t)

#allow execution of nginx_helper.sh
corecmd_exec_bin(polaris_nginx_helper_t)

#allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_helper_t)

#allow access to the tmp fifo file
polaris_use_btrace_fifo(polaris_nginx_helper_t)

# nginx_helper.sh reads from chasfs
polaris_chasfs_manage(polaris_nginx_helper_t)

gen_require(`
   type polaris_curl_t;
   `)

# allow execution of /usr/bin/curl on the pkiserver port
polaris_curl_domtrans(polaris_nginx_helper_t)
corenet_tcp_connect_pkiserver_port(polaris_curl_t)

#allow curl to write into chasfs
polaris_chasfs_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris cpp_cdm Policy Rules.</summary>

#<summary>
# <summary>
#   Allow access to semaphore with type polaris_cpp_cdm_t
# </summary>
## <summary>
##   Domain allowed access.
## </summary>
## <param name="domain">
##   <summary>
##     Domain allowed access.
##   </summary>
## </param>
interface('polaris_cpp_cdm_sem_use',
    gen_require(
        type polaris_cpp_cdm_t;
    )
    allow $1 polaris_cpp_cdm_t:sem rw_sem_perms;
)

###############################################################################
## <summary>
##      Allow access to shared memory with type polaris_cpp_cdm_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_cdm_shm_use',
    gen_require(
        type polaris_cpp_cdm_t;
    )
    allow $1 polaris_cpp_cdm_t:shm rw_shm_perms;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.if
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
# # Copyright (c) 2017-2020 by Cisco Systems, Inc.
# # All rights reserved
# #
### <summary>Polaris dmi_ndbmand Policy Rules.</summary>

###############################################################################
## <summary>
##      Work with NDBLOAD_LOCK_PATH.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ndbload_lock_use',
    gen_require(
        type polaris_dmi_ndbutil_lock_t;
        type tmp_t;
    )
    manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
)

###########################################################################
## <summary>
##      Manage polaris_ndbmand_ndbutil_t files
## </summary>
## <param name="domain">
##   Domain allowed access.
## </param>
#
interface('polaris_ndbmand_ndbutil_manage',
    gen_require(
        type polaris_ndbmand_ndbutil_t;
        type polaris_confd_ndbutil_lock_t;
    )
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_ndbmand_ndbutil_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris sif_mgr Policy Rules.</summary>

###########################################################################
## <summary>
##   Allow the specified domain able to read sif_mgr /tmp files.
## </summary>
## <param name="type">
##   Domain allowed access.
## </param>
## <summary>
## <param name="object">
## File name in /tmp that the sif_mgr domain creates and other domains
## access.
## </summary>
## </param>

interface('polaris_sif_mgr_tmp_files_read',
    gen_require(
        type polaris_sif_mgr_tmp_t;
    ')
)
read_files_pattern($1, polaris_sif_mgr_tmp_t, polaris_sif_mgr_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris Chasfs Policy Rules</summary>

################################################################################
# Chasfs policy
################################################################################

################################################################################
## <summary>
## Manage chasfs files
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_chasfs_manage',
gen_require(
    type polaris_chasfs_t;
)
manage_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_link_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

allow $1 polaris_chasfs_t:{file dir} watch;

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;
')

######################################
## <summary>
##      Read chasfs files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_chasfs_read',
gen_require(''
type polaris_chasfs_t;
')
list_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_link_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

allow $1 polaris_chasfs_t:{file dir} watch;

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;
')

#######################################
## <summary>
##     Manage chasync file(user_input_custom.xml)
## </summary>
## <param name="domain">
##      <summary>
##      getattr allowed access.
##      </summary>
interface('polaris_chasync_files_manage',
    gen_require(
        type polaris_chasync_files_t;
    )
    manage_files_pattern($1, polaris_chasync_files_t, polaris_chasync_files_t)
)

#######################################
## <summary>
##      Watch read chasfs directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_chasfs_watch_read',
    gen_require(
        type polaris_chasfs_t;
    )
    allow $1 polaris_chasfs_t:dir watch_reads;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/dev/dev_lfts -c gen_context(system_u:object_r:polaris_lfts_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.fc
No license file was found, but licenses were detected in source scan.

# # July 2019, Victor Kamensky
#
## <summary>Polaris GR Manager Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.if

No license file was found, but licenses were detected in source scan.

### March 2017, Victor Kamensky

### Copyright (c) 2017-2021 by Cisco Systems, Inc.
### All rights reserved

```c
policy_module(polarisngwc, 1.0);

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
type polaris_chdrvmmmap_device_t;
dev_node(polaris_chdrvmmmap_device_t)

# gettysburg_fpga device (/dev/gettysburg_dev1)
type polaris_gettysburg_fpga_device_t;
dev_node(polaris_gettysburg_fpga_device_t)

# dplr io memory maping driver /dev/cisco/dplriomem

type polaris_dplr_iomem_mmapdrv_device_t;
dev_node(polaris_dplr_iomem_mmapdrv_device_t)

# /dev/shm/ngwc_shm shared memory
type polaris_ngwc_shm_t;
files_type(polaris_ngwc_shm_t)

# /dev/shm/ngwc_scc_shm shared memory

type polaris_ngwc_scc_shm_t;
files_type(polaris_ngwc_scc_shm_t)

# /dev/shm/iomd_to_fed_ptp_offload shared memory

type polaris_ngwcitlements_t;
files_type(polaris_ngwcitlements_t)

# /dev/shm/sem.i2c_sem00N quake sempaphor
```
type polaris_quake_i2c_t;
files_type(polaris_quake_i2c_t)

#FPGA io memory mapping driver /dev/cisco/fpgaiomem
type polaris_fpga_iomem_mmapfpga_device_t;
dev_node(polaris_fpga_iomem_mmapfpga_device_t)

# Mapping permission for /dev/shm/<name>
ifdef(`quake_platform',`
gen_require(`
    type systemd_tmpfiles_t;
)
    mmap_files_pattern(systemd_tmpfiles_t, polaris_quake_i2c_t, polaris_quake_i2c_t)
')

# In combined image we have several policies and we choose
# one to use in run-time, but file system is shared and
# labeled with different file_context files, so it is
# possible that we may have some labels that other policy
# does not understand for now just hard missing entries
ifdef(`nyquist_platform',`
type polaris_cm_cc_exec_t;
files_type(polaris_cm_cc_exec_t)
type polaris_cm_fp_exec_t;
files_type(polaris_cm_fp_exec_t)
type polaris_flashcheck_exec_t;
files_type(polaris_flashcheck_exec_t)
type polaris_emd_exec_t;
files_type(polaris_emd_exec_t)
type polaris_ngwc_ishow_exec_t;
files_type(polaris_ngwc_ishow_exec_t)
')

# Adding here as this unmount command is specific to Nyquist platform.
# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_unmount)
corecmd_exec_bin(polaris_ssd_unmount_t)
storage_getattr_fixed_disk_dev(polaris_ssd_unmount_t)
fstools_domtrans(polaris_ssd_unmount_t)
mount_domtrans(polaris_ssd_unmount_t)
polaris_use_btrace_fifo(polaris_ssd_unmount_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_unmount_t)
polaris_chasfs_read(polaris_ssd_unmount_t)
polaris_cpld_read(polaris_ssd_unmount_t)

#Read /tmp/sw/boot files
polaris_boot_tmp_read(polaris_ssd_unmount_t)
# Allow read to btrace tmp files
polaris_btrace_tmppub_read(polaris_ssdUnmount_t)

# Allow getattr to tmpfs
fs_getattr_tmppfs(polaris_ssdUnmount_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device created by udev
polaris_read_ssd_tmp_files(polaris_ssdUnmount_t)

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_ssdUnmount_tmp_t;
files_tmp_file(polaris_ssdUnmount_tmp_t)
files_tmp_filetrans(polaris_ssdUnmount_t, polaris_ssdUnmount_tmp_t, file)
manage_files_pattern(polaris_ssdUnmount_t, polaris_ssdUnmount_tmp_t, polaris_ssdUnmount_tmp_t)
allow polaris_ssdUnmount_t polaris_ssdUnmount_tmp_t:file { unlink };

# Allow nfs dir/file read
rpc_manage_nfs_state_data_dir(polaris_ssdUnmount_t)
rpc_manage_nfs_state_data(polaris_ssdUnmount_t)

# Allow read access to files on nfsd file system
fs_read_nfsd_files(polaris_ssdUnmount_t)
kernl_rw_rpc_sysctls(polaris_ssdUnmount_t)
fsgetattr_xattr_fs(polaris_ssdUnmount_t)

# allow create/sendto/connect operations for logger
allow polaris_ssdUnmount_tmp_t self:unix_dgram_socket sendto;
allow polaris_ssdUnmount_t self:unix_dgram_socket create_socket_perms;
logging_create_devlog_dev(polaris_ssdUnmount_t)
logging_send_syslog_msg(polaris_ssdUnmount_t)
polaris_persistent_getattr(polaris_ssdUnmount_t)

# allow dir:search getattr read for udev tmp files
# allow file:write open for udev tmp files
polaris_udev_tmp_manage(polaris_ssdUnmount_t)
gen_require('type rsync_exec_t;
             type rsync_port_t;
')

# allow tcp_socket:name_connect for rsync_port_t
# polaris_ssdUnmount_t has superset privileges of rsync, so its good
# to run rsync in unmount domain. This is not the case everywhere. Please use
# corenet_tcp_connect_rsync_port if rsync needs to be run in its own domain
allow polaris_ssdUnmount_t rsync_port_t:tcp_socket name_connect;
allow file:get_attar exec read open map execute_no_trans for rsync_exec_t
allow polaris_ssdUnmount_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow dir:getattr for removable_t
polaris_getattr_removable(polaris_ssdUnmount_t)
')
ifdef('passport_platform,'
    type polaris_auto_upgrade_server_rp_exec_t;
files_type(polaris_auto_upgrade_server_rp_exec_t)
type polaris_bt_logger_exec_t;
files_type(polaris_bt_logger_exec_t)
type polaris_cmm_exec_t;
files_type(polaris_cmm_exec_t)
type polaris_ngwc_plfm_mgr_exec_t;
files_type(polaris_ngwc_plfm_mgr_exec_t)
type polaris_sif_mgr_exec_t;
files_type(polaris_sif_mgr_exec_t)
type polaris_torch_exec_t;
files_type(polaris_torch_exec_t)
type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)
type polaris_faked_exec_t;
files_type(polaris_faked_exec_t)
type polaris_emd_exec_t;
files_type(polaris_emd_exec_t)
type polaris_ngwc_ishow_exec_t;
files_type(polaris_ngwc_ishow_exec_t)
type polaris_gr_mgr_exec_t;
files_type(polaris_gr_mgr_exec_t)
type polaris_ioxss_rp_exec_t;
files_type(polaris_ioxss_rp_exec_t)
')
ifdef(`starfleet_platform',
    type polaris_xcvr_test_exec_t;
    files_type(polaris_xcvr_test_exec_t)
    type polaris_auto_upgrade_server_rp_exec_t;
    files_type(polaris_auto_upgrade_server_rp_exec_t)
    type polaris_bt_logger_exec_t;
    files_type(polaris_bt_logger_exec_t)
    type polaris_cmm_exec_t;
    files_type(polaris_cmm_exec_t)
    type polaris_ngwc_plfm_mgr_exec_t;
    files_type(polaris_ngwc_plfm_mgr_exec_t)
    type polaris_sif_mgr_exec_t;
    files_type(polaris_sif_mgr_exec_t)
    type polaris_torch_exec_t;
    files_type(polaris_torch_exec_t)
    type polaris_xcvr_test_exec_t;
    files_type(polaris_xcvr_test_exec_t)
')

ifdef(`starfleet_platform',
    type polaris_disk_ucode0_t;
    files_type(polaris_disk_ucode0_t);

type polaris_nplusm_power_file_t;
polaris_pfile_type(polaris_nplusm_power_file_t)

#permission for /ucode0
optional_policy('  
gen_require('  
      type polaris_periodic_t;
  ')  
polaris_disk_ucode0_read_lnk(polaris_periodic_t)  
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris cfgmgr Policy Rules.</summary>

###################################################
### <summary>
###      Write cfmgr /var/run socket file
###     </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
###     <//summary>
### </param>
#
interface('polaris_cfgmgr_var_sock_write',
  
gen_require('  
      type polaris_cfgmgr_t;
      type polaris_cfgmgr_var_run_t;
      type var_run_t;
  ')  
write_sock_files_pattern($1, var_run_t, polaris_cfgmgr_var_run_t)  
allow $1 polaris_cfgmgr_t:unix_stream_socket { connectto };  
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polaris_stackmgr, 1.0);

gen_require(
    type polaris_stack_mgr_t;
')
polaris_btrace_data_manage(polaris_stack_mgr_t)
polaris_crft_data_manage(polaris_stack_mgr_t)
polaris_chasfs_manage(polaris_stack_mgr_t)
polaris_tdlresolve_read(polaris_stack_mgr_t)
polaris_tdlldb_list_dirs(polaris_stack_mgr_t)
polaris_cpld_read(polaris_stack_mgr_t)
polaris_lua_read(polaris_stack_mgr_t)
polaris_flashlib_read(polaris_stack_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_stack_mgr_t)
polaris_db_tdlldb_dir_use(polaris_stack_mgr_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_stack_mgr_t)

allow polaris_stack_mgr_t self:capability { dac_override };
polaris_dyncfg_tmp_read(polaris_stack_mgr_t)
corecmd_exec_bin(polaris_stack_mgr_t)
corecmd_exec_shell(polaris_stack_mgr_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_stack_mgr_t)

# read /proc/cmdline
kernel_read_system_state(polaris_stack_mgr_t)

# open /dev/ttyS0 console in stack_console_write_init
term_use_unallocated_ttys(polaris_stack_mgr_t)

# on ngwc/vwlc FIPS code reads /tmp/hw_entropy
polaris_hw_entropy_use(polaris_stack_mgr_t)

#stackmgr runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_stack_mgr_t)

#stack_mgr needs to be able to access /tmp/issu_stk/prst_sync_rld_info_prcsd
polaris_issu_stack_tmp_manage(polaris_stack_mgr_t)
# may use mcp_chvrf.sh to access other nodes in system.
# Note that we do not actually need to transition to the chvrf domain, however
# a file descriptor leak can occur and the domain transition permission macro
# expands to allow polaris_chvrf_t to access the fifo
polaris_chvrf_domtrans(polaris_stack_mgr_t)

# Allow read on bootflash to be able to read reload_history
polaris_bootflash_read(polaris_stack_mgr_t)

# stackmgr tmp files
type polaris_stack_mgr_tmp_t;
files_tmp_file(polaris_stack_mgr_tmp_t)
files_tmp_filetrans(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, file, "ngwc_reload_reason")
manage_files_pattern(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t)

allow polaris_stack_mgr_t self:capability sys_nice;
allow polaris_stack_mgr_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.te
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisoctdplgrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplgrp.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris cedge_start Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.if

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22633
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved

dnl define(`polaris_mqipc_service_server_aux',`dnl
type $1;
polaris_mqipc_type($1)
polaris_mqipc_$2_create_name($3'))

define(`polaris_mqipc_service_server',`dnl
polaris_mqipc_service_server_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl')

define(`polaris_mqipc_service_client_aux',`dnl
polaris_mqipc_$2_use($3'))

define(`polaris_mqipc_service_client',`dnl
polaris_mqipc_service_client_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl')

define(`polaris_mqipc_service_server_elastic_client',``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_te.m4

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris polarisqfp Policy Rules.</summary>

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/netmap device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_netmap_dev_use',
    type device_t;
type polaris_netmap_device_t;
);
write_chr_files_pattern($1, device_t, polaris_netmap_device_t)
read_chr_files_pattern($1, device_t, polaris_netmap_device_t)
allow $1 polaris_netmap_device_t:chr_file map;
)

interface('polaris_svc_eng_punt_dev_use',
    type device_t;
type polaris_svc_eng_punt_device_t;
);
write_chr_files_pattern($1, device_t, polaris_svc_eng_punt_device_t)
read_chr_files_pattern($1, device_t, polaris_svc_eng_punt_device_t)
)

interface('polaris_svc_eng_punt_dev_use',
    type device_t;
type polaris_svc_eng_punt_device_t;
);
write_chr_files_pattern($1, device_t, polaris_svc_eng_punt_device_t)
read_chr_files_pattern($1, device_t, polaris_svc_eng_punt_device_t)
)

interface('polaris_qfp_sem_use',
    type polaris_qfp_t;
);
allow $1 polaris_qfp_t:sem rw_sem_perms;
)
## <summary>
## Send messages to qfp unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_qfp_dgram_send',
    gen_require(''
        type polaris_qfp_t;
    ')
)
allow $1 polaris_qfp_t:unix_dgram_socket sendto;
')
#
# CSR & C8KV infiniband devices in Azure
interface('polaris_infiniband_dev_use',
    gen_require(''
        type device_t;
        type polaris_infiniband_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
    read_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
    allow $1 polaris_infiniband_device_t:chr_file map;
')

########################################
## <summary>
## Execute iodbd.sh script in the polaris_iolibd_t domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_iolibd Domtrans',
    gen_require(''
        type polaris_iolibd_t, polaris_iolibd_exec_t;
    ')
)

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_iolibd_exec_t, polaris_iolibd_t)
')

################################################################################
## <summary>
##      Manage files and directoris under /tmp/iodb
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_iodb_tmp_manage',`
gen_require(`
   type polaris_iodb_tmp_t;
   `)
manage_files_pattern($1, polaris_iodb_tmp_t,polaris_iodb_tmp_t)
manage_dirs_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)

fs_getattr_tmpfs($1)
`)  

#######################################
## <summary>
##      Manage files and directoris under /tmp/memif
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_qfp_memif_manage',`
gen_require(`
   type polaris_qfp_memif_t;
   `)
manage_files_pattern($1, polaris_qfp_memif_t,polaris_qfp_memif_t)
manage_sock_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
gen_require(`
   type tmp_t;
   `)
manage_dirs_pattern($1, { tmp_t polaris_qfp_memif_t }, polaris_qfp_memif_t)
allow $1 polaris_qfp_memif_t:file map;
`)  

#######################################
## <summary>
##      polaris_qfp_log_manage
```c
// Interface polaris_qfp_log_manage

typedef struct polaris_qfp_var_log_t;

logging_log_file(polaris_qfp_var_log_t file);
logging_log_filetrans(polaris_qfp_t, polaris_qfp_var_log_t file, $1);
manage_files_pattern(polaris_qfp_t, var_log_t, polaris_qfp_var_log_t);

// Interface polaris_icp_dev_use

typedef struct device_t;
typedef struct polaris_icp_device_t;

write_chr_files_pattern($1, device_t, polaris_icp_device_t);
read_chr_files_pattern($1, device_t, polaris_icp_device_t);
allow $1 polaris_icp_device_t:chr_file map;
```

---

No license file was found, but licenses were detected in source scan.

---

March 2017, Victor Kamensky

Copyright (c) 2016-2019 by Cisco Systems, Inc.

All rights reserved

/usr/binos/bin/*linux_iosd.*ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22639

/*
 * /usr/binos/bin/mcpcc-lc-ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
 */

/tmp/boottime gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/booted gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/restconf(/.*)? gen_context(system_u:object_r:polaris_restconf_tmp_files_t,s0)
/tmp/netio0(/.*)? gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/nginx.conf gen_context(system_u:object_r:httpd_config_t,s0)
/bootflash/.geo(/.*)? gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/harddisk/.geo(/.*)? gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.fc
  No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris cli_agent Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.if
  No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polarisrogued file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.fc
  No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris MCP Platform Policy Rules.</summary>

### Work (read, write, ioctl) with /dev/scooby

### <param name="domain">

### Domain allowed access.

### </param>

```
interface(polaris_scooby_dev_use,`

gen_require(

type device_t;

type polaris_scooby_device_t;
')

write_chr_files_pattern($1, device_t, polaris_scooby_device_t)

read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
')
```

### Work (read, write, ioctl) with /dev/spa[0123]

### <param name="domain">

### Domain allowed access.

### </param>

```
interface(polaris_spa_dev_use,`

gen_require(

type device_t;

type polaris_spa_device_t;
')

write_chr_files_pattern($1, device_t, polaris_spa_device_t)

read_chr_files_pattern($1, device_t, polaris_spa_device_t)

allow $1 polaris_spa_device_t:chr_file map;
')
```

### Work (read, write, ioctl) with /dev/htdp[0-9]*

### <param name="domain">

```
## Domain allowed access.

### Work (read, write, ioctl) with /sys/devices/virtual/sys_platform

```c
interface('polaris_sysfs_platform_dev_use',
gen_require('type polaris_sysfs_platform_t;
')
manage_files_pattern($1, polaris_sysfs_platform_t, polaris_sysfs_platform_t)
')
```

### Work (read, write, ioctl) with /dev/ds31408

```c
interface('polaris_ds31408_dev_use',
gen_require('type device_t;
type polaris_ds31408_device_t;
')
rw_chr_files_pattern($1, device_t, polaris_ds31408_device_t)
')
```
## <summary>
## Allow access to /dev/cbdma
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(\texttt{polaris\_cbdma\_dev\_use},
# gen\_require(\
# \texttt{type device\_t;}
# \texttt{type polaris\_cbdma\_device\_t;}
# )
# write\_chr\_files\_pattern($1, device\_t, polaris\_cbdma\_device\_t)
# read\_chr\_files\_pattern($1, device\_t, polaris\_cbdma\_device\_t)
# allow $1 polaris\_cbdma\_device\_t:chr\_file map;
# )

## <summary>
## Allow access to /dev/cpp\_htdp
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(\texttt{polaris\_cpp\_htdp\_dev\_use},
# gen\_require(\
# \texttt{type polaris\_cpp\_htdp\_device\_t;}
# )
# write\_chr\_files\_pattern($1, device\_t, polaris\_cpp\_htdp\_device\_t)
# read\_chr\_files\_pattern($1, device\_t, polaris\_cpp\_htdp\_device\_t)
# allow $1 polaris\_cpp\_htdp\_device\_t:chr\_file map;
# )

## <summary>
## Allow access to /dev/n2\_device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_n2_dev_use',
  gen_require(
    type device_t;
    type polaris_n2_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_n2_device_t)
  read_chr_files_pattern($1, device_t, polaris_n2_device_t)
)

########################################
## <summary>
##      Allow access to /dev/cy2213
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_cy2213_dev_use',
  gen_require(
    type device_t;
    type polaris_cy2213_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
  read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
)

########################################
## <summary>
##      Allow access to /dev/vega
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_vega_dev_use',
  gen_require(
    type device_t;
    type polaris_vega_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_vega_device_t)
  read_chr_files_pattern($1, device_t, polaris_vega_device_t)
)
## <summary>
## Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dash_dev_mcp_use',
    gen_require(''
        type device_t;
        type polaris_dash_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_dash_device_t)
    read_chr_files_pattern($1, device_t, polaris_dash_device_t)
    allow $1 polaris_dash_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Crankshaft (Overlord, Utah and Fugazi) Platform Max Bay Limits
max_bay_map_set('rp', `per_bay', 3)
max_bay_map_set('cc', `per_bay', 3)
max_bay_map_set('fp', `per_bay', 3)

max_bay_ripc_map_set('rp', `per_bay', 3)
max_bay_ripc_map_set('cc', `per_bay', 3)
max_bay_ripc_map_set('fp', `per_bay', 3)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/mcpmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisiosd, 1.0);

gen_require(
    type polaris_iosd_t;
    
')

###################################################################################################
# mqipc manual, one that missing in platform tdl file
###################################################################################################

ifdef(`nyquist_platform',`
    gen_require(`
        type polaris_bt_logger_iosd_mqipc_t;
        
')

    # iosd may start first and create this mqipc channel
    polaris_mqipc_create_name(polaris_iosd_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
    
')

    polaris_btrace_data_manage_all(polaris_iosd_t)
    polaris_chasfs_manage(polaris_iosd_t)
    polaris_tdlresolve_read(polaris_iosd_t)
    polaris_tdlldb_list_dirs(polaris_iosd_t)
    polaris_cpld_read(polaris_iosd_t)
    polaris_lua_read(polaris_iosd_t)
    polaris_flashlib_read(polaris_iosd_t)
    polaris_crft_data_manage_all(polaris_iosd_t)
    optional_policy(`
        polaris_gnmib_gnoi_images_manage(polaris_iosd_t)
        
')

    polaris_ripc_sman_ui_serv_connect(polaris_iosd_t)

    polaris_db_tdlldb_dir_use(polaris_iosd_t)

    # allow read of /etc/passwd
    auth_use_nsswitch(polaris_iosd_t)

    # allow iosd read/write via hostname <>
    systemd_hostnamed_manage_config(polaris_iosd_t)

    # creates /etc/netns/1/resolv.conf via ip domain-name <> command
    # creates /etc/netns/vrf.VRFNAME via ip vfr VRFNAME command
    # creates /etc/netns/vrf.VRFNAME/resolv.conf via ip
    # domain-name vrf VRFNAME <> command
    gen_require(`
        type net_conf_t;
        
')
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_iosd_t, net_conf_t, dir, "netns")
sysnet_manage_config(polaris_iosd_t)
sysnet_manage_config_dirs(polaris_iosd_t)

# for pluggable FS, allow iosd to access files on them.
polaris_getattr_removable(polaris_iosd_t)
polaris_removable_manage(polaris_iosd_t)
fs_read_removable_symlinks(polaris_iosd_t)

polaris_lsmpi_dev_use(polaris_iosd_t)
polaris_lsmpi_sysctl_read(polaris_iosd_t)
polaris_cfg_data_manage(polaris_iosd_t)
polaris_proc_rmonbifo_read(polaris_iosd_t)
polaris_icc_broken_relocations(polaris_iosd_t)

allow polaris_iosd_t self:capability { sys_nice chown fsetid sys_rawio dac_overide dac_read_search ipc_lock };

gen_require(
    type httpd_config_t;
    type tmp_t;
)

# iosd creates /tmp/nginx.conf file
manage_files_pattern(polaris_iosd_t, tmp_t, httpd_config_t)
# transition nginx.conf into httpd_config_t
files_tmp_filetrans(polaris_iosd_t, httpd_config_t, file, "nginx.conf")
# RW access to /usr/binos/conf/nginx-conf/servers (utd feature)
manage_dirs_pattern(polaris_iosd_t, httpd_config_t, httpd_config_t)

#iosd create /tmp/nginx/cert/ca.cert
polaris_nginx_tmp_manage(polaris_iosd_t)

# !!!LOOK AT ME!!! - we allow iosd to read raw memory
# dev_read_raw_memory(polaris_iosd_t)

polaris_flashlib_write(polaris_iosd_t)
polaris_nvram_manage(polaris_iosd_t)
polaris_persistent_manage(polaris_iosd_t)

# smu management in iosd (linked in via libbcrdu.so) accesses
# files created by the installer under /tmp/patch
polaris_install_tmp_read(polaris_iosd_t)

optional_policy(
    polaris_cpp_tmp_ifdev_use(polaris_iosd_t)
)
polaris_dyncfg_tmp_read(polaris_iosd_t)

# lsmpi_fetch_linux_ifindex tries to ioctl(skfd, SIOCGIFINDEX, &ifr) on
# non-existent ethN interface, as result kernel triggers attempt to
# load kernel module that would correspond to such interface. Deny
# and don't audit iosd_attempt_to_load_kernel_modules.
# LOOK AT ME: in long term we don't want iosd even try to load modules
# and we would actually would want to report and fail such
kernel_dontaudit_request_load_module(polaris_iosd_t)

# iosd calls nice function to change fast path priority (mcp_fastpath_thread_func)
allow polaris_iosd_t self:process setsched;

ifdef(`crankshaft_family',`
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets_tun_tap_dev(polaris_iosd_t)
')

ifdef(`mcp_family',`
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets_tun_tap_dev(polaris_iosd_t)
allow polaris_iosd_t polaris_iosd_t:tun_socket relabelfrom;
')

# on ultra iosd is figuring out parameters of interfaces of underlying
# hypervisors kvm, vmware, etc. See vxe_gethd_ifdb_scan
ifdef(`crankshaft_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
')
ifdef(`vxe_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
polaris_objstore_sem_use(polaris_iosd_t)
')
ifdef(`vwlc_platform',`
polaris_disk_objstore_manage(polaris_iosd_t)
optional_policy(`
  polaris_vwlc_grub_efi_use(polaris_iosd_t)
')
')
ifdef(`wlc_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_tlsccd_uds_manage(polaris_iosd_t)
gen_require(`
  type polaris_tlsccd_t;
allow polaris_iosd_t polaris_tlsd_t:unix_dgram_socket sendto;

# on lmg mcepc-lc-ms reads /sys/devices/system/cpu/online
ifdef(`mcp_family',`
dev_read_sysfs(polaris_iosd_t)
')

# neptune need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`neptune_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# radium need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`radium_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`supernova_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# work with /tmp/boottime, /tmp/booted files: create/write
type polaris_iosd_tmp_files_t;
files_tmp_file(polaris_iosd_tmp_files_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "boottime")
(files_tmp_files(polaris_iosd_tmp_files_t, file, "booted")
create_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)

#allow polaris_iosd_t polaris_udev_tmp_files_t:dir { getattr open read search };
#allow polaris_iosd_t polaris_udev_tmp_files_t:file { open, read, write };
# LOOK AT ME (need to review write access with iosd team)
polaris_udev_tmp_manage(polaris_iosd_t)

# work with /tmp/restconf

type polaris_restconf_tmp_t;
files_tmp_file(polaris_restconf_tmp_files_t)
polaris_restconf_tmp_use(polaris_iosd_t)
files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_files_t, dir, "restconf")
filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_files_t, polaris_restconf_tmp_files_t, file)

# work with /tmp/netio0
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, dir, "netio0")
# sockets and dirs created under /tmp/netio0
manage_dirs_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
manage_sock_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow polaris_iosd_t self:unix_dgram_socket create_socket_perms;

gen_require('
    type inetd_child_t;
')
# sendto permission for /tmp/netio0/ttyC100
allow polaris_iosd_t inetd_child_t:unix_dgram_socket sendto;

polaris_socketat_nsfs_read(polaris_iosd_t)

# onep uses TIPC sockets see onep_tipc_transport_start
allow polaris_iosd_t self:socket { bind create listen accept getattr read write ioctl getopt setopt };

# mcp_eobc_create_socket creates UDP socket for eobc
corenent_udp_bind_polaris_iosd_eobc_port(polaris_iosd_t)
gen_require('
    type node_t;
')
allow polaris_iosd_t node_t:udp_socket node_bind;
allow polaris_iosd_t self:udp_socket { bind create ioctl setopt read write };

# direct access to serial TTY devices like /dev/ttyS1
term_use_unallocated_ttys(polaris_iosd_t)

# on ultra cvac_load_config function tried to access cdrom0:/iosxe_config.txt
# and if exists read
ifdef('vxe_family',
    fs_read_iso9660_files(polaris_iosd_t)
')
ifdef('wlc_family',
    fs_read_iso9660_files(polaris_iosd_t)
')

# ifs_get_free_bytes invokes mcp_fs_stats and eventually mcp_wrapper_statvfs
# with "/bootflash"...this needs attr access for "/"
fs_getattr_xattr_fs(polaris_iosd_t)

# iosd works with cpp /dev/shm/cpp_ifdev_shmem shared mmory
optional_policy('
    polaris_cpp_tmpfs_ifdev_rw(polaris_iosd_t)
')

# iosd reads/writes into grubenv for confreg
optional_policy('
    polaris_grub_efi_use(polaris_iosd_t)
')
# when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;

# mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

# Need this for bluetooth to work. HCI library uses this
allow polaris_iosd_t self:capability net_raw;

ifdef(`mcp_family',
  polaris_obfl_data_read(polaris_iosd_t)
')

# iosd uses quack on mcp and crankshaft and ngwc
ifdef(`mcp_family',
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`crankshaft_family',
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`ngwc_family',
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`qwlc_platform',
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`katar_platform',
  polaris_quack_dev_use(polaris_iosd_t)
')

ifdef(`mcp_family',
  polaris_spa_dev_use(polaris_iosd_t)
  polaris_sysfs_platform_dev_use(polaris_iosd_t)
')

# on 1ng write/ioctl into /dev/cpld-ha
# on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(`
  polaris_cpld_dev_use(polaris_iosd_t)
')

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iosd_tmpfs_t;
files_tmpfs_file(polaris_iosd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iosd_t, polaris_iosd_tmpfs_t, file)
manage_files_pattern(polaris_iosd_t, tmpfs_t, polaris_iosd_tmpfs_t)

optional_policy('polaris_iodb_tmp_manage(polaris_iosd_t)')

# on ngwc FIPS code reads /tmp/hwEntropy
# seems like iosd can delete the file as well
polaris_hw_entropy_create(polaris_iosd_t)

optional_policy('polaris_cpld_dev_read(polaris_iosd_t)')

# on tsn iosd needs write access to
# sys/devices/platform/cpld/reg_rp_reset_button_status
# sys/devices/platform/cpn-110-master DSR/DTR status
ifdef('crankshaft_family',
type polaris_quake_i2c_t;

polaris_cpld_write(polaris_iosd_t)
polaris_ggpio_dev_read_write(polaris_iosd_t)
polaris_quake_i2c_manage(polaris_iosd_t)
')

ifdef('katar_platform',
polaris_cpld_write(polaris_iosd_t)
')

# on tsn iosd needs access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/led_status
optional_policy('polaris_mokafpga_rw(polaris_iosd_t)')

# iosd reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_iosd_t)

# iosd needs manage_dirs, manage_files and manage_lnk
# permissions at "/tmp/ufs/lic0/<remote_ip>/*"
optional_policy('polaris_ncd_tmp_manage(polaris_iosd_t)')

# access NFS mounted directories from other nodes or members
fs_getattr_nfs(polaris_iosd_t)
# The code works with /sys/devices/virtual/contdev
# and /proc/net/dev
polaris_manage_contdev_dev(polaris_iosd_t)
kernell_read_network_state(polaris_iosd_t)

# iosc creates /tmp/iox_xml.dat file
optional_policy(
    polaris_iox_manage_tmp_files(polaris_iosd_t)
')
polaris_caf_var_run_files_manage(polaris_iosd_t)
container_read_lib_files(polaris_iosd_t)

# work with files like /tmp/rp/shell_exec.5B1BF1D7648E21AEE3000002
# type polaris_iosd2iox_tmp_t;
files_tmp_file(polaris_iosd2iox_tmp_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd2iox_tmp_t, file)
polaris_iosd2iox_tmp_manage(polaris_iosd_t)

# work with response
optional_policy(
    polaris_iosd2iosd_tmp_manage(polaris_iosd_t)
')
polaris_sandbox_file_dir_list(polaris_iosd_t)

# Lfts 2.0 iosc provides route information to kernel. It talks
# using generic netlink family socket. See iosc bsock_sar_netlink_process
# process
allow polaris_iosd_t self:netlink_generic_socket create_socket_perms;
allow polaris_iosd_t self:netlink_socket create_socket_perms;

# LOOK AT ME
# On nyquist iosc accesses files like lic0-2:/sanosync.data.readLock
# From saLockCheck function and it happens just right after lic0-2 was
# mounted over NFSv4. It seems that labels from remote node did not
# take an effect yet. For now allow access to dir and files that
# are not yet labeled.
ifdef(`nyquist_platform',
    files_manage_isid_type_dirs(polaris_iosd_t)
    files_manage_isid_type_files(polaris_iosd_t)
')
ifdef(`ngwc_family',
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
# Policy needed for accessing sys/bus/usb/drivers/usb/*/authorized
dev_rw_sysfs(polaris_iosd_t)
')
ifdef(‘passport_platform’,
  polaris_cm_rp_tmp_manage(polaris_iosd_t)
 )

polaris_lfts_dev_use(polaris_iosd_t)

# /dev/shm/vrf_shm access for show command
polaris_vrf_shm_manage(polaris_iosd_t)

# /dev/shm/sdm access
optional_policy(‘
  polaris_sdm_shm_manage(polaris_iosd_t)
 ’)

# iosd needs access to logging facility
logging_send_syslog_msg(polaris_iosd_t)

#iosd need access to /webui/*.odm files
polaris_read_webui_files(polaris_iosd_t)

# allow getting binos networking stats AF_NETLINK
allow polaris_iosd_t self:netlink_route_socket rw_netlink_socket_perms;

# confd needs to talk with IOSd via real linux udp snmp socket
allow polaris_iosd_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenets’d_udp_bind_snmp_port(polaris_iosd_t)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(‘vxe_family’,
  polaris_qfp_sem_use(polaris_iosd_t)
 )
ifdef(‘wlc_family’,
  polaris_qfp_sem_use(polaris_iosd_t)
  ifconfigAttach_tun_iface(polaris_iosd_t)
corenets’d_rw_tun_tap_dev(polaris_iosd_t)
 )

# Ismpi replacement punt/inject over domain sockets
ifdef(‘vxe_family’,
  polaris_pi_uds_manage(polaris_iosd_t)
polaris_qfp_dgram_send(polaris_iosd_t)
corenets’d_rw_tun_tap_dev(polaris_iosd_t)
  ifconfigAttach_tun_iface(polaris_iosd_t)
 )
# CSR when operating in VGA mode uses /dev/tty0 as the console for the system
# (including IOSD). IOSD setup scripts pass in the tty device(s) to use in the
# REAL_CONSOLE and REAL_AUX environment variables. IOSD configures the tty
# for its operation and hence need the capability.
allow polaris_iosd_t self:capability sys_tty_config;

# LOOK AT ME: hot patch upon a reboot requires execmem operation - which
# currently is not allowed. Remove the following policy when CSCvq59763
# has been completed.
allow polaris_iosd_t self:process execmem;

# /dev/epaN on qwlc/asr1k(mcp)
optional_policy('polaris_epa_dev_use(polaris_iosd_t)')

# /dev/qae_mem device access on overlord
optional_policy('polaris_qae_dev_use(polaris_iosd_t)')

# ioucon binary invoked on standby console attach.
polaris_ioucon_dgram_send(polaris_iosd_t)

# usb device requires read permissions.
kernel_read_debugfs(polaris_iosd_t)

# iosd requires access to /tmp/sv
ifdef('ngwc_family',
polaris_sv_tmp_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
')
polaris_i2c_use(polaris_iosd_t)

# on CSR AWS deployment iosd needs read access to /dev/console
term_read_console(polaris_iosd_t)

# On vxe platforms the cloudint config is stored in /varied. We need
# to be able to read it.
ifdef('vxe_family',
polaris_disk_varied_read(polaris_iosd_t)
')

# In stacked and ha setup secondary SUP bootflash and hardisk
# are mounted on active and is accessed by iosd.
polaris_getattr_bootflash(polaris_iosd_t)
polaris_getattr_harddisk(polaris_iosd_t)

# read access to /dev/random
dev_read_rand(polaris_iosd_t)

# Allow access of /tmp/maroon_stats files
polaris_maroon_data_manage_all(polaris_iosd_t)

# access to /dev/bp_async device on nanook platform
optional_policy(
  polaris_bp_async_dev_use(polaris_iosd_t)
)

#Permission for access file attribute to list the file info
polaris_caf_tmp_files_getattr(polaris_iosd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_iosd_t)
polaris_tmp_tdldb_persist_setup(polaris_iosd_t)

# IOSCC needs access to /mnt/firmware for intelligent spa during bootup
polaris_firmware_read(polaris_iosd_t)

# On Sparrow platform: IOSd requires access to /dev/remap_mem0
# and /dev/usb_console for OOB management
# Also allows access to /dev/sparrow_psu and /dev/net/tun
# /dev/shm/sem._dev_i2c_0 sempaphor
ifdef(`sparrow_platform',`
  gen_require(`
    type polaris_cm_cc_tmpfs_t;
  ')
polaris_remap_mem_dev_use(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
polaris_sparrow_psu_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfAttach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

# On Blackheart platform: /dev/shm/sem._dev_i2c_0 sempaphor
# Allow access to /tmp/udev/etc/udev/msata/udev-info and /dev/net/tun
# Allow access to /dev/remap_mem0 for alarm port
ifdef(`blackheart_platform',`
  gen_require(`
    type polaris_cm_cc_tmpfs_t;
  ')
')
polaris_udev_access(polaris_iosd_t)
polaris_remap_mem_dev_use(polaris_iosd_t)
polaris_i2c_sem_manager(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)

`) # handle /tmp/rp/.iosp_client_app token
type polaris_iosp_client_app_token_t;
files_tmp_file(polaris_iosp_client_app_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_app_token_t, file, ".iosp_client_app")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_app_token_t, polaris_iosp_client_app_token_t)

`) # handle /tmp/rp/.iosp_client_dmi token
type polaris_iosp_client_dmi_token_t;
files_tmp_file(polaris_iosp_client_dmi_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_dmi_token_t, file, ".iosp_client_dmi")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_dmi_token_t, polaris_iosp_client_dmi_token_t)

`) # handle /tmp/rp/.iosp_dmiauthd token
type polaris_dmiauthd_token_t;
files_tmp_file(polaris_dmiauthd_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_dmiauthd_token_t, file, ".iosp_dmiauthd")
manage_files_pattern(polaris_iosd_t, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

`) # handle /tmp/rp/.iosp_gnmib token
type polaris_gnmib_token_t;
files_tmp_file(polaris_gnmib_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_gnmib_token_t, file, ".iosp_gnmib")
manage_files_pattern(polaris_iosd_t, polaris_gnmib_token_t, polaris_gnmib_token_t)

polaris_udev_tmp_watch(polaris_iosd_t)

`) # Interfaces needed for Aventus platform, allow access to
# /dev/shm/sem._dev_i2c_0 sempahor
# /dev/usb_console for OOB management
# /dev/net/tun
# brctl process needs access to fifo_file
ifdef(`aventus_platform',`
  gen_require(`
    type brctl_t;
    type polaris_pman_t;
    type polaris_cm_cc_tmpfs_t;
    type ifconfig_t;
    type polaris_i2c_device_t;
  `)
polaris_i2c_sem_manager(polaris_iosd_t)
`)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22656
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
allow brctl_t polaris_pman_t:fifo_file append;
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
allow ifconfig_t polaris_i2c_device_t:chr_file { read write };

# allow access and modify files in /tftp/inv directory
# TODO Need to revisit this for further analysis
ifdef(`mcp_family',`
   gen_require(`
       type tftpdir_rw_t;
   `)
   read_files_pattern(polaris_iosd_t, tftpdir_rw_t, tftpdir_rw_t)
`)

#allow access and modify awips file in /bootflash
   gen_require(`
       type polaris_awips_signature_file_t;
   `)
   filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
   allow polaris_iosd_t polaris_awips_signature_file_t:file { write create read open getattr unlink};

# handle geodb file access
   type polaris_geodb_files_t;
   polaris_disk_type(polaris_geodb_files_t)
   filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_geodb_files_t, dir, ".geo")
   filetrans_pattern(polaris_iosd_t, polaris_disk_harddisk_t, polaris_geodb_files_t, dir, ".geo")
   polaris_geodb_files_manage(polaris_iosd_t)

# handle /var/ip_local_port_range
   type polaris_ip_linux_port_var_t;
   files_tmp_file(polaris_ip_linux_port_var_t)
   files_var_filetrans(polaris_iosd_t, polaris_ip_linux_port_var_t, file, "ip_local_port_range")

# linux_iosd-imag access to file /var/ip_local_port_range
   manage_files_pattern(polaris_iosd_t, var_t, polaris_ip_linux_port_var_t)

# Allow access to /bootflash/certs
   polaris_wlc_ap_cert_manage(polaris_iosd_t)

# commad “ls” on /var/ip_local_port_range
   gen_require(`
       type polaris_shell_t;
   `)
   allow polaris_shell_t polaris_ip_linux_port_var_t:file getattr;
# handling /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt file
# created by iosd by platform resource config command

type polaris_iosd_vcpu_t;
files_type(polaris_iosd_vcpu_t)
gen_require(
    type polaris_disk_csl_p_t;
    type polaris_disk_varied_t;
')
filetrans_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t, file, "vcpu_template.txt")
manage_files_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_iosd_t)
fs_search_cgroup_dirs(polaris_iosd_t)
# for Dynamic Core Allocation IOSd needs write access to cpu sets/shares
ifdef(`crankshaft_family',`
    fs_write_cgroup_files(polaris_iosd_t)
')

# sdwan_admintech_generate() creates admintech and admintech_trace files
gen_require(
    type polaris_admin_tech_data_t;
')
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech_trace")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_done")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_request")
polaris_admin_tech_data_manage(polaris_iosd_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_iosd_t)
allow polaris_iosd_t polaris_user_file_t:file { open unlink };

#=======================================================
# petra platform
ifdef(`petra_platform',`
    # iosd need access to petra fpga
    polaris_iots_fpga_dev_use(polaris_iosd_t)
    # iosd need access to memory devices
    polaris_iots_tm_dev_use(polaris_iosd_t)
    #allow map permission for /dev/shm/TM_A53_APIs
    allow polaris_iosd_t polaris_iosd_tmpfs_t:file map;
    #allow access to polaris_cm_rp_t sem
    polaris_cm_rp_sem_use(polaris_iosd_t)
    #allow access to userio
    dev_rw_userio_dev(polaris_iosd_t)
    allow polaris_iosd_t userio_device_t:chr_file { map };
    #iosd need access to sysfs
    dev_rw_sysfs(polaris_iosd_t)
')
allow polaris_iiod_t sysfs_t:file { create map; }

dev_manage_sysfs_dirs(polaris_iiod_t)

# iiod need access to sdflash files image is stored
polaris_swipemrive_file_manage(polaris_iiod_t)
polaris_getattr_swipemrive(polaris_iiod_t)

# iiod need access to mmcblk0p3

gen_require('
    type polaris_disk_recovery_t;
  )

allow polaris_iiod_t polaris_disk_recovery_t:filesystem getattr;

# iiod need access to mmcblk0p2
polaris_getattr_filesystem_disk_ucode(polaris_iiod_t)

# iiod need access to /dev/mvDmaDrv
polaris_mvDmaDrv_dev_use(polaris_iiod_t)

# iiod need access to /dev/mvIntDrv
polaris_mvIntDrv_dev_use(polaris_iiod_t)

# iiod need permission for LED
polaris_led_dev_use(polaris_iiod_t)

# iiod need access to rawip socket by initscripts/rc.d/init.d/iptables
allow polaris_iiod_t self:rawip_socket create_socket_perms;

# iiod needs access to /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_iiod_t)

# iiod need permission to /dev/rtc0 done via imsp_update_sw_hwclock()
dev_rw_realtime_clock(polaris_iiod_t)

')

# work with /tmp/usb-disable: create/write
type polaris_iiod_usb_disable_tmp_t;
files_tmp_file(polaris_iiod_usb_disable_tmp_t);
polaris_iiod_usb_disable_tmp_manage(polaris_iiod_t)

ifdef(`ngwc_family',`

# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_iiod_t)

')

optional_policy(
    polaris_efi_files_list_dirs(polaris_iiod_t)
)

')

# work with /dev/shm/mq.-iosd_to_timingd
type polaris_iiod_timing_mqipc_t;
polaris_mqipc_type(polaris_iiod_timing_mqipc_t)

polaris_mqipc_create_name(polaris_iiod_t, polaris_iiod_timing_mqipc_t, iosd_to_timingd)

# watch /tmp
allow polaris_iiod_t tmp_t:dir watch;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.te
No license file was found, but licenses were detected in source scan.

# January 2018, Manohar Hungund
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris oct_dp_log_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdlogrp.if
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris cedge Policy Rules.</summary>

# Manage /tmp/xml files and directories
### <summary>
### Domain allowed access.
### </summary>
# interface(`polaris_cedge_xml_tmp_manage',`
  gen_require(`
    type polaris_cedge_xml_tmp_t;
  `)
  manageDirs_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
  manageFiles_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
  files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")
  allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton };
  allow $1 polaris_cedge_xml_tmp_t:file map;
)`
## <summary>
## Manage /tmp/tmp files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_cedge_tmp_manage',
    gen_require(
        type polaris_cedge_tmp_t;
    )
    manage_dirs_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
    manage_files_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
    files_tmp_filetrans($1, polaris_cedge_tmp_t, dir, "tmp")
)

## <summary>
## Manage /etc/viptela files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_cedge_etc_manage',
    gen_require(
        type polaris_cedge_etc_t;
    )
    manage_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

## <summary>
## Read /etc/viptela files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
interface('polaris_cedge_etc_read',
    gen_require(
        type polaris_cedge_etc_t;
    )
    search_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

interface('polaris_cedge_etc_watch',
    gen_require(
        type polaris_cedge_etc_t;
    )
    allow $1 polaris_cedge_etc_t: { dir file } watch;
)

interface('polaris_cedge_set_ns',
    init_read_state($1)
    fs_read_nsfs_files($1)
    sysnet_manage_ifconfig_run($1)
)

Watch cedge_etc directories and files

Read access /var/run/netns/# performed from vip_util_set_ns
## <summary>
## Read access /proc/1/ns/net performed from vip_util_reset_ns
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cedge_reset_ns',`
    init_read_state($1)
')

######################################
## <summary>
## Manage /dev/shm viptela files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cedge_tmpfs_manage',`
    gen_require(
        type polaris_cedge_tmpfs_t;
        type tmpfs_t;
    )
    fs_tmpfs_filetrans($1, polaris_cedge_tmpfs_t, file)
    manage_files_pattern($1, tmpfs_t, polaris_cedge_tmpfs_t)
    allow $1 polaris_cedge_tmpfs_t:file map;
')

######################################
## <summary>
## Manage /tmp/.econfd2sysmgr-ipc files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_econfd2sysmgr_tmp_manage',`
    gen_require(
        type polaris_econfd2sysmgr_tmp_t;
    )
    manage_dirs_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
manage_files_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
files_tmp_filetrans($1, polaris_econfd2sysmgr_tmp_t, dir, ".econfd2sysmgr-ipc")
allow $1 polaris_econfd2sysmgr_tmp_t:dir watch;
')

```

### <summary>
### Manage /tmp/* labeled with polaris_vconfd_cert_tmp_t
### for vconfd_script_upload_root_ca_crt_chain.sh to access
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_vconfd_cert_tmp_manage',
  gen_require(''
    type polaris_vconfd_cert_tmp_t;
  ')
manage_dirs_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
manage_files_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.if
No license file was found, but licenses were detected in source scan.
#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris cpp_driver Policy Rules.</summary>

```

### <summary>
### Allow access to semaphore with type polaris_cpp_driver_t
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_cpp_driver_sem_use',

gen_require(
   type polaris_cpp_driver_t;
 )
allow $1 polaris_cpp_driver_t:sem rw_sem_perms;
)

*******************************************************************************
## <summary>
##      Allow access to shared memory with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_cpp_driver_shm_use',
   gen_require(
      type polaris_cpp_driver_t;
   )
   allow $1 polaris_cpp_driver_t:shm rw_shm_perms;
   )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris polarisautoupgrade Policy Rules.</summary>

*******************************************************************************
## <summary>
##      Execute auto-upgrade scripts in their own domain
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface('polaris_autoupgrade_domtrans'
gen_require(
    type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
)

domtrans_pattern($1, polaris_autoupgrade_exec_t, polaris_autoupgrade_t)
)

 gen_require(
    type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
)

 gen_require(
    type polaris_autoupgrade_t;
)

manage_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_link_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_fifo_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.if
No license file was found, but licenses were detected in source scan.

#
# October 2019, Patrick O'Halloran
#
# Copyright (c) 2019-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris CRFT Policy Rules.</summary>
## Allow read-only access to CRFT generated files

### <param name="domain">
### <summary>
Domain allowed access.
### </summary>
### </param>

### <param name="file_type">
### <summary>
File type of crft that corresponds to given domain.
### </summary>
### </param>

# interface(`polaris_crft_data_read`,
``
gen_require(`
  type polaris_crft_data_t;
  type polaris_crft_request_t;
  type polaris_crft_request_crft_t;
`)
``
read_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
read_files_pattern($1, polaris_crft_request_crft_t, polaris_crft_request_crft_t)
allow $1 polaris_crft_request_t:fifo_file { ioctl write };
``
)

### Manage crft persistent files

### <param name="domain">
### <summary>
Domain allowed access.
### </summary>
### </param>

# interface(`polaris_crft_data_manage`,
``
gen_require(`
  type polaris_crft_data_t;
`)
``
manage_dirs_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
# Note: Based on dicussion with SElinux team, we need to call this

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22667
# out specifically here for lnk file access, as:
# - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
allow $1 polaris_crft_data_t:file map;
')

#######################################
## <summary>
##      Manage crft files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface("polaris_crft_data_manage_all","
   polaris_crft_data_manage($1)

   gen_require(
       attribute polaris_crft_data_domain;
       type polaris_crft_data_t;
   )
)

manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
allow $1 polaris_crft_data_domain:file map;
')

#######################################
## <summary>
##	Make the specified type usable as crft data file type.
## </summary>
## <param name="type">
##	<summary>
##	Type to be used for files.
##	</summary>
## </param>
#
interface("polaris_crft_data_type","
   files_type($1)
polaris_pfile_type($1)
gen_require(
       attribute polaris_crft_data_domain;
   )
typeattribute $1 polaris_crft_data_domain;
# Process to manage its own crft files

## <summary>
## Domain allowed access.

## </summary>

## <param name="domain">
## <summary>
## Domain allowed access.

## </summary>

## </param>

## <param name="file_type">
## <summary>
## File type of crft that corresponds to given domain.

## </summary>

## </param>

interface('polaris_crft_data_client',
        gen_require(''
            type polaris_crft_data_t;
        ')
)

manage_dirs_pattern($1, polaris_crft_data_t, $2)
manage_files_pattern($1, polaris_crft_data_t, $2)
manage_link_files_pattern($1, polaris_crft_data_t, $2)
filetrans_pattern($1, polaris_crft_data_t, $2, file)
allow $1 $2:file map;

#
interface('polaris_crft_data_client_template',
        gen_require(''
            attribute polaris_crft_data_domain;
            type polaris_crft_data_t;
        ')
)

type polaris_$1_crft_t;
polaris_crf_t_data_type(polaris_$1_crf_t)
polaris_crf_t_data_client(polaris_$1_t, polaris_$1_crf_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/

/usr/cpp/bin/cpp_ha_top_level_server -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_us_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlc -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
policy_module(polaris_cfg, 1.0);

******************************************************************************
# Cfg files policy
******************************************************************************
type polaris_cfg_data_t;
files_type(polaris_cfg_data_t)

gen_require(
    attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_cfg_data_t, dir, "cfg")

******************************************************************************
# cfg_sync.sh policy

```
polaris_utility_domain_template(cfg_sync)

polaris_bexecute_domain(polaris_cfg_sync_t, polaris_cfg_sync_exec_t)

polaris_boot_tmp_read(polaris_cfg_sync_t)
polaris_btrace_data_manage(polaris_cfg_sync_t)
polaris_chasfs_read(polaris_cfg_sync_t)
polaris_cpld_read(polaris_cfg_sync_t)
polaris_use_btrace_fifo(polaris_cfg_sync_t)

corecmd_exec_bin(polaris_cfg_sync_t)
auth_use_nsswitch(polaris_cfg_sync_t)

polaris_bootflash_read(polaris_cfg_sync_t)
polaris_nvram_manage(polaris_cfg_sync_t)
telnet_use_ptys(polaris_cfg_sync_t)

gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_cfg_sync_t, rsync_t)
allow rsync_t polaris_cfg_sync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_cfg_sync_t:fifo_file { write getattr };

logging_send_syslog_msg(polaris_cfg_sync_t)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
# polarisvxeipbaseauto file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_fc.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
## <summary>Polaris cm_fp Policy Rules.</summary>

### interface(`polaris_cm_fp_domtrans',`
    gen_require(`
        type polaris_cm_fp_t, polaris_cm_fp_exec_t;
    ')
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_cm_fp_exec_t, polaris_cm_fp_t)
  ',
)

### interface(`polaris_cm_fp_tmp_manage',`
    gen_require(`
        type polaris_cm_fp_tmp_t;
        type tmp_t;
    ')
    manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)
  ',
)

### Create objects in /tmp with a polaris_cm_fp_tmp_t
##

```c
interface(`polaris_cm_fp_tmp_filetrans',
  gen_require(`
    type polaris_cm_fp_tmp_t;
    ')
  files_tmp_filetrans($1, polaris_cm_fp_tmp_t, file, "octeon-remote-lock-pci:0")
')
```

##

```c
interface(`polaris_cm_fp_sem_use',
  gen_require(`
    type polaris_cm_fp_t;
    ')
  allow $1 polaris_cm_fp_t:sem rw_sem_perms;
')
```

##

```c
interface(`polaris_cm_fp_shm_use',
  gen_require(`
    type polaris_cm_fp_t;
    ')
  allow $1 polaris_cm_fp_t:shm rw_shm_perms;
')
```
### <summary>
### Allow access to /dev/hkp with type polaris_cm_fp_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_hkp_dev_use`,
  gen_require(`
    type device_t;
    type polaris_hkp_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_hkp_device_t)
  read_chr_files_pattern($1, device_t, polaris_hkp_device_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.if
No license file was found, but licenses were detected in source scan.
#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
# polarisifmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisifmgr.fc
No license file was found, but licenses were detected in source scan.
#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
### <summary>Polaris crankshaft Platform Policy Rules.</summary>
## Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices

### <summary>
Domain allowed access.

### </summary>

```c
interface(`polaris_bde_dev_use',`
gen_require(`
    type device_t;
    type polaris_bde_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_bde_device_t)
    read_chr_files_pattern($1, device_t, polaris_bde_device_t)
    allow $1 polaris_bde_device_t:chr_file map;
')
```

## Work (read, write, ioctl) with /dev/dash_fpga device

### <summary>
Domain allowed access.

### </summary>

```c
interface(`polaris_dash_dev_use',`
gen_require(`
    type device_t;
    type polaris_dash_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_dash_device_t)
    read_chr_files_pattern($1, device_t, polaris_dash_device_t)
    allow $1 polaris_dash_device_t:chr_file map;
')
```

## Work (read, write, ioctl) with /dev/huron_fpga device

### <summary>
Domain allowed access.

### </summary>

```c
```
interface('polaris_huron_dev_use',
    gen_require('type device_t;
    type polaris_huron_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_huron_device_t)
    read_chr_files_pattern($1, device_t, polaris_huron_device_t)
    allow $1 polaris_huron_device_t:chr_file map;
')

####################################
## <summary>
##      Work (read, write, ioctl) with /dev/dplr_sumatra
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_sumatra_doppler_dev_use',
#    gen_require('type device_t;
#    type polaris_sumatra_doppler_device_t;
#    ')
#    write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
#    read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
#    allow $1 polaris_sumatra_doppler_device_t:chr_file map;
#')

####################################
## <summary>
##      Work (open, read, write, ioctl) with /dev/sirius_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_sirius_fpga_dev_use',
#    gen_require('type device_t;
#    type polaris_siriusfpga_device_t;
#    ')
#    rw_chr_files_pattern($1, device_t, polaris_siriusfpga_device_t);
#')
## <summary>
## Work (read, write, ioctl) with /dev/nios device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_nios_dev_use',
    gen_require(
        type device_t;
        type polaris_nios_device_t;
        ')
        write_chr_files_pattern($1, device_t, polaris_nios_device_t)
        read_chr_files_pattern($1, device_t, polaris_nios_device_t)
    )

## <summary>
## Work (read, write, ioctl) with /dev/qae_mem device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_qae_dev_use',
    gen_require(
        type device_t;
        type polaris_qae_device_t;
        ')
        write_chr_files_pattern($1, device_t, polaris_qae_device_t)
        read_chr_files_pattern($1, device_t, polaris_qae_device_t)
    )

## <summary>
## Read mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_mokafpga_read',
    gen_require(
        type polaris_sysfs_mokafpga_t;
        type sysfs_t;
    )
    read_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
    list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
)

##############################################################################
## <summary>
##      Read/Write mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface('polaris_mokafpga_rw',
#    gen_require(
#        type polaris_sysfs_mokafpga_t;
#        type sysfs_t;
#    )
#    rw_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
#    list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
#)

##############################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/moka_fpga
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface('polaris_mokafpga_dev_use',
#    gen_require(
#        type device_t;
#        type polaris_mokafpga_device_t;
#    )
#    write_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
#    read_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
#)

##############################################################################
## <summary>
## Work (read, write, ioctl) with /dev/nim_dm_0_1 and /dev/nim_dm devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_nim_dm_dev_use',`
            gen_require(`
                type device_t;
                type polaris_nim_dm_device_t;
            ')
            write_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
            read_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
            allow $1 polaris_nim_dm_device_t:chr_file map;
            allow $1 device_t:chr_file map;
        ')

########################################
## <summary>
## Execute a domain transition to run load_usbnet.sh.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_load_usbnet_domtrans',`
            gen_require(`
                type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
            ')
            domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
        ')

########################################
## <summary>
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
# interface('polaris_i2c_sem_manage',
  gen_require('  
    type tmpfs_t;
    type polaris_cm_cc_tmpfs_t;
  ')
  manage_files_pattern($1, tmpfs_t, polaris_cm_cc_tmpfs_t)
  mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/bp_async device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
# interface('polaris_bp_async_dev_use',
  gen_require('  
    type device_t;
    type polaris_bp_async_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
  read_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
  allow $1 polaris_bp_async_device_t:chr_file map;
')

########################################################################
## <summary>
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
# interface('polaris_udev_access',
  gen_require('  
    type tmpfs_t;
    type polaris_udev_tmp_files_t;
  ')
  manage_files_pattern($1, tmpfs_t, polaris_udev_tmp_files_t)
')
## <summary>
## Work (read, write, ioctl) with /dev/sparrow_psu device
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sparrow_psu_dev_use',
    gen_require('type device_t;
    type polaris_sparrow_psu_device_t;
    )
  write_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
  read_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
 )

######################################
## <summary>
## Work (read, write, ioctl) with /dev/nutella_fpga device
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_nutella_fpga_dev_use',
    gen_require('type device_t;
    type polaris_nutella_fpga_device_t;
    )
  write_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
 )

########################################
##	Read and write to qcqmi devices.
##	<param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#

interface('polaris_qcqmi_dev_use',
  gen_require(
    type device_t, qcqmi_device_t;
  )
)

rw_chr_files_pattern($1, device_t, qcqmi_device_t)
)

###########################################################
## <summary>
## Work (read, write, ioctl) with /dev/sm_nim_adpt device files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_sm_nim_adpt_dev_use',
  gen_require(
    type device_t;
    type polaris_sm_nim_adpt_device_t;
  )
)

write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
read_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
allow $1 polaris_sm_nim_adpt_device_t:chr_file map;
)

###########################################################
## Work (read, write, ioctl) with /dev/dio-*
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dio_dev_use',
  gen_require(
    type device_t;
    type polaris_dio_device_t;
  )
)

write_chr_files_pattern($1, device_t, polaris_dio_device_t)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
allow $1 polaris_dio_device_t:chr_file map;
)
## <summary>
##      Read /dev/dio- *
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_dio_dev_read',`
    gen_require(`
        type device_t;
        type polaris_dio_device_t;
    `)
    read_chr_files_pattern($1, device_t, polaris_dio_device_t)
`)

## <summary>
##      Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_tty_NMEA_dev_use',`
    gen_require(`
        type device_t;
        type polaris_tty_NMEA_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    allow $1 polaris_tty_NMEA_device_t:chr_file map;
`)

## <summary>
##      Read /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_tty_NMEA_dev_read',
    gen_require(
        type device_t;
        type polaris_tty_NMEA_device_t;
    )
) read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
)

##########################################
## <summary>
##      Work (read, write, ioctl) with /dev/nim_phy
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_nim_phy_dev_use',
    gen_require(
        type device_t;
        type polaris_nim_phy_device_t;
    )
) rw_chr_files_pattern($1, device_t, polaris_nim_phy_device_t)
allow $1 polaris_nim_phy_device_t:chr_file map;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.if
No license file was found, but licenses were detected in source scan.

dnl
July 2020, Victor Kamensky
dnl
Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
c8kv Platform Max Bay Limits
dnl
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(‘cc’, ’global’, 3)
max_bay_ripc_map_set(‘fp’, ’global’, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/c8kvmaps.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

# /bootflash labels
/bootflash/(.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh/(.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh_host.*_key\:pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore/.swtam for hybrid TAM access
/objstore/(.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

/csl_p_0/(.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1/(.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0/(.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1/(.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl/(.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# not really a license file stored by iosd during platform resource config command
/csl_p_0/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

# nvram devices
/dev/bootflash2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/bootflash3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)

/dev/linux-user-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/linux-kernel-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)

/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc1 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc2 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc3 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_nios -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/huron_fpga -c gen_context(system_u:object_r:polaris_huron_device_t,s0)
/dev/dplr_sumatra -c gen_context(system_u:object_r:polaris_sumatra_doppler_device_t,s0)
/dev/nios -c gen_context(system_u:object_r:polaris_nios_device_t,s0)
/dev/qae_mem -c gen_context(system_u:object_r:polaris_qae_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# moka fpga
/dev/moka_fpga -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
/dev/moka_fpga_cc -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)

# for load usbnet module
/usr/binos/conf/load_usbnet.sh -- gen_context(system_u:object_r:polaris_load_usbnet_exec_t,s0)
/dev/nim_dm -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_dm_0_1 -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_phy -c gen_context(system_u:object_r:polaris_nim_phy_device_t,s0)

# file-system on blackheart/sparrow
# /crashinfo is symbolic link to /flash1
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

# /flash is symbolic link to /flash1
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /flash0 NVRAM
/flash0/.*? gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 Bootflash
/flash1/.*? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/.geo(/.*)? gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/flash1/.USWAP(/.*)? gen_context(system_u:object_r:polaris_uswap_files_t,s0)
/flash1/.dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/debug.conf -- gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/flash1/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/flash1/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/flash1/installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/flash1/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/flash1/ssh/ssh_host.*_key\pub gen_context(system_u:object_r:sshd_key_t,s0)
/flash1/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)

# /flash3 OBFL
/flash3(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/flash3/OBFL(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# harddisk
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/mnt/msata(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

# for usage by IOX
/vol/usb1(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

/dev/shm/sem\_dev_i2c_0 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
/dev/shm/sem\_dev_i2c_1 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
/dev/shm/sem\_dev_i2c_2 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)

/tmp/udev/etc/udev/msata/udev-info gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# Nvram symlink on Aventus platform
/aventus_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# Nvram symlink on Cabo platform
/cabo_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# Device applicable to Betelgeuse platform
/dev/sirius_fpga gen_context(system_u:object_r:polaris_siriusfpga_device_t,s0)

# Device applicable to Nanook platform
/dev/bp_async -c gen_context(system_u:object_r:polaris_bp_async_device_t,s0)

# Device applicable to Sparrow platform
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)
/dev/sparrow_psu -c gen_context(system_u:object_r:polaris_sparrow_psu_device_t,s0)
/dev/dio-upstream -c gen_context(system_u:object_r:polaris_dio_device_t,s0)
/dev/dio-[1-4] -c gen_context(system_u:object_r:polaris_dio_device_t,s0)
/dev/ttyNMEA[0-1] -c gen_context(system_u:object_r:polaris_tty_NMEA_device_t,s0)
/dev/ttyTunNMEA[0-1] -c gen_context(system_u:object_r:polaris_tty_NMEA_device_t,s0)

# Device applicable to Nutella platform
/dev/nutella_fpga -c gen_context(system_u:object_r:polaris_nutella_fpga_device_t,s0)
Only qcqmi0 and qcqmi1 are generated for Telit/SWI modems

```
/dev/qcqmi0 -c gen_context(system_u:object_r:qcqmi_device_t,s0)
/dev/qcqmi1 -c gen_context(system_u:object_r:qcqmi_device_t,s0)
```

SM NIM Adpater Switzer-CC device files

```
/dev/sm_nim_adpt_fpga_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_fpga_2 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
```

CLI: show platform hardware msata

```
/usr/bin/os/bin/msata_info.sh --gen_context(system_u:object_r:polaris_msata_info_exec_t,s0)
/tmp/sata_status --gen_context(system_u:object_r:polaris_sata_status_tmp_t,s0)
```

Memory blocks and gpp for Nutella platform

```
/dev/mmcblk0gp0 --gen_context(system_u:object_r:polaris_nutella_gp0_t,s0)
/gpp --gen_context(system_u:object_r:polaris_nutella_gpp_t,s0)
```

CLI: show platform hardware slot p[x] fan eeprom

```
/usr/bin/os/conf/mcp_fan_eeprom_cmd.sh --gen_context(system_u:object_r:polaris_smart_fan_exec_t,s0)
/var/run/cwan_ezmanage_cwan_server --gen_context(system_u:object_r:polaris_cwan_svr_var_run_t,s0)
```

Found in path(s):

```
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.fc
```

No license file was found, but licenses were detected in source scan.

```
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscmfp, 1.0);

gen_require(`
  type polaris_cm_fp_t;
`)

polaris_btrace_data_manage(polaris_cm_fp_t)
polaris_crft_data_manage(polaris_cm_fp_t)
polaris_chasfs_manage(polaris_cm_fp_t)
polaris_tdlresolve_read(polaris_cm_fp_t)
polaris_tlddb_list_dirs(polaris_cm_fp_t)
polaris_cpld_read(polaris_cm_fp_t)
polaris_flashlib_read(polaris_cm_fp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_fp_t)

polaris_cpld_dev_use(polaris_cm_fp_t)
polaris_proc_rmonbifo_read(polaris_cm_fp_t)
polaris_obfl_data_read(polaris_cm_fp_t)
polaris_persistent_list_dirs(polaris_cm_fp_t)
polaris_chasync_files_manage(polaris_cm_fp_t)

# cman_fp creates /tmp/cpp_anon_db file, instead of adding it to polaris_cpp_domain
# let us just grant access to cpp tmp files
polaris_cpp_tmp_files_use(polaris_cm_fp_t, "cpp_anon_db")
# on 1ng works with /dev/cpp
polaris_cpp_dev_use(polaris_cm_fp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_fp_t)

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479556298.842:11): avc: denied { getattr } for pid=5464 comm="cman_fp"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_fp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479556298.842:12): avc: denied { read write } for pid=5464 comm="cman_fp"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_fp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_fp_t)

polaris_icc_broken_relocations(polaris_cm_fp_t)

allow polaris_cm_fp_t self:udp_socket { create ioctl };

# cman_fp can start dyncfg_setup.sh, allow its transition to dyncfg_t type
polaris_dyncfg_domtrans(polaris_cm_fp_t)

# on 1ng cman_fp write into /bootflash/crypto/octeon_pci_console_dev0_20170723_075412.log
polaris_bootflash_manage(polaris_cm_fp_t)

polaris_disk_harddisk_read_lnk(polaris_cm_fp_t)

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_cm_fp_t)
kernell_write_proc_files(polaris_cm_fp_t)

# cm_fp tmp files like /tmp/octeon-remote-lock-pci:0
type polaris_cm_fp_tmp_t;
files_tmp_file(polaris_cm_fp_tmp_t)
polaris_cm_fp_tmp_filetrans(polaris_cm_fp_t)
# besides /tmp/octeon-remote-lock-pci:0 all other files in /tmp
# are ours
files_tmp_filetrans(polaris_cm_fp_t, polaris_cm.fp_tmp_t, file)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family'

polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family'

polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in dopler SDK remove after
# CSCvm34516 is fixed using CSCvm34630
ifdef(`starfleet_platform'

polaris_dev_mem_use(polaris_cm_fp_t)
')

# "show platform hardware slot F0 eobc interface standby rmon" leads to
# ioctl() call from cmlib_get_eobc_drv_info().
kernel_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobc interface standby rmon"
kernell_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef(`mcp_family'

polaris_dyncfg_setup(polaris_cm_fp_t)
')

allow polaris_cm_fp_t self:capability dac_override;

polaris_obfl_data_manage(polaris_cm_fp_t)

allow polaris_cm_fp_t self:netlink_route_socket rw_netlink_socket_perms;

ifdef(`ngwc_family'
# cmfp_asic_mmap_func() function in cmfp module uses
# /dev/chdrv mmap for asic memory mapping
polaris_chdrv_mmap_dev_use(polaris_cm_fp_t)

# on macallan cman_fp needs access to /dev/cisco/dplriomem
# for mappin dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_cm_fp_t);
# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t);
')

  optional_policy('  # Allow /dev/dmammap access  polaris_dmammap_dev_use(polaris_cm_fp_t)  ')

# on starfleet need access to
# /sys/device/platform/cpld/reg_fan_control
polaris_cpld_write(polaris_cm_fp_t)

# /dev/shm/sdm access
optional_policy('  polaris_sdm_shm_manage(polaris_cm_fp_t)  ')

logging_send_syslog_msg(polaris_cm_fp_t)

# /dev/epactrlN on qwlc
optional_policy('  polaris_epa_dev_use(polaris_cm_fp_t)  ')

# /dev/astro on qwlc
optional_policy('  polaris_astro_dev_use(polaris_cm_fp_t)  ')

# /dev/cpp_il on qwlc
optional_policy('  polaris_cpp_il_dev_use(polaris_cm_fp_t)  ')

# on radium need to get model info
optional_policy('  polaris_dash_dev_use(polaris_cm_fp_t)  ')

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy('  polaris_cpp_cavium_dma_map(polaris_cm_fp_t)  ')
')
# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_fp_t)

optional_policy(
# betelgeuse need access to /dev/sirius_fpga
polaris_sirius_fpga_dev_use(polaris_cm_fp_t)
)

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy(
polaris_serdes_asic_key_tmp_manage(polaris_cm_fp_t)
)

type polaris_hkp_device_t;
dev_node(polaris_hkp_device_t)

# access /dev/iocp0
optional_policy(
polaris_spa_dev_use(polaris_cm_fp_t)
)

optional_policy(
# access /dev/hkp
polaris_hkp_dev_use(polaris_cm_fp_t)
polaris_n2_dev_use(polaris_cm_fp_t)
polaris_cy2213_dev_use(polaris_cm_fp_t)
polaris_ddr_dev_use(polaris_cm_fp_t)
polaris_vega_dev_use(polaris_cm_fp_t)
)
polaris_firmware_read(polaris_cm_fp_t)

# allow access to /csl_p_0/vcpu_template.txt
polaris_iosd_vcpu_read(polaris_cm_fp_t)

# allow Cabo access to i2c semaphores
ifdef(`cabo_platform',`
polaris_i2c_sem_manage(polaris_cm_fp_t)
')

ifdef(`sumatra_platform',`
# access huron fpga on sumatra
polaris_huron_dev_use(polaris_cm_fp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.te
No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisezmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisripc, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisripc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl divert(-1)
include(`polaris_process.m4')
include(`polaris_process_fc.m4')
include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_fc.m4')
include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_fc.m4')
include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_fc.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
define(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisstorage, 1.0);

# Persistent storage policy
attribute polaris_disk;

type polaris_disk_bootflash_t;
polaris_disk_type(polaris_disk_bootflash_t)
type polaris_disk_varied_t;
polaris_disk_type(polaris_disk_varied_t)

type polaris_disk_harddisk_t;
polaris_disk_type(polaris_disk_harddisk_t)

type polaris_disk_csl_p_t;
polaris_disk_type(polaris_disk_csl_p_t)

type polaris_disk_csl_s_t;
polaris_disk_type(polaris_disk_csl_s_t)

type polaris_disk_objstore_t;
polaris_disk_type(polaris_disk_objstore_t)

type polaris_disk_crashinfo_t;
polaris_disk_type(polaris_disk_crashinfo_t)

type polaris_disk_license_t;
polaris_disk_type(polaris_disk_license_t)

type polaris_disk_ucode_t;
polaris_disk_type(polaris_disk_ucode_t)

type polaris_disk_recovery_t;
polaris_disk_type(polaris_disk_recovery_t)

type polaris_disk_config_t;
polaris_disk_type(polaris_disk_config_t)

# Persistent files types
type polaris_system_report_t;
polaris_pfile_type(polaris_system_report_t)

type polaris_core_file_t;
polaris_pfile_type(polaris_core_file_t)

type polaris_debug_conf_t;
polaris_pfile_type(polaris_debug_conf_t)

type polaris_packages_conf_t;
polaris_pfile_type(polaris_packages_conf_t)

type polaris_grub_efi_t;
polaris_pfile_type(polaris_grub_efi_t)

# we label .ssh files residing on persistent storage as ssh_home_t
# and sshd_key_t
# below statement could/should be moved into ssh te file?
gen_require(
    type ssh_home_t;
    type sshd_key_t;
)
polaris_disk_type(ssh_home_t)
polaris_disk_type(sshd_key_t)

# handling /bootflash directory - created by systemd unit, note normally
# something will be mounted on top of it, but in some cases like RP2 line
# cards it will be ramfs directory.
gen_require(
    type root_t;
    type unconfined_service_t;
)
filetrans_pattern(unconfined_service_t, root_t, polaris_disk_bootflash_t, dir, "bootflash")

# nfsd accesses different persistent storage directories and it needs getattr
gen_require(
    type nfsd_t;
)
polaris.persistent_getattr(nfsd_t)

# on qwlc /misc/scratch symbolic link created by systemd-tmpfile, but then
# removed and recreated by harddisk mount systemd unit
(gen_require(
    type unconfined_service_t;
    type mnt_t;
)
filetrans_pattern(unconfined_service_t, mnt_t, polaris_disk_bootflash_t, lnk_file, "scratch")

gencode("type polaris_confd_t;
    type tmp_t;
    ")
filetrans_pattern(polaris_confd_t, tmp_t, polaris_packages_conf_t, file, "packages.conf")

# first time creation of /bootflash/core directory
(gen_require(
    type initrc_t;
    type init_t;
)
filetrans_pattern({initrc_t init_t unconfined_service_t}, {polaris_disk_bootflash_t polaris_disk_harddisk_t} ,
polaris_core_file_t, dir, "core")

gencode("type init_t;
    ")
files_tmp_filetrans(init_t, polaris_packages_conf_t, file, "packages.conf")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarrisstorage.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/binos/conf/run_ioxn_gs_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/cpp/bin/cpp_sp_svr -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisCPPsp.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris Btrace Policy Rules.</summary>

# Btrace policy
# Manage btrace auxiliary files

## <summary>
## Manage btrace auxiliary files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

```

interface(`polaris_btrace_data_manage', `polaris_btrace_base_t, polaris_btrace_base_t)

manage_dirs_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
polaris_btrace_tmppub_manage($1)

fs_tmpfs_filetrans($1, polaris_btrace_tmpfs_t, file, "oper_uuid_shm")
manage_files_pattern($1, tmpfs_t, polaris_btrace_tmpfs_t)
allow $1 polaris_btrace_tmpfs_t:file map;
```

# Manage temporary (not yet persistent) btrace files

## <summary>
## Manage temporary (not yet persistent) btrace files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

```

interface(`polaris_btrace_data_manage_all', `polaris_btrace_data_domain, polaris_btrace_base_t)

polaris_btrace_data_manage($1)

gen_require(
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
)
```
manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
manage_lnk_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
allow $1 polaris_btrace_data_domain:file map;

# create temporary files in trace directory
manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
manage_lnk_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# watch btrace data directory for changes
allow $1 polaris_btrace_base_t:dir watch;

########################################
## <summary>
##      Manage btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_btrace_persistent_data_manage',`
  gen_require(`
  type polaris_btrace_data_t;
  `)

manage_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
manage_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)

########################################
## <summary>
##      Read btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_btrace_persistent_data_read',`
  gen_require(`
  type polaris_btrace_data_t;
  `)
search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
read_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
)

##########################################################################
## <summary>
##   Search btrace persistent files
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_persistent_data_search`,
  gen_require(`
    type polaris_btrace_data_t;
  `)
  search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
)

##########################################################################
## <summary>
##   Search tracelogs directions in bootflash, harddisk or crashinfo
## directories
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_search_tracelogs`,
  gen_require(`
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
  `)
  search_dirs_pattern($1, polaris_disk_harddisk_t, polaris_btrace_data_t)
  search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_btrace_data_t)
  search_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_btrace_data_t)
)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22700
## <summary>
## Manage btrace boot level config files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_btrace_lvl_config_manage`,
  gen_require(
  type polaris_btrace_lvl_config_t;
  type polaris_btrace_data_t;
  )
)
manage_dirs_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
manage_files_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
  filetrans_pattern($1, polaris_btrace_data_t, polaris_btrace_lvl_config_t, dir, "level_config")
  polaris_btrace_search_tracelogs($1)
  polaris_disk_bootflash_read_lnk($1)
  polaris_disk_harddisk_read_lnk($1)
  polaris_disk_crashinfo_read_lnk($1)
  )

## <summary>
## Read ldb_tmp btrace meta data files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_btrace_ldb_tmp_read`,
  gen_require(
  type polaris_ldb_tmp_t;
  )
  read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
  )
### <summary>
### Read and write all btrace or pman fifo file, used as standard input/output.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_use_btrace_fifo',`
gen_require(`
type polaris_fifo_stdout_t;
')
allow $1 polaris_fifo_stdout_t:fifo_file { rw_term_perms lock append create unlink getattr };
#
# For pmanlite, allow pmans grand-children to be able to operate on pipe created by pman.
polaris_use_pman_fifo($1)
')

### <summary>
### Execute create_luid_file_db in the its domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_create_ldb_domtrans',`
gen_require(`
type polaris_create_ldb_t, polaris_create_ldb_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_create_ldb_exec_t, polaris_create_ldb_t)
')

### <summary>
### Make the specified type usable as btrace data file type.
### </summary>
## <param name="type">
##	<summary>
##	Type to be used for files.
##	</summary>
## </param>
#
interface(`polaris_btrace_data_type',
    files_type($1)
    gen_require(
        attribute polaris_btrace_data_domain;
    )
    typeattribute $1 polaris_btrace_data_domain;
)

#######################################
## <summary>
##      Process to manage its own btrace files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="file_type">
##      <summary>
##      File type of btrace that corresponds to given domain.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_data_client',
    gen_require(`
        type polaris_btrace_base_t;
    )
    manage_files_pattern($1, polaris_btrace_base_t, $2)
    manage_lnk_files_pattern($1, polaris_btrace_base_t, $2)
    filetrans_pattern($1, polaris_btrace_base_t, $2, { file lnk_file })
)

# all clients check for /tmp/rp/trace/publish/timed/enabled control
# file presence, created by btman, may need its own type
gen_require(`
    type polaris_btman_bt_t;
)'
getattr_files_pattern($1, polaris_btrace_base_t, polaris_btman_bt_t)

allow $1 $2:file map;
')
### Process to manage its own btrace files

#### <param name="domain_stem">
#### Steam of domain allowed access.
#### </param>

#### Execute mcp_trace_request.sh in its domain.

#### <param name="domain">
#### Domain allowed to transition.
#### </param>

#### Watch btrace directories
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface('polaris_btrace_data_watch',``
gen_require('``
   type polaris_btrace_base_t;
   type polaris_btrace_data_t;
')
   allow $1 polaris_btrace_base_t:dir watch;
   allow $1 polaris_btrace_data_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polaristamsrp, 1.0);

gen_require('``
   type polaris_tams_rp_t;
')

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crft_data_manage(polaris_tams_rp_t)
polaris_chasfs_manage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdldb_list_dirs(polaris_tams_rp_t)
polaris_flashlib_read(polaris_tams_rp_t)
polaris_cpld_read(polaris_tams_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_tams_rp_t)

# tams_tamic_tipc_listener_init function create tipc socket
allow polaris_tams_rp_t self:socket { bind create listen accept getattr read write };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisiomd, 1.0);

gen_require('  
    type polaris_iomd_t;
')

polaris_btrace_data_manage(polaris_iomd_t)  
polaris_crft_data_manage(polaris_iomd_t)  
polaris_chasfs_manage(polaris_iomd_t)  
polaris_tdlresolve_read(polaris_iomd_t)  
polaris_tdlldb_list_dirs(polaris_iomd_t)  
polaris_cpld_read(polaris_iomd_t)  
polaris_flashlib_read(polaris_iomd_t)  
polaris_ripc_sman_ui_serv_connect(polaris_iomd_t)  
polaris_db_tdlldb_dir_use(polaris_iomd_t)  
polaris_dyncfg_tmp_read(polaris_iomd_t)  
optional_policy('  
polaris_spa_dev_use(polaris_iomd_t)
')

# allow objstore access  
polaris_disk_objstore_read(polaris_iomd_t)  
polaris_ngio_dev_use(polaris_iomd_t)

# deals with /dev/shm files semaphors; like uuid_sem semaphore  
# created by btrace_get_uuid function  
type polaris_iomd_tmpfs_t;  
files_tmpfs_file(polaris_iomd_tmpfs_t)  
fs_tmpfs_filetrans(polaris_iomd_t, polaris_iomd_tmpfs_t)  
manage_files_pattern(polaris_iomd_t, tmpfs_t, polaris_iomd_tmpfs_t)  
# sem_open through where_is_shmfs does stat on /dev/shm  
fs_getattr_tmpfs(polaris_iomd_t)  

#allow /dev/i2c device file  
polaris_i2c_use(polaris_iomd_t)
ifdef(`ngwc_family',`
# On Macallan platforms the following api call from iomd process,
# ngmodslot_is_upper_sup_present() does a read access of /dev/cpld
polaris_cpld_dev_read(polaris_iomd_t)
polaris_cpld_dev_use(polaris_iomd_t)

#allow cpp tmp file
polaris_cpp_tmp_files_use(polaris_iomd_t)

# In Macallan cards which use Doppler ASIC,
# IOMD module uses ngmod_doppler_mmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmmap device.
polaris_chdrvmmmap_dev_use(polaris_iomd_t)

# IOMD module invokes ASIC Scan functionality
# and calls asic_register_intr_handler (), which
# needs to access the doppler MSI devices
#/dev/mpi/Slot[0-9]*/Doppler[0-9]/Group[0-9]
polaris_dplr_dev_use(polaris_iomd_t)
# but above still not enough at some point
# device like /dev/mpi/Slot8/Doppler0/Group0 still
# considered as device_t, not clear need to look a bit more
dev_rw_generic_chr_files(polaris_iomd_t)

# on macallan iomd needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_iomd_t);

# IOMD calls ngmod_obfl_errmsg_app_init() to initialize
# OBFL.
polaris_obfl_data_manage(polaris_iomd_t)

# IOMD fast path code invokes ngmod_fastpath_thread_func(),
# which increases the scheduler priority.
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_iomd_t);

optional_policy(`
# ASIC related mmap code in IOMD needs to acces PCI scan related
# rescan shm mutex
polaris_cm_cc_tmpfs_manage(polaris_iomd_t)
`)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22707
both utah and macallan text relocations in libc++_common_os.so
ifdef(`crankshaft_family',
polaris_icc_broken_relocations(polaris_iomd_t)
# Nightwatch switch module needs to access the doppler devices
polaris_dplr_dev_use(polaris_iomd_t)
dev_rw_generic_chr_files(polaris_iomd_t)
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;
')
optional_policy(
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_iomd_t)
')
optional_policy(
# on starfleet access gettysburg_fpga
polaris_gettysburg_fpga_dev_use(polaris_iomd_t)
')
type polaris_iomd_tmp_t;
files_tmp_file(polaris_iomd_tmp_t)
manage_dirs_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_files_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_fifo_files_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)

# on macallan MRVL88X5113_DRV_PRINT macro outputs into /tmp/mrvl88x5113.log file
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, file, "mrvl88x5113.log")
logging_send_syslog_msg(polaris_iomd_t)
ifdef(`ngwc_family',
# from in115050_test_app_thread_create in
# drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
# For macallan in115025_test_app_thread_create in
# drivers/userspace/inphi/dev_ephy_in115025/src/dev_ephy_in115025.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_inphi")

# In case of starfleet fixed the following module creates folder in /tmp
#/drivers/userspace/mrvl_phy/dev_ephy_mrvl88ec808/src/dev_ephy_m88ec808.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_mrvlphy")

#allow access to /tmp/serdes_asic_key_dir as this path is used both by
cman_fp for programming DPP serdes and IOMD for programming n/w serdes
optional_policy(
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)
Doppler E  mac creates lockfiles with names following
the pattern /tmp/nug_asic_key_dir/nug_asic_key_[0-9]_[0-9]_[0-9]
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "nug_asic_key_dir")

Doppler ES  mac creates lockfiles with names following
the pattern /tmp/rmt_asic_key_dir/rmt_asic_key_[0-9]_[0-9]_[0-9]
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "rmt_asic_key_dir")

# from etopus_spawn_serdes_tool_thread in
# binos/platforms/ngwc/doppler_sdk/drivers/serdes/Vendor/src/etopus_serdes.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_etp")

#on starfleet access /dev/cpld, in iomd_starfleet_create_mmap()
polaris_cpld_dev_use(polaris_iomd_t)
)

optional_policy(
polaris_ngwc_itfpo_manage(polaris_iomd_t)
)

# ngio device
type polaris_ngio_device_t;
dev_node(polaris_ngio_device_t)

#For NGIO modules iomd uses netlink socket (via backplane switch)
allow polaris_iomd_t self:netlink_socket { bind create };

ifdef(`sumatra_platform',
#on Sumatra access /dev/cpld from iomd
polaris_cpld_dev_use(polaris_iomd_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_iomd_t)
polaris_sumatra_doppler_dev_use(polaris_iomd_t)

#access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_iomd_t)

# manage "sysctrl_i2c.lck"
gen_require(
    type polaris_cm_rp_tmp_t;
)
files_tmp_filetrans(polaris_iomd_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_iomd_t)
# comm="iomd" kmod="netdev-bp246"
kernel_request_load_module(polaris_iomd_t)

# work with /sys/devices/i2c-15/15-0076/...
dev_rw_sysfs(polaris_iomd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.te

No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define('polaris_lipc_service_server_many,'
  "ifelse($3, '',
    polaris_lipc_create_name(dollarsone, $1, "$2"),
    polaris_lipc_create_name(dollarsone, $1, "$2-b$3"))
  "ifelse($3, 0, polaris_lipc_create_name(dollarsone, $1, "$2"), polaris_lipc_service_server_many($1, $2, eval($3 - 1))')")

define('polaris_lipc_service_server_aux',
  "########################################
  ## <summary>
  ##	Create $2 lipc chanell.
  ## </summary>
  ## <param name="domain">
  ##<<summary>
  ##Domain allowed access.
  ##</summary>
  ## </param>
  ## <infoflow type="none"/>
  #
  interface(\`polaris_lipc_$1_create_name\`,\`
    gen_require(
        type $2;
        $3
    )
  )
  
  "########################################
  ## <summary>
  ##Write $2 lipc chanell.
  ## </summary>
  
  "########################################
  ## <summary>
  ##"
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>

## <param name="server">
##  <summary>
##  Domain of owner of lipc channel.
##  </summary>
## </param>

# interface(`polaris_lipc_$1_write'',
# gen_require(`
type $2;
')

  polaris_lipc_write(dollarsone, $2, dollarstwo)
``)
#)

define(`polaris_lipc_service_server',
dnl
  polaris_lipc_service_server_aux(lipc_stem($1), lipc_label($1),
  polaris_lipc_service_server_many(lipc_label($1), $5, max_scope_map($3, $4, $2)))')

define(`polaris_lipc_service_client',''

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_if.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisncd, 1.0);

gen_require(`
  type polaris_ncd_t;
')

# allow sntp transition in its own domain when started by ncd
ntp_domtrans_ntpdate(polaris_ncd_t)
corecmd_exec_bin(polaris_ncd_t)
corecmd_exec_shell(polaris_ncd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_ncd_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ncd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ncd_t)

# work with /tmp files (/tmp/ncd)
type polaris_ncd_tmp_t;
files_tmp_file(polaris_ncd_tmp_t)
manage_dirs_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_fifo_files_pattern(polaris_ncd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, file)

# create /tmp/ncd and /tmp/etc/ncd_work_dir directories
gen_require(''
    type polaris_etc_t;
')
manage_dirs_pattern(polaris_ncd_t, { tmp_t polaris_etc_t }, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, dir, "ncd")
# /tmp/etc/ncd_work_dir
filetrans_pattern(polaris_ncd_t, polaris_etc_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")

# work with /tmp/ncd/inot_fifo
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, fifo_file, "inot_fifo")
manage_fifo_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)

# allow sntp to read out fifo file
gen_require(''
    type ntpd_t;
')
read_fifo_files_pattern(ntpd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)

# work with /tmp/ufs directory. the ufs directory can be created
# by both polaris_ncd_t and udev_t subjects (depending upon platform
# logic)
gen_require(''
    type udev_t;
    type unconfined_service_t;
')
files_tmp_filetrans( { polaris_ncd_t udev_t unconfined_service_t }, polaris_ncd_tmp_t, dir, "ufs")
polaris_btrace_data_manage(polaris_ncd_t)
polaris_chasfs_manage(polaris_ncd_t)
polaris_cpld_read(polaris_ncd_t)
polaris_proc_rmonbifo_read(polaris_ncd_t)
polaris_rmonbifo_tmp_read(polaris_ncd_t)
polaris_boot_tmp_read(polaris_ncd_t)
polaris_disk_crashinfo_getattr(polaris_ncd_t)
polaris_disk_bootflash_read_link(polaris_ncd_t)
polaris_flashlib_lock(polaris_ncd_t)
polaris_flashlib_read(polaris_ncd_t)
polaris_read_debug_conf(polaris_ncd_t)
polaris_read_packages_conf(polaris_ncd_t)

brctl_domtrans(polaris_ncd_t)
sysnet_domtrans_ifconfig(polaris_ncd_t)

# ncd.sh invokes ifup which in turn is calling dhclient
sysnet_domtrans_dhcpc(polaris_ncd_t)

type polaris_ncd_etc_t;
files_config_file(polaris_ncd_etc_t)
gen_require(
    attribute domain;
)
files_etc_filetrans(domain, polaris_ncd_etc_t, file, "mount_data")
manage_dirs_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)
manage_files_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)

# runs exportsfs command
rpc_read_exports(polaris_ncd_t)
rpc_write_exports(polaris_ncd_t)
rpc_manage_nfs_state_data_dir(polaris_ncd_t)
rpc_manage_nfs_state_data(polaris_ncd_t)
fs_rw_nfsd_fs(polaris_ncd_t)
kernle_rw_rpc_sysctls(polaris_ncd_t)
fs_getattr_xattr_fs(polaris_ncd_t)

# reloads xinetd@/tmp/etc/xinetd.conf.consolidated.service and
# systemctl reload xinetd_brelay@eobc.service
systemd_exec_systemctl(polaris_ncd_t)
systemd_reload_all_services(polaris_ncd_t)
systemd_status_all_unit_files(polaris_ncd_t)

polaris_chvrf_domtrans(polaris_ncd_t)
# ncd process calls ifconfig and route and mcp_chvrf
gen_require(
    type polaris_chvrf_t;
)
sysnet_domtrans_ifconfig(polaris_chvrf_t)
allow polaris_chvrf_t self:capability net_admin;
allow polaris_chvrf_t self:udp_socket { create ioctl };
allow polaris_ncd_t self:process setpgid;

polaris_persistent_getattr(polaris_ncd_t)

# access to /etc/sysconfig/network-scripts
sysnet_read_config(polaris_ncd_t)

fs_getattr_tmpfs(polaris_ncd_t)

# manage file under /tmp/etc/ncd_work_dir
gen_require{
    type initrc_tmp_t;
type initrc_t;
}
filetrans_pattern(polaris_ncd_t, initrc_tmp_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")
polaris_ncd_tmp_manage(polaris_ncd_t)

# /tmp/root/loopback is created by initrc_t but managed by ncd.sh.
# dynamic label directory "/tmp/root/loopback" as polaris_ncd_tmp_t
files_tmp_filetrans(initrc_t, polaris_ncd_tmp_t, dir, "loopback")

# flashutil has wrong file permission
allow polaris_ncd_t self:capability { dac_override sys_resource };

# access to /tmp/etc/xinetd.conf.consolidated
init_read_script_tmp_files(polaris_ncd_t)

allow polaris_ncd_t self:capability net_admin;

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_ncd_t)

# ncd calls mount to handle nfs directories
mount_domtrans(polaris_ncd_t)

#rsync_exec(polaris_ncd_t)
gen_require{
    type rsync_t;
    type rsync_tmp_t;
}
rsync_entry_domtrans(polaris_ncd_t, rsync_t)
allow rsync_t polaris_ncd_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_ncd_t:fifo_file write;

# PLEASE LOOK AT ME: probably /tmp/rp/active_epoch deserves its own type
# /tmp/rp/active_epoch on its way to /tmp/chassis/local/rp/chasfs/rp/0/0/epoch
manage_files_pattern(polaris_ncd_t, rsync_tmp_t, rsync_tmp_t)
# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ncd_t)
allow polaris_ncd_t self:process setfscreate;

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_ncd_t)
# stdin file descriptor leak when hwclock started
gen_require('  
type hwclock_t;
  ')
allow hwclock_t polaris_ncd_tmp_t:fifo_file read;

ifdef('ngwc_family','
polaris_getattr_filesystem_disk_ucode(polaris_ncd_t)
')

# update /tmp/etc/xinetd.conf.consolidated file
polaris_etc_append(polaris_ncd_t)

# ncd.sh adds entries to /etc/exports file
gen_require('  
type etc_t;
  ')
append_files_pattern(polaris_ncd_t, etc_t, etc_t)

# create and write into /tmp/unifiedfs/unifiedfs_log
manage_files_pattern(polaris_ncd_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
polaris_ncd_rpcinfo_net(polaris_ncd_t)

# accessing /mnt/usb0
fs_search_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ufs_helper_t)

# ncd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
# write/create to "/sys/module/nfs/parameters/nfs4_unique_id"
dev_rw_sysfs(polaris_ncd_t)
dev_manage_sysfs_dirs(polaris_ncd_t)
gen_require('  
type sysfs_t;
  ')
create_files_pattern(polaris_ncd_t, sysfs_t, sysfs_t)

# ps needs access to proc_t
kernel_read_system_state(polaris_ncd_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_ncd_t)

# send signal to ntpd
ntp_signal(polaris_ncd_t)

# ncd.sh executes hostname
hostname_exec(polaris_ncd_t)

# ncd.sh runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_ncd_t)

# handling /usr/binos/conf/iosd_console_attach.sh

polaris_utility_domain_template(console_attach)

polaris_bexecute_domain(polaris_console_attach_t, polaris_console_attach_exec_t)

corecmd_exec_bin(polaris_console_attach_t)
auth_use_nsswitch(polaris_console_attach_t)

# execute ping over liin: usr/binos/conf/mcp_chvrf.sh liin /bin/ping -c 1 -w 300 192.168.1.6
polaris_chvrf_domtrans(polaris_console_attach_t)
# from chvrf.sh code executes ping command
gen_require(''
    type polaris_chvrf_t;
    ')
netutils_domtrans_ping(polaris_chvrf_t)
# send sigchld when it is done
gen_require(''
    type ping_t;
    ')
allow ping_t polaris_console_attach_t:process sigchld;

polaris_boot_tmp_read(polaris_console_attach_t)
polaris_btrace_data_manage(polaris_console_attach_t)
polaris_chasfs_read(polaris_console_attach_t)
polaris_cpld_read(polaris_console_attach_t)
polaris_disk_bootflash_search(polaris_console_attach_t)
polaris_disk_crashinfo_getattr(polaris_console_attach_t)
polaris_ncd_tmp_read(polaris_console_attach_t)
polaris_read_debug_conf(polaris_console_attach_t)
polaris_rmonbifo_tmp_read(polaris_console_attach_t)
polaris_use_btrace_fifo(polaris_console_attach_t)

# read /proc/cmdline
kernel_read_system_state(polaris_console_attach_t)

# read /tmp/myhostname file
polaris_hm_tmp_read(polaris_console_attach_t)

telnet_use_ptys(polaris_console_attach_t)

allow polaris_console_attach_t self:capability sys_resource;
allow polaris_console_attach_t self:process setrlimit;

# getty starts /usr/binos/conf/iosd_console_attach.sh through brelay
gen_require(''
    type getty_t;
')
polaris_bconsole_domtrans(getty_t)

# console_attach.sh start btelnet.sh over chvrf and bexecute
gen_require(''
    type polaris_bexecute_t;
')
allow polaris_bexecute_t polaris_console_attach_t:process sigchld;
corenet_tcp_connect_telnetd_port(polaris_bexecute_t)

# handling /usr/binos/conf/unifiedfs/unifiedfs_helper.sh
polaris_utility_domain_template(ufs_helper)
corecmd_exec_bin(polaris_ufs_helper_t)
auth_use_nsswitch(polaris_ufs_helper_t)

# rsync calls unifiedfs_helper.sh
gen_require(''
    type rsync_t;
')
polaris_ufs_helper_domtrans(rsync_t);

# unifiedfs_helper.sh calls mount to handle nfs directories
mount_domtrans(polaris_ufs_helper_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ufs_helper_t)

polaris_disk_bootflash_search(polaris_ufs_helper_t)
polaris_ncd_tmp_manage(polaris_ufs_helper_t)
polaris_ncd_etc_read(polaris_ufs_helper_t)

# stat over /tmp/ufs/crashinfo/10.1.1.1
polaris_disk_crashinfo_getattr(polaris_ufs_helper_t)

# unifiedfs_helper.sh creates /tmp/unifiedfs and manages underlying dirs
type polaris_ufs_tmp_t;
files_tmp_file(polaris_ufs_tmp_t)
files_tmp_filetrans(polaris_ufs_helper_t, polaris_ufs_tmp_t, { file dir })
manage_dirs_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_lnk_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

# Required for /tmp/unifiedfs access on vWLC
ifdef(`vwlc_platform',
files_tmp_filetrans(unconfined_service_t, polaris_ufs_tmp_t, dir, "unifiedfs")
')

polaris_ncd_rpcinfo_net(polaris_ufs_helper_t)
polaris_persistent_getattr(polaris_ufs_helper_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_ufs_helper_t)

# ncd.sh read,search,open, creates, add_name and writes to /proc/hanet/tun_local_ip
gen_require(

type polaris_hanet_proc_t;
type proc_t;
')
manage_files_pattern(polaris_ncd_t, polaris_hanet_proc_t, polaris_hanet_proc_t)
allow polaris_hanet_proc_t proc_t:filesystem associate;
allow polaris_ufs_helper_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.te
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2018, Manohar Hungund
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 5)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(\"cc\", \"per_bay\", 6)
max_bay_ripc_map_set(\"fp\", \"per_bay\", 1)

min_bay_ripc_map_set(\"rp\", \"global\", 0)
min_bay_ripc_map_set(\"cc\", \"global\", 1)
min_bay_ripc_map_set(\"fp\", \"global\", 0)

max_bay_ripc_map_set(\"rp\", \"global\", 2)
max_bay_ripc_map_set(\"cc\", \"global\", 6)
max_bay_ripc_map_set(\"fp\", \"global\", 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(\"rp\", \"elastic\", BPROC_ODM, 0)
max_elastic_map_set(\"cc\", \"elastic\", BPROC_ODM, 0)
max_elastic_map_set(\"fp\", \"elastic\", BPROC_ODM, 0)

max_elastic_map_set(\"rp\", \"elastic\", BPROC_WNCD, 0)
max_elastic_map_set(\"cc\", \"elastic\", BPROC_WNCD, 0)
max_elastic_map_set(\"fp\", \"elastic\", BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/starfleetmaps.m4

No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

# Map BBU TTY to correct device context
/dev/ttyS2 -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.fc

No license file was found, but licenses were detected in source scan.

#
# February 2018, Manohar Hungund
#
# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>

################################################################
# ACT2 Chip Driver policy

## <summary>
## Work (read, write, ioctl) with /dev/act2
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

```c
interface(`polaris_act2_dev_use',``
gen_require(`
    type device_t;
type polaris_act2_device_t;
')
    read_chr_files_pattern($1, device_t, polaris_act2_device_t)
    write_chr_files_pattern($1, device_t, polaris_act2_device_t)
')

## <summary>
## Create /tmp/hw_entropy file. Certain platforms save
## entropy from main board ACT-2 chip in this file.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

```c
interface(`polaris_hw_entropy_create',``
gen_require(`
    type polaris_hw_entropy_t;
type tmp_t;
')
    files_tmp_filetrans($1, polaris_hw_entropy_t, file, "hw_entropy")
    manage_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

## <summary>
## Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode,
## not clear why it couldn't just read it.
## Certain platforms save entropy from main board ACT-2 chip in this file.
## </summary>

```c

### <summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_hw_entropy_use',
    gen_require(''
        type polaris_hw_entropy_t;
        type tmp_t;
    ')
)

    rw_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

******************************************************************************
### <summary>
###   Read /tmp/hw_entropy file.
###   Certain platforms save entropy from main board ACT-2 chip in this file.
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_hw_entropy_read',
    gen_require(''
        type polaris_hw_entropy_t;
    ')
)

    read_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.if
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisdmindbmand, 1.0);
gen_require(
    type polaris_dmi_ndbmand_t;
)

polaris_btrace_data_manage(polaris_dmi_ndbmand_t)
polaris_crft_data_manage(polaris_dmi_ndbmand_t)
polaris_chasfs_manage(polaris_dmi_ndbmand_t)
polaris_tdlresolve_read(polaris_dmi_ndbmand_t)
polaris_tdlldb_list_dirs(polaris_dmi_ndbmand_t)
polaris_cpld_read(polaris_dmi_ndbmand_t)
polaris_flashlib_read(polaris_dmi_ndbmand_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_ndbmand_t)
polaris_db_tdlldb_dir_use(polaris_dmi_ndbmand_t)

# work with NDBLOAD_LOCK_PATH
    type polaris_dmi_ndbutil_lock_t;
    files_tmp_file(polaris_dmi_ndbutil_lock_t)
polaris_ndbload_lock_use(polaris_dmi_ndbmand_t)

optional_policy(
    # deals with /dev/shm/confd setup (schema and pid)
    polaris_confd_shm_setup(polaris_dmi_ndbmand_t)
    # and allow read shared schema
    polaris_confd_shared_schema_read(polaris_dmi_ndbmand_t)
    # read /proc/confd_pid/exe file
    polaris_confd_read(polaris_dmi_ndbmand_t)
)

allow polaris_dmi_ndbmand_t self:capability { dac_overwrite dac_read_search sys_resource };

logging_send_syslog_msg(polaris_dmi_ndbmand_t)

# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_dmi_ndbmand_t)
polaris_ndbutil_lock_template(polaris_dmi_ndbmand_t, ndbmand, ".l.schema_use.ndbmand")
polaris_confd_shared_schema_watch(polaris_dmi_ndbmand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
policy_module(polarisomp, 1.0);

gen_require(`
    type polaris_omp_t;
`)
polaris_chasfs_manage(polaris_omp_t)
polaris_cpld_read(polaris_omp_t)
polaris_flashlib_read(polaris_omp_t)
polaris_tdlresolve_read(polaris_omp_t)
polaris_ripc_sman_ui_serv_connect(polaris_omp_t)
polaris_db_tdlmdb_dir_use(polaris_omp_t)
logging_send_syslog_msg(polaris_omp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_omp_t)

# omp_daemon_init calls posix_sysconf
dev_read_sysfs(polaris_omp_t)

# reads /sys/fs/cgroup/cpuacct/cpuacct_stats
fs_read_cgroup_files(polaris_omp_t)

# vip_util_set_fd_limits set files limits
allow polaris_omp_t self:process setrlimit;

# omp connects to omp listener tcp port 17900
coreneth_tcp_connect_polaris_omp_port(polaris_omp_t)
# vip_util_reset_ns opens /proc/1/ns/net
polaris_cedge_reset_ns(polaris_omp_t)
# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_omp_t)

#omp_peer_active_connect() binds to OMP address
coreneth_tcp_bind_generic_node(polaris_omp_t)
allow polaris_omp_t self:tcp_socket { bind connect create getopt setopt };

# omp starts worker thread under CPU affinity
allow polaris_omp_t self:process setsched;

# connects to ttm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)
# connects to ftm unix domain socket in msgq_connect_timer
polaris_ftm_var_sock_write(polaris_omp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.te

No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris htx Policy Rules.</summary>

#################################################################
## <summary>
##      Manage polaris_htx_iox_tmp_t in /tmp/HTX-IOX.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_htx_iox_tmp_manage',`
  gen_require(`
    type polaris_htx_iox_tmp_t;

  ')
  manage_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
  manage_sock_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
  manage_dirs_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)

  allow $1 polaris_htx_iox_tmp_t:dir watch;

  allow $1 polaris_htx_iox_tmp_t:file map;
')

#################################################################
## <summary>
##	Send messages to htx unix datagram sockets.
##	<summary>
##	Domain allowed access.
##</summary>
##</summary>
##</param>
# interface('polaris_hfx_dgram_send',
gen_require(
    type polaris_hfx_t;
')

allow $1 polaris_hfx_t:unix_dgram_socket sendto;
')

###################################################################
## <summary>
## Work (read, write, ioctl) with /dev/sppi_memif device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <//param>
#
# interface('polaris_sppi_memif_dev_use',
gen_require(
    type device_t;
    type polaris_sppi_memif_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
    read_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
')

###################################################################
## <summary>
## Work with /tmp/HTX-IOX/.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <//param>
#
# interface('polaris_hfx_use_client_socket',
gen_require(
    type polaris_hfx_t;
')
    allow $1 polaris_hfx_t:unix_stream_socket connectto;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.if
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisesgtamcfg, 1.0);

gen_require(`
  type polaris_esg_tam_cfg_t;
')

polaris_btrace_data_manage(polaris_esg_tam_cfg_t)
polaris_chasfs_manage(polaris_esg_tam_cfg_t)
polaris_tdresolve_read(polaris_esg_tam_cfg_t)
polaris_tdlldb_list_dirs(polaris_esg_tam_cfg_t)
polaris_flashlib_read(polaris_esg_tam_cfg_t)

polaris_cpld_read(polaris_esg_tam_cfg_t)
allow polaris_esg_tam_cfg_t self:capability net_admin;

# handle /tmp/tam_cfg_done
type polaris_tam_tmp_t;
files_tmp_file(polaris_tam_tmp_t)
files_tmp_filetrans(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, dir, "tam_cfg_done")
manage_files_pattern(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, polaris_tam_tmp_t)
gen_require(`
  type tmp_t;
')
manage_dirs_pattern(polaris_esg_tam_cfg_t, tmp_t, polaris_tam_tmp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisfmanfp, 1.0);

gen_require(`
type polaris_fman_fp_t;
')

polaris_btrace_data_manage(polaris_fman_fp_t)
polaris_crtf_data_manage(polaris_fman_fp_t)
polaris_chasfs_manage(polaris_fman_fp_t)
polaris_tdlresolve_read(polaris_fman_fp_t)
polaris_tdlldb_list_dirs(polaris_fman_fp_t)
polaris_cpld_read(polaris_fman_fp_t)
polaris_lua_read(polaris_fman_fp_t)
polaris_flashlib_read(polaris_fman_fp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_fp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_fp_t)

# mqipc manual, one that missing in platform tdl file

# mq.-iosd-thr-fmanrp-R0:0
# mq.-iosd-thr-fmanrp-1:R0:0
type polaris_iosd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_thr_fmanrp_mqipc_t)

# mq.-mobilityd-thr-fmanrp-1:R0:0
type polaris_mobilityd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_mobilityd_thr_fmanrp_mqipc_t)

# mq.-smd-thr-fmanrp-1:R0:0
type polaris_smd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_smd_thr_fmanrp_mqipc_t)

# mq.-wncd_0-thr-fmanrp-1:R0:0
type polaris_wncd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncd_thr_fmanrp_mqipc_t)

# mq.-wncmgrd_0-thr-fmanrp-1:R0:0
type polaris_wncmgrd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncmgrd_thr_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-
  R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-
  R1:0)

optional_policy(
  polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-
  R1:0)
)
polaris_cpld_dev_use(polaris_fman_fp_t)
# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_fp_t)
polaris_cpp_tmp_files_use(polaris_fman_fp_t)

optional_policy(
polaris_cpp_dev_use(polaris_fman_fp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_fman_fp_t)
')
polaris_persistent_manage(polaris_fman_fp_t)
polaris_icc_broken_relocations(polaris_fman_fp_t)

allow polaris_fman_fp_t self:capability dac_override;
allow polaris_fman_fp_t self:capability2 block_suspend;

# when /bootflash or /harddisk are 100% full
allow polaris_fman_fp_t self:capability sys_resource;

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_fman_fp_t)
kernle_write_proc_files(polaris_fman_fp_t)

ifdef(`mcp_family',`
polaris_cm_fp_tmp_filetrans(polaris_fman_fp_t)
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
polaris_dev_mem_use(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCVh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_fman_fp_t)
')
polaris_dyncfg_tmp_read(polaris_fman_fp_t)

# /dev/qae_mem device access on overlord
optional_policy(`
polaris_qae_dev_use(polaris_fman_fp_t)
')

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy('  
  polaris_icp_dev_use(polaris_fman_fp_t) 
')

# on qwlc work with /tmp/octeon-remote-lock-pci:0
ifdef(`qwlc_platform',`
  polaris_cm_fp_tmp_manage(polaris_fman_fp_t) 
')

ifdef(`katar_platform',`
  polaris_cm_fp_tmp_manage(polaris_fman_fp_t) 
')

optional_policy('  
# fman-fp creates tmp files in acl-mgmt workflow.
  polaris_fman_acl_iptbl_tmp_file(polaris_fman_fp_t) 
')

polaris_iosd_vcpu_read(polaris_fman_fp_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_fman_fp_t)
fs_search_cgroup_dirs(polaris_fman_fp_t)

optional_policy('  
# Access /dev/cbdma
  polaris_cbdma_dev_use(polaris_fman_fp_t) 
')

    # Access /dev/n2_device
  polaris_n2_dev_use(polaris_fman_fp_t) 
')
  polaris_cpp_tmpfs_manage(polaris_fman_fp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.te
No license file was found, but licenses were detected in source scan.

#  
# August 2017, Shawn Lu
#  
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#  
#
#
## <summary>Polaris wncmgrd Policy Rules.</summary>

#  
#  
## <summary>Polaris wncmgrd Policy Rules.</summary>

#  
#  
## <summary>Polaris wncmgrd Policy Rules.</summary>
## Read access to /bootflash/NACert.pem

```
interface('polaris_read_icap_cert_file',
    gen_require('type polaris_icap_cert_t;
    )
    allow $1 polaris_icap_cert_t:file read_file_perms;
    ')
```

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polariskeyman file contexts place holder

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polarisnvram file contexts place holder

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

# /3pa staff
/3pa/usr/(.*)?lib64(\.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?lib(\.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib64(\.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib(\.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?bin/(\.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/usr/(.*)?bin/(\.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/3pa/usr/lib/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/3pa/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/3pa/usr/sbin/virtlogd -- gen_context(system_u:object_r:virtlogd_exec_t,s0)
/3pa/usr/bin/virsh -- gen_context(system_u:object_r:virsh_exec_t,s0)
/3pa/usr/bin/qemu.* -- gen_context(system_u:object_r:qemu_exec_t,s0)
/usr/binos/conf/libvirtd.sh -- gen_context(system_u:object_r:virtd_initrc_exec_t,s0)
/3pa/etc/libvirt/(\.*)? -- gen_context(system_u:object_r:virt_etc_t,s0)
/3pa/etc/logrotate.d/(\.*)? -- gen_context(system_u:object_r:etc_t,s0)

# should go into contrib/telnet.fc?
/usr/binos/sbin/in.telnetd -- gen_context(system_u:object_r:telnetd_exec_t,s0)

# load_crash_kernel.sh loads crash kernel - it should be executable
/crashkernel/load_crash_kernel.sh -- gen_context(system_u:object_r:bin_t,s0)

# /etc/lablogin.sh is executed during telnet login over management port
# it should be executable. Also having shell_exec_t label will allow it
# to transition into unconfined domain
/etc/lablogin.sh -- gen_context(system_u:object_r:shell_exec_t,s0)

# /etc/init.d/*functions files should be actually in bin_t domain, the same
# as /etc/init.d/functions. Note using /etc/rc\d/init.d/ instead of
# /etc/init.d/ because we have substitution rule in file_contexts.subs_dist
/etc/rc\d/init.d/binos_functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc\d/init.d/binos_functions-pd -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc\d/init.d/chasxml_functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc\d/init.d/common-utility-functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc\d/init.d/rh-functions -- gen_context(system_u:object_r:bin_t,s0)

# tftp directories
/tftp/dgen_context(system_u:object_r:tftpdir_rw_t,s0)
/tftp/*gen_context(system_u:object_r:tftpdir_rw_t,s0)

# /tmp/sw
/tmp/sw -d gen_context(system_u:object_r:tmp_t,s0)
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22734

# /tmp/etc
/tmp/etc -d gen_context(system_u:object_r:polaris/etc_t,s0)

# /tmp/sv
/tmp/sv -d gen_context(system_u:object_r:polaris/sv_tmp_t,s0)

# firmware files
/firmware(/.*)?     gen_context(system_u:object_r:polaris_firmware_t,s0)
/upgrade(/.*)?      gen_context(system_u:object_r:polaris_firmware_t,s0)
/golden(/.*)?       gen_context(system_u:object_r:polaris_firmware_t,s0)
# CC card fpd files mark it as usr_t for now
/fpd(/.*)?         -- gen_context(system_u:object_r:polaris_firmware_t,s0)

/tmp/debug.conf -l gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/var/ODM/ios_core.p7b -- gen_context(system_u:object_r:etc_t,s0)
/dev/ddr -c gen_context(system_u:object_r:polaris_ddr_device_t,s0)
/dev/i2c-[0-9]* -c gen_context(system_u:object_r:polaris_i2c_device_t,s0)

/.*(\.*).ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/bin/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/sbin/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib64/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/bin/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/sbin/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib64/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/sbin/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib64/(.*)\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/(.*)?\?.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)

# interpreter for CRDL 32bit IOSD setup proper memory map
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld_so_t,s0)

# firmware package mount point on asr1k platforms
/mnt/firmware(/.*)?         gen_context(system_u:object_r:polaris_firmware_t,s0)

/bootflash/.USWAP(/.*)?     gen_context(system_u:object_r:polaris_uswap_files_t,s0)
# Nutella EFI folder

```
/bootflash/EFI(.*?)?     gen_context(system_u:object_r:polaris_efi_files_t,s0)
```

# for cat9k platform

```
/mnt/sd3/user/.USWAP(.*?)?  gen_context(system_u:object_r:polaris_uswap_files_t,s0)
```

```
/tmp/rsync_log_dir(.*?)?  gen_context(system_u:object_r:polaris_rsync_tmp_t,s0)
```

# for wlc awips feature

```
/bootflash/awips.json     gen_context(system_u:object_r:polaris_awips_signature_file_t,s0)
```

# for wlc iot-gw feature to access /bootflash/certs dir

```
/bootflash/certs -d     gen_context(system_u:object_r:polaris_ap_cert_file_t,s0)
```

# for curl - and allowing ip netns exec X curl

```
/usr/bin/curl -- gen_context(system_u:object_r:polaris_curl_exec_t,s0)
```

# Katar WLC needs access to /tmp/ldwm_envelope

```
/tmp/ldwm_envelope -- gen_context(system_u:object_r:polaris_ldwm_envelope_tmp_t,s0)
```

# CLI: show platform software tech-support

```
/usr/bin/os/conf/platform_tech_support.sh -- gen_context(system_u:object_r:polaris_tech_support_exec_t,s0)
```

# Tamlib debug file

```
/booflash/tamlib_dbg_log -- gen_context(system_u:object_r:polaris_tamlib_dbg_file_t,s0)
```

# crypsetup - some platforms copy crypsetup in /bin

```
/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)
```

```
/usr/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)
```

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.fc

No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved

dnl
define(`polaris_process', `')dnl

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_if.m4

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisiptbl, 1.0);

# # iptbl.sh manual

polaris_process_domain_template(iptbl)

corecmd_exec_bin(polaris_iptbl_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_iptbl_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iptbl_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_iptbl_t)

# work with /tmp files

type polaris_iptbl_tmp_t;
files_tmp_file(polaris_iptbl_tmp_t)
manage_dirs_pattern(polaris_iptbl_t, tmp_t, polaris_iptbl_tmp_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
manage_fifo_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
files_tmp_filetrans(polaris_iptbl_t, polaris_iptbl_tmp_t, { file dir })

allow polaris_iptbl_t self:capability sys_resource;
allow polaris_iptbl_t self:process setpgid;

polaris_btrace_data_manage(polaris_iptbl_t)
polaris_cpld_read(polaris_iptbl_t)
polaris_chasfs_manage(polaris_iptbl_t)
polaris_boot_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_tmp_read(polaris_iptbl_t)
polaris_proc_rmonbifo_getattr(polaris_iptbl_t)
polaris_proc_rmonbifo_read(polaris_iptbl_t)
polaris_disk_crashinfo_getattr(polaris_iptbl_t)

# execute /etc/init.d/iptables in its own domain
iptables_initrc_domtrans(polaris_iptbl_t)
# LOOK AT ME iptbl.sh puts symbolic links into /sbin directory
# need to fix manifest instead, so it will be static
gen_require('  
    type bin_t;
')
manage_lnk_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_insmod(polaris_iptbl_t)
iptables_domtrans(polaris_iptbl_t)

# iptbl.sh calls /etc/init.d/iptables restart and that needs
# read /proc/pid/net/ip_tables_names file
kernel_read_network_state(polaris_iptbl_t)
# creates /var/lock/subsys/iptables
type polaris_iptables_lock_t;
files_lock_file(polaris_iptables_lock_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptables_lock_t, polaris_iptables_lock_t)
files_lock_filetrans(polaris_iptbl_t, polaris_iptables_lock_t, file)

# needs access to /run/ntns as part of chvrf invocation
fs_read_netns_files(polaris_iptbl_t)
# iptbl.sh invokes iptable command which runs in iptables_t label and needs
# access to meta files created by iptbl.sh with label polaris_iptbl_tmp_t
allow iptables_t polaris_iptbl_tmp_t:fifo_file read_file_perms;
allow iptables_t polaris_iptbl_tmp_t:file read_file_perms;

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
  
  optional_policy('  
    polaris_ncd_tmp_read(polaris_iptbl_t)
  ')
')
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky # # Copyright (c) 2016-2019 by Cisco Systems, Inc. # All rights reserved #

/usr/bin/bhytoolsd -- gen_context(system_u:object_r:polaris_bhytoolsd_exec_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisautoupgrade, 1.0);

gen_require(
    type polaris_autoupgrade_t;
'
)
corecmd_exec_bin(polaris_autoupgrade_t)
corecmd_exec_shell(polaris_autoupgrade_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_autoupgrade_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_autoupgrade_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_autoupgrade_t)

allow polaris_autoupgrade_t self:capability { sys_resource dac_override };
allow polaris_autoupgrade_t self:process setpgid;

polaris_tdldb_list_dirs(polaris_autoupgrade_t)
polaris_btrace_data_manage(polaris_autoupgrade_t)
polaris_chasfs_manage(polaris_autoupgrade_t)
polaris_cpld_read(polaris_autoupgrade_t)
polaris_proc_rmonbifo_read(polaris_autoupgrade_t)
polaris_rmonbifo_tmp_read(polaris_autoupgrade_t)
polaris_boot_tmp_manage(polaris_autoupgrade_t)
polaris_read_debug_conf(polaris_autoupgrade_t)
polaris_disk_crashinfo_getattr(polaris_autoupgrade_t)

type polaris_autoupgrade_tmp_t;
files_tmp_file(polaris_autoupgrade_tmp_t)

# /tmp/etc/installer
gen_require(
    type polaris_etc_t;
')
filetrans_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t, dir, "installer")
manage_fifo_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t)
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)

# Allow access to bootflash
polaris_bootflash_read(polaris_autoupgrade_t)

# Allow access to packages.conf
polaris_read_packages_conf(polaris_autoupgrade_t)

# needs to run pidof
dev_read_sysfs(polaris_autoupgrade_t)
kernle_read_system_state(polaris_autoupgrade_t)
domain_read_all_domains_state(polaris_autoupgrade_t)

# send syslog
logging_send_syslog_msg(polaris_autoupgrade_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_autoupgrade_t)
gen_require('"
   type rsync_t;
"
allow rsync_t polaris_autoupgrade_t:process sigchld;

# /tmp/ufs/crashinfo access
optional_policy('"polaris_ncd_tmp_read(polaris_autoupgrade_t)
"

# autoupgrade script in case of HA setup invokes brelay to trigger install of stand-by
polaris_bexecute_domtrans(polaris_autoupgrade_t)

polaris_flashlib_lock(polaris_autoupgrade_t)
polaris_flashlib_read(polaris_autoupgrade_t)
polaris_disk_install_read(polaris_autoupgrade_t)
polaris_install_engine_domtrans(polaris_autoupgrade_t)

#add transition to create /var/installer by autoupgrade
type polaris_autoupgrade_var_t;
files_tmp_file(polaris_autoupgrade_var_t)
files_var_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_var_t, {file dir})
gen_require('"
   type polaris_autoupgrade_exec_t;
"

#add transition to create /var/installer/auto_upgrade_helper.sh by autoupgrade
filetrans_pattern(polaris_autoupgrade_t,polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file,
"auto_upgrade_helper.sh"

manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)

#add transition to create files/dir in /tmp
files_tmp_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, {file dir})

# access to /tmp/installer
polaris_install_tmp_manage(polaris_autoupgrade_t)

fs_getattr_tmpfs(polaris_autoupgrade_t)

# access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_autoupgrade_t)

# access to /harddisk link (accessed by flashutil and rotee call)
polaris_disk_harddisk_read_lnk(polaris_autoupgrade_t)

rsync_entry_domtrans(polaris_chvrf_t, rsync_t)

gen_require(
    type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
')
rsync_entry_domtrans(polaris_autoupgrade_t, rsync_t)
polaris_bexecute_domain(polaris_autoupgrade_t, polaris_autoupgrade_exec_t)

fs_getattr_xattr_fs(polaris_autoupgrade_t)

# auto_upgrade_helper.sh creates /var/installer/auto_upgrade_helper.sh
allow polaris_autoupgrade_t polaris_autoupgrade_exec_t:file { create setattr write };

# rsync operations for members and standby rps on autoupgrade
gen_require(''
    type rsync_port_t;
')
allow polaris_autoupgrade_t rsync_port_t:tcp_socket name_connect;

# rsync requires to relabel /var/installer/auto_upgrade_helper.sh on standby
gen_require(''
    type var_t;
')
allow rsync_t var_t:file relabelfrom;
allow rsync_t polaris_autoupgrade_exec_t:file relabelto;

# access to /vol/harddisk/*.pkg
polaris_getattr_file_harddisk(polaris_autoupgrade_t)
# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_autoupgrade_t)

polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# auto_upgrade_client.sh access to "/tmp/sw/rp/0/0/rp_base/mount/bin/cut"
polaris_issu_tmp_files_read(polaris_autoupgrade_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
/usr/bin/os/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/usr/bin/os/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)

ifdef(`nyquist_platform',`
/usr/bin/os/conf/standby_ioxcfg.sh -- gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
/mnt/sd3/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/guest_share(/.*)?
    gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
')

ifdef(`passport_platform',`
/flash1/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/guest_share(/.*)?
    gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
/usr/bin/os/conf/standby_ioxcfg.sh gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
#/tmp/app_host(\*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
')

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir (iox_polaris.conf)
/bootflash/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir(\*)?
/gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir/iox(\*)?
/gen_context(system_u:object_r:polaris_iox_files_t,s0)

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir/caf(\*)?
/gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir/iox_data_share(\*)?
/gen_context(system_u:object_r:polaris_iox_files_t,s0)

# All possible accesses from /bootflash/iox_host_data_share(\*)?
/gen_context(system_u:object_r:polaris_iox_files_t,s0)

# All the possible IOX guestshell_dir from iox_polaris.conf
/guestshell/(\*)?\(\*)\(\*)\.sh gen_context(system_u:object_r:polaris_guestshell_exec_t,s0)
/guestshell/(\*)? gen_context(system_u:object_r:polaris_guestshell_t,s0)

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf
/bootflash/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)

/bootflash/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)

/bootflash/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox_host_data_share(\*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)

/opt/cisco/caf/scripts/(\*)?\(\*)\(\*)\.sh gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/opt/cisco/caf/(\*)?\(\*) gen_context(system_u:object_r:polaris_caf_files_t,s0)
/opt/cisco/caf -d gen_context(system_u:object_r:polaris_caf_files_t,s0)
# All the possible IOX bootflash/guest-share directory. This directory is shared between IOS and IOX

```
# December 2019, Victor Kamensky
#
# Copyright (c) 2019 by Cisco Systems, Inc.
# All rights reserved
#
# polarisfnfagg file contexts place holder
```

No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisplogd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl divert(-1)

include('polaris_process.m4')
include('polaris_process_if.m4')

include('polaris_ipc_mqipc.m4')
include('polaris_ipc_mqipc_if.m4')

include('polaris_ipc_ripc.m4')
include('polaris_ipc_ripc_if.m4')

include('polaris_ipc_lipc.m4')
include('polaris_ipc_lipc_if.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server',"")
define('polaris_cipc_service_server','")
include('polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform IPC Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_if.m4
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/.ndbutil-loadgen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
/tmp/.ndbutil-use gen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
/dev/cpp_vxe_rsrc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_dev_info -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_kipc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
# on lng box
/dev/octeon_device -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_pdma -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/i95_[0-9]* -c gen_context(system_u:object_r:polaris_i95_device_t,s0)
/dev/shm/cpp_* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem\cpp_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem\CPP_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem\CGM_SHM_SEM -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
policy_module(polarisservicemgr, 1.0);

gen_require(
    type polaris_service_mgr_t;
')

polaris_btrace_data_manage(polaris_service_mgr_t)
polaris_crft_data_manage(polaris_service_mgr_t)
polaris_chasfs_manage(polaris_service_mgr_t)
polaris_cpld_read(polaris_service_mgr_t)
polaris_flashlib_read(polaris_service_mgr_t)
polaris_lua_read(polaris_service_mgr_t)
polaris_tdlresolve_read(polaris_service_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_service_mgr_t)
polaris_db_tdlldb_dir_use(polaris_service_mgr_t)

# Use REPM MQIPC for replication
polaris_repm_peer_mqipc_manage(polaris_service_mgr_t)

#watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_service_mgr_t)

No license file was found, but licenses were detected in source scan.
policy_module(polarispvp, 1.0);

polaris_process_domain_template(pvp)

# transition to pman domain, once pman is invoked by pvp
polaris_pman_domtrans(polaris_pvp_t)

corecmd_exec_bin(polaris_pvp_t)
corecmd_exec_shell(polaris_pvp_t)
# can execute hostname in pvp domain
hostname_exec(polaris_pvp_t)
# can execute process in polaris domain
polaris_exec(polaris_pvp_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pvp_t)

# allow to get getattr of /proc file system during find over it
kernel_getattr_proc(polaris_pvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pvp_t)

# all to read sysctl files in /proc directory
kernel_read_all_sysctls(polaris_pvp_t)

# work with /tmp files
type polaris_pvp_tmp_t;
files_tmp_file(polaris_pvp_tmp_t)
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
files_tmp_filetrans(polaris_pvp_t, polaris_pvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, dir, "pvp")

# /tmp/silent_roll_select.log handling on Macallan
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, file, "silent_roll_select.log")
# work with /tmp/[rp|fp|cc]/pvp/process_state files

type polaris_process_state_t;
files_tmp_file(polaris_process_state_t)
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t, dir, "process_state")

# LOOK AT ME now all polaris process can change each other process
# state. Need to fix it with more process specific labels in case
# when polaris_domain_process becomes template.
gen_require(
    attribute polaris_domain;
)  
polaris_pvp_manage_process_state_files(polaris_domain)

allow polaris_pvp_t self:capability sys_resource;

# readlink access to /proc/<pid>/fd/0 triggers sys_ptrace capability need
allow polaris_pvp_t self:capability { sys_ptrace };

dmidecode_domtrans(polaris_pvp_t)

# on some ngwc pvp has to code-sign-verify silent roll packages
ifdef(`ngwc_family',`
polaris_code_verify_domtrans(polaris_pvp_t)
')

polaris_btrace_data_manage_all(polaris_pvp_t)
polaris_chasfs_manage(polaris_pvp_t)
polaris_cpld_read(polaris_pvp_t)
polaris_cpld_write(polaris_pvp_t)
polaris_proc_rmonbifo_read(polaris_pvp_t)
polaris_rmonbifo_tmp_read(polaris_pvp_t)
polaris_tlddb_list_dirs(polaris_pvp_t)
polaris_boot_tmp_read(polaris_pvp_t)
polaris_read_debug_conf(polaris_pvp_t)

# LOOK AT ME pvp.sh runs find over /proc. Needs access
# to state of all processes
domain_read_all_domains_state(polaris_pvp_t)

# pvp.sh can call logger command
logging_send_syslog_msg(polaris_pvp_t)

# should it not be moved to dmidecode module or better
# change script to call dmidecode with stdin redirected
# from /dev/null (i.e dmidecode < /dev/null)
gen_require(“
type dmidecode_t;
')
polaris_pvp_stdio_read(dmidecode_t)

# read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# allow polaris_pvp_t polaris_udev_tmp_files t:dir { get attr search };
polaris_udev_tmp_list_dirs(polaris_pvp_t)

gen_require(')
  type initrc_t;
  type init_t;
')
#init_script_tmp_filetrans(initrc_t, polaris_pvp_tmp_t, file, "iosd_memory_share")
files_tmp_filetrans( { initrc_t init_t }, polaris_pvp_tmp_t, file, "iosd_memory_share")
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pvp_tmp_t, dir, "max_elastic_bays")

# direct access to serial TTY devices like /dev/ttyS1
term_write_unallocated_ttys(polaris_pvp_t)

# For Cabo, allow access to GNSS device
ifdef(`cabo_platform',`
polaris_cabo_gnss_dev_use(polaris_pvp_t)
')

# on ultra pvp calls hv_ttyprobe utility to figure out what terminal
# to use as console, and this one need read access to terminal. There is
# no separate macro for read only. But since we granting write to everyone
# let use 'use' which means read/write
ifdef(`vxe_family',`
term_use_unallocated_ttys(polaris_pvp_t)
')
ifdef(`wlc_family',`
term_use_unallocated_ttys(polaris_pvp_t)
')
# pvp's linux_iosd_image_env.sh will check /dev/ttyUSB* ports with hv_ttyprobe too.
term_use_usb_ttys(polaris_pvp_t)

# allow access and modify files in /tftp directory, cannot use tftp_manage_rw_content
# since it does not cover link files
gen_require(')
  type tftpdir_rw_t;
')
manage_dirs_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_lnk_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
# ASR1K modular platforms create /tftp/inv/inventory_$fru_$slot.bin
# /tftp/inv is not a softlink but a directory for asr1k Modular platforms.
# So it needs a file transition to polaris_chasfs_t for accessing it.
ifdef(`mcp_family',
  filetrans_pattern(domain, tftpdir_rw_t, polaris_chasfs_t, dir, "inv")
')
# on ultra platform hv_ttyprobe utility that runs under polaris_pvp_t label
# checks for existence of /boot/ttyS0_ignore file; and since /boot is symlink
# to /varied it need dir search permission over polaris_disk_varied_t
ifdef(`vxe_family',
  polaris_disk_varied_search(polaris_pvp_t)
')
ifdef(`wlc_family',
  polaris_disk_varied_search(polaris_pvp_t)
')

# pvp.sh calls cp utility with -a option that should preserve files
# attributes as result cp needs to perform set_process_security_ctx call
# which in turns calls setfscreatecon
allow polaris_pvp_t self:process setfscreate;

# pvp.sh calls pidof utility and it needs read access to sysfs_t
#
# When resetting a partner, pvp writes to the PCIe switch global
# reset register using the i2c driver, which is also sysfs_t
# LOOK AT ME should we create a new type for the PCIe switch reg
dev_rw_sysfs(polaris_pvp_t)

# wants to execute /bin/dmesg
dmesg_domtrans(polaris_pvp_t)

# wants to read from /tmp/rp/pvp/work/inot_fifo
gen_require(`
  type dmesg_t;
')
rw_fifo_files_pattern(dmesg_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)

# wants to write into /bootflash/.prst_sync
polaris_persistent_manage(polaris_pvp_t)

# pvp tried to find all except hman polaris process with
# `find /tmp/rp/process -name *.pid ! -name *hman* -printf %p` command
# should be able to read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# on way down pvp.sh call 'workon.sh rp 0 rotate force' so we
# need to transition and run it in btrace_rotate domain
polaris_btrace_rotate_domtrans(polaris_pvp_t)

# on way down pvp.sh checks for *.TEMP_IN_PROGRESS in /misc/scratch/core
# need to be able read /misc/scratch link
polaris_disk_bootflash_read_lnk(polaris_pvp_t)

# implode.sh things, should we run them in its own domain?

# removes /etc/exports, create a new empty one and runs 'exportfs -u'
# this action also needs kernel_rw_rpc_sysctls to flush
files_manage/etc/files(polaris_pvp_t)
gen_require(''
    type exports_t;
')
allow polaris_pvp_t exports_t:file delete_file_perms;
rpc_write_exports(polaris_pvp_t)
rpc_manage_nfs_state_data(polaris_pvp_t)
kernel_rw_rpc_sysctls(polaris_pvp_t)

# calls `systemctl reboot`
systemd_start_power_services(polaris_pvp_t)

# pvp on 1ng attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_pvp_t)
allow polaris_pvp_t self:capability dac_override;

# in some image pvp needs to monut /tmp/rp/tlddb, in other images
# it got mount by chasfs_boottime.sh systemd unit
polaris_tlddb_manage_dirs(polaris_pvp_t)
mount_domtrans(polaris_pvp_t)

# in some cases pvp script creates /tmp/xx/process directory
polaris_pman_tmp_filetrans(polaris_pvp_t, dir, "process")
polaris_pman_manage_tmp_files(polaris_pvp_t)

# on ngwc pvp creates /flash1/NVRAM directory
gen_require(''
    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "flash1")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)

# obtain access to rommon vars which live in flashlib
polaris_flashlib_read(polaris_pvp_t)
polaris_flashlib_write(polaris_pvp_t)

# on ngwc platforms pvp creates a /obfl_cc directory and soft links it
# to the vbd device
ifdef(`ngwc_family',``
gen_require(`
    type polaris_obfl_data_t;
    type root_t;
`)
filetrans_pattern(polaris_pvp_t, root_t, polaris_obfl_data_t, dir, "obfl_cc")
``)

# on ngwc platforms pvp needs to be able to determine if the vbd devices
# exist. The types may be slightly different depending on whether the cc's
# device node is managed by udev or not
ifdef(`ngwc_family',`
    dev_getattr_generic_blk_files(polaris_pvp_t)
    storage_getattr_fixed_disk_dev(polaris_pvp_t)
    udev_read_db(polaris_pvp_t)
`)

# on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
# to the correct silent roll software package via vbd_sr_app_init()
ifdef(`ngwc_family',`
polaris_sw_data_manage(polaris_pvp_t)
``)

# on blackheart pvp creates /blackheart_config directory
ifdef(`blackheart_platform',``
gen_require(`
    type polaris_nvram_file_t;
    type root_t;
`)
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "blackheart_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
``)

# on sparrow pvp creates /sparrow_config directory
ifdef(`sparrow_platform',``
gen_require(`
    type polaris_nvram_file_t;
    type root_t;
`)
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "sparrow_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
``)

# on Aventus pvp creates /aventus_config directory
ifdef(`aventus_platform',``

gen_require(
    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
fs_manage_configfs_files(polaris_pvp_t)
')

# on utah for cc and on ng cyan_init.sh is executed by pvp
polaris_dyncfg_domtrans(polaris_pvp_t)
# should it not be moved to cyan module or better
# change script to call cyan_init.sh with stdin redirected
# from /dev/null (i.e cyan_init.sh < /dev/null)
gen_require(
    type polaris_dyncfg_t;
')
polaris_pvp_stdin_read(polaris_dyncfg_t)

# mktmpfd checks /tmp file system attributes
fs_getattr_tmpfs(polaris_pvp_t)

optional_policy(
    # pvp on nyquist ls /tmp/ufs/crashinfo
    polaris_ncd_tmp_read(polaris_pvp_t)
')

# transition to polaris_load_usbnet_t, once load_usbnet.sh is invoked by pvp
# crankshaft platforms need access to configfs
ifdef(`crankshaft_family',
    polaris_load_usbnet_domtrans(polaris_pvp_t)
gen_require(
    type configfs_t;
')
allow polaris_pvp_t configfs_t:dir getattr;
')

# runs rsync -ptgoDLq /bootflash/.installer/issu_crash/fru_crash rsync://rp0-0/bootflash/.installer/...
rsync_entry_type(polaris_pvp_t)
ifdef(`ngwc_family',
    polaris_chvrf_domtrans(polaris_pvp_t)
gen_require(
    type rsync_t;
')
allow rsync_t polaris_pvp_t:process sigchld;

# pvp_tmp file descriptor leaks into mcp_chvrf.sh
gen_require("
    type polaris_chvrf_t;
    type polaris_pvp_tmp_t;
    ")
allow polaris_chvrf_t polaris_pvp_tmp_t:fifo_file { ioctl read };
")

# statfs64 over /tmp
fs_getattr_xattr_fs(polaris_pvp_t)

polaris_tdlresolve_read(polaris_pvp_t)

corenent_tcp_connect_rsync_port(polaris_pvp_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pvp_t)

# runs over /proc/
kernel_read_network_state_symlinks(polaris_pvp_t)

# work with mounts
mount_domtrans(polaris_pvp_t)

optional_policy("# pvp.sh may mark or clear bits in /proc/exiting_bays
polaris_rw_exiting_bays(polaris_pvp_t)
")

optional_policy("# LOOK AT ME /usr/binos/conf/dockerd_env.sh not only sets environment
# it also does quite a bit of action in context of pvp when it got
# sourced before dockerd start
optional_policy(" fs_getattr_all_fs(polaris_pvp_t)
files_getattr_all_dirs(polaris_pvp_t)
fs_read_nsfs_files(polaris_pvp_t)
container_manage_config_files(polaris_pvp_t)
polaris_caf_files_read(polaris_pvp_t)
# creates /var/log/docker/docker.log
logging_manage_generic_logs(polaris_pvp_t)
gen_require("
    type var_log_t;
")
allow polaris_pvp_t var_log_t:dir create;
")
# support uswap feature.
# pvp script create and deletes
# the /bootflash/.uswap/... folder.
type polaris_uswap_files_t;
files_type(polaris_uswap_files_t)
polaris_pfile_type(polaris_uswap_files_t)
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_uswap_files_t, dir, ".USWAP")
manage_dirs_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_link_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)

# support for pvp to create /harddisk/.CRFT directory
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_crft_data_t, dir, ".CRFT")

# Support SAI

type polaris_pvp_sai_t;
files_tmp_file(polaris_pvp_sai_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t, dir, "sai_process")
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_lnk_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)

# all processes controlled by pchort require access to sai files

gen_require(
    attribute polaris_domain;
"
)
polaris_pvp_read_sai_files(polaris_domain)

ifdef(`ngwc_family',`
# ngmod_vbd_handle_mount@.service started by pvp on macallan
systemd_config_generic_services(polaris_pvp_t)
"
)

type polaris_pvp_var_run_t;
files_pid_file(polaris_pvp_var_run_t)
gen_require(
    type var_run_t;
"
)
manage_files_pattern(polaris_pvp_t, var_run_t, polaris_pvp_var_run_t)
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_rp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_fp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_cc")

# watch over /tmp/rp/pvp/control
allow polaris_pvp_t polaris_pvp_tmp_t:dir watch;

## permissions required during shutdown

# implode.sh 'systemctl reboot' uses dbus
dbus_system_bus_client(polaris_pvp_t)

# and checks reboot.target
systemd_status_power_services(polaris_pvp_t)

# writes sysctrl_i2c.lck file
gen_require('
    type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_pvp_t)

# journalctl and ifconfig are used when gathering logs during a punt-inject
# crash
journalctl_domtrans(polaris_pvp_t)
sysnet_domtrans_ifconfig(polaris_pvp_t)
# and allow it to write to our shutdownlog
gen_require('
    type ifconfig_t;
')
polaris_btrace_data_manage_all(ifconfig_t)

# implode.sh checks ip interfaces before ifconfig
polaris_socketat_nsfs_read(polaris_pvp_t)

# cedge uses logrotate
polaris_ripc_confd_ipc_connect(polaris_pvp_t)
# logrotate perms
polaris_confd_var_log_manage(polaris_pvp_t)
allow polaris_pvp_t self:capability { chown fowner };
# var_lib stuff
files_manage_urandom_seed(polaris_pvp_t)

# vconfd_script_admin_tech.sh is invoked by pvp.sh. This requires a domain
# transition from pvp to admin tech context.
polaris_admin_tech_domtrans(polaris_pvp_t)

## systemreport related permissions
# pd_info collection when triggering systemreport
# fdisk permissions
storage_raw_read_fixed_disk( polaris_pvp_t );
fstools_manage_entry_files( polaris_pvp_t );
fstools_exec( polaris_pvp_t );
polaris_rommon_device_read(polaris_pvp_t)
# dmesg writes to pd_info path
write_files_pattern(dmesg_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t )
gen_require("
type admin_home_t;
');

# top creates/writes dir /.config
allow polaris_pvp_t admin_home_t:dir { add_name create write }

# drop-caches
kernel_rw_vm_sysctls( polaris_pvp_t );

# systemreport collection reads all sorts of files
# but also deletes those files afterwards...
logging_manage_audit_log(polaris_pvp_t)

# report collects maroon data
polaris_maroon_data_manage_all(polaris_pvp_t);
polaris_tdlresolve_manage(polaris_pvp_t);

# collect udev log
polaris_udev_tmp_manage(polaris_pvp_t)

init_status(polaris_pvp_t);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`ripc_stem', `translit(patsubst($1, `-ripc$', `'), `-', `_'))
define(`ripc_label', `format(`polaris_%s_ripc_port_t', ripc_stem($1)))

dnl Ripc Type Map: track that type declations unique
define(`ripc_type_map', `defn(format(``ripc_type_map[%s]', `$1')))
define(`ripc_type_map_set', `define(format(``ripc_type_map[%s]', `$1'), `$2'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisquack, 1.0);

###############################################################################
# Quack Driver policy
###############################################################################

type polaris_quack_device_t;
dev_node(polaris_quack_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

# Polaris lua files
/lu(\.*)(\.*)\.lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/usr/binos/conf(\.*)(\.*)\.lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lu(\.*)(\.*)\.* -- gen_context(system_u:object_r:lib_t,s0)
/lu(\.*)(\.*) -- dgen_context(system_u:object_r:usr_t,s0)
/lu -- dgen_context(system_u:object_r:usr_t,s0)

# Polaris nginx lua files
/var/scripts/lu(\.*)(\.*) -- d gen_context(system_u:object_r:polaris_lua_file_t,s0)
/var/scripts/lu(\.*)(\.*) -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

# why did we put .so libraries in /var directory?
/var/LibLua/LuaXML_lib\.* -- gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/cjson\.* -- gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/\.*\.lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

# lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lu(\.*)(\.*) -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/sw/cfg(/.*)?      gen_context(system_u:object_r:polaris_cfg_data_t,s0)
/usr/bin/os/conf/cfg_sync.sh -- gen_context(system_u:object_r:polaris_cfg_sync_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.fc
No license file was found, but licenses were detected in source scan.

# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
/var/log/dmi(/.*)?                      gen_context(system_u:object_r:polaris_dmi_var_log_t,s0)
/tmp/stream-parsers(/.*)?               gen_context(system_u:object_r:polaris_dmi_parser_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.fc
No license file was found, but licenses were detected in source scan.

# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris container Policy Rules.</summary>

----------------------------------------------------------------------------------
## <summary>
## Creates types and rules for a basic
## polaris container process domain.
## </summary>
## <param name="stem">
## <summary>
## Stem for the domain. Name is contructed as polaris_stem_container_t
## </summary>
## </param>
#
template('polaris_container_domain_template',
gen_require(
    type svirt_sandbox_file_t;

type virt_lxc_var_run_t;
attribute sandbox_net_domain;
attribute svirt_sandbox_domain;
bool virt_sandbox_use_sys_admin;
bool virt_sandbox_use_mknod;
bool virt_sandbox_use_all_caps;
bool virt_sandbox_use_netlink;


type polaris_${1}_container_t, svirt_sandbox_domain;
domain_type(polaris_${1}_container_t)
domain_user_exemption_target(polaris_${1}_container_t)
mls_rangetrans_target(polaris_${1}_container_t)
mcs_constrained(polaris_${1}_container_t)
role system_r types polaris_${1}_container_t;

logging_send_syslog_msg(polaris_${1}_container_t)

kernel_read_system_state(polaris_${1}_container_t)
kernnel_read_all_proc(polaris_${1}_container_t)

virt_default_capabilities(polaris_${1}_container_t)
typeattribute polaris_${1}_container_t sandbox_net_domain;
dontaudit polaris_${1}_container_t self:capability fsetid;
dontaudit polaris_${1}_container_t self:capability2 block_suspend ;
allow polaris_${1}_container_t self:process { execstack execmem };
manage_chr_files_pattern(polaris_${1}_container_t, svirt_sandbox_file_t, svirt_sandbox_file_t)
kernnel_load_module(polaris_${1}_container_t)

tunable_policy(`virt_sandbox_use_sys_admin',
  allow polaris_${1}_container_t self:capability sys_admin;
  )

tunable_policy(`virt_sandbox_use_mknod',
  allow polaris_${1}_container_t self:capability mknod;
  )

tunable_policy(`virt_sandbox_use_all_caps',
  allow polaris_${1}_container_t self:capability all_capability_perms;
  allow polaris_${1}_container_t self:capability2 all_capability2_perms;
  )

tunable_policy(`virt_sandbox_use_netlink',
  allow polaris_${1}_container_t self:netlink_socket create_socket_perms;
  allow polaris_${1}_container_t self:netlink_tcpiog_socket create_netlink_socket_perms;
  allow polaris_${1}_container_t self:netlink_kobject_uevent_socket create_socket_perms;
  )

logging_dontaudit_send_audit_msgs(polaris_${1}_container_t)
allow polaris_$1_container_t virt_lxc_var_run_t:dir list_dir_perms;
allow polaris_$1_container_t virt_lxc_var_run_t:file read_file_perms;

kernel_read_irq_sysctls(polaris_$1_container_t)
kernal_read_messages(polaris_$1_container_t)

dev_read_sysfs(polaris_$1_container_t)
dev_read_mtrr(polaris_$1_container_t)
dev_read_rand(polaris_$1_container_t)
dev_read_urand(polaris_$1_container_t)

files_read_kernel_modules(polaris_$1_container_t)

# Do we actually need these?
fs_mount_cgroup(polaris_$1_container_t)
fs_manage_cgroup_dirs(polaris_$1_container_t)
fs_manage_cgroup_files(polaris_$1_container_t)
# Needed for docker
fs_unmount_xattr_fs(polaris_$1_container_t)

auth_use_nsswitch(polaris_$1_container_t)

optional_policy(
 rpm_read_db(polaris_$1_container_t)
)

logging_send_syslog_msg(polaris_$1_container_t)

tunable_policy(`virt_sandbox_use_audit',
    logging_send_audit_msgs(polaris_$1_container_t)
)

userdom_use_user_ptys(polaris_$1_container_t)

optional_policy(
    # allow vman to kill lxc container process
    # on shutdown where vman destroys container-related
    # stuff after a timeout period
    polaris_vman_kill_process(polaris_$1_container_t)
)

# copied from polariscommon.if. If the label is added in
# in permissive map, the below interface will make permissive
#else(permissive_domain(polaris_$1_container_t), polaris_$1_container_t,
 'polaris_permissive_domain_setup(polaris_$1_container_t),
    confined_domain(polaris_$1_container_t), polaris_$1_container_t,'",

polaris_domain_maybe_unconfined(polaris_$1_container_t')

')

#########################################################################
## <summary>
## Creates types and rules for a basic
## polaris KVM container process domain.
## </summary>
## <param name="stem">
## <summary>
## Stem for the domain. Name is constructed as polaris_stem_container_t
## </summary>
## </param>
#
# template('polaris_kvm_domain_template',
  gen_require(
    attribute virt_domain;
    type svirt_image_t;
  )
)

# for now, things are same as polaris_container_domain_template
polaris_container_domain_template($1)

type attribute polaris_$1_container_t virt_domain;
# allow {map} of svirt_image_t needed by VWAAS similar to svirt
  allow polaris_$1_container_t svirt_image_t:{ file blk_file } map;
')

#########################################################################
## Read Sandbox Files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sandbox_file_read',
  gen_require(
    type svirt_sandbox_file_t;
  )
  read_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
  read_link_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
  list_dirs_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
)

#########################################################################
## Read Sandbox Files

### <summary>
### Domain allowed access.
### </summary>

```
interface(`polaris_sandbox_file_dir_list',
  gen_require(`
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type svirt_sandbox_file_t;
  `)
  list_dirs_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
  svirt_sandbox_file_t)
  optional_policy(`
    gen_require(`
      type polaris_iox_alt_hdd_files_t;
    `)
    list_dirs_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
  `)
)
```

### Getattr of Sandbox Files

### <summary>
### Domain allowed access.
### </summary>

```
interface(`polaris_sandbox_file_getattr',
  gen_require(`
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type svirt_sandbox_file_t;
  `)
  getattr_files_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
  svirt_sandbox_file_t)
  optional_policy(`
    gen_require(`
      type polaris_iox_alt_hdd_files_t;
    `)
    `)
  `)
```

getattr_files_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
)

)

## <summary>
##      Normal restricted permission to execute utd (snort) container
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_utd_container',`
   allow $1 self:netlink_generic_socket client_stream_socket_perms;
')

## <summary>
##      Allow domain transition
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_container_domtrans',`
   gen_require(`
      type polaris_iox_container_t;
      type container_file_t;
   ')
   domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
')

## <summary>
##      Allow watch on container files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_container_watch',
    gen_require(' type tmpfs_t;
      type container_file_t;
    ')
    allow $1 container_file_t:{ dir file lnk_file} watch;
    allow $1 tmpfs_t:{ dir file lnk_file} watch;
')

########################################
## <summary>
##      Send messages to utdl container unix datagram sockets.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_utdl_container_dgram_send',
    gen_require(' type polaris_utdl_container_t;
    ')
    allow $1 polaris_utdl_container_t:unix_dgram_socket sendto;
')

########################################
## <summary>
##      Allow unix stream socket connect
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_waas_stream_connect',
    gen_require(' type polaris_waas_container_t;
    ')
    allow $1 polaris_waas_container_t:unix_stream_socket connectto;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.if

No license file was found, but licenses were detected in source scan.
## <summary>Polaris ncd Policy Rules.</summary>

### <summary>
Make the specified domain able to manage tmp file created by ncd.sh like /tmp/etc/ncd_work_dir
### <summary>

```
interface('polaris_ncd_tmp_manage',
    gen_require('type polaris_ncd_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
')
```

### <summary>
Make the specified domain able to read tmp file created by ncd.sh like /tmp/ufs/crashinfo
### <summary>

```
interface('polaris_ncd_tmp_read',
    gen_require('type polaris_ncd_tmp_t;
    ')
    list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
')
```

### <summary>
Make the specified domain able to read etc file created by ncd.sh like /etc/conf/unifiedfs/mount_data
### <summary>

```
interface('polaris_ncd_tmp_read',
    gen_require('type polaris_ncd_tmp_t;
    ')
    list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
')
```
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ncd_etc_read',
  gen_require(
    type polaris_ncd_etc_t;
  )
  read_files_pattern($1, polaris_ncd_etc_t, polaris_ncd_etc_t)
')

########################################
## <summary>
## Execute a domain transition to run ncd.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_ncd_domtrans',
  gen_require(
    type polaris_ncd_t, polaris_ncd_exec_t;
  )
  domtrans_pattern($1, polaris_ncd_exec_t, polaris_ncd_t)
')

########################################
## <summary>
## Execute a domain transition to run unifiedfs_helper.sh.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_ufs_helper_domtrans',
  gen_require(
    type polaris_ufs_helper_t, polaris_ufs_helper_exec_t;
  )
  domtrans_pattern($1, polaris_ufs_helper_exec_t, polaris_ufs_helper_t)
')
---

### <summary>
### Run rpcinfo in a domain, grant proper network permissions.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>

```
interface('polaris_ncd_rpcinfo_net',
  corenet_tcp_bind_generic_node($1)
  corenet_tcp_bind_all_rpc_ports($1)
  corenet_tcp_connect_all_rpc_ports($1)
  corenet_tcp_connect_unreserved_ports($1)
  allow $1 self:tcp_socket { bind connect create getattr getopt setopt }
)

  corenet_udp_bind_generic_node($1)
  corenet_udp_bind_all_rpc_ports($1)
  allow $1 self:udp_socket { bind create getattr getopt setopt }
)

  corenet_tcp_connect_portmap_port($1)

ifdef('passport_platform',
  # invoked rpcinfo which connects to port 2049 (nfs server)
  # port is incorrectly labelled due to falling in range of TDL define
  # of IOSd gold ripc service
  polaris_ripc_iosd_gold_connect($1)
')

ifdef('starfleet_platform',
  # invoked rpcinfo which connects to port 2049 (nfs server)
  # port is incorrectly labelled due to falling in range of TDL define
  # of IOSd gold ripc service
  polaris_ripc_iosd_gold_connect($1)
')

ifdef('bigbang_platform',
  #nfs server port 2049 is labelled as ripc-emd_ui_port_t based on TDL define
  polaris_ripc_emd_ui_connect($1)
')

)  

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.if
---
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscppcdm, 1.0);

  gen_require(
      type polaris_cpp_cdm_t;
  )

  polaris_btrace_data_manage(polaris_cpp_cdm_t)
polaris_crft_data_manage(polaris_cpp_cdm_t)
polaris_chasfs_manager(polaris_cpp_cdm_t)
polaris_tdlresolve_read(polaris_cpp_cdm_t)
polaris_tdlldb_list_dirs(polaris_cpp_cdm_t)
polaris_cpdl_read(polaris_CPP_cdm_t)
polaris_flashlib_read(polaris_cpp_cdm_t)

  polaris_cpp_tmp_files_use(polaris_cpp_cdm_t)
# works with /dev/cpp_dev_info and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_cdm_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_cdm_t)

  polaris_icc_broken_relocations(polaris_cpp_cdm_t)

  allow polaris_cpp_cdm_t self:capability net_admin;

  # get attributes of /dev/shm from glibc where_is_shmfs function
  fs_getattr_tmpfs(polaris_cpp_cdm_t)

  polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cdm_t)

  # LOOK AT ME: raw memory access in cavium vendor SDK
  # related to octeon driver (BUG CSCvh58515)
  ifdef('crankshaft_family',
      polaris_dev_mem_use(polaris_cpp_cdm_t)
  )

  # overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
  # when initializing the CPP DMAP library.
  optional_policy(
      polaris_cpp_cavium_dma_map(polaris_cpp_cdm_t)
  )
optional_policy('polaris_cbdma_dev_use(polaris_cpp_cdm_t)')
polaris_cpld_dev_use(polaris_cpp_cdm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.te
No license file was found, but licenses were detected in source scan.

# # August 2017, Victor Kamensky # # Copyright (c) 2017-2019 by Cisco Systems, Inc. # All rights reserved #

### <summary>Polaris bsm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky # # Copyright (c) 2016-2019 by Cisco Systems, Inc. # All rights reserved #

/obfl -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/obfl0 -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky # # Copyright (c) 2016-2019 by Cisco Systems, Inc. # All rights reserved #

/dev/cpld -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-ha -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-misc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-fp -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-cc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl January 2021, Vaibhav Lade
dnl
dnl Copyright (c) 2021 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl VPCGW Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`fp', `elastic', BPROC_UEMGR, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_UEMGR, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vpcgwmaps.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris gsd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdRP.if
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22772
policy_module(polarisoctdplogrp, 1.0);

gen_require(
    type polaris_oct_dp_log_rp_t;
')

polaris_btrace_data_manage(polaris_oct_dp_log_rp_t)
polaris_chasfs_manage(polaris_oct_dp_log_rp_t)
polaris_tdlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tdlldb_list_dirs(polaris_oct_dp_log_rp_t)
polaris_cpld_read(polaris_oct_dp_log_rp_t)
polaris_flashlib_read(polaris_oct_dp_log_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to accesses /dev/ttyDASH7)
term_open_unallocated_ttys(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.te
No license file was found, but licenses were detected in source scan.

# June 2020, Manu Roy
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris iotswitch Policy Rules.</summary>
#
#
###########################################
### <summary>
### Work (read, write, ioctl) with /dev/petra-fpga device
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_iots_fpga_dev_use',

gen_require(
    type device_t;
    type polaris_iots_fpga_device_t;
)
write_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
allow $1 polaris_iots_fpga_device_t:chr_file map;
)

########################################
## <summary>
##      Work (read, write, ioctl) with /dev/tm
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iots_tm_dev_use',
    gen_require(
        type device_t;
        type polaris_iots_tm_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
    allow $1 polaris_iots_tm_device_t:chr_file map;
    )

########################################
## <summary>
##      Allow access to semaphore with type polaris_cm_rp_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cm_rp_sem_use',
    gen_require(
        type polaris_cm_rp_t;
    )
    allow $1 polaris_cm_rp_t:sem rw_sem_perms;
    )
## Allow access to semaphore with type polaris_iots_mvDmaDrv_device_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_mvDmaDrv_dev_use',
  gen_require(
    type device_t;
    type polaris_iots_mvDmaDrv_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
  allow $1 polaris_iots_mvDmaDrv_device_t:chr_file map;
)

########################################
## Allow access to semaphore with type polaris_iots_mvIntDrv_device_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_mvIntDrv_dev_use',
  gen_require(
    type device_t;
    type polaris_iots_mvIntDrv_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
)

########################################
## Manage iots swipedrive files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_swipedrive_file_manage',

gen_require(`
    type polaris_iots_swipedrive_file_t;
`)
manage_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
manage_link_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
manage_dirs_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
`)

########################################
## <summary>
##      Get the attributes of an swipe drive filesystem.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface(`polaris_getattr_swipedrive',`
    gen_require(`
        type polaris_iots_swipedrive_file_t;
`)
    allow $1 polaris_iots_swipedrive_file_t:filesystem getattr;
`)

########################################
## <summary>
##      Allow access to semaphore with type polaris_iots_led_device_t
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface(`polaris_led_dev_use',`
    gen_require(`
        type device_t;
        type polaris_iots_led_device_t;
`)
    write_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.if
No license file was found, but licenses were detected in source scan.

# December 2019, Victor Kamensky
#
# Copyright (c) 2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris fnf_agg Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/110396160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.if

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris TDLResolve Policy Rules.</summary>

########################################################################
# TDLresolve policy
########################################################################

########################################################################
### <summary>Open tdlresolve files</summary>
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface('polaris_tdlresolve_read',
  gen_require(
    type polaris_tdlresolve_t;
    )
  read_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  read_link_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  list_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  allow $1 polaris_tdlresolve_t:file map;
  gen_require(“}
type polaris_global_service_t;
')
    read_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
    allow $1 polaris_global_service_t:file map;
')

###########################################################################
## <summary>
##   Manage tdlresolve files
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_tdlresolve_manage',
    gen_require(
        type polaris_tdlresolve_t;
    ')
    manage_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    manage_link_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    manage_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    allow $1 polaris_tdlresolve_t:file map;
    gen_require(
        type polaris_global_service_t;
    ')
    manage_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
    allow $1 polaris_global_service_t:file map;
')

###########################################################################
## <summary>
##   Watch tdlresolve directories
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_tdlresolve_watch',
    gen_require(
        type polaris_tdlresolve_t;
    ')
    allow $1 polaris_tdlresolve_t:dir watch;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/maroon_stats -d	gen_context(system_u:object_r:polaris_maroon_base_t,s0)
# zram devices
/dev/zram[0-9]* -b gen_context(system_u:object_r:polaris_zram_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarishtx, 1.0);

gen_require(
   type polaris_hcx_t;
')
polaris_chasfs_read(polaris_hcx_t)
polaris_cpld_read(polaris_hcx_t)
polaris_tdlresolve_read(polaris_hcx_t)
polaris_ripc_sman_ui_serv_connect(polaris_hcx_t)
logging_send_syslog_msg(polaris_hcx_t)

# LOOK AT ME uses shell and mkdir just to create /tmp/HTX-IOX directory
# should be single mkdir system call, in fact even this may not
# be needed since it is created by system-tempfiles
corecmd_exec_shell(polaris_hcx_t)
corecmd_exec_bin(polaris_hcx_t)
auth_use_nsswitch(polaris_hcx_t)
# call posix_sysconf that opens /sys/devices/system/cpu/online
dev_read_sysfs(polaris_htx_t)

# create threads
allow polaris_htx_t self:process setsched;
allow polaris_htx_t self:capability sys_nice;

optional_policy(
    polaris_qfp_dgram_send(polaris_htx_t)
')

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_htx_t)

type polaris_htx_iox_tmp_t;
files_tmp_file(polaris_htx_iox_tmp_t)
polaris_htx_iox_tmp_manage(polaris_htx_t)

# htx logs files like /tmp/nwaas_log_sslproxy.log
type polaris_htx_tmp_t;
files_tmp_file(polaris_htx_tmp_t)
files_tmp_filetrans(polaris_htx_t, polaris_htx_tmp_t, file)
manage_files_pattern(polaris_htx_t, polaris_htx_tmp_t, polaris_htx_tmp_t)

# handle /dev/shm/tcp/sslproxy_debug_shm

type polaris_htx_tmpfs_t;
files_tmpfs_file(polaris_htx_tmpfs_t)
fs_tmpfs_filetrans(polaris_htx_t, polaris_htx_tmpfs_t, file)
fs_getattr_tmpfs(polaris_htx_t)
gen_require(
    type tmpfs_t;
)

manage_files_pattern(polaris_htx_t, tmpfs_t, polaris_htx_tmpfs_t)
allow polaris_htx_t polaris_htx_tmpfs_t:file map;

# work with /tmp/memif
optional_policy(
    polaris_qfp_memif_manage(polaris_htx_t)
')

# sppi_memif
type polaris_sppi_memif_device_t;
dev_node(polaris_sppi_memif_device_t)
polaris_sppi_memif_dev_use(polaris_htx_t)

# packet_socket uinet_if_sppi_channel_init
allow polaris_htx_t self:packet_socket { create_socket_perms recv_msg send_msg};
allow polaris_htx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_htx_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris nginx Policy Rules.</summary>

    #######################################
    ## <summary>
    ##      Allow domain to be started by nginx with
    ##      transition into specific service domain.
    ## </summary>
    ## <param name="domain">
    ##      <summary>
    ##      Type to be used to run utility.
    ##      </summary>
    ## </param>
    ## <param name="entry_point">
    ##      <summary>
    ##      Type of the program to be used as an entry point to this domain.
    ##      </summary>
    ## </param>
    interface('polaris_nginx_exec_domain',
        gen_require(''
polaris_nginx_t;
        type polaris_nginx_t;
    '))

domtrans_pattern(polaris_nginx_t, $2, $1)
')

    #######################################
    ## <summary>
    ##      Execute mcp_trace_filter script in its own domain.
    ## </summary>
    ## <param name="domain">
    ##      <summary>
    ##      Domain allowed to transition.
    ##      </summary>
    ## </param>
    interface('mcp_trace_filter_exec_domain',
        gen_require(''
        type mcp_trace_filter_t;
        type mcp_trace_filter);
```c
## <summary>
## Execute file transfer client in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_file_transfer_client_domtrans',
    gen_require(' 
        type polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t;
    ')
)
domtrans_pattern($1, polaris_file_transfer_client_exec_t, polaris_file_transfer_client_t)
'

#######################################
## <summary>
## Allow others to perform pipe operations on nginx files
## </summary>
## <param name="domain">
## Domain allowed to perform the operation
## </param>
#
interface(`polaris_nginx_manage_fifo_files',
    gen_require(' 
        type polaris_nginx_t;
        type $1;
    ')
    manage_fifo_files_pattern($1, polaris_nginx_t, polaris_nginx_t)
')
```

### Allow the specified domain to manage polaris_nginx_tmp_t files

```c
interface('polaris_nginx_tmp_manage',
    gen_require(
        type polaris_nginx_tmp_t;
    )

    manage_files_pattern($1, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
    files_tmp_filetrans($1, polaris_nginx_tmp_t, file, "ca.cert")
)
```

### Manage polaris_fts_client_tmp_t in /tmp/fts_client.

```c
interface('polaris_fts_client_tmp_manage',
    gen_require(
        type polaris_fts_client_tmp_t;
    )

    manage_files_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
    manage_dirs_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
)
```

No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
## <summary>Polaris cedgetanman Policy Rules.</summary>

```
######################################
## <summary>
##      Read cedge tanman files and fifo_file. I.e
##      /tmp/tan/tan_evt_fifo
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_tanman_tmp_manage',
    gen_require(
        type polaris_cedge_tanman_tmp_t;
    ')
    read_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
    read_fifo_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.if
No license file was found, but licenses were detected in source scan.

#
# November 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
# polarisgnmib file contexts place holder
/flash1/gNOI_iosxe_.*    gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/bootflash/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/mnt/sd3/user/gNOI_iosxe_.*    gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.fc
No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
# Copyright (c) 2017-2019, 2021 by Cisco Systems, Inc.
# All rights reserved
## <summary>Polaris bbu Policy Rules.</summary>

### <summary>
## Work (read, write, ioctl) with /dev/ttyS2
##
### <summary>
## <param name="domain">
## Domain allowed access.
##
### </summary>
### </param>

```c
interface(`polaris_bbu_dev_use',`
  gen_require(`
    type device_t;
    type polaris_bbu_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_bbu_device_t)
  read_chr_files_pattern($1, device_t, polaris_bbu_device_t)
  allow $1 polaris_bbu_device_t:chr_file map;
`)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# # All rights reserved
#

## <summary>Polaris polarisrollbacktimer Policy Rules.</summary>

### <summary>
## Manage rbtimer file on bootflash (i.e /bootflash/.rollback_timer)
##
### <summary>
## <param name="domain">
## Domain allowed access.
##
### </summary>
### </param>

```c
interface(`polaris_rbtimer_bootflash_manage',`
  gen_require(`
    type polaris_disk_bootflash_t;
```
type polaris_rbtimer_bootflash_t;
)
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t)
manage_files_pattern($1, polaris_rbtimer_bootflash_t, polaris_rbtimer_bootflash_t)
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t, dir, ".rollback_timer")
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris keyman Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris polarisoom Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/install_engine.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/binos/conf/install_assist.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/binos/conf/install_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/binos/conf/sw_pload_svc.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  22787

# The following labels are specific to hot patch a SMUs shared objects
# using .so files). For cold patch files, the patch is subset of a package
# (it has the same structure) and therefore regular labeling rules will
# be in effect.
#
# The SMU hot patch directory hierarchy should look as follows:
#
#/RP.<ARCH>/<process>/patch(s)
#/FP.<ARCH>/<process>/patch(s)
#/CC.<ARCH>/<process>/patch(s)
#
/\RP\[^/\]*\[^/\]*(/.*)?\?\ gen_context(system_u:object_r:lib_t,s0)
/\FP\[^/\]*\[^/\]*(/.*)?\?\ gen_context(system_u:object_r:lib_t,s0)
/\CP\[^/\]*\[^/\]*(/.*)?\?\ gen_context(system_u:object_r:lib_t,s0)
#
# bundlee image/subpkg labeling
/packages.conf\ --\ gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/\pkginfo\ --\ gen_context(system_u:object_r:polaris_sw_data_t,s0)
/\([^/\]*\):pkg\ --\ gen_context(system_u:object_r:polaris_sw_data_t,s0)

/tmp/pkg_cs_debug(/.*)?\ gen_context(system_u:object_r:polaris_pkg_cs_debug_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
policy_module(polarisepcwsliaison, 1.0);

gen_require(`
   type polaris_epc_ws_liaison_t;
`)

polaris_btrace_data_manage(polaris_epc_ws_liaison_t)
polaris_crtf_data_manage(polaris_epc_ws_liaison_t)
polaris_chasfs_manage(polaris_epc_ws_liaison_t)
polaris_tdlresolve_read(polaris_epc_ws_liaison_t)
polaris_tdlmdb_list_dirs(polaris_epc_ws_liaison_t)
polaris_cpld_read(polaris_epc_ws_liaison_t)
polaris_flashlib_read(polaris_epc_ws_liaison_t)
polaris_ripc_sman_ui_serv_connect(polaris_epc_ws_liaison_t)
allow polaris_epc_ws_liaison_t self:capability { dac_override };

# tshark invoked by epc_ws_liaison needs to map /etc/passwd file.
auth_map_passwd(polaris_epc_ws_liaison_t)

# access to execute /sbin/tshark
corecmd_exec_bin(polaris_epc_ws_liaison_t)

# dumpcap needs access to net dir in sysfs
dev_read_sysfs(polaris_epc_ws_liaison_t)

# comm="dumpcap" kmod="net-pf-16,proto-12"
kernel_dontaudit_request_load_module(polaris_epc_ws_liaison_t)

# write pcap files to /bootflash
polaris_bootflash_manage(polaris_epc_ws_liaison_t)

# epc_ws_liaison and ngwc-fed pipe interaction
polaris_fed_shm_file_read(polaris_epc_ws_liaison_t)

# for pluggable FS, allow epc liaison to access files on them.
polaris_removable_manage(polaris_epc_ws_liaison_t)

# tshark and dumpcap runtime requirements
allow polaris_epc_ws_liaison_t self:capability { net_raw setgid setuid };
allow polaris_epc_ws_liaison_t self:netlink_netfilter_socket create;
allow polaris_epc_ws_liaison_t self:netlink_route_socket { bind create attr nlmsg_read };
allow polaris_epc_ws_liaison_t self:packet_socket { bind create getopt ioctl map setopt };
allow polaris_epc_ws_liaison_t self:process setcap;
allow polaris_epc_ws_liaison_t self:unix_dgram_socket { create ioctl };
allow polaris_epc_ws_liaison_t self:udp_socket { create ioctl };

# /tmp/lsn.log and /tmp/epc_ws (WS_TMP_FOLDER)
type polaris_epc_ws_liaison_tmp_t;
files_tmp_file(polaris_epc_ws_liaison_tmp_t)
files_tmp_filetrans(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, file dir )
manage_dirs_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_files_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_fifo_files_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)

# CLI: show platform software wireshark show
polaris_utility_domain_template(wireshark_show)
polaris_bexecute_domain(polaris_wireshark_show_t, polaris_wireshark_show_exec_t)
polaris_chasfs_manage(polaris_wireshark_show_t)
corecmd_exec_bin(polaris_wireshark_show_t)

# map /etc/passwd
auth_map_passwd(polaris_wireshark_show_t)

# open, read, getattr pcap files
polaris_bootflash_read(polaris_wireshark_show_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_wireshark_show_t)

corecmd_exec_shell(polaris_wireshark_show_t)

# sys file /sys/devices/system/cpu/online
dev_read_sysfs(polaris_wireshark_show_t)

# tshark and dumpcap runtime requirements
allow polaris_wireshark_show_t self:capability { setgid setuid net_admin }
allow polaris_wireshark_show_t self:netlink_netfilter_socket create;
allow polaris_wireshark_show_t self:netlink_route_socket { bind create getattr nlmsg_read }
allow polaris_wireshark_show_t self:process setcap;
allow polaris_wireshark_show_t self:udp_socket { create ioctl }
allow polaris_wireshark_show_t self:unix_dgram_socket { create ioctl }

# dumpcap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file
polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)

# comm="dumpcap" kmod="net-pf-16 proto-12"
kernel_request_load_module(polaris_wireshark_show_t)

# /tmp/*.pcapng
type polaris_wireshark_show_tmp_t;
files_tmp_file(polaris_wireshark_show_tmp_t)
files_tmp_filetrans(polaris_wireshark_show_t, polaris_wireshark_show_tmp_t, file)
polaris_wireshark_show_tmp_manage(polaris_wireshark_show_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.te
No license file was found, but licenses were detected in source scan.

#
# June 2020 , Manu Roy
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisiotswitch, 1.0);
# petra fpga device (/dev/petra-fpga)
type polaris_iots_fpga_device_t;
dev_node(polaris_iots_fpga_device_t)

# petra DMA ASIC driver (/dev/mvDmaDrv)
type polaris_iots_mvDmaDrv_device_t;
dev_node(polaris_iots_mvDmaDrv_device_t)

# petra Interrupt Asic driver (/dev/mvIntDrv)
type polaris_iots_mvIntDrv_device_t;
dev_node(polaris_iots_mvIntDrv_device_t)

# petra tm device (/dev/tm)
type polaris_iots_tm_device_t;
dev_node(polaris_iots_tm_device_t)

# petra tm device (/dev/mmcblk1p1)
type polaris_iots_swipedrive_device_t;
dev_node(polaris_iots_swipedrive_device_t)

type polaris_iots_swipedrive_file_t;
files_type(polaris_iots_swipedrive_file_t)
dev_associate(polaris_iots_swipedrive_file_t)

# LED device (/dev/spidev0.0)
type polaris_iotsLed_device_t;
dev_node(polaris_iotsLed_device_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.te
  No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris psd Policy Rules.</summary>

##########################################################################
### <summary>
###  Read polaris_restconf_t files, effectively files
###  under /tmp/restconf
### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_restconf_read',
   gen_require('       type polaris_restconf_t;
   ')
read_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
read_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
list_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

########################################
## <summary>
##      Manage polaris_restconf_t files, effectively files
## under /tmp/restconf
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_restconf_manage',
   gen_require('       type polaris_restconf_t;
   ')
manage_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
manage_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
manage_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

########################################
## <summary>
##      Manage polaris_ncsshd_keys_t files, effectively files
## under /tmp/.ncsshd_authorized_keys
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ncsshd_keys_manage',
   gen_require('
type polaris_ncsshd_keys_t;

manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_link_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)

# Read polaris_psd_tmp_t files, effectively access /tmp/dmi.ds_config created by psd and read by confd startup
#
# <param name="domain">
#   <summary>
#     Domain allowed access.
#   </summary>
# </param>
#
interface('polaris_psd_tmp_read',
   gen_require('type polaris_psd_tmp_t;

   read_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t)

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris smd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky

dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`polaris_process_aux_full',``
polaris_process_domain_template($1)
``)
define(`polaris_process_aux',``
ifelse(process_type_map($1), `', `polaris_process_aux_full($1)'
)
process_type_map_set($1, 1)
``
define(`polaris_process',``
polaris_process_aux(process_stem($1))
``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_te.m4
No license file was found, but licenses were detected in source scan.
#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

cpyolicy_module(polarisdmincsshdmgmt, 1.0);

gen_require(`
    type polaris_dmi_nccshd_mgmt_t;
``)
polaris_btrace_data_manage(polaris_dmi_nccshd_mgmt_t)
polaris_chasfs_manage(polaris_dmi_nccshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_nccshd_mgmt_t)
polaris_tdldb_list_dirs(polaris_dmi_nccshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_nccshd_mgmt_t)
corenet_tcp_bind_generic_node(polaris_dmi_nccshd_mgmt_t)
allow polaris_dmi_nccshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }
allow polaris_dmi_nccshd_mgmt_t self:udp_socket { getattr create connect read write }
allow polaris_dmi_nccshd_mgmt_t self:cap_userns { sys_admin net_bind_service }

type polaris_dmi_nccshd_mgmt_var_run_t;
files_pid_file(polaris_dmi_nccshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_nccshd_mgmt_t, polaris_dmi_nccshd_mgmt_t, polaris_dmi_nccshd_mgmt_var_run_t, polaris_dmi_nccshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, { file dir })

# access /var/log/lastlog, /var/log/btmp
type polaris_dmi_ncsshd_mgmt_var_log_t;
logging_log_file(polaris_dmi_ncsshd_mgmt_var_log_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, polaris_dmi_ncsshd_mgmt_var_log_t)
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "lastlog")
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "btmp")

polaris_dmi_ncsshd_fwd_dgram_send(polaris_dmi_ncsshd_mgmt_t)
corenent_tcp_bind_polaris_dmi_ncsshd_mgmt_port(polaris_dmi_ncsshd_mgmt_t)
# ncsshd allows user-defined port with: netconf-yang ssh port <port_no>
corenent_tcp_bind_all_ports(polaris_dmi_ncsshd_mgmt_t)

auth_use_nsswitch(polaris_dmi_ncsshd_mgmt_t)
# assign flowing capabilities needed by sshd
allow polaris_dmi_ncsshd_mgmt_t self:capability { net_admin setgid sys_resource setuid sys_chroot kill};
allow polaris_dmi_ncsshd_mgmt_t self:process setrlimit;

# ncsshd requests pseudo terminal when netconf session is set up without
# explicitly specifying the subsystem name, such as netconf.
allow polaris_dmi_ncsshd_mgmt_t self:capability { chown fowner fsetid };
term_setattr_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_getattr_pty_fs(polaris_dmi_ncsshd_mgmt_t)
term_use_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_use_ptmx(polaris_dmi_ncsshd_mgmt_t)

# enable to read cpld file "/sys/devices/platform/cpld/board_vtype"
polaris_cpld_read(polaris_dmi_ncsshd_mgmt_t)
# for sshd needs access network interface resource
allow polaris_dmi_ncsshd_mgmt_t self:netlink_route_socket r_netlink_socket_perms;

# calls socketat server_listen at mgmt/dmi/ncsshd/src/sshd.c
polaris_socketat_nsfs_read(polaris_dmi_ncsshd_mgmt_t)
polaris_lfts_dev_use(polaris_dmi_ncsshd_mgmt_t)
corecmd_exec_bin(polaris_dmi_ncsshd_mgmt_t)

logging_send_syslog_msg(polaris_dmi_ncsshd_mgmt_t)
# TODO : revisit below statement when addressing initrc_exec_t denial
polaris_rmonbifo_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow access to /tmp/sw/cfg and /tmp/sw/boot
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_dmi_dmiauthd_dgram_send(polaris_dmi_ncsshd_mgmt_t)
corenet_tcp_connect_polaris_netconf_interceptor_port(polaris_dmi_ncsshd_mgmt_t);
# This fixes runin.sh related denials. Refer to auth.c file which invokes bshell.
polaris_bexecute_domtrans(polaris_dmi_ncsshd_mgmt_t);

# This fixes authorized keys access related denials.
polaris_ncsshd Authorized_keys_read(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to interceptor files.
polaris_interceptor_manage(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to netconf_callhome executable
gen_require(
    type polaris_confTd;
)
allow polaris_dmi_ncsshd_mgmt_t polaris_confTd:tcp_socket {getattr getopt setopt};

# This fixes denials related to route, scp, chvrf command executables
# { read open getattr } operations are allowed on route command
# { search open } operations are allowed on scp command
# { read open execute execute_no_trans } operations are allowed on chvrf command
kernel_read_network_state(polaris_dmi_ncsshd_mgmt_t)

optional_policy(
    # allows access to /tmp/xml/Intf dir and files
    polaris_cedge_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_cedge_xml_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
)
# This fixes denials related to ifconfig executable
# { execute read open execute_no_trans map getattr } operations are allowed
sysnet_domtrans_ifconfig(polaris_dmi_ncsshd_mgmt_t)

# This fixes access denials related to confd checking ncsshd_mgmt proc info
# /proc/<ncsshd pid>/
read_files_pattern(polaris_confTd, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)
read_lnk_files_pattern(polaris_confTd, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)

# allows access for admin-tech generation from vManage
polaris_admin_tech_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_bootflash_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_cfg_data_t
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_boot_tmp_t
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow to watch /var/run/netns and list dir
polaris_watch_netns(polaris_dmi_ncsshd_mgmt_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris polarispman Policy Rules.</summary>

### <summary>
### Make the specified program domain accessible from the pman.
### </summary>

### <param name="domain">
### The type of the process to transition to.
### </param>

### <param name="entrypoint">
### The type of the file used as an entrypoint to this domain.
### </param>

# interface(`polaris_pman_entry`,
    gen_require(`
        type polaris_pman_t;
        type polaris_gdb_t;
    `)
    domtrans_pattern(polaris_pman_t, $2, $1)
    domtrans_pattern(polaris_gdb_t, $2, $1)

    allow polaris_gdb_t $1:process { ptrace signal sigstop }
)`

### <summary>
## Execute a domain transition to run pman.

```c
interface('polaris_pman_domtrans',
  gen_require(
    type polaris_pman_t, polaris_pman_exec_t;
  )
)

domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
')
```

## Read pman temporary files and directories in /tmp.

```c
interface('polaris_pman_read_tmp_files',
  gen_require(
    type polaris_pman_tmp_t;
  )
)

read_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
')
```

## Manage pman temporary files and directories in /tmp.

```c
interface('polaris_pman_manage_tmp_files',
  gen_require(
    type polaris_pman_tmp_t;
  )
)
```
manage_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)

########################################
## <summary>
## Create an object in the polaris_pman_tmp directories.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface('polaris_pman_tmp_filetrans',
gen_require(''
type polaris_pman_tmp_t;
')
files_tmp_filetrans($1, polaris_pman_tmp_t, $2, $3)
')

########################################
## <summary>
## Check existence (getattr) of pman btrace file (i.e polaris_pman_bt_t)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
## </param>
#
interface('polaris_pman_bt_getattr',
gen_require(''
type polaris_pman_bt_t;
')
type polaris_btrace_base_t;
)
getattr_files_pattern($1, polaris_btrace_base_t, polaris_pman_bt_t)
)

###############################################
## <summary>
##      Read and write to pmanlite fifo file, used as
##      stdout/stderr.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_use_pman_fifo',`
  gen_require(`
    type polaris_pman_t;
  `)

allow $1 polaris_pman_t:fifo_file { rw_fifo_file_perms };)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.if
No license file was found, but licenses were detected in source scan.
#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariswncmrd, 1.0);

gen_require(`
    type polaris_wncmrd_t;
  `)

polaris_btrace_data_manage(polaris_wncmrd_t)
polaris_chasfs_manage(polaris_wncmrd_t)
polaris_tdlresolve_read(polaris_wncmrd_t)
polaris_tdldb_list_dirs(polaris_wncmrd_t)
polaris_cpld_read(polaris_wncmrd_t)
polaris_lua_read(polaris_wncmrd_t)
polaris_flashlib_read(polaris_wncmrd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncmgrd_t)

polaris_db_tldlb_dir_use(polaris_wncmgrd_t)

#allow setrlimit
allow polaris_wncmgrd_t self:process setrlimit;
allow polaris_wncmgrd_t self:capability sys_resource;
allow polaris_wncmgrd_t self:capability dac_override;

allow polaris_wncmgrd_t self:tcp_socket { shutdown };

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt };
corenet_udp_bind_generic_node(polaris_wncmgrd_t)

#allow wncmgrd module to do ioctl,open,read,write operations on char file
polaris_lfts_dev_use(polaris_wncmgrd_t)

# it use tcp port 9090 and9091(polaris_wnc mgrd_port)
corenet_tcp_bind_polaris_wnc_mgrd_port(polaris_wncmgrd_t)

# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

# wncmgrd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
#     ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncmgrd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncmgrd_t)

polaris_tldlbpersit_setup(polaris_wncmgrd_t)

polaris_tmp_tldlb_persist_setup(polaris_wncmgrd_t)

logging_send_syslog_msg(polaris_wncmgrd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncmgrd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wncmgrd_t)

# wncmgrd accessing NA certificate to push to AP
  type polaris_icap_cert_t;
polaris_pfile_type(polaris_icap_cert_t)

# wncmgrd receives the certificate file from IOSd via IPC
#and writes to /bootflash for ICap feature
#and hence requires access.
gen_require(' type polaris_icap_cert_t; ')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_icap_cert_t, file, "NACert.pem")
allow polaris_wncmgrd_t polaris_icap_cert_t:file { write create read open getattr unlink };

#allow tcp connection from http port for awips file download
#from DNAC
corenet_tcp_connect_http_port(polaris_wncmgrd_t)

#allow read/write/mmap access to awips file
gen_require(' type polaris_awips_signature_file_t; ')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_wncmgrd_t polaris_awips_signature_file_t:file { map write create read open getattr unlink };

#allow read access to resolv.conf
sysnet_read_config(polaris_wncmgrd_t)

#ewlc_capwap_dgram_srvr_create_raw_send_socket () creates a socket
#creates  sll.sll_family = AF_PACKET;
#sll.sll_ifindex = dgram_io_desc->lfts_ifindex;
#sll.sll_protocol = htons(ETH_P_ALL);

allow polaris_wncmgrd_t self:packet_socket { create_socket_perms setopt };
allow polaris_wncmgrd_t self:rawip_socket { create_socket_perms setopt ioctl };

allow polaris_wncmgrd_t self:capability net_raw;
corennet_raw_bind_generic_node(polaris_wncmgrd_t)

gen_require(' type port_t; ')
allow polaris_wncmgrd_t port_t:rawip_socket name_bind;

# allow tmp symlinks
fs_read_tmpfs_symlinks(polaris_wncmgrd_t)
# allow tmp file read
polaris_install_tmp_read(polaris_wncmgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.te
No license file was found, but licenses were detected in source scan.
### <summary>Polaris NVRAM Policy Rules.</summary>

# NVRAM policy

```
# Interface for managing NVRAM files.

interface('polaris_nvram_manage',
    gen_require(
        type polaris_nvram_file_t;
        type device_t;
        
        manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
        manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
        manage_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    )
)
```

```
# Interface for reading NVRAM files.

interface('polaris_nvram_read',
    gen_require(
        type polaris_nvram_file_t;
        type device_t;
        
        manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
        manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
        manage_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    )
)
type polaris_nvram_file_t;
  type device_t;
')

read_blk_files_pattern($1, device_t, polaris_nvram_file_t)
read_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
read_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

########################################################################
## <summary>
##      getattr for nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_nvram_getattr',`
  gen_require(`
    type polaris_nvram_file_t;
      type device_t;
  ')

  getattr_blk_files_pattern($1, device_t, polaris_nvram_file_t)
  getattr_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
  getattr_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/cpp/bin/cpp_stats_svr -- gen_context(system_u:object_r:polaris_cpp_stats_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarisoom, 1.0);

polaris_process_domain_template(oom)

corecmd_exec_bin(polaris_oom_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_oom_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_oom_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_oom_t)

allow polaris_oom_t self:capability sys_resource;
allow polaris_oom_t self:process setpgid;

polaris_btrace_data_manage(polaris_oom_t)
polaris_chasfs_manage(polaris_oom_t)
polaris_cpld_read(polaris_oom_t)
polaris_boot_tmp_read(polaris_oom_t)
polaris_read_debug_conf(polaris_oom_t)
polaris_disk_crashinfo_getattr(polaris_oom_t)
polaris_rmonbifo_tmp_read(polaris_oom_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# /mnt/sd1 edison and nyquist
/mnt/sd1(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/mnt/sd1/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd1/system-report_.*/\tar\tgz gen_context(system_u:object_r:polaris_system_report_t,s0)
```text
# /mnt/sd3 edison and nyquist
/mnt/sd3(/.*)?               gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/mnt/sd3/user/core(/.*)?    gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/tan(/.*)?     gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/.ssh(/.*)?    gen_context(system_u:object_r:ssh_home_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/mnt/sd3/user/debug.conf --   gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/mnt/sd3/user/packages.conf   gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/mnt/sd3/user/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/mnt/sd3/user/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/mnt/sd3/user/kernel/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /mnt/sd4 nyquist
/mnt/sd4(/.*)?               gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd5 edison and nyquist
/mnt/sd5(/.*)?               gen_context(system_u:object_r:polaris_disk_license_t,s0)

ifdef(`edison_platform',`

# /mnt/sd6
/mnt/sd6(/.*)?               gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)?               gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /mnt/sd8
/mnt/sd8(/.*)?               gen_context(system_u:object_r:polaris_disk_recovery_t,s0)

# /mnt/sd9
/mnt/sd9(/.*)? gen_context(system_u:object_r:polaris_disk_recovery_t,s0)

')

ifdef(`nyquist_platform',`

# /mnt/sd6
/mnt/sd6(/.*)?               gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)?               gen_context(system_u:object_r:polaris_disk_recovery_t,s0)

#unmount script used ny Nyquist platform
/bin/cat9k_ssdUnmount.sh      gen_context(system_u:object_r:polaris_ssdUnmount_exec_t,s0)

')
```
ifdef(`quake_platform',` # /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
')

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash is symbolic link to /mnt/sd3/user
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /lic0 is symbolic link to /mnt/sd4
/lic0 gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /lic1 is symbolic link to /mnt/sd5
/lic1 gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /ngwc_config/nvram is symbolic link to /mnt/sd3/user
/ngwc_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 macallan
/flash1(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/user/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/user/.ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/flash1/user/.ssh/ssh_host.*_key\.pub gen_context(system_u:object_r:sshd_key_t,s0)
/flash1/user/.ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/flash1/user/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/flash1/user/debug.conf -- gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/flash1/user/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/flash1/user/kernel/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/.rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/flash1/user/.installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/flash1/user/.dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/user/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/flash1/TEMPLATE(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /flash2 macallan 9500h
/flash2(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/flash2/CRASH(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/flash2/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)

# /flash3 macallan
/flash3(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /flash4 macallan
/flash4(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /flash5 macallan
/flash5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash6 macallan, used for silent roll in macallan
/flash6(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /flash7 macallan, silent roll
/flash7(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan silent roll link
/cc_srdrv gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan /ngmod_config/nvram link will be labeled by systemd-tmpfiles
/ngmod_config gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/ngmod_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# remap_mem0 device
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)

# chdrvmmap device (MMAP Driver for ASIC Memory mapping)
/dev/chdrvmmap -c gen_context(system_u:object_r:polaris_chdrvmmap_device_t,s0)

# gettysburg_dev1 device
/dev/gettysburg_dev[0-9]* -c gen_context(system_u:object_r:polaris_gettysburg_fpga_device_t,s0)

# types that might be packages label by other policy
ifdef(`nyquist_platform',
/usr/binos/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
/usr/binos/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)
')
ifdef(`passport_platform',
/usr/binos/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
/usr/binos/bin/xcvr_test -- gen_context(system_u:object_r:polaris_xcvr_test_exec_t,s0)
/usr/binos/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
/usr/binos/bin/cmm -- gen_context(system_u:object_r:polaris_cmm_exec_t,s0)
/usr/binos/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
/usr/binos/bin/torchd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
/usr/binos/bin/swift_sampled -- gen_context(system_u:object_r:polaris_faked_exec_t,s0)
')

# PLEASE LOOK AT ME: why this file in /etc/init.d?
/etc/rc.d/init.d/cat9k_fpgahelper_funcs.sh -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/cat9k_kr_helper.sh -- gen_context(system_u:object_r:bin_t,s0)

# symbolic links in /platform-specific directory
/platform-specific/gryphon -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/gryphon_lite -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/prometheus -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/skyfox -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/vulcan -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/intrepid -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/martion -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/farscape -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/borg -l gen_context(system_u:object_r:root_t:s0)
/platform-specific/scorpion -l gen_context(system_u:object_r:root_t:s0)

# /dev/cisco/dplriomem device, Generic Memory map driver for mapping doppler IO memory to userspace
/dev/cisco/dplriomem -c gen_context(system_u:object_r:polaris_dplr_iomem_mmapdrv_device_t:s0)

/vol/disk0/(.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)
# /appstore_hd is symbolic link to /vol/disk0
/appstore_hd -l gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)
# /appstore_flash is symbolic link to /flash1
/appstore_flash -l gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)
# /rp_srdrv is symbolic link to /flash6/DPU
/rp_srdrv -l gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)
# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t:s0)
# /install is symbolic link to /flash1/INSTALL
/install -l gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)

# provide relabeling rules for /platform-specific/personality file
# otherwise, they cause conflicting specifications error during relabeling
/platform-specific/bigbang/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/nyquist/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/passport/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/starfleet/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/intrepid/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/martion/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/farscape/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/borg/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/scorpion/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/imperial/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/jura/lib/modules/(.*)? gen_context(system_u:object_r:modules_object_t:s0)
/platform-specific/bigbang/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/nyquist/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/passport/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/starfleet/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/intrepid/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/martion/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/farscape/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/borg/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/scorpion/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/imperial/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
/platform-specific/jura/lib/systemd/system/(.*)? gen_context(system_u:object_r:systemd_unit_file_t:s0)
# /objstore/.swtam for hybrid TAM access

/objstore(/.*)?  

-- gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

/objstore(\[^/\]*)
-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/bigbang/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/nyquist/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/passport/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/starfleet/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/intrepid/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/martian/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/farscape/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/borg/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/scorpion/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/imperial/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/jura/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/quake1/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/quake2/etc/selinux(/.*)?  

-- gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/bigbang/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/nyquist/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/passport/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/starfleet/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/intrepid/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/martian/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/farscape/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/borg/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/scorpion/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/imperial/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/jura/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/quake1/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/quake2/etc/hosts[^/]*  

-- gen_context(system_u:object_r:net_conf_t,s0)

/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/bigbang/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/nyquist/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/passport/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/starfleet/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/intrepid/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/martian/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/farscape/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/borg/verify_packages.sh  

-- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/nyquist/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/passport/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/starfleet/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/intrepid/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/martian/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/farscape/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/borg/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/scorpion/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/imperial/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/jura/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/dev/shm/sem.i2c_sem000 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem001 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem002 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem003 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem004 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem005 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem006 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem007 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.io_expander_semaphore gen_context(system_u:object_r:polaris_quake_i2c_t,s0)

# on pangea/bigbang platforms /dev/NVRAM block device is accessed
# by flashlib in iosd. It stores rommon vars
ifdef('bigbang_platform'.
/dev/NVRAM -b gen_context(system_u:object_r:polaris_flashlib_device_t)
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
')

/vol/usb1(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

/mnt/vbd[a-j]2(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/fpga_upgrade gen_context(system_u:object_r:polaris_fpga_upgrade_tmp_t,s0)

# /ucode0 9300 silent roll
/ucode0(/.*)? gen_context(system_u:object_r:polaris_disk_ucode0_t,s0)

#/dev/cisco/fpgaiomem device, Generic Memory map driver for mapping FPGA IO memory to userspace
/dev/cisco/fpgaiomem -c gen_context(system_u:object_r:polaris_fpga_iomem_mmapfpga_device_t,s0)

# nplusm-power file is located in /bootflash and needs to be accessed by cman-rp/IOSd
flash1/user/nplusm-power gen_context(system_u:object_r:polaris_nplusm_power_file_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.fc
No license file was found, but licenses were detected in source scan.

#  
# June 2020, Cuiyan Ma  
#  
# Copyright (c) 2020 by Cisco Systems, Inc.  
# All rights reserved  
#  
/usr/binos/conf/issu_comp_check.sh -- gen_context(system_u:object_r:polaris_issu_comp_check_exec_t,s0)  
/tmp/boottime_comp_check_tree_other_rp -d gen_context(system_u:object_r:polaris_issu_comp_check_tmp_t,s0)  

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.fc
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2020 by Cisco Systems, Inc.  
# All rights reserved  
#  
## <summary>Polaris repm Policy Rules.</summary>

########################################################################
## <summary>  
## Manage /tmp/replications files.  
## </summary>  
## <param name="domain">  
## <summary>  
## Domain allowed access.  
## </summary>  
## </param>  
#  
interface('polaris_repm_tmp_manage',  
  gen_require(  
    type polaris_repm_tmp_t;  
  ')  
  manage_files_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)  
  manage_dirs_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)  
')  

########################################################################
## <summary>
## Manage /dev/shm/mq-repm_peer_mq/ files.
## <summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_repm_peer_mqipc_manage', `gen_require( `type polaris_repm_peer_mqipc_t;` )
manage_files_pattern($1, polaris_repm_peer_mqipc_t, polaris_repm_peer_mqipc_t)
allow $1 polaris_repm_peer_mqipc_t:file map;
polaris_mqipc_create_name_dir($1, polaris_repm_peer_mqipc_t, repm_peer_mq)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.if
No license file was found, but licenses were detected in source scan.

dnl
 dnl April 2018, Victor Kamensky
 dnl
 dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
 dnl All rights reserved
 dnl
define(`mqipc_interface_map', `defn(format(``mqipc_interface_map[%s]'', `$1'))')
define(`mqipc_interface_map_set', `define(format(``mqipc_interface_map[%s]'', `$1'), `$2')')
define(`polaris_mqipc_service_server_many',
 `ifelse($3, `,`,
polaris_mqipc_create_name(dollarsone, $1, $2),
polaris_mqipc_create_name(dollarsone, $1, $2-b$3)
 `ifelse($3, 0, `polaris_mqipc_create_name(dollarsone, $1, $2)', `polaris_mqipc_service_server_many($1, $2, eval($3 - 1))))')
define(`polaris_mqipc_service_server_aux_full', `dnl

### Create $2 mqipc chanell.
### <summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
## <infoflow type="none"/>
#
interface(`polaris_mqipc_$1_create_name'',
gen_require(`
  type $2;
')
$3
")

classification: F2

########################################
## <summary>
##	Use $2 mqipc chanell.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_mqipc_$1_use'',
gen_require(`
  type $2;
')
polaris_mqipc_use(dollarsone, $2)
")

define(`polaris_mqipc_service_serverAux',``
  ifelse(mqipc_interface_map($1), `', `polaris_mqipc_service_serverAuxFull($1, $2, $3)')
  mqipc_interface_map_set($1, 1)
")

define(`polaris_mqipc_service_server',`dnl
  polaris_mqipc_service_serverAux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_serverMany(mqipc_label($1), $5, max_scope_map($3, $4, $2)))'
)

define(`polaris_mqipc_service_client',``

define(`polaris_mqipc_service_serverElastic_client',`dnl
  polaris_mqipc_service_serverAux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_serverMany(mqipc_label($1), $5, max_scope_map($4, elastic, $3)))'
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_if.m4

No license file was found, but licenses were detected in source scan.
March 2017, Victor Kamensky

March 2017, Victor Kamensky

# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved

/dev/lsmpi -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app0 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app1 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app2 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/tmp/pi(/.*)? gen_context(system_u:object_r:polaris_pi_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.fc
No license file was found, but licenses were detected in source scan.

November 2020, Christine Hwang

# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved

policy_module(polarisbbu, 1.0);

gen_require('
    type polaris_bbu_t;
')
polaris_btrace_data_manage(polaris_bbu_t)
polaris_chasfs_manage(polaris_bbu_t)
polaris_tdlresolve_read(polaris_bbu_t)
polaris_cpld_read(polaris_bbu_t)
polaris_ripc_sman_ui_serv_connect(polaris_bbu_t)

# Allow I2C Usage
polaris_i2c_use(polaris_bbu_t)
polaris_i2c_sem_manage(polaris_bbu_t)

# Allow sysfs read for platform ID
dev_list_sysfs(polaris_bbu_t)

# Allow bbu to access NVRAM for /flash0/bbu
fs_getattr_tmfs(polaris_bbu_t)
polaris_nvram_manage(polaris_bbu_t)
# Allow logger which is used for syslog messages
allow polaris_bbu_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_bbu_t)

# tty BBU device
type polaris_bbu_device_t;
dev_node(polaris_bbu_device_t)
Polaris_bbudev_use(polaris_bbu_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

#########################################################################
## <summary>
##      Execute a domain transition to run dmi_ports_fetch.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_dmi_ports_fetch_domtrans',`
      gen_require(`
         type polaris_dmi_ports_fetch_t, polaris_dmi_ports_fetch_exec_t;
      `
      )
      domtrans_pattern($1, polaris_dmi_ports_fetch_exec_t, polaris_dmi_ports_fetch_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
policy_module(polariscliagent, 1.0);

gen_require(
    type polaris_cli_agent_t;
)

polaris_btrace_data_manage(polaris_cli_agent_t)
polaris_crft_data_manage(polaris_cli_agent_t)
polaris_chasfs_manage(polaris_cli_agent_t)
polaris_tdlresolve_read(polaris_cli_agent_t)
polaris_tdlldb_list_dirs(polaris_cli_agent_t)
polaris_cpld_read(polaris_cli_agent_t)
polaris_flashlib_read(polaris_cli_agent_t)
polaris_ripc_sman_ui_serv_connect(polaris_cli_agent_t)
polaris_db_tdlldb_dir_use(polaris_cli_agent_t)
polaris_libciutil_build_config_directory(polaris_cli_agent_t)

# cli_agent /var/run pid file
    type polaris_cli_agent_var_run_t;
    files_pid_file(polaris_cli_agent_var_run_t)
    manage_files_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
    manage_dirs_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
    files_pid_filetrans(polaris_cli_agent_t, polaris_cli_agent_var_run_t, { file dir })

polaris_cfg_data_manage(polaris_cli_agent_t)

# Provide sys_resource capability as well for sys_pipe calls
allow polaris_cli_agent_t self:capability { dac_override sys_resource };

logging_send_syslog_msg(polaris_cli_agent_t)

#DB persistence
polaris_tdlldbpersist_setup(polaris_cli_agent_t)
polaris_tmp_tdlldbPersist_setup(polaris_cli_agent_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.te
No license file was found, but licenses were detected in source scan.
policy_module(polarisflashlib, 1.0);

# Flashlib policy (infra/flashlib)
type polaris_flashlib_lock_t;
files_type(polaris_flashlib_lock_t)

files_tmp_filetrans({ init_t polaris_extended_domain }, polaris_flashlib_lock_t, file, ".flashlock")

type polaris_flashlib_log_t;
files_type(polaris_flashlib_log_t)

files_tmp_filetrans(polaris_extended_domain, polaris_flashlib_log_t, file, "flashdev.log")

type polaris_flash_shm_t;
files_type(polaris_flash_shm_t)

filetrans_pattern(polaris_domain, tmpfs_t, polaris_flash_shm_t, file, "flash_shm")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.te

No license file was found, but licenses were detected in source scan.
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris CPLD Policy Rules.</summary>

# Quack Driver policy

### Quack Driver policy

## Work (read, write, ioctl) with /dev/quack

### <summary>
### Domain allowed access.
### </summary>

```
interface(`polaris_quack_dev_use',
  gen_require(`
    type device_t;
    type polaris_quack_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_quack_device_t)
  read_chr_files_pattern($1, device_t, polaris_quack_device_t)
)`
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.if

No license file was found, but licenses were detected in source scan.

# October 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris wstatsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl Mar 2020, Manu Roy
dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Petra Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/petramaps.m4
No license file was found, but licenses were detected in source scan.

#
# October 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariswstatsd, 1.0);

gen_require(
    type polaris_wstatsd_t;
')

polaris_btrace_data_manage(polaris_wstatsd_t)
polaris_crft_data_manage(polaris_wstatsd_t)
polaris_chasfs_manage(polaris_wstatsd_t)
polaris_tdlresolve_read(polaris_wstatsd_t)
polaris_tdldb_list_dirs(polaris_wstatsd_t)
polaris_cpld_read(polaris_wstatsd_t)
polaris_lua_read(polaris_wstatsd_t)
polaris_flashlib_read(polaris_wstatsd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wstatsd_t)
polaris_db_tdlldb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setopt getattr };
corenet_udp_bind_generic_node(polaris_wstatsd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wstatsd_t)
polaris_socketat_nsfs_read(polaris_wstatsd_t)
policy_module(polarisfnfagg, 1.0);

gen_require(' 
    type polaris_fnf_agg_t;
')

polaris_btrace_data_manage(polaris_fnf_agg_t)
polaris_crft_data_manage(polaris_fnf_agg_t)
polaris_chasfs_read(polaris_fnf_agg_t)
polaris_tdlresolve_read(polaris_fnf_agg_t)
polaris_lua_read(polaris_fnf_agg_t)
polaris_flashlib_read(polaris_fnf_agg_t)
polaris_cpld_read(polaris_fnf_agg_t)
polaris_ripc_sman_ui_serv_connect(polaris_fnf_agg_t)
polaris_db_tldldb_dir_use(polaris_fnf_agg_t)

allow polaris_fnf_agg_t self:capability [ dac_override dac_read_search ];

type polaris_fnf_agg_tmp_t;
files_tmp_file(polaris_fnf_agg_tmp_t)
files_tmp_filetrans(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, dir, "fnf_agg")
manage_files_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)
manage_dirs_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)

# allow sending files over HTTP
corenet_tcp_connect_http_port(polaris_fnf_agg_t)
sysnet_read_config(polaris_fnf_agg_t)

# allow UDP connection for punting fnf records
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg };
corenet_udp_bind_generic_node(polaris_fnf_agg_t)

# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris VXE Platform Policy Rules.</summary>

interface('polaris_objstore_sem_use',
    gen_require(
        type polaris_objstore_sem_t;
    )
    allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
    mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
    manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
)

# Work (read, write, ioctl) with /dev/vda1 device
interface('polaris_grub_efi_use',
    gen_require(
        allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
        mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
        manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
    )
)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22823
type polaris_grub_efi_t;

write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)

######################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##     <summary>
##             Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_grub_efi_search',
    gen_require(',
        type polaris_grub_efi_t;

search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)

######################################
## <summary>
## Read VXE install info files
## </summary>
## <param name="domain">
##     <summary>
##             Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_vxeinstall_info_read',
    gen_require(',
        type polaris_vxeinstall_info_t;

read_files_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
list_dirs_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)

######################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##     <summary>
##             Domain allowed access.
interface('polaris_grub_info_read',
  gen_require(
    type polaris_grubver_t;
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
  )
  read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
  read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
  list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
 )

interface('polaris_grubcfg_manage',
  gen_require(
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
  )
  manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
 )

interface('polaris_grub_info_read',
  gen_require(
    type polaris_grubver_t;
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
  )
  read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
  read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
  list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
 )

interface('polaris_grubcfg_manage',
  gen_require(
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
  )
  manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
 )
```c
#define HAVE_HANET

#include<sys/file.h>
#include<sys/ioctl.h>

#ifndef __HANET_H__
#define __HANET_H__

#define HANET_MAJOR  200
#define HANET_MINOR  300
#define HANET;?></

#include<unistd.h>

int hanet_ioctl(int fd, int request, void **argp)
{
    int ret;
    ret = ioctl(fd, request, *argp);
    return ret;
}

#endif
```

---

No license file was found, but licenses were detected in source scan.

---

March 2017, Victor Kamensky

# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved

```bash
/usr/bin/os/conf/pman.sh -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/usr/bin/pman           -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/bin/gdbserver          -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
```
dnl

dnl April 2018, Victor Kamensky

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved

dnl Macallan Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 9)
max_bay_map_set(`fp', `per_bay', 9)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 10)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 10)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set("cc", `elastic', BPROC_WNCD, 0)
max_elastic_map_set("fp", `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/macallanmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisissustack, 1.0);

gen_require(
    type polaris_issu_stack_t;
)

corecmd_exec_bin(polaris_issu_stack_t)
corecmd_exec_shell(polaris_issu_stack_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_issu_stack_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_stack_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_issu_stack_t)

# work with /tmp files (/tmp/issu_stk)
type polaris_issu_stack_tmp_t;
files_tmp_file(polaris_issu_stack_tmp_t)
manage_dirs_pattern(polaris_issu_stack_tmp_t, tmp_t, polaris_issu_stack_tmp_t)
manage_files_pattern(polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_fifo_files_pattern(polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
files_tmp_filetrans(polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t, file)
files_tmp_filetrans(polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t, dir, "issu_stk")

allow polaris_issu_stack_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_issu_stack_t)
polaris_chasfs_manage(polaris_issu_stack_t)
polaris_cpld_read(polaris_issu_stack_t)
polaris_proc_rmonbifo_read(polaris_issu_stack_t)
polaris_rmonbifo_tmp_read(polaris_issu_stack_t)
polaris_boot_tmp_read(polaris_issu_stack_t)
polaris_tdlresolve_read(polaris_issu_stack_t)
polaris_disk_crashinfo_getattr(polaris_issu_stack_t)

allow polaris_issu_stack_t self:capability dac_override;

polaris_read_debug_conf(polaris_issu_stack_t)
polaris_flashlib_read(polaris_issu_stack_t)

allow polaris_issu_stack_t self:process setpgid;

# modify tdlresolve epoch
polaris_tdlresolve_manage(polaris_issu_stack_t)

#rsync_exec(polaris_issu_stack_t)
gen_require('  
    type rsync_t;
  ')
rsync_entry_domtrans(polaris_issu_stack_t, rsync_t)
allow rsync_t polaris_issu_stack_t:process sigchld;

# execute rsync over eobc: /usr/binos/conf/mcp_chvrf.sh eobc rsync
polaris_chvrf_domtrans(polaris_issu_stack_t)
# from chvrf.sh code executes rsync command
gen_require('  
    type polaris_chvrf_t;
  ')
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
# LOOK AT ME: issu_stack.sh leaks fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
manage_fifo_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
write_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_engine_domtrans(polaris_issu_stack_t)
# LOOK AT ME: isse_stack.sh leak fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
gen_require('  
    type polaris_install_engine_t;
  ')
read_fifo_files_pattern(polaris_install_engine_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_tmp_read(polaris_issu_stack_t)

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_issu_stack_t)
# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_issu_stack_t)

# reads /tmp/remote_sw_verinfo.txt
gen_require('  
    type rsync_tmp_t;
')
read_files_pattern(polaris_issu_stack_t, rsync_tmp_t, rsync_tmp_t)

# watch over /tmp/tdlresolve/work
polaris_tdlresolve_watch(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua,epoch_endpoint_update.lua
polaris_lua_read(polaris_issu_stack_t)

# issu_stack.sh access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua which merges epoch files, local.epoch and inyterchassis/.epcioh file
# luajit/usr/binos/conf/epoch_merge.lua--base-file/tmp/tdlresolve/epoch_dir/local.epoch
#--merge-file/tmp/tdlresolve/work/inter
allow polaris_issu_stack_t self:process execmem;

#access to /tmp/installer/
polaris_install_tmp_manage(polaris_issu_stack_t)

#access to /tmp/ufs/harddisk
polaris_ncd_tmp_read(polaris_issu_stack_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_stack_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarislsmpi, 1.0);

############################################################
# Polaris lsmpi
############################################################
type polaris_lsmpi_device_t;
dev_node(polaris_lsmpi_device_t)

# note polaris_sysfs_contdev_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

# punt/inject working through unix domain sockets
type polaris_pi_uds_t;
files_tmp_file(polaris_pi_uds_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris mdt_pubd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisemd, 1.0);

gen_require(‘
    type polaris_emd_t;
’)

polaris_btrace_data_manage(polaris_emd_t)
polaris_crft_data_manage(polaris_emd_t)
polaris_chasfs_manage(polaris_emd_t)
polaris_tdlresolve_read(polaris_emd_t)
polaris_tdldb_list_dirs(polaris_emd_t)
polaris_cpld_read(polaris_emd_t)
polaris_flashlib_read(polaris_emd_t)
polaris_ripc_sman_ui_serv_connect(polaris_emd_t)

polaris_cpld_dev_use(polaris_emd_t)
dev_read_sysfs(polaris_emd_t)
polaris_obfl_data_manage(polaris_emd_t)
polaris_persistent_read(polaris_emd_t)

allow polaris_emd_t self:capability dac_override;

ifdef('mcp_family','
polaris_scooby_dev_use(polaris_emd_t)
# read/write /sys/bus/i2c/drivers/pca9544/2-0077/reg_control and others
dev_getattr_sysfs_fs(polaris_emd_t)
dev_rw_sysfs(polaris_emd_t)
')

logging_send_syslog_msg(polaris_emd_t)

ifdef('qwlc_platform','
# on qwlc read eeprom through i2c like /sys/devices/i2c-12/12-0050/eeprom
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

#sparrow needs access to /dev/i2c*
ifdef('sparrow_platform','
gen_require('
    type polaris_cm_cc_tmpfs_t;
')
polaris_i2c_use(polaris_emd_t)
polaris_i2c_sem_manager(polaris_emd_t)
mmap_files_pattern(polaris_emd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

ifdef('katar_platform','
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris polarsidroputil Policy Rules.</summary>

### <summary>
Manage droputils temporary files and directories in /tmp.
</summary>
### <param name="domain">
Domain allowed access.
</param>
### </summary>
### </param>
#
interface('polaris_droputil_manage_tmp_files',
  gen_require(
    type polaris_droputil_tmp_t;
  ')

manage_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
read_lnk_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
')

### <summary>
Watch droputil_tmp directories
</summary>
### <param name="domain">
Domain allowed access.
</param>
### </summary>
### </param>
#
interface('polaris_droputil_tmp_watch',
  gen_require(
    type polaris_droputil_tmp_t;
  ')
    allow $1 polaris_droputil_tmp_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2016-2019 by Cisco Systems, Inc.  
# All rights reserved  
#  
/tmp/iosd_level -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)  
/tmp/stack_apcount -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarism.fc  
No license file was found, but licenses were detected in source scan.

dnl  
dnl April 2018, Victor Kamensky  
dnl  
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.  
dnl All rights reserved  
dnl  
define(`polaris_rpc_service_server',)`')  
define(`polaris_rpc_service_client',`')

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_if.m4  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_fc.m4  
No license file was found, but licenses were detected in source scan.

dnl  
dnl December 2018, Victor Kamensky  
dnl  
dnl Copyright (c) 2018-2020 by Cisco Systems, Inc.  
dnl All rights reserved  
dnl  
dnl Nyquist Platform Max Bay Limits  
max_bay_map_set(`rp', `per_bay', 0)  
max_bay_map_set(`cc', `per_bay', 0)  
max_bay_map_set(`fp', `per_bay', 0)

  
dnl in elastic scope each process has its own value  
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)  
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)  
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

  
max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)  
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(fp, elastic, BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake1maps.m4
No license file was found, but licenses were detected in source scan.

#
# Sep 2020, Sridhar C
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polaristlscd, 1.0);

gen_require(
    type polaris_tlscd_t;
    type net_conf_t;
    ') 

polaris_btrace_data_manage(polaris_tlscd_t)
polaris_chasfs_manage(polaris_tlscd_t)
polaris_tldresolve_read(polaris_tlscd_t)
polaris_tlddb_list_dirs(polaris_tlscd_t)
polaris_lua_read(polaris_tlscd_t)
polaris_flashlib_read(polaris_tlscd_t)
polaris_chasfs_read(polaris_tlscd_t)
polaris_cpld_read(polaris_tlscd_t)
polaris_db_tlddb_dir_use(polaris_tlscd_t)

# Related to vrf support of the socket
polaris_lfts_dev_use(polaris_tlscd_t)
polaris_socketat_nsfs_read(polaris_tlscd_t)
polaris_vrf_shm_manage(polaris_tlscd_t)

# TLSCd reads TCP/UDP ports open in VRF_GLOBAL for packet forwarding
# to IOSd or BinOS applications.
kernle_read_net_sysctls(polaris_tlscd_t)
kernle_read_network_state(polaris_tlscd_t)
kernle_search_network_sysctl(polaris_tlscd_t)
allow polaris_tlscd_t net_conf_t:dir search;
allow polaris_tlscd_t net_conf_t:file { getattr open read watch };

# UDS related sockets are:
# /tmp/tlscd/iosd_to_tlscd_0_socket
# /tmp/tlscd/tlscd_to_iods_0_socket
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind
type polaris_tlscd_uds_t;
files_tmp_file(polaris_tlscl_udc_t)
polaris_tlscl_udc_manage(polaris_tlscl_t)
polaris_iosd_dgram_send(polaris_tlscl_t)
allow polaris_tlscl_t self:unix_dgram_socket { bind create };

# Tunnel and TLS TCP connection related related
corenets_rw_tun_tap_dev(polaris_tlscl_t)
allow polaris_tlscl_t self:tun_socket create;
corenets_tcp_connect_all_ports(polaris_tlscl_t)

# errmsg
logging_send_syslog_msg(polaris_tlscl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`polaris_database_aux',`dnl
type $1;
polaris_tdldb_type($1)
')

define(`polaris_database',`dnl
polaris_database_aux(database_label($1))
')

define(`polaris_database_process_aux_full',`dnl
gen_require(`
   type $2;
polaris_db_tdldb_$1_use($2)
')

define(`polaris_database_process_aux',`dnl
ifelse(database_use_map($1, $2), `, `polaris_database_process_aux_full($1, $2))
database_use_map_set($1, $2, 1)
')

define(`polaris_database_process',`dnl
polaris_database_process_aux(database_stem($1), process_label($2))dnl
')
# January 2021, Gabriel Lee, Shawn Liu
#
# Copyright (c) 2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris ezmanage Policy Rules.</summary>

```
#Transition to ezmanage
##
##
```

interface(`polaris_ezmanage_domtrans',
  gen_require(`
    type polaris_ezmanage_t, polaris_ezmanage_exec_t;
  `)
)

domtrans_pattern($1, polaris_ezmanage_exec_t, polaris_ezmanage_t)
`

## <summary>Read files under polaris_ezmanage_file_t label</summary>

```
# Read files under polaris_ezmanage_file_t label
##
##
```

interface(`polaris_manage_ezmanage_files',
  gen_require(`
    type polaris_ezmanage_file_t;
  `)
)

manage_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
read_link_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
manage_dirs_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
)

#################################################
## <summary>
## Manage files under polaris_ezmanage_var_run_t label
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##<rolecap/>
#
interface('polaris_manage_ezmanage_var_run_files',
  gen_require(
    type polaris_ezmanage_var_run_t;
  ')
)

manage_sock_files_pattern($1, polaris_ezmanage_var_run_t, polaris_ezmanage_var_run_t);
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscedge, 1.0);

# /tmp/xml handling
type polaris_cedge_xml_tmp_t;
files_tmp_file(polaris_cedge_xml_tmp_t)

# PLEASE LOOK AT ME very strange choice of directory name
# /tmp/tmp/ handling
type polaris_cedge_tmp_t;
files_tmp_file(polaris_cedge_tmp_t)

# /etc/viptela handling
type polaris_cedge_etc_t;
files_config_file(polaris_cedge_etc_t)
# /dev/shm handling

type polaris_cedge_tmpfs_t;
files_tmpfs_file(polaris_cedge_tmpfs_t)

# /tmp/.econfd2sysmgr-ipc handling

type polaris_econfd2sysmgr_tmp_t;
files_tmp_file(polaris_econfd2sysmgr_tmp_t)

# vconfd_script_reboot.sh policy
polaris_vconfd_domain_template(vconfd_reboot)

# vconfd_script_if_reset.sh policy
polaris_vconfd_domain_template(vconfd_ifreset)

# vconfd_script_get_config.sh policy
polaris_vconfd_domain_template(vconfd_cfg)

###########################################################################
# vconfd_script_*_stats policy
polaris_vconfd_domain_template(vconfd_history)
corecmd_exec_bin(polaris_vconfd_history_t)

# performs 'rm /tmp/xml/Pfr/Pfr-1600801323.xml.gz'....but, do not know where
polaris_cedge_tmp_manage(polaris_vconfd_history_t)

# performs 'ls -rt /tmp/xml/UtdUrlf-IOX' etc.
polaris_cedge_xml_tmp_manage(polaris_vconfd_history_t)

# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_history_t)

###########################################################################
# software policy
polaris_vconfd_domain_template(vconfd_software)

# nms policy
polaris_vconfd_domain_template(vconfd_nms)

# device policy
polaris_vconfd_domain_template(vconfd_device)

# internal policy
polaris_vconfd_domain_template(vconfd_reset)

# cert policy
polaris_vconfd_domain_template(vconfd_cert)
# csr policy
polaris_vconfd_domain_template(vconfd_csr)

# vconfd_script_show_csr.sh invokes vlog
# /bin/sh vlog ....
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_vconfd_csr_t)
corecmd_exec_bin(polaris_vconfd_csr_t)

# reads /usr/share/viptela/server.csr
polaris_bootflash_read(polaris_vconfd_csr_t)

# serial vsmart-upload vedge-upload policy
polaris_vconfd_domain_template(vconfd_serialnum)

# crash policy
polaris_vconfd_domain_template(vconfd_crash)

# aaa policy
polaris_vconfd_domain_template(vconfd_aaa)

# container policy
polaris_vconfd_domain_template(vconfd_contr)

# iox policy
polaris_vconfd_domain_template(vconfd_iox)

# utd policy
polaris_vconfd_domain_template(vconfd_utd)

# geo policy
polaris_vconfd_domain_template(vconfd_geo)

# vconfd_script_vnping.sh, vconfd_script_vping.sh, vconfd_script_vtraceroute.sh
# scripts policy
polaris_vconfd_domain_template(vconfd_net)

# runs ip command
sysnet_domtrans_ifconfig(polaris_vconfd_net_t)
# runs confd_cmd
corecmd_exec_bin(polaris_vconfd_net_t)
polaris_confd_connect(polaris_vconfd_net_t)
# /tmp/polaris_vconfd_cert_t handling

type polaris_vconfd_cert_tmp_t;

files_tmp_file(polaris_vconfd_cert_tmp_t)

files_tmp_filetrans(polaris_vconfd_cert_t, polaris_vconfd_cert_tmp_t, { file dir })

polaris_vconfd_cert_tmp_manage(polaris_vconfd_cert_t)

# permit access to polaris_vconfd_cert_t
allow polaris_vconfd_cert_t self:capability { chown dac_override };

logging_send_syslog_msg(polaris_vconfd_cert_t)

corecmd_sbin_entry_type(polaris_vconfd_cert_t)
corecmd_shell_entry_type(polaris_vconfd_cert_t)

fs_read_nsfs_files(polaris_vconfd_cert_t)

logging_create_devlog_dev(polaris_vconfd_cert_t)

# to access the /bootflash: as the cert is stored in /bootflash:
# IOS cert related CLIs can create/store the certs in /bootflash with any
# file name(s), so allow generic access to bootflash.
polaris_bootflash_manage(polaris_vconfd_cert_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vconfd_cert_t)
polaris_cedge_reset_ns(polaris_vconfd_cert_t)

# needed for accessing /tmp/chassis/local/rp/chasfs/midplane/chassis_model
polaris_chasfs_read(polaris_vconfd_cert_t)

#access to /etc/viptela
gen_require('
    type polaris_nginx_t;
    
')
polaris_cedge_etc_manage(polaris_nginx_t)

# For "confd_cmd", allow polaris_vconfd_cert_t, which is not a Binos process,
# to access polaris_confd_ipc_ripc_port_t.
polaris_ripc_confd_ipc_connect(polaris_vconfd_cert_t)

# permit to access /var/run/netns/default
sysnet_manage_ifconfig_run(polaris_vconfd_cert_t)

# vconfd_script_show_root_ca_cert.sh performs operations on
# /tmp/vconfd/root_cert.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_cert_t)

fs_getattr_tmpfs(polaris_vconfd_cert_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.te

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris CPLD Policy Rules.</summary>

###############################################################################
# CPLD Driver policy
###############################################################################

###############################################################################
## <summary>
##      Read cpld files in /sys directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </summary>
#
interface(`polaris_cpld_read`,
  gen_require(`
    type polaris_sysfs_cpld_t;
    type sysfs_t;
`
  )
  read_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file { read getattr };
  list_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
`)

###############################################################################
## <summary>
##      Write cpld files in /sys directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpld_dev_read',`
  gen_require(`
    type device_t;
    type polaris_cpld_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
  read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
  allow $1 polaris_cpld_device_t:chr_file map;
`)

================================
## <summary>
## Work (read, write, ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpld_dev_use',`
  gen_require(`
    type device_t;
    type polaris_cpld_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
  read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
  allow $1 polaris_cpld_device_t:chr_file map;
`)

================================
## <summary>
## Work (read, ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
type device_t;
type polaris_cpld_device_t;
')
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscrankshaft, 1.0);

# spa devices i.e sys_platform_module_1ng
  type polaris_spa_device_t;
  dev_node(polaris_spa_device_t)

# htdp device
  type polaris_htdp_device_t;
  dev_node(polaris_htdp_device_t)

# bde device (/dev/linux-user-bde)
  type polaris_bde_device_t;
  dev_node(polaris_bde_device_t)

# dash fpga device (/dev/dash_fpga)
  type polaris_dash_device_t;
  dev_node(polaris_dash_device_t)

# nios device (/dev/nios)
  type polaris_nios_device_t;
  dev_node(polaris_nios_device_t)

# qae device (/dev/qae_mem)
  type polaris_qae_device_t;
  dev_node(polaris_qae_device_t)

# moka fpga device (/dev/moka_fpga)
  type polaris_mokafpga_device_t;
  dev_node(polaris_mokafpga_device_t)

# sirius fpga device (/dev/sirius_fpga)
type polaris_siriusfpga_device_t;
dev_node(polaris_siriusfpga_device_t);

# moka nim device (/dev/nim_dm*)
type polaris_nim_dm_device_t;
dev_node(polaris_nim_dm_device_t)

# /dev/bp_async device on nanook platform
type polaris_bp_async_device_t;
dev_node(polaris_bp_async_device_t)

# /dev/sparrow_psu device on sparrow platform
type polaris_sparrow_psu_device_t;
dev_node(polaris_sparrow_psu_device_t)

# /dev/nutella_fpga device on nutella platform
type polaris_nutella_fpga_device_t;
dev_node(polaris_nutella_fpga_device_t)

# /dev/huron_fpga on Sumatra platform
type polaris_huron_device_t;
dev_node(polaris_huron_device_t)

# /dev/dplr_sumatra on Sumatra platform
type polaris_sumatra_doppler_device_t;
dev_node(polaris_sumatra_doppler_device_t)

# /tmp/sata_status for mSATA
type polaris_sata_status_tmp_t;
files_tmp_file(polaris_sata_status_tmp_t)

# TSN tsn_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_NGWC_FED - crankshaft_platform.tdl refers it but
# tsn_platform.tdl does not contain such definition.
ifdef(`tsn_platform',`
type polaris_ngwc_fed_t;
')

# Supernova supernova_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_FM_RP - crankshaft_platform.tdl refers it but
# supernova_platform.tdl does not contain such definition.
ifdef(`supernova_platform',`
type polaris_fman_rp_t;
')

# Nanook
The Nanook platform does not support SDWAN and so the SDWAN processes are not defined in the nanook_platform.tdl. However, it uses the database_def's from the crankshaft_platform.tdl, which do have the SDWAN databases. So we need to add the processes to the SELinux policy.

```c
ifdef(`nanook_platform',`

type polaris_cfgmgr_t;
type polaris_cxp_t;
type polaris dbg.d_t;
type polaris_fpm_t;
type polaris_ftm_t;
type polaris_omp_t;
type polaris sdavc_proxy_t;
type polaris_ttm_t;
type polaris_vdaemon_t;
type polaris_htx_t;
')
```

# load_usbnet policies start

# /usr/binos/conf/load_usbnet.sh is invoked to load usb network driver module
# kernel/drivers/net/usb/usbnet.ko for TSN.

```
polaris_process_domain_template(load_usbnet)
```

# allow polaris_load_usbnet_t access to execute programs in system bin dirs, load usb.net.ko for USB network interface for TSN and allow read access
# to /sys/class/net and /proc/cmdline
# LOOK AT ME: /tmp/rp/pvp/work/inot_fifo inotifywait fd leak to child
corecmd_exec_bin(polaris_load_usbnet_t)
modutils_exec_insmod(polaris_load_usbnet_t)
modutils_list_module_config(polaris_load_usbnet_t)
modutils_read_module_config(polaris_load_usbnet_t)
sysnet_manage_config_dirs(polaris_load_usbnet_t)
polaris_pvp_stdin_read(polaris_load_usbnet_t)
files_read_kernel_modules(polaris_load_usbnet_t)
dev_rw_sysfs(polaris_load_usbnet_t)
kernell_read_system_state(polaris_load_usbnet_t)

# stdout inherited from unconfined_service that might call it
polaris_unconfined_service_fifo_file_manage(polaris_load_usbnet_t)

# handle /tmp/load_usbnet_intf
type polaris_load_usbnet_tmp_t;
files_tmp_file(polaris_load_usbnet_tmp_t)
files_tmp_filetrans(polaris_load_usbnet_tmp_t, polaris_load_usbnet_tmp_t, file)
manage_files_pattern(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, polaris_load_usbnet_tmp_t)

# allow read of /etc/passwd
# allow map permission
# passwd_file_t:file { getattr open read }
auth_map_passwd(polaris_load_usbnet_t)

############################################################################
# load_usbnet policies end
############################################################################

############################################################################
# CLI: show platform hardware msata <status/info>
############################################################################
ifdef(`crankshaft_family',`
  gen_require(`
    type polaris_sysfs_ggpio_t;
    type polaris_msata_info_t;
  `)
)
polaris_utility_domain_template(msata_info)
polaris_bexecute_domain(polaris_msata_info_t, polaris_msata_info_exec_t)
# need write for pipes like "pipe:[70623]"
corecmd_exec_bin(polaris_msata_info_t)
# need write/getattr for pipes like "pipe:[71322]"
polaris_cmrp_use_fifo(polaris_msata_info_t)
fstools_domtrans(polaris_msata_info_t)
# allow use of mSATA device
polaris_nvram_manage(polaris_msata_info_t)
# allow self
allow polaris_msata_info_t self:capability sys_rawio;
allow polaris_msata_info_t self:process setfscreate;
# allow /usr/sbin/smartctl to access /sys/devices/platform/cpn-110-master/
# cpn-110-master:config-space/f2540000.sata/ata2/host1/scsi_host/host1/proc_name and
# /sys/devices/platform/cpn-110-master/cpn-110-master:config-space/f2540000.sata/
# ata2/host1/target1:0:0
read_files_pattern(polaris_msata_info_t, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
dev_list_sysfs(polaris_msata_info_t)
# allow smartctl to access to /dev/sda to determine its lifetime
storage_raw_read_fixed_disk(polaris_msata_info_t)

# CLI: show platform hardware slot p[x] fan eeprom
polaris_utility_domain_template(smart_fan)
polaris_bexecute_domain(polaris_smart_fan_t, polaris_smart_fan_exec_t)
# allow /ls command
corecmd_exec_bin(polaris_smart_fan_t)
# allow read of /etc/passwd
auth_map_passwd(polaris_smart_fan_t)
# allow read of /sys/devices/platform/nios/*
dev_read_sysfs(polaris_smart_fan_t)
# need write/getattr access for pipes like "pipe:[86004]"
polaris_cmrp_use_fifo(polaris_smart_fan_t)

# sumatra and sparrow platforms need map access for "show platform hardware msata status | lifetime"
auth_map_passwd(polaris_msata_info_t)
')

ifdef('sumatra_platform',
# During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
files_tmp_filetrans(polaris_msata_info_t, polaris_sata_status_tmp_t, file)
manage_files_pattern(polaris_msata_info_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t)
')

#################################################################
# show platform hardware msata end
#################################################################

#type for /dev/qcqmiX
type qcqmi_device_t;
dev_node(qcqmi_device_t);

# sm_nim_adpt device (/dev/sm_nim_adpt_xxx )
type polaris_sm_nim_adpt_device_t;
dev_node(polaris_sm_nim_adpt_device_t)

# dio device
type polaris_dio_device_t;
dev_node(polaris_dio_device_t)

# tty NMEA device
type polaris_tty_NMEA_device_t;
dev_node(polaris_tty_NMEA_device_t)

# memory blocks and gpp on Nutella-XE platform
type polaris_nutella_memory_block_p7_t;
dev_node(polaris_nutella_memory_block_p7_t)

type polaris_nutella_memory_block_p1_t;
dev_node(polaris_nutella_memory_block_p1_t)

type polaris_nutella_memory_block_boot_t;
dev_node(polaris_nutella_memory_block_boot_t)

type polaris_nutella_gp0_t;
dev_node(polaris_nutella_gp0_t)
type polaris_nutella_gpp_t;
dev_node(polaris_nutella_gpp_t)

# nim device (/dev/nim Phy)
type polaris_nim_phy_device_t;
dev_node(polaris_nim_phy_device_t)

type polaris_cwan_svr_var_run_t;
files_pid_file(polaris_cwan_svr_var_run_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris epc_ws_liaison Policy Rules.</summary>

interface(`polaris_epc_ws_liaison_tmp_read',
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    `)
    read_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

########################################
## <summary>
##      Allow to open, write, add_name and write /tmp/epc_ws/fed_to_wif_pipe file.
##      Allow to create and write /tmp/epc_ws dir.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and ngwc-fed fifo_file interaction.
##      </summary>
## </param>
#
interface(`polaris_epc_ws_liaison_fifo_manage',
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
    manage_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)


## <summary>
## Allow to open, read "/tmp/epc_ws/wif_to_ts_pipe" fifo file.
## </summary>
## <param name="domain">
## epc_ws_liaison and dumpcap fifo_file interaction.
## </param>
interface(`polaris_epc_ws_liaison_fifo_read',
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    ')
    read_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

## <summary>
## Allow to write, create, unlink "/tmp/*.pcapng" temporary files.
## </summary>
## <param name="domain">
## polaris_wireshark_show fifo_file interaction.
## </param>
interface(`polaris_wireshark_show_tmp_manage',
    gen_require(`
        type polaris_wireshark_show_tmp_t;
    ')
    manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
')

## <summary>
## Create, read, and write temporary files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface(`polaris_epc_ws_liaison_tmp_file',
    gen_require(`
        type polaris_epc_ws_liaison_tmp_file_t;
    ')
    read_write_files_pattern($1, polaris_epc_ws_liaison_tmp_file_t, polaris_epc_ws_liaison_tmp_file_t)
')

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22850
type polaris_epc_ws_liaison_tmp_t;
')
files_tmp_filetrans($1, polaris_epc_ws_liaison_tmp_t, dir, "epc_ws")
'}

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.if
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscxp, 1.0);

gen_require(' type polaris_cxp_t; ')
polaris_chasfs_read(polaris_cxp_t)
polaris_cpld_read(polaris_cxp_t)
logging_send_syslog_msg(polaris_cxp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_cxp_t)
corecmd_exec_bin(polaris_cxp_t)
corecmd_exec_shell(polaris_cxp_t)
auth_use_nsswitch(polaris_cxp_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cxp_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cxp_t)

# /var/run/cxp dir and pid
type polaris_cxp_var_run_t;
files_pid_file(polaris_cxp_var_run_t)
manage_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_dirs_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_sock_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
files_pid_filetrans(polaris_cxp_t, polaris_cxp_var_run_t, { file dir sock_file })
polaris_ttm_var_sock_write(polaris_cxp_t)
# vip_execute_nowait uses setpgid
allow polaris_cxp_t self:process setpgid;

# cxp may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_cxp_t)

# Allow /usr//cxpd manages /usr/binos/conf/global.service.conf and
# /tmp/tdlresolve/
polaris_tdlresolve_manage(polaris_cxp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/viptela-start.sh -- gen_context(system_u:object_r:polaris_cedge_start_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_te.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformdbauto, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_te.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky #
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
# # All rights reserved #

## <summary>Polaris vman Policy Rules.</summary>

########################################
## <summary>
##      Read files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_tmp_read',
   gen_require(
      type polaris_vman_tmp_t;
   )
   read_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
)

########################################
## <summary>
##      Write files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_tmp_write',
   gen_require(
      type polaris_vman_tmp_t;
   )
   write_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
### <summary>
### Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>#
interface('polaris_vman_tmp_manage',
  gen_require(
    type polaris_vman_tmp_t;
  ')
  manage_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
  manage_dirs_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
')

### <summary>
### Read files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>#
interface('polaris_disk_vman_read',
  gen_require(
    type polaris_disk_vman_t;
  ')
  read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
  read_lnk_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
  list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
')

### <summary>
### List files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
# interface('polaris_disk_vman_dir_list',
    gen_require(
        type polaris_disk_vman_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
    )
    list_dirs_pattern($1, [ polaris_disk_vman_t polaris_disk_bootflash_t polaris_disk_harddisk_t ],
polaris_disk_vman_t)
)

#######################################
## <summary>
##      Operate on @vman_domain_socket unix socket. Look at
## vman_clnt_msg_transport_init function in vman_clnt_msg_uds.c
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vman_use_client_socket',
    gen_require(
        type polaris_vman_t;
    )
    allow $1 polaris_vman_t:unix_stream_socket connectto;
)

#######################################
## <summary>
##      Manage /tmp/xml/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vman_log_files_manage',
    optional_policy(
        gen_require(
            type polaris_vman_log_t;
        )
        manage_files_pattern($1, polaris_vman_log_t,polaris_vman_log_t)
manage_dirs_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
')
')

#################################################################
## <summary>
##    Read files of type polaris_var_vman_t (e.g., /var/virtual-instance)
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
# interface('polaris_vman_var_read',
        gen_require(
            type polaris_var_vman_t;
        )
        list_dirs_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
        read_files_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
')

#################################################################
## <summary>
##    Write into fifo file created by vman, typical case when
##    vman starts script under popen in different domain.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
# interface('polaris_vman_use_fifo',
        gen_require(
            type polaris_vman_t;
        )
        read_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
        write_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
')

#################################################################
## <summary>
##    Check existence (getattr) of vman btrace file (i.e
##    polaris_vman_bt_t)
## </summary>

## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_bt_getattr',
    gen_require(`
        type polaris_vman_bt_t;
        type polaris_btrace_base_t;
    ')
    getattr_files_pattern($1, polaris_btrace_base_t, polaris_vman_bt_t)
')

################################
## <summary>
##      Allow domain to write to pipes connected to virtlogd_t.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_virtlog_allow',
    gen_require(`
        type virtlogd_t;
    ')
    #allow domain to write to pipes
    allow $1 virtlogd_t:fifo_file rw_inherited_fifo_file_perms;
    #allow virtlogd_t to search dirs /var/log/libvirt/qemu
    logging_search_logs(virtlogd_t)
')

################################
## <summary>
##      Allow polaris_vman_t to kill process from domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_kill_process',
    gen_require(`
type polaris_vman_t;
)
    allow polaris_vman_t $1:process sigkill;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris tws Policy Rules.</summary>

######################################
## <summary>
##      Allow the specified domain to manage KGV data files
## I.e /tmp/package_biv_sums.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_kgv_data_manage',
    gen_require(
        type polaris_kgv_data_t;
    )
    manage_files_pattern($1, polaris_kgv_data_t, polaris_kgv_data_t)
    allow $1 polaris_kgv_data_t:file map;
')

######################################
## <summary>
##      Execute a domain transition to run code_sign_verify
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#

interface('polaris_code_verify_domtrans',
gen_require(
    type polaris_code_verify_t, polaris_code_verify_exec_t;
')

domtrans_pattern($1, polaris_code_verify_exec_t, polaris_code_verify_t)
')

############################################################
## <summary>
##      Execute a domain transition to the polaris_hw_upgrade
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_hw_upgrade_domtrans',
gen_require(
    type polaris_hw_upgrade_t, polaris_hw_upgrade_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_hw_upgrade_exec_t, polaris_hw_upgrade_t)
')

############################################################
## <summary>
##      Work (read, write, ioctl) with /dev/aikido device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_aikido_dev_use',
gen_require(
    type device_t;
type polaris_aikido_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_aikido_device_t)
    read_chr_files_pattern($1, device_t, polaris_aikido_device_t)
')

############################################################
## <summary>
## Execute a domain transition to the polaris_rom_upgrade
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_rom_upgrade_domtrans',`
    gen_require(
        type polaris_hw_upgrade_t, polaris_rom_upgrade_exec_t;
    ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_rom_upgrade_exec_t, polaris_rom_upgrade_t)
')

########################################################################
## <summary>
## Write into fifo file created during rommon_upgrade
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_rom_upgrade_use_fifo',`
gen_require(`
type polaris_rom_upgrade_t;
')

    write_fifo_files_pattern($1, polaris_rom_upgrade_t, polaris_rom_upgrade_t)
')
########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/scansta device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_scansta_dev_use',`
gen_require(`

    #
type device_t;
type polaris_scansta_device_t;
)
write_chr_files_pattern($1, device_t, polaris_scansta_device_t)
read_chr_files_pattern($1, device_t, polaris_scansta_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/*.chasfs(/.*)?     gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis/local/*.chasfs(/.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis             gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis(/.*)        gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/*.chasasync(/.*)?   gen_context(system_u:object_r:polaris_chasync_tmp_t,s0)
/vol/harddisk/sys_report(/.*)?   gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/vol/harddisk/fp_cc_crash(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/var/log/chasync(/.*)?       gen_context(system_u:object_r:polaris_chasync_log_t,s0)
/usr/binos/conf/chasync.sh -- gen_context(system_u:object_r:polaris_chasync_exec_t,s0)

# real path is /etc/init.d/chasfs_boottime.sh but we need to add rc.d because
# in file_contexts.subs_dist we have substitute rule for /etc/init.d/
#/etc/rc.d/init.d/chasfs_boottime.sh -- gen_context(system_u:object_r:polaris_chasfs_boottime_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/.CRDU_COMMAND_PIPE     gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSE_PIPE    gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22862

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarissmand, 1.0);

gen_require(
    type polaris_smand_t;
    type polaris_smand_exec_t;
); 

polaris_btrace_data_manage(polaris_smand_t)
polaris_crft_data_manage(polaris_smand_t)
polaris_chasfs_manage(polaris_smand_t)
polaris_tdlresolve_read(polaris_smand_t)
polaris_tdldb_list_dirs(polaris_smand_t)
polaris_cpld_read(polaris_smand_t)
polaris_lua_read(polaris_smand_t)
polaris_flashlib_read(polaris_smand_t)
polaris_send_signal_to_bexecute(polaris_smand_t)
polaris_ripc_sman_ui_serv_connect(polaris_smand_t)
polaris_db_tdldb_dir_use(polaris_smand_t)

type polaris_crdu_pipe_tmp_t;
files_tmp_file(polaris_crdu_pipe_tmp_t)
files_tmp_filertrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_COMMAND_PIPE")
files_tmp_filertrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_RESPONSE_PIPE")
polaris_smand_crdu_pipe_manage(polaris_smand_t)

# work with /tmp/sman files

type polaris_smand_tmp_t;
files_tmp_file(polaris_smand_tmp_t)
manage_dirs_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
manage_files_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_smand_tmp_t, { file dir })

# allow read of /etc/group
auth_use_nsswitch(polaris_smand_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_smand_t)

# allow objstore access
polaris_disk_objstore_read(polaris_smand_t)

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require('type initrc_t;
')
allow polaris_smand_t initrc_t:sem { read write unix_write associate };

# why smand needs all these capability?
allow polaris_smand_t self:capability { dac_override chown fsetid }; allow polaris_smand_t self:capability2 block_suspend;
allow polaris_smand_t self:capability sys_resource;

# on edison smand wants to read /proc/mtd which is proc_t
# type=AVC msg=audit(1478481219.216:6): avc: denied { read } for pid=5410 comm="smand" name="mtd"
# dev="proc" ino=402653811 scontext=system_u:object_r:proc_t:s0 tcontext=system_u:object_r:proc_t:s0 tclass=file
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

# on edison silent roll package is still in iso format
# type=AVC msg=audit(1478497356.229:7): avc: denied { getattr } for pid=5816 comm="smand"
# path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/binos/lib64" dev="loop7"
# ino=3456 scontext=system_u:object_r:proc_t:s0 tcontext=system_u:object_r:iso9660_t:s0 tclass=dir
# gen_require('type iso9660_t;
')
allow polaris_smand_t iso9660_t:dir { search getattr };

polaris_dyncfg_tmp_read(polaris_smand_t)
corecmd_exec_shell(polaris_smand_t)

corecmd_exec_bin(polaris_smand_t)

# CLI "Show install issu history" invokes /usr/binos/conf/install_issu_show.py which
# needs /usr/bin/python3(bin file) execution
corecmd_exec_bin(polaris_smand_t)
# smand execute install_show.sh in its own domain need read results
polaris_install_show_tmp_read(polaris_smand_t)

# during boot issu_boottime.sh calls smand to obtain some information
gen_require(' type unconfined_service_t;
   ')
domtrans_pattern(unconfined_service_t, polaris_smand_exec_t, polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# ioctl(fd, SIOCGIFADDR, &ifr); on "system" interface name, which normally
# does not exist in Polaris platforms
kernel_dontaudit_request_load_module(polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# statfs64 for /flash directory
fs_getattr_xattr_fs(polaris_smand_t)
polaris_disk_bootflash_read_link(polaris_smand_t)
polaris_disk_bootflash_search(polaris_smand_t)

gen_require(' type rsync_t;
   ')
# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_smand_t:fifo_file write;

gen_require(' type polaris_bshell_t;
   ')
polaris_chasfs_read(polaris_bshell_t)
polaris_tdlresolve_read(polaris_bshell_t)

# bshell memory logs related
type polaris_memmon_tmp_files_t;
files_tmp_file(polaris_memmon_tmp_files_t)
files_tmp_filetrans(unconfined_service_t, polaris_memmon_tmp_files_t, dir, "memmon_logs")
## give bshell permissions
manage_files_pattern(polaris_bshell_t, polaris_memmon_tmp_files_t, polaris_memmon_tmp_files_t)

# sman needs to access gnmib gnoi images
optional_policy(' polaris_gnmib_gnoi_images_read(polaris_smand_t)
   ')

# CLI "Show install issu history" access to "/bootflash/installer/install_issu_history"
# and "/tmp/show_install_output.txt"
polaris_install_engine_domtrans(polaris_smand_t)
polaris_install_show_domtrans(polaris_smand_t)
# xcopy_script gets called for xcopy RPC data model
polaris_xcopy_script_domtrans(polaris_smand_t)

#
==================================================================
=# "sh ip ports" CLI policies, execute trans_ports_helper.sh script
polaris_utility_domain_template(trans_ports_helper)
=# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_ports_helper_exec_t, polaris_trans_ports_helper_t)
=# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_ports_helper_t)
=# execute "tail" command
corecmd_exec_bin(polaris_trans_ports_helper_t)
corecmd_exec_shell(polaris_trans_ports_helper_t)
polaris_proc_fd_all_getattr(polaris_trans_ports_helper_t)
=# get attrs all polaris_domain
domain_getattr_all_domains(polaris_trans_ports_helper_t)
=# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_ports_helper_t)
fs_read_nsfs_files(polaris_trans_ports_helper_t)

=# ls of options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_ports_helper_t)
=# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
allow polaris_trans_ports_helper_t self:capability { sys_ptrace };

=# allow file and directory read and execute permission checks
allow polaris_trans_ports_helper_t self:capability dac_read_search;

=# map /etc/passwd
auth_use_nsswitch(polaris_trans_ports_helper_t)

type polaris_trans_ports_tmp_t;
files_tmp_file(polaris_trans_ports_tmp_t)

=# create /tmp/trans_ports_tmp and /tmp/trans_ports_result
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_tmp")
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_result")
polaris_trans_ports_tmp_manage(polaris_trans_ports_helper_t)
=# smand open and unlinks /tmp/trans_ports_tmp
polaris_trans_ports_tmp_manage(polaris_smand_t)

#
==================================================================
=# "show platform software kernel ... " CLI executes trans_stats_helper.sh. Need domain
=# transition
#
polaris_utility_domain_template(trans_stats_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_stats_helper_exec_t, polaris_trans_stats_helper_t)
# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_stats_helper_t)
# execute lsof in helper script
corecmd_exec_bin(polaris_trans_stats_helper_t)
corecmd_exec_shell(polaris_trans_stats_helper_t)
auth_use_nsswitch(polaris_trans_stats_helper_t)
# lsof reads /proc/*/fd/* attributes
polaris_proc_fd_all_getattr(polaris_trans_stats_helper_t)

# lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_stats_helper_t)

# lsof reads /proc/locks
kernel_read_system_state(polaris_trans_stats_helper_t)

# lsof readdir
fs_read_nsfs_files(polaris_trans_stats_helper_t)

# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
# and dac_read_search as well.
allow polaris_trans_stats_helper_t self:capability { sys_ptrace dac_read_search };

type polaris_trans_stats_tmp_t;
files_tmp_file(polaris_trans_stats_tmp_t)
# create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp")
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp.1")
polaris_trans_stats_tmp_manage(polaris_trans_stats_helper_t)
# smand open and unlinks /tmp/trans_tmp
polaris_trans_stats_tmp_manage(polaris_smand_t)

# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_stats_helper_t)

#
# ============== http://www.example.com ==============
# CLI "request platform hardware filesystem harddisk: offline | online" which runs mcp_disk_oir.sh
polaris_utility_domain_template(disk_oir)
polaris_bexecute_domain(polaris_disk_oir_t, polaris_disk_oir_exec_t)

# execute lsof
corecmd_exec_bin(polaris_disk_oir_t)
# This is a CLI script that access types and /proc/pid/fd/*
polaris_proc_fd_all_getattr(polaris_disk_oir_t)

# access sysctl_rpc_t
kernel_read_rpc_sysctls(polaris_disk_oir_t)

# reads /proc/net/*
kernell_read_network_state(polaris_disk_oir_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_disk_oir_t)

# lsof readmnt
fs_read_nsfs_files(polaris_disk_oir_t)

# inherits stdin/stdout of pty opened by telnetd
telnet_use_ptys(polaris_disk_oir_t)

allow polaris_disk_oir_t self:capability { dac_read_search sys_nice sys_rawio }; allow polaris_disk_oir_t self:process { setfscreate setsched };

# execute lvm commands
lvm_domtrans(polaris_disk_oir_t)

# "lsof -nP" reads /dev/sda1 (/csl_p_0) and other operations when disk is destroyed.
storage_manage_fixed_disk(polaris_disk_oir_t)

# access /tmp/chassis/cpld/chasfs
polaris_chasfs_read(polaris_disk_oir_t)

# cat /tmp/chassis/cpld/chasfs/platform_type'
polaris_cpld_read(polaris_disk_oir_t)

#/bin/rm -rf /tmp/udev/etc/udev/harddisk'
fs_getattr_tmpfs(polaris_disk_oir_t)

# access /tmp/udev/etc/udev/harddisk'
polaris_udev_tmp_manage(polaris_disk_oir_t)

#/bin/mkdir -p /tmp/udev_cache/harddisk
files_tmp_filetrans(polaris_disk_oir_t, polaris_udev_tmp_files_t, dir, "udev_cache")

# systemctl start handle_mount@vol-hard disk.service, communicate with sysmd
systemd_exec_systemctl(polaris_disk_oir_t)
# mount /dev/harddisk1 /vol/harddisk
mount_domtrans(polaris_disk_oir_t)

# read /proc/cmdline
kernel_read_all_proc(polaris_disk_oir_t)

# system service start/stop: /lib/systemd/system/handle_mount@.service
systemd_config_generic_services(polaris_disk_oir_t)

#/sbin/hdparm -S 0 /dev/sdb, execute hdparm in its own domain
fstools_domtrans(polaris_disk_oir_t)

ifdef('crankshaft_family',
    gen_require('type device_t;
type udev_t;
')
filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
manage_lnk_files_pattern(polaris_disk_oir_t, fixed_disk_device_t, fixed_disk_device_t)
# /dev/harddisk may be labeled with device_t. The "unlink" AVC denail will be fixed when it is labeled correctly

# allow /bin/dd to access /dev/nvme in blk_file
dev_nvme_blk_files_manage(polaris_disk_oir_t)

# allow /bin/cat to access /tmp/nim_xxd_present
gen_require('type polaris_cmrp_nim_xxd_tmp_t;
')
read_files_pattern(polaris_disk_oir_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)
')

# watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_smand_t)

ifdef('petra_platform',
# allow access to polaris_cm_rp sem
polaris_cm_rp_sem_use(polaris_smand_t)
# allow access to /flash12/moncfg/cfg.dat
polaris_swipedrive_file_manage(polaris_smand_t)
# allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_smand_t)
)
dmesg_domtrans(polaris_smand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris mobilityd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarismemory, 1.0);

###############################################################################
# Polaris memory: libmaroon and such
###############################################################################

attribute polaris_maroon_data_domain;

type polaris_maroon_base_t;
files_type(polaris_maroon_base_t)

typeattribute polaris_maroon_base_t polaris_maroon_data_domain;

gen_require(
  attribute polarisExtended_domain;
)
files_tmp_filetrans(polaris_extended_domain, polaris_maroon_base_t, dir, "maroon_stats")

type polaris_zram_device_t;
dev_node(polaris_zram_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polarisem file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris nif_mgr Policy Rules.</summary>

######################################
## <summary>
## Use /tmp/sv directory and files. Currently this acts as a
## chasfs root for information shared between the nif manager
## and the fed.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sv_tmp_use',
    gen_require(
        type polaris_sv_tmp_t;
type tmp_t;
manage_dirs_pattern($1, tmp_t, polaris_sv_tmp_t)
manage_files_pattern($1, polaris_sv_tmp_t, polaris_sv_tmp_t)
allow $1 polaris_sv_tmp_t:dir watch;

######################################
## <summary>
##   This is to allow creation and write to
##   doppler_sesa file under proc
##
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_proc_sesa_create_write',
    gen_require(
        type polaris_proc_sesa_t;
    ')

setattr_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
rw_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/binos/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/binos/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/binos/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)
/usr/binos/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)
/usr/binos/bin/create_luid_file_db -- gen_context(system_u:object_r:polaris_create_ldb_exec_t,s0)
/tmp/btrace_luids_file.cdb.tmp -- gen_context(system_u:object_r:polaris_ldb_tmp_t,s0)
/tmp/btrace_luids_file.cdb -- gen_context(system_u:object_r:polaris_ldb_tmp_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.fc
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisunconfined file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisdbgd, 1.0);

gen_require(
   type polaris_dbgd_t;
')
polaris_chasfs_read(polaris_dbgd_t)
polaris_tdlresolve_read(polaris_dbgd_t)
polaris_cpld_read(polaris_dbgd_t)
logging_send_syslog_msg(polaris_dbgd_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_dbgd_t)

# /var/run/dbgd socket and pid
type polaris_dbgd_var_run_t;
files_pid_file(polaris_dbgd_var_run_t)
manage_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
manage_sock_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
files_pid_filetrans(polaris_dbgd_t, polaris_dbgd_var_run_t, { file sock_file })

polaris_vdaemon_var_sock_write(polaris_dbgd_t)

# dbgd may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_dbgd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.te
No license file was found, but licenses were detected in source scan.

#
# March 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris JVM Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.if
No license file was found, but licenses were detected in source scan.

# All rights reserved

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.te
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.te
No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariszezmancc, 1.0);

gen_require("
type polaris_ezman_cc_t;

'}

polaris_chasfs_read(polaris_ezman_cc_t)
polaris_cpld_read(polaris_ezman_cc_t)
polaris_tdlresolve_read(polaris_ezman_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_ezman_cc_t)

allow polaris_ezman_cc_t self:capability dac_override;

polaris_oob_evfc_dev_use(polaris_ezman_cc_t)
# LOOK AT ME by some reason relabeling of /dev/ezlkm
# device files does not work
dev_rw_generic_chr_files(polaris_ezman_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.te
No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisdoppler, 1.0);

# doppler interrupt device
type polaris_dplr_device_t;
dev_node(polaris_dplr_device_t)

# dma mmap device
type polaris_dmammap_device_t;
dev_node(polaris_dmammap_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.te
No license file was found, but licenses were detected in source scan.

#
# Nov 2020, Swati Kumari
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris PTPD Policy Rules.</summary>

```
interface('polaris_blzi_dev_use',
    gen_require(
        type device_t;
        type polaris_blzi_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    read_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    allow $1 polaris_blzi_device_t:chr_file map;
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris cpp_cp Policy Rules.</summary>

```
policy_module(polariscppdriver, 1.0);
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

gen_require(
    type polaris_cpp_driver_t;
')

polaris_btrace_data_manage(polaris_cpp_driver_t)
polaris_crtft_data_manage(polaris_cpp_driver_t)
polaris_chasfs_manage(polaris_cpp_driver_t)
polaris_tldresolve_read(polaris_cpp_driver_t)
polaris_tldldb_list_dirs(polaris_cpp_driver_t)
polaris_cpld_read(polaris_cpp_driver_t)
polaris_flashlib_read(polaris_cpp_driver_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_driver_t)
polaris_cpp_process(polaris_cpp_driver_t)
polaris_cpp_dev_use(polaris_cpp_driver_t)

# allow read variety of system information from sysfs
# type=AVC msg=audit(1479601620.503:19): avc: denied { open } for pid=22839 comm="cpp_driver"
# path="/sys/devices/system/node/node0/meminfo" dev="sysfs" ino=805
# scontext=system_u:system_r:polaris_cpp_driver_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_read_sysfs(polaris_cpp_driver_t)

optional_policy(
    # cpp_driver reads qfp executable to look at .stabs sections that
    # contains qfp code fixups, then this fixup data is passed to kernel
    # module to modify qfp code.
    gen_require(
        type bin_t;
        type polaris_qfp_exec_t;
    ')
    read_files_pattern(polaris_cpp_driver_t, bin_t, polaris_qfp_exec_t)
')

polaris_icc_broken_relocations(polaris_cpp_driver_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cpp_driver_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_driver_t)

logging_send_syslog_msg(polaris_cpp_driver_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family',
    polaris_dev_mem_use(polaris_cpp_driver_t)
')
# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of cpp_driver access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
ifdef('crankshaft_family',
polaris_cm_fp_tmp_filetrans(polaris_cpp_driver_t)
polaris_cm_fp_tmp_manage(polaris_cpp_driver_t)
')

# LOOK AT ME on overloard cpp_driver needs access to /dev/cavium_e
# and /dev/pcie0 devices, on lng cpp_driver needs access to
# /dev/yoda0_tree2, etc
dev_rw_generic_chr_files(polaris_cpp_driver_t)

# /dev/cpp_il on qwlc
optional_policy('
polaris_cpp_il_dev_use(polaris_cpp_driver_t)
')

ifdef('qwlc_platform',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef('katar_platform',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef('mcp_family',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')

optional_policy(
polaris_cpp_hdlp_dev_use(polaris_cpp_driver_t)
polaris_cbdma_dev_use(polaris_cpp_driver_t)
polaris_cpp_hdlp_dev_use(polaris_cpp_driver_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.te

No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris odm_proxy Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisbtrace, 1.0);

 gen_require(
    attribute domain;
    attribute polaris_extended_domain;
    attribute unconfined_domain_type;
)

# persistent btrace files stored under btrace_data
type polaris_btrace_data_t;
files_type(polaris_btrace_data_t)

# allow btrace data file reside on persistent storage
polaris_pfile_type(polaris_btrace_data_t)

type polaris_fifo_stdout_t;
files_type(polaris_fifo_stdout_t)

type polaris_fifo_stdout_base_t;
files_type(polaris_fifo_stdout_base_t)

attribute polaris_btrace_data_domain;

type polaris_btrace_base_t;
files_type(polaris_btrace_base_t)

typeattribute polaris_btrace_base_t polaris_btrace_data_domain;
typeattribute polaris_btrace_data_t polaris_btrace_data_domain;

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
files_tmp_filetrans(polaris_extended_domain, polaris_btrace_base_t, dir, "trace")
# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh -> btrace.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")

gen_require(`
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_btrace_base_t, dir, "trace")

# filetrans_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_fifo_stdout_base_t, polaris_fifo_stdout_t, fifo_file)
manage_dirs_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t)
polaris_utility_domain_template(btdecode)

# any polaris process except iosd can execve btdecode utility to decode its own traces
gen_require(`
    attribute polaris_domain;
    type polaris_iosd_t;
')
domtrans_pattern(polaris_domain - polaris_iosd_t, polaris_btdecode_exec_t, polaris_btdecode_t)
corecmd_check_exec_shell(polaris_domain - polaris_iosd_t)

# btdecode not only reads btrace files, but also creates copy of the file
polaris_btrace_data_manage_all(polaris_btdecode_t)
polaris_btrace_persistent_data_manage(polaris_btdecode_t)
polaris_use_btrace_fifo(polaris_btdecode_t)
polaris_tdlresolve_read(polaris_btdecode_t)
polaris_boot_tmp_read(polaris_btdecode_t)
polaris_lua_read(polaris_btdecode_t)
polaris_chasfs_read(polaris_btdecode_t)
polaris_cpld_read(polaris_btdecode_t)
polaris_bootflash_manage(polaris_btdecode_t)

# lua files need to read executables to retrieve btrace meta informations
files_mmap_all_files(polaris_btdecode_t)

# could be called on trace files on persistent storage
polaris_persistent_read(polaris_btdecode_t)

# need to read executables to retrieve btrace meta informations
polaris_read_exec_domain(polaris_btdecode_t)
corecmd_exec_bin(polaris_btdecode_t)
corecmd_exec_shell(polaris_btdecode_t)
# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btdecode_t)

# executes luajit
allow polaris_btdecode_t self:process execmem;

# tmp files created by /lua/btdecode.lua in /tmp
type polaris_btdecode_tmp_t;
files_tmp_file(polaris_btdecode_tmp_t);
files_tmp_filetrans(polaris_btdecode_t, polaris_btdecode_tmp_t, file);
manage_files_pattern(polaris_btdecode_t, polaris_btdecode_tmp_t, polaris_btdecode_tmp_t);

# /lua/btdecode.lua may call create_luid_file_db on demand
polaris_create_ldb_domtrans(polaris_btdecode_t);

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_btdecode_t);

# Allow btdecode to read/write /dev/pts/*
term_use_generic_ptys(polaris_btdecode_t);

polaris_btrace_ldb_tmp_read(polaris_btdecode_t);

# Allow btdecode to watch over /bootflash/tracelogs, /vol/harddisk/tarcelogs and /flash2/CRASH/tracelogs
polaris_btrace_data_watch(polaris_btdecode_t);

# Allow btdecode to watch over /usr/binos/conf
files_watch_usr_dirs(polaris_btdecode_t);

# Allow btdecode to access UFS mounted directories for other members
optional_policy('
polaris_ncd_tmp_read(polaris_btdecode_t)
')

# btrace_rotate calls ftw function through create_luid_file_db utility
# that walks whole file tree in order to create btrace_luids_file.cdb
# let's have separate domain for this utility
polaris_utility_domain_template(create_ldb);

files_read_all_files(polaris_create_ldb_t);
files_getattr_all_dirs(polaris_create_ldb_t);
files_read_all_symlinks(polaris_create_ldb_t);
files_list_non_security(polaris_create_ldb_t);
files_dontaudit_list_security_dirs(polaris_create_ldb_t);
files_mmap_all_files(polaris_create_ldb_t);
# allow luid database scripts to read/write /dev/pts/*
term_use_generic_ptys(polaris_create_ldb_t)

# creates files like btrace_luids_file.cdb_20170907160108.tmp, btrace_luids_file.cdb
type polaris_ldb_tmp_t;
files_tmp_file(polaris_ldb_tmp_t)
files_tmp_filetrans(polaris_create_ldb_t, polaris_ldb_tmp_t, file)
files_tmp_filetrans(polaris_btrace_fifo, polaris_create_ldb_t, file, "btrace_luids_file.cdb")
manage_files_pattern(polaris_create_ldb_t, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
mmap_files_pattern(polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t)
polaris_use_btrace_fifo(polaris_create_ldb_t)

# in some cases it runs with telnet /dev/ttyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_create_ldb_t)

# Allowing permission to read/open/getattr/ on
#       /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen_require(
    type telnetd_exec_t;
')
allow polaris_btdecode_t telnetd_exec_t:file { getattr open read };

################################################################################
# CLI: show platform software trace filter-binary wired
#    invokes.../bin/sh /usr/binos/conf/mcp_trace_filter.sh --binary wired
################################################################################
polaris_utility_domain_template(trace_filter)
polaris_bexecute_domtrans(polaris_trace_filter_t)
polaris_bexecute_domain(polaris_trace_filter_t, polaris_trace_filter_exec_t)
# mcp_trace_filter.sh runs with telnet /dev/ptyN as
# stdin/stdout if on standby
telnet_use_ptys(polaris_trace_filter_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_trace_filter_t)

allow polaris_trace_filter_t self:capability { dac_override sys_resource };

# access /tmp/sw/boot/pkginfo
# awk -v what="^.BuildPath: Spkginfo_file ~ what { print "$2" /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_trace_filter_t)
polaris_chasfs_read(polaris_trace_filter_t)
polaris_disk_bootflash_read_lnk(polaris_trace_filter_t)
polaris_disk_crashinfo_getattr(polaris_trace_filter_t)
polaris_bootflash_manage(polaris_trace_filter_t)
polaris_use_btman_fifo(polaris_trace_filter_t)
polaris_use_btrace_fifo(polaris_trace_filter_t)
polaris_smand_use_fifo(polaris_trace_filter_t)
polaris_cpld_read(polaris_trace_filter_t)
polaris_tldldb_list_dirs(polaris_trace_filter_t)
polaris_disk_harddisk_read_lnk(polaris_trace_filter_t)
kernell_read_system_state(polaris_trace_filter_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_filter_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_trace_filter_t)

#Allow mcp_trace_request.sh to access UFS mounted directories for other members
optional_policy(
  polaris_ncd_tmp_read(polaris_trace_filter_t)
  )

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_trace_filter_tmp_t;
files_tmp_file(polaris_trace_filter_tmp_t)
files_tmp_filetrans(polaris_trace_filter_t, polaris_trace_filter_tmp_t, file)
manage_files_pattern(polaris_trace_filter_t, polaris_trace_filter_tmp_t, polaris_trace_filter_tmp_t)

# mcp_trace_filter.sh invokes: "df /tmp/rp/tldldb" and "df /dev/shm"
fs_getattr_tmpfs(polaris_trace_filter_t)

# allow accesses to polaris lua files
polaris_lua_read(polaris_trace_filter_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_filter_t)

corecmd_exec_bin(polaris_trace_filter_t)

# why does btrace show command needs to write into btrace state?
polaris_btrace_data_manage_all(polaris_trace_filter_t)
polaris_btrace_persistent_data_manage(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/harddisk/10.130.1.0
fs_getattr_nfs(polaris_trace_filter_t)
polaris_utility_domain_template(trace_request)

polaris_bexecute_domtrans(polaris_trace_request_t)
polaris_bexecute_domain(polaris_trace_request_t, polaris_trace_request_exec_t)

# Provide sys_resource capability for sys_pipe calls
allow polaris_trace_request_t self:capability sys_resource;

polaris_cpld_read(polaris_trace_request_t)
polaris_disk_crashinfo_getattr(polaris_trace_request_t)
polaris_disk_bootflash_read_lnk(polaris_trace_request_t)
polaris_disk_harddisk_read_lnk(polaris_trace_request_t)
polaris_chasfs_manage(polaris_trace_request_t)

fs_getattr_xattr_fs(polaris_trace_request_t)

# can execute hostname
hostname_exec(polaris_trace_request_t)

# can execute dmesg
dmesg_domtrans(polaris_trace_request_t)

# creates archives under /crashinfo
polaris_disk_crashinfo_manage(polaris_trace_request_t)

# can tar logs to persistent all file systems (including removable file systems)
polaris_persistent_manage(polaris_trace_request_t)
polaris_removable_manage(polaris_trace_request_t)

# read and write all btrace fifo file as standard input/output.
polaris_use_btrace_fifo(polaris_trace_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_request_t)

# copies /tmp/silent_roll_select.log into /crashinfo so that it can be tar'd into an
# archive
polaris_pvp_read_tmp_files(polaris_trace_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_trace_request_t)

# in some cases mcp_trace_request.sh runs with telnet /dev/ptyN as
# stdin/stdout
telnet_use_ptys(polaris_trace_request_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_request_t)

# read /proc/cmdline
kernel_read_system_state(polaris_trace_request_t)

corecmd_exec_bin(polaris_trace_request_t)

ifdef(`ngwc_family',`
optional_policy(`
polaris_ncd_tmp_read(polaris_trace_request_t)
`
')
`
')

# mcp_trace_request.sh can read all btrace files both in temp storage
# as well as in persistent storage
polaris_btrace_data_manage_all(polaris_trace_request_t)
polaris_btrace_persistent_data_manage(polaris_trace_request_t)

# Allow mcp_trace_request.sh to create and manage temporary files under /tmp
# such as /tmp/mtr_cntrl
type polaris_trace_request_tmp_t;
files_tmp_file(polaris_trace_request_tmp_t)
files_tmp_filetrans(polaris_trace_request_t, polaris_trace_request_tmp_t, file)
manage_files_pattern(polaris_trace_request_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs_getattr_nfs(polaris_trace_request_t)

# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store
gen_require(`
    type dmesg_t;
  `)
polaris_btrace_persistent_data_manage(dmesg_t)
# dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label
gen_require(`
    type udev_t;
    type polaris_udev_tmp_files_t;
  `)
type init_t;

')
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_manage(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy(
    polaris_ncd_tmp_read(polaris_trace_request_t)
)

# Allow mcp_trace_request to get tmpfs attributes
fs_getattr_tmpfs(polaris_trace_request_t)

# Allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };

####################################################################################################################

type polaris_btrace_tmpfs_t;
files_tmpfs_file(polaris_btrace_tmpfs_t)

# btrace semaphore created by systemd-tmpfiles needs map permission
gen_require(
    type systemd_tmpfiles_t;
)
mmap_files_pattern(systemd_tmpfiles_t, polaris_btrace_tmpfs_t, polaris_btrace_tmpfs_t)

# Allow polaris processes to manage level config files in tracelogs persistent
# directory like /bootflash/tracelogs/level_config
type polaris_btrace_lvl_config_t;
files_type(polaris_btrace_lvl_config_t)
gen_require(
    attribute polaris_domain;
)
polaris_btrace_lvl_config_manage(polaris_domain)

optional_policy(
    polaris_cedge_tanman_tmp_manage(polaris_btdecode_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/psvp.sh -- gen_context(system_u:object_r:polaris_psvp_exec_t,s0)
/tmp/rp/psvp -d gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/inot_fifo -p gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/pvp.pid -- gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.fc
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisbexecute, 1.0);

polaris_utility_domain_template(bexecute)

polaris_utility_domain_template(chvrf)

polaris_bexecute_domtrans(polaris_chvrf_t)
polaris_chvrf_domtrans(polaris_bexecute_t)
polaris_ngio_module_session_domtrans(polaris_bexecute_t)

polaris_rom_upgrade_use_fifo(polaris_chvrf_t)

###############################################################################
# bexecute
###############################################################################
corecmd_exec_bin(polaris_bexecute_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_bexecute_t)

dev_setattr_null_dev(polaris_bexecute_t)
polaris_btrace_data_manage(polaris_bexecute_t)
polaris_crft_data_manage(polaris_bexecute_t)
polaris_chasfs_manage(polaris_bexecute_t)
polaris_cpld_read(polaris_bexecute_t)
polaris_boot_tmp_read(polaris_bexecute_t)
polaris_mronbifo_tmp_read(polaris_bexecute_t)
polaris_ronbifo_read(polaris_bexecute_t)
polaris_dyncfg_tmp_read(polaris_bexecute_t)
polaris_boot_tmp_read(polaris_bexecute_t)
polaris_read_debug_conf(polaris_bexecute_t)
polaris_disk_bootflash_read_lnk(polaris_bexecute_t)
polaris_disk_harndisk_read_lnk(polaris_bexecute_t)

# open/read /tmp/sw/rp/max_elastic_bays
polaris_pvp_read_tmp_files(polaris_bexecute_t)

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_bexecute_t)

# manage files in /tmp/pman_ports
polaris_pman_manage_tmp_files(polaris_bexecute_t)

# brelay.sh does rm -rf of "/tmp/pman_ports/gdbport/9910"
# This checks tmpfs file system attributes
#
# Denial is observed after "show platform software audit summary"
# which uses brelay to trigger corresponding audit_log.sh script
fs_getattr_tmpfs(polaris_bexecute_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_bexecute_t)

# follow /tftp/inv symlink to /tmp/chassis/local/rp/chasfs/inventory
gen_require(
    type tftpdir_rw_t;
    )
read_lnk_files_pattern(polaris_bexecute_t, tftpdir_rw_t, tftpdir_rw_t)

# tries to do mkdir -p /tmp/rp/lipc, but it should exist already so
# getattr should be sufficient
polaris_lipc_getattr(polaris_bexecute_t)

# read /proc/cmdline
kernel_read_system_state(polaris_bexecute_t)

# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_bexecute_t)
# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_bexecute_t)

allow polaris_bexecute_t self:capability { chown setgid setuid fowner net_admin };
allow polaris_bexecute_t self:process { setpgid setcap };

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
type polaris_bexecute_tmp_t;
files_tmp_file(polaris_bexecute_tmp_t)
files_tmp_filetrans(polaris_bexecute_t, polaris_bexecute_tmp_t, file)
manage_files_pattern(polaris_bexecute_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# smand calls many commands through bexec.sh
polaris_smand_domain(polaris_bexecute_t, polaris_bexecute_exec_t)

# hman invokes cpp_shm_mgr_info_show.sh which in turn invokes "mktemp -p /tmp/tmppub...
polaris_btrace_tmppub_manage(polaris_bexecute_t)

ifdef(`nyquist_platform',`
term_use_unallocated_ttys(polaris_bexecute_t)
term_setattr_unallocated_ttys(polaris_bexecute_t)
')

ifdef(`radium_platform',`
polaris_load_usbnet_domtrans(polaris_bexecute_t)

# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/module_direct.py
# 0 bp0 PROMETHIUM-L"
gen_require(`
    type polaris_cm_rp_t;
')
allow polaris_chvrf_t polaris_cm_rp_t:tcp_socket ioctl;

# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
gen_require(`
    type polaris_dmi_ncsshd_fwd_t;
')
allow polaris_chvrf_t polaris_dmi_ncsshd_fwd_t:tcp_socket ioctl;

ifdef(`sumatra_platform',`
polaris_load_usbnet_domtrans(polaris_bexecute_t)
')
ifdef(`nanook_platform',
polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

ifdef(`supernova_platform',
polaris_load_usbnet_domtrans(polaris_bexecute_t)
')
polaris_issu_tmp_files_manage(polaris_bexecute_t)

# Unlike other platforms, quake platform has runin_exec_proc.sh script,
# which is started by xinetd in inetd_t domain,
# and needs to switch to bexecute domain.
# In turn, runin_exec_proc.sh then starts in.telnetd process which needs
# to run in telnetd_t domain, for the existing policies to do the rest.
ifdef(`quake_platform',

gen_require(''
    type inetd_t;
    type telnetd_t;
    type telnetd_exec_t;
')
polaris_bexecute_domtrans(inetd_t)
polaris_bexecute_domain(telnetd_t, telnetd_exec_t)
')

################################################################################
# chvrf
################################################################################
corecmd_exec_bin(polaris_chvrf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_chvrf_t)

# read polaris vrf net namespace file(s) /var/run/netns/0
fs_read_nsfs_files(polaris_chvrf_t)

# write into pipe that various binos processes created for us with popen
polaris_smand_use_fifo(polaris_chvrf_t)
polaris_hman_use_fifo(polaris_chvrf_t)
polaris_dmiauthd_use_fifo(polaris_chvrf_t)
optional_policy(''
polaris_cmrp_use_fifo(polaris_chvrf_t)
')
optional_policy(''
polaris_dmi_ncsshd_fwd_use_fifo(polaris_chvrf_t)
')
# mcp_chvrf.sh may run into files created by bexecute
manage_files_pattern(polaris_chvrf_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# init may transition to polaris_chvrf_t - certain systemd units use
# mcp_chvrf.sh to start services
gen_require(
    type init_t;
')
polaris_chvrf_domtrans(init_t)

# mcp_chvrf.sh used to start xinetd services
gen_require(
    type inetd_t;
    type inetd_exec_t;
')
domtrans_pattern(polaris_chvrf_t, inetd_exec_t, inetd_t)

# in some cases mcp_chvrf needs to write into someone fifo stdout
# file, i.e when called from ncd.sh script
polaris_use_btrace_fifo(polaris_chvrf_t)

sysnet_domtrans_ifconfig(polaris_chvrf_t)

# during some execve calls chvrf needs list /tmp/etc
polaris/etc_list(polaris_chvrf_t)

ifdef(`ngwc_family',
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
')

ifdef(`mcp_family',
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
')

ifdef(`wlc_family',
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
')
# For "request platform software system shell" CLI, we have:
# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/binos/conf/bexecute.sh
#    -c /usr/binos/conf/mcp_record_shell.sh
# mcp_chvrf.sh needs read/write access to /dev/pts/1:
# allow polaris_chvrf_t telnetd_devpts_t:chr_file { read write };
telnet_use_ptys(polaris_chvrf_t)

ifdef(`nyquist_platform',`
term_use_unallocated_ttys(polaris_chvrf_t)
')

# some times run with unix_stream_socket as stdin
init_ioctl_stream_sockets(polaris_chvrf_t)

polaris_install_show_tmp_write(polaris_bexecute_t)
polaris_install_show_tmp_write(polaris_chvrf_t)

polaris_install_tmp_log_write(polaris_bexecute_t)
polaris_install_tmp_log_write(polaris_chvrf_t)

polaris_sman_bshell_serv_lipc_write(polaris_bexecute_t)
polaris_tdlresolve_read(polaris_bexecute_t)

# This block is policies for "sh pla so process memory r0 name iosd maps" CLI
polaris_utility_domain_template(process_maps)
polaris_bexecute_domain(polaris_process_maps_t, polaris_process_maps_exec_t)

# needs to read maps files.
domain_read_all_domains_state(polaris_process_maps_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_process_maps_t)
kernel_read_system_state(polaris_process_maps_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_process_maps_t)

corecmd_exec_bin(polaris_process_maps_t)

# This block is policies for "request platform software system shell" CLI.
# Eventually, mcp_record_shell.sh is invoked. That needs its own domain.
polaris_utility_domain_template(platform_shell)

polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)
corecmd_exec_bin(polaris_platform_shell_t)
auth_use_nsswitch(polaris_platform_shell_t)

polaris_btrace_persistent_data_manage(polaris_platform_shell_t)
polaris_cpld_read(polaris_platform_shell_t)

# cyan libraries access /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_platform_shell_t)

# pglobals.sh accesses /tmp/ufs//crashinfo on cat9k platforms
optional_policy(
  polaris_ncd_tmp_read(polaris_platform_shell_t)
  )

# mcp_record_shell.sh needs read access to chasfs
polaris_chasfs_read(polaris_platform_shell_t)

# mcp_record_shell.sh needs read access to /dev/pts/0 (telnetd_devpts_t)
telnet_use_ptys(polaris_platform_shell_t)

# rsync /tmp/system_shell_access_logs/$system_shell_access_log_file
# rsync://rp0-0/chasfs/etc/system_shell_access_logs/.
gen_require(
  type rsync_t;
  )
rsync_entry_domtrans(polaris_platform_shell_t, rsync_t)
allow rsync_t polaris_platform_shell_t:process sigchld;
telnet_use_ptys(rsync_t)

logging_send_syslog_msg(polaris_platform_shell_t)
init_list_pid_dirs(polaris_platform_shell_t)

# when reload command is issued, needs "kill" capability
allow polaris_platform_shell_t self:capability kill;

# brelay started from telnetd as result it inherits stdin/stdout of pty opened
# by telnetd
telnet_use_ptys(polaris_bexecute_t)
gen_require(
  type telnetd_devpts_t;
')
allow polaris_bexecute_t telnetd_devpts_t:chr_file setattr_chr_file_perms;
allow polaris_bexecute_t self:capability fsetid;

# mcp_record_shell.sh invokes:
# /usr/bin/script -q /harddisk/tracelogs/system_shell_R0*
# - needs access to /root/.bash_history
# - performs chmod on /dev/pts/2 (needs fsetid on self)
# - ioctl/open/read/write on /dev/ptmx
# - needs read/search access to /harddisk/tracelogs
type polaris_bash_tmp_t;
files_type(polaris_bash_tmp_t)
filetrans_pattern(domain, user_home_dir_t, polaris_bash_tmp_t, file, ".bash_history")
polaris_bash_tmp_manage(polaris_platform_shell_t)
allow polaris_platform_shell_t self:capability fsetid;
term_use_generic_ptys(polaris_platform_shell_t)
term_setattr_generic_ptys(polaris_platform_shell_t)
term_getattr_pty_fs(polaris_platform_shell_t)
term_use_ptmx(polaris_platform_shell_t)
polaris_disk_bootflash_read_lnk(polaris_platform_shell_t)
polaris_disk_harddisk_read_lnk(polaris_platform_shell_t)

# mcp_record_shell.sh invokes:
# mkdir /tmp/system_shell_access_logs
# create /tmp/system_shell_access_logs/SHELL_ACCESSED_ *
type polaris_platform_shell_tmp_t;
files_tmp_file(polaris_platform_shell_tmp_t)
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, file)
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_platform_shell_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_platform_shell_t)

polaris_disk_crashinfo_getattr(polaris_platform_shell_t)

polaris_utility_domain_template(shell)

term_use_generic_ptys(polaris_shell_t)

domtrans_pattern(polaris_platform_shell_t, polaris_shell_exec_t, polaris_shell_t)

# reload command needs the following policies to send signal
polaris_send_signal_to_bexecute(polaris_platform_shell_t)
polaris_send_signal_to_shell(polaris_platform_shell_t)

### <desc>
### <p>
### Polaris "request platform system shell" drops into unconfined shell
### </p>
### </desc>

gen_tunable(polaris_dev_shell, true)

tunable_policy('polaris_dev_shell',
    polaris_unconfined_domain(polaris_shell_t)
')
polaris_domain_storage_unconfined_type(polaris_shell_t)

# PLEASE LOOK AT ME do we have to many ports open
# btelnet runs under bexecute in case of guest shell console access
# command like app-hosting connect appid guestshell console
allow polaris_bexecute_t self:tcp_socket { connect create setopt }
corenets_tcp_connect_unreserved_ports(polaris_bexecute_t)
sysnet_read_config(polaris_bexecute_t)

# brelay.sh does ls /tmp/ufs//crashinfo on cat9k
allow polaris_bexecute_t self:capability dac_override;
polaris_disk_crashinfo_getattr(polaris_bexecute_t)
optional_policy('polaris_ncd_tmp_read(polaris_bexecute_t)
')

polaris_utility_domain_template(bconsole)

polaris_boot_tmp_read(polaris_bconsole_t)
polaris_btrace_data_manage(polaris_bconsole_t)
polaris_chasfs_read(polaris_bconsole_t)
polaris_cpld_read(polaris_bconsole_t)
polaris_proc_rmonbifo_read(polaris_bconsole_t)
polaris_rmonbifo_tmp_read(polaris_bconsole_t)
polaris_use_btrace_fifo(polaris_bconsole_t)
polaris_show_provision_temp_read(polaris_bconsole_t)

corecmd_exec_bin(polaris_bconsole_t)
polaris_bexecute_domtrans(polaris_bconsole_t)

allow polaris_bconsole_t self:process setrlimit;

# handling /var/run/agetty-iosd.pid

type polaris_bconsole_var_run_t;
files_pid_file(polaris_bconsole_var_run_t)
manage_files_pattern(polaris_bconsole_t, polaris_bconsole_var_run_t, polaris_bconsole_var_run_t)
files_pid_filetrans(polaris_bconsole_t, polaris_bconsole_var_run_t, file, "agetty-iosd.pid")

# access /dev/ttyS0
term_use_unallocated_ttys(polaris_bconsole_t)

auth_use_nsswitch(polaris_bconsole_t)

#############################################################
# This block is policies for
# "request platform software console attach switch standby RO" CLI.
# It invokes usr/binos/conf/mcp_console_attach.sh, eventually invoking
# ioucon binary, to telnet to standby.

polaris_utility_domain_template(mcp_console_attach)
polaris_bexecute_domain(polaris_mcp_console_attach_t, polaris_mcp_console_attach_exec_t)
corecmd_exec_bin(polaris_mcp_console_attach_t)
polaris_bexecute_domtrans(polaris_mcp_console_attach_t)
allow polaris_mcp_console_attach_t self:process setpgid;
polaris_chasfs_read(polaris_mcp_console_attach_t)
telnet_use_ptys(polaris_mcp_console_attach_t)

# working with ioucon binary, invoked by usr/binos/conf/mcp_console_attach.sh
polaris_utility_domain_template(ioucon)
polaris_bexecute_domain(polaris_ioucon_t, polaris_ioucon_exec_t)

allow polaris_ioucon_t self:unix_dgram_socket create_socket_perms;
polaris_iosd_dgram_send(polaris_ioucon_t)
polaris_iosd_tmp_file_use(polaris_ioucon_t)
telnet_use_ptys(polaris_ioucon_t)

# "test platform hardware eobc ping" invokes eobc_ping.sh
# send sigchld when it is done
gen_require(
    type ping_t;
')
allow ping_t polaris_bexecute_t::process sigchld;
polaris_confdomtrans(polaris_bexecute_t)

# app-hosting connect appid <-> console/session
# Beluga/Meraki container
ifdef('ms_platform',
    polaris_iox_container_domtrans(polaris_bexecute_t)
')

# Bottlenose/Meraki container
ifdef('bottlenose_platform',
    polaris_iox_container_domtrans(polaris_bexecute_t)
')

# IOX downloads the application package using network protocol (e.g http)
gen_require(
    type fifo_var_run_t;
')
allow polaris_bexecute_t fifo_var_run_t::fifo_file read;

# on vxr platforms with MBRv2/MBRv4/GPTv1/GPTv3 partition layouts
# /config is file system and export_mcp_environment tries to create it anyway
polaris_getattr_disk_config(polaris_bexecute_t)

# This block is policies for
# "hw-module session <x/y>" CLI.
# It invokes usr/binos/conf/ngio_module_session.sh, eventually invoking
# open64.
polaris_utility_domain_template(ngio_module_session)
polaris_bexecute_domain(polargis_ngio_module_session_t, polaris_ngio_module_session_exec_t)
corecmd_exec_bin(polargis_ngio_module_session_t)
polaris_bexecute_domtrans(polaris_ngio_module_session_t)
term_use_unallocated_ttys(polargis_ngio_module_session_t)
dev_read_sysfs(polargis_ngio_module_session_t)
allow polaris_ngio_module_session_t self:process setsched;
auth_map_passwd(polargis_ngio_module_session_t)
polaris_chasfs_read(polargis_ngio_module_session_t)
polaris_cpld_read(polargis_ngio_module_session_t)
telnet_use_ptys(polargis_ngio_module_session_t)

# work with /tmp files
type polaris_ngio_module_session_tmp_t;
files_tmp_file(polargis_ngio_module_session_tmp_t)
manage_dirs_pattern(polaris_ngio_module_session_t, tmp_t, polaris_ngio_module_session_tmp_t)
manage_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
polaris_ngio_module_session_tmp_t)
manage_fifo_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
polaris_ngio_module_session_tmp_t)
files_tmp_filetrans(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, { file dir })

# CLI: show platform software tech-support
# requires bshell execution
# /bin/bash /usr/binos/conf/bshell.sh -S -P ---- __CMD__ ---- -f
/usr/binos/conf/mcp_tech_support_command_file.txt
gen_require(''
    type polaris_bshell_t;
    type polaris_bshell_exec_t;
')
domtrans_pattern(polaris_bexecute_t, polaris_bshell_exec_t, polaris_bshell_t)
# scripts stdin is set by hman and needs write/append access to pipes like pipe:[80159]
polaris_hman_use_fifo(polaris_bshell_t)
# in case of ISR4k show tech input for bshell dynamically created
polaris_tech_support_tmp_read(polaris_bshell_t)

# CLI: show software authenticity running
# this results in hman invoking below command:
# /bin/sh /usr/binos/conf/bexec.sh -c "/usr/bin/code_sign_verify show3 abcd    
polaris_code_verify_domtrans(polaris_bexecute_t)

# stdin is inherited when bexecute calls fts_client
polaris_fts_client_tmp_manage(polaris_bexecute_t)

# disk space full issue
allow polaris_platform_shell_t self:capability sys_resource;

# CLI: request platform software sdwan admin-tech
# executes: /bin/sh vconfd_script_show_installerfs.sh
polaris_confd_unix_stream_stdio_use(polaris_bexecute_t)

# executes: bash bshell.sh -S -P ---- __CMD__ ---- -f /tmp/sdwan_tech_support_command_file_out.txt
polaris_confd_unix_stream_stdio_use(polaris_bshell_t)

# write to /tmp/out_$(date "+%Y-%m-%d%H%M%S\n") for base version verification on smu install
polaris_install_tmp_write(polaris_bexecute_t)

# Nutella-XE install image
#/bin/bash /usr/binos/conf/brelay.sh -E -f rp 0 16023 -c /usr/binos/conf/install_engine.sh --operation install_commit
--isremote
polaris_confd_tmp_use_fifo(polaris_bexecute_t)
awk -v what="^BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo
polaris_read_packages_conf(polaris_bexecute_t)

dev_read_rand(polaris_bexecute_t)

#/usr/bin/python3 /usr/binos/conf/issu_client_comp.py compare -b /usr/binos/conf/base_clients.txt -n
/bootflash/installer/current_clients.txt
polaris_disk_install_read(polaris_bexecute_t)

# allow "/usr/binos/conf/module_direct.py" (bexecute_t) to execute
# "/usr/sbin/ethtool" (ifconfig_exec_t) when invoking CLI
# "show platform1 hardware sublot <slot/card> backplane statistics"
sysnet_domtrans_ifconfig(polaris_bexecute_t)
# Write into pipe created by stack_mgr
# Parent Child Relation - stack_mgr -> mcp_trace_request -> brelay (to relay output to active)
optional_policy(
  polaris_use_stack_mgr_fifo(polaris_bexecute_t)
)

polaris_etc_list(polaris_bexecute_t)
#manage /tmp/existing_rommon_info file
polaris_manage_rommon_info(polaris_capsule_upgrade_t)

#Policies for "upgrade rom-monitor capsule primary switch 1 R0" CLI
#/usr/binos/conf/bexecute.sh -c /usr/binos/conf/cat9k-primary-capsule-upgrade.sh
#cat9k-primary-capsule-upgrade.sh have to run in its own domain

polaris_utility_domain_template(capsule_upgrade)
polaris_bootflash_manage(polaris_capsule_upgrade_t)
type polaris_capsule_upgrade_log_t;
polaris_pfile_type(polaris_capsule_upgrade_log_t)
polaris_capsule_upgrade_log_use(polaris_capsule_upgrade_t)
polaris_bexecute_domain(polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t)
polaris_bexecute_domtrans(polaris_capsule_upgrade_t)
corecmd_exec_bin(polaris_capsule_upgrade_t)
auth_use_nsswitch(polaris_capsule_upgrade_t)
polaris_chasfs_manage(polaris_capsule_upgrade_t)
polaris_cpld_read(polaris_capsule_upgrade_t)
telnet_use_ptys(polaris_capsule_upgrade_t)
polaris_rommon_device_read(polaris_capsule_upgrade_t)
# For "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/install_engine.sh
# --operation install_c
# uses unix stream socket created by confd as standard I/O.
polaris_confd_unix_stream_stdio_use(polaris_chvrf_t)

# mcp_dmesg_service
polaris_utility_domain_template(mcp_dmesg)
polaris_bexecute_domain(polaris_mcp_dmesg_t, polaris_mcp_dmesg_exec_t)
polaris_bexecute_domtrans(polaris_mcp_dmesg_t)
dmesg_domtrans(polaris_mcp_dmesg_t)
corecmd_exec_bin(polaris_mcp_dmesg_t)
polaris_smand_use_fifo(polaris_mcp_dmesg_t)
auth_use NSSwitch(polaris_mcp_dmesg_t)
telnet_use_ptys(polaris_mcp_dmesg_t)

# allow creation/access of temporary files like /tmp/sh-thd-1608024622
type polaris_mcp_dmesg_tmp_t;
files_type(polaris_mcp_dmesg_tmp_t)
files_tmp_file(polaris_mcp_dmesg_tmp_t)
files_tmp_filetrans(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
fs_getattr_tmpfs(polaris_mcp_dmesg_t)

# allowing reload_fru.sh for doing systemctl list-jobs
systemd_config_generic_services(polaris_bexecute_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/dev/quack -c gen_context(system_u:object_r:polaris_quack_device_t.s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarisdbm, 1.0);

gen_require(
    type polaris_dbm_t;
')

ifdef('nyquist_platform',
gen_require(
    type polaris_bt_logger_dbm_mqipc_t;
')

polaris_mqipc_create_name(polaris_dbm_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)

polaris_btrace_data_manage(polaris_dbm_t)
polaris_crft_data_manage(polaris_dbm_t)
polaris_chasfs_manage(polaris_dbm_t)
polaris_tdlresolve_read(polaris_dbm_t)
polaris_tdlldb_list_dirs(polaris_dbm_t)
polaris_cpdl_read(polaris_dbm_t)
polaris_flashlib_read(polaris_dbm_t)
polaris_ripc_sman_ui_serv_connect(polaris_dbm_t)
polaris_db_tdlldb_dir_use(polaris_dbm_t)
polaris_libeiutil_build_config_directory(polaris_dbm_t)
polaris_cfg_data_manage(polaris_dbm_t)

allow polaris_dbm_t self:capability { sys_resource };
allow polaris_dbm_t self:process setrlimit;

# dbm listen on 9090 port; in case of ultra only in tcp6
corenet_tcp_bind_websm_port(polaris_dbm_t)
polaris_dyncfg_tmp_read(polaris_dbm_t)
allow polaris_dbm_t self:capability dac_override;

# port 9090, is it exclusively wnc_mgrd port?
corenet_tcp_bind_polaris_wnc_mgrd_port(polaris_dbm_t)
allow polaris_dbm_t self:tcp_socket {shutdown};

# working dbm persistent files in /bootflash/dbpersist
type polaris_disk_dbm_t;
polaris_disk_type(polaris_disk_dbm_t)

polaris_tlddbpersist_setup(polaris_dbm_t)

# dbm on active syncs with /bootflash/dbpersist on standby
# related call dbm_persist_binary_cfg_sync_to_standby()
gen_require('
   type rsync_t;
')
rsync_entry_domtrans(polaris_dbm_t, rsync_t)

polaris_tmp_tlddb_persist_setup(polaris_dbm_t)

logging_send_syslog_msg(polaris_dbm_t)

corecmd_exec_bin(polaris_dbm_t)

corecmd_exec_shell(polaris_dbm_t)

# dbm needs access to "/flash1/user/.installer/install_issu_state"
polaris_disk_install_read(polaris_dbm_t)

# runs over /usr/bin/rsync
corenet_tcp_connect_rsync_port(polaris_dbm_t)

# tar invocation in dbm code necessitates this permission
auth_map_passwd(polaris_dbm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.te
No license file was found, but licenses were detected in source scan.

#
# Sep 2020, Sridhar C
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/tlscd(/.*)? gen_context(system_u:object_r:polaris_tlscd_uds_t:s0)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22901
Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/fp/lipc   -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/rp/lipc   -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/cc/lipc   -d gen_context(system_u:object_r:polaris_lipc_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisdmncsshdfwd, 1.0);

gen_require(
    type polaris_dmi_nccshd_fwd_t;
    )

polaris_btrace_data_manage(polaris_dmi_nccshd_fwd_t)
polaris_chasfs_manage(polaris_dmi_nccshd_fwd_t)
polaris_tdldresolve_read(polaris_dmi_nccshd_fwd_t)
polaris_tdlldb_list_dirs(polaris_dmi_nccshd_fwd_t)
polaris_cpld_read(polaris_dmi_nccshd_fwd_t)
polaris_flashlib_read(polaris_dmi_nccshd_fwd_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_nccshd_fwd_t)

allow polaris_dmi_nccshd_fwd_t self:unix_stream_socket create_stream_socket_perms;

type polaris_dmi_nccshd_log_t;
files_tmp_file(polaris_dmi_nccshd_log_t)
manage_files_pattern(polaris_dmi_nccshd_fwd_t, polaris_dmi_nccshd_log_t, polaris_dmi_nccshd_log_t)
manage_sock_files_pattern(polaris_dmi_nccshd_fwd_t, polaris_dmi_nccshd_log_t, polaris_dmi_nccshd_log_t)
files_tmp_filetrans(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, { file sock_file })

logging_send_syslog_msg(polaris_dmi_ncsshd_fwd_t)

polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)

# allow to execute execute_confd_cli.sh under confd domain
polaris_confd_domtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexecute_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexecute(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/bin/os/conf/cyan_init.sh -- gen_context(system_u:object_r:polaris_dynconfig_exec_t,s0)
/usr/bin/os/conf/dynconfig_setup.sh -- gen_context(system_u:object_r:polaris_dynconfig_exec_t,s0)

# temp files created by cyan_init.sh
/tmp/cyan/cyan.log         gen_context(system_u:object_r:polaris_dynconfig_log_t,s0)
/tmp/cyan/cyan_runtime.log gen_context(system_u:object_r:polaris_dynconfig_log_t,s0)

/tmp/cyan/(.*)?             gen_context(system_u:object_r:polaris_dynconfig_tmp_t,s0)
/tmp/cyan\.lock             gen_context(system_u:object_r:polaris_dynconfig_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris bexecute Policy Rules.</summary>

########################################################################
## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>

interface(`polaris_bexecute_domtrans`,
gen_require(`
type polaris_bexecute_t, polaris_bexecute_exec_t;
`)
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bexecute_exec_t, polaris_bexecute_t)
`

## <summary>
## Allow domain to be started by bexecute with transition into specific service domain.
## </summary>
## <param name="domain">
## Type to be used to run utility.
## </param>
## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </param>

interface(`polaris_bexecute_domain`,
gen_require(`
type polaris_bexecute_t;
`)
)
domtrans_pattern(polaris_bexecute_t, $2, $1)
`

## <summary>
## Execute mcp_chvrf.sh in the polaris_chvrf domain.
## </summary>
## <param name="domain">
##<PARAM>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_chvrf_domtrans',`
gen_require(`
type polaris_chvrf_t, polaris_chvrf_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_chvrf_exec_t, polaris_chvrf_t)
')

########################################
## Execute mcp_chvrf.sh in the caller domain.
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_exec_chvrf`,
gen_require(`
type polaris_chvrf_exec_t;
')

corecmd_search_bin($1)
can_exec($1, polaris_chvrf_exec_t)
')

########################################
## Execute ngio_module_session.sh in the polaris_ngio_module_session domain
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed to transition.
##   </summary>
## </param>
#
interface(`polaris_ngio_module_session_domtrans',`
gen_require(`
type polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_ngio_module_session_exec_t, polaris_ngio_module_session_t)

######################################
### <summary>
### Allow the specified domain to send signals to any
### polaris process.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_send_signal_to_bexecute',
    gen_require('t
    type polaris_bexecute_t;
    ')

    allow $1 polaris_bexecute_t:process signal_perms;
')

######################################
# <summary>
# Allow manage of polaris_bash_tmp_t.
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
# interface('polaris_bash_tmp_manage',
#    gen_require('user_home_dir_t;
#        type polaris_bbash_tmp_t;
#        ')
#     manage_dirs_pattern($1, user_home_dir_t, polaris_bbash_tmp_t)
#     manage_files_pattern($1, polaris_bbash_tmp_t, polaris_bbash_tmp_t)
# ')

######################################
## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.

```c
interface('polaris_bconsole_domtrans',
    gen_require(
        type polaris_bconsole_t, polaris_bconsole_exec_t;
    ')
)
corecmd_search_bin($1)
dontrans_pattern($1, polaris_bconsole_exec_t, polaris_bconsole_t)
')
```

## Send messages to ioucon unix datagram sockets.

```c
interface('polaris_ioucon_dgram_send',
    gen_require(
        type polaris_ioucon_t;
    ')
)
allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
')
```

## Execute cat9k-primary-capsule-upgrade.sh , cat9k-capsule-upgrade.sh in its own domain.

```c
interface('polaris_capsule_upgrade_domtrans',
    gen_require(
        type polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t;
    ')
)
corecmd_search_bin($1)
```
domtrans_pattern($1, polaris_capsule_upgrade_exec_t, polaris_capsule_upgrade_t)
')

###############################################################
## <summary>
## Work(open,create,append,getattr) with /capsule-upgrade.log file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_capsule_upgrade_log_use',
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_capsule_upgrade_log_t;
    )
) allow $1 polaris_capsule_upgrade_log_t:filesystem getattr;

filetrans_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log") manage_files_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log") create_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t) getattr_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t) append_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t) allow $1 polaris_capsule_upgrade_log_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisobfl, 1.0);

###############################################################
# Obf policy
###############################################################

type polaris_obf_data_t;
files_type(polaris_obf_data_t)
gen_require("
    type init_t;
    type default_t;
    type tmp_t;
    attribute domain;
")

filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl")
# edison uses obfl0 name
filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl0")
# /tmp/obfl
files_tmp_filetrans(domain, polaris_obfl_data_t, dir, "obfl")

# allow obfl data file reside on persistent storage
polaris_pfile_type(polaris_obfl_data_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisbtlogger, 1.0);

gen_require("
    type polaris_bt_logger_t;
")
polaris_btrace_data_manage(polaris_bt_logger_t)
polaris_crft_data_manage(polaris_bt_logger_t)
polaris_chasfs_manage(polaris_bt_logger_t)
polaris_tdlresolve_read(polaris_bt_logger_t)
polaris_tdlldb_list_dirs(polaris_bt_logger_t)
polaris_cpld_read(polaris_bt_logger_t)
polaris_flashlib_read(polaris_bt_logger_t)
polaris_ripc_sman_ui_serv_connect(polaris_bt_logger_t)
polaris_db_tdlldb_dir_use(polaris_bt_logger_t)

# mqipc manual, one that missing in platform tdl file

*******************************************************************************
# mqipc manual, one that missing in platform tdl file
*******************************************************************************
# mq.-bt_logger_dbm
type polaris_bt_logger_dbm_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_dbm_mqipc_t)

# mq.-bt_logger_fman-rp
type polaris_bt_logger_fman_rp_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_fman_rp_mqipc_t)

# mq.-bt_logger_iosd
type polaris_bt_logger_iosd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_iosd_mqipc_t)

# mq.-bt_logger_smd
type polaris_bt_logger_smd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_smd_mqipc_t)

polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)

allow polaris_bt_logger_t self:capability { dac_override };
gen_require(
    type polaris_confd_ndbutil_lock_t;
    type polaris_gnmib_ndbutil_t;
')

filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t, file, $2)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t)

allow $1 polaris_gnmib_ndbutil_t:file { watch watch_reads };
')

########################################
## <summary>
##  Allow reading gnoi image files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_gnmib_gnoi_images_read',
    gen_require(
        type polaris_gnmib_gnoi_images_t;
')

read_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
')

########################################
## <summary>
##  Allow manage gnoi image files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_gnmib_gnoi_images_manage',
    gen_require(
        type polaris_gnmib_gnoi_images_t;
')

manage_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
')
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polaristldldb, 1.0);

##############################################################################
# Polaris tdldb (infra/tdlldb)
##############################################################################
type polaris_tdldb_t;
polaris_tdldb_type(polaris_tdldb_t)

attribute polaris_tdldb;

# any process creating tdldb in /tmp/rp/tdldb should transition into its domain
gen_require(`
    attribute domain;
`)
files_tmp_filetrans(domain, polaris_tdldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL
type polaris_dir_db_tdldb_t;
polaris_tdldb_type(polaris_dir_db_tdlldb_t)

type polaris_tdldbPersist_t;
polaris_tdldb_type(polaris_tdldbPersist_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristldldb.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarislfts, 1.0);
type polaris_lfts_device_t;
dev_node(polaris_lfts_device_t)

# "ip netns add foo" commands mounts "foo" under "/var/run/netns"
gen_require(' type ifconfig_t;
    type var_run_t;
')
allow ifconfig_t var_run_t:dir mounton;

# "ip netns exec 16 sysectl -w net.core.vrfid=16" commands mounts "16" to "/sys"
gen_require(' type ifconfig_t;
    type unlabeled_t;
')
allow ifconfig_t unlabeled_t:dir mounton;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

/var/tmp/trace/nginx_access.log         gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx_error.log          gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.pid               gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.accept       gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.cookie_tbl   gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.login_count  gen_context(system_u:object_r:httpd_log_t, s0)
/tmp/nginx_aaa                        gen_context(system_u:object_r:polaris.nginx_tmp_t, s0)
/tmp/nginx_master                     gen_context(system_u:object_r:polaris.nginx_tmp_t, s0)
/tmp/nginx_session                    gen_context(system_u:object_r:polaris.nginx_tmp_t, s0)

# /tmp base folder for nginx apps to create temporary files.
/tmp/nginx_webui_tmp   -d  gen_context(system_u:object_r:polaris.nginx_tmp_t, s0)
/tmp/nginx            -d  gen_context(system_u:object_r:polaris.nginx_tmp_t, s0)

# Polaris WebUI Aireos translator files
/usr/binos/conf/aireos_translate_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_aireos_translator_exec_t, s0)
/var/scripts/python/aireosConfigTranslator(/.*)? --
gen_context(system_u:object_r:polaris_aireos_translator_scripts_t, s0)

/var/scripts/webui_install.sh gen_context(system_u:object_r:polaris_nginx_webui_exec_t, s0)
/usr/binos/conf/webui_upgrade_helper.sh gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/webui_smu_helper.sh  gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf(ra_trace_webui_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_trace_filter_exec_t, s0)
/usr/binos/conf/nginx-conf  gen_context(system_u:object_r:httpd_config_t, s0)
/usr/binos/conf/nginx-conf/servers  gen_context(system_u:object_r:httpd_config_t, s0)
/tmp/fts_client  gen_context(system_u:object_r:polaris_fts_client_tmp_t, s0)
/usr/binos/conf/nginx_helper.sh  gen_context(system_u:object_r:polaris_nginx_helper_exec_t, s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.fc
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarismdtpubd, 1.0);

gen_require(
  type polaris_mdt_pubd_t;
  )

polaris_btrace_data_manage(polaris_mdt_pubd_t)
polaris_chasfs_manage(polaris_mdt_pubd_t)
polaris_tdlresolve_read(polaris_mdt_pubd_t)
polaris_tdlldb_list_dirs(polaris_mdt_pubd_t)
polaris_cpdl_read(polaris_mdt_pubd_t)
polaris_lua_read(polaris_mdt_pubd_t)
polaris_flashlib_read(polaris_mdt_pubd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mdt_pubd_t)
polaris_db_tdlldb_dir_use(polaris_mdt_pubd_t)

#For initializing capabilities DB cfg file
polaris_libeiutil_build_config_directory(polaris_mdt_pubd_t)
polaris_cfg_data_manage(polaris_mdt_pubd_t)
optional_policy('  
    # deals with /dev/shm/confd setup (schema and pid)  
    polaris_conf_id_shm_setup(polaris_mdt_pubd_t)  
    # and allow read shared schema  
    polaris_conf_id_shared_schema_read(polaris_mdt_pubd_t)  
    # read /proc/confd_pid/exe file  
    polaris_conf_id_read(polaris_mdt_pubd_t)  
    ')

    # pubd could be configured to connect any port on DNAC  
    # please see cndp_setup_tcp_socket function  
    polaris_lfts_dev_use(polaris_mdt_pubd_t)  
    corenet_tcp_connect_all_ports(polaris_mdt_pubd_t)

    polaris_ndbload_lock_use(polaris_mdt_pubd_t)

    corenet_tcp_connect_polaris_pttcd_port(polaris_mdt_pubd_t)

    corenet_tcp_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)  
    corenet_tcp_bind_all_unreserved_ports(polaris_mdt_pubd_t)

    allow polaris_mdt_pubd_t self:capability { dac_override dac_read_search };  

    # create ndbutil directory under /var/lock  
    polaris_conf_id_ndbutil_create(polaris_mdt_pubd_t)

    polaris_ndbutil_lock_template(polaris_mdt_pubd_t, pubd, ".l.schema_use.pubd")

    # grpc library through sysconf accesses /sys/devices/system/cpu  
    # to get number of CPUs  
    dev_read_sysfs(polaris_mdt_pubd_t)

    # handling /tmp/rp/.telemetry and /tmp/rp/telemetry  
    type polaris_mdt_pubd_tmp_t;  
    files_tmp_file(polaris_mdt_pubd_tmp_t)  
    files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, ".telemetry")  
    files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, "telemetry")

    gen_require('  
        type tmp_t;
        ')

    manage_dirs_pattern(polaris_mdt_pubd_t, { tmp_t polaris_mdt_pubd_tmp_t }, polaris_mdt_pubd_tmp_t)  
    manage_files_pattern(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t)

    # from evconfd_dynamic_load  
    polaris_conf_id_shared_schema_watch(polaris_mdt_pubd_t)

    # allow grpc library to shutdown socket  
    allow polaris_mdt_pubd_t self:tcp_socket create_socket_perms;
# allow pubd to access logging facility
logging_send_syslog_msg(polaris_mdt_pubd_t)

# enabling access to /etc/netns and /etc/hosts
polaris_namespace_set_netns_with_etc(polaris_mdt_pubd_t)
gen_require(' type net_conf_t;
')
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, dir, "netns")

# allow pubd to create, modify, delete system network config files/dir
sysnet_manage_config(polaris_mdt_pubd_t)
sysnet_manage_config_dirs(polaris_mdt_pubd_t)

# allow pubd to connect socket
allow polaris_mdt_pubd_t self:udp_socket connect;

# allow pubd (object net_conf_t) to watch /etc/netns/1/resolv.conf
allow polaris_mdt_pubd_t net_conf_t:{file dir} watch;

# read access to /dev/random
dev_read_rand(polaris_mdt_pubd_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tldb_persist_setup(polaris_mdt_pubd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisstackmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.fc
No license file was found, but licenses were detected in source scan.

dnl
policy_module(polarisperiodic, 1.0);

gen_require(
    type polaris_periodic_t;
')

corecmd_exec_bin(polaris_periodic_t)
corecmd_exec_shell(polaris_periodic_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_periodic_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_periodic_t)

# run ld, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_periodic_t)

# read /etc/init.d/common-utility-functions
init_read_script_files(polaris_periodic_t)

fs_getattr_all_fs(polaris_periodic_t)

# work with /tmp files
type polaris_periodic_tmp_t;
files_tmp_file(polaris_periodic_tmp_t)
manage_files_pattern(polaris_periodic_t, tmp_t, polaris_periodic_tmp_t)
files_tmp_filetrans(polaris_periodic_t, polaris_periodic_tmp_t, file)

allow polaris_periodic_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_periodic_t)
polaris_chasfs_manage(polaris_periodic_t)
polaris_cpld_read(polaris_periodic_t)
polaris_proc_rmonbifo_read(polaris_periodic_t)
polaris_rmonbifo_tmp_read(polaris_periodic_t)
polaris_boot_tmp_read(polaris_periodic_t)
polaris_read_debug_conf(polaris_periodic_t)
polaris_persistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polaris_install_tmp_read(polaris_periodic_t)

optional_policy('polaris_ncd_tmp_read(polaris_periodic_t)
')

# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)

# "install add file" CLI triggers logger executing "pidof linux_iosd-image" which
# read "/sys/devices/system/cpu/online"
dev_read_sysfs(polaris_periodic_t)

# /usr/binos/conf/cleanup.sh do_cleanup does packages and other umount calls
mount_domtrans(polaris_periodic_t)
polaris_sw_data_manage(polaris_periodic_t)

# determine if the installer is executing
domain_read_all_domains_state(polaris_periodic_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_periodic_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)
/tmp/microcode_update(\.*\)? gen_context(system_u:object_r:polaris_ngwc_plfm_mng_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisfpm, 1.0);

gen_require(`
    type polaris_fpm_t;
`)
polaris_chasfs_manage(polaris_fpm_t)
polaris_cpld_read(polaris_fpm_t)
polaris_flashlib_read(polaris_fpm_t)
polaris_tdlresolve_read(polaris_fpm_t)
polaris_ripc_sman_ui_serv_connect(polaris_fpm_t)
polaris_db_tdlldb_dir_use(polaris_fpm_t)
logging_send_syslog_msg(polaris_fpm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_fpm_t)

# /var/run/fpm socket and pid
type polaris_fpm_var_run_t;
files_pid_file(polaris_fpm_var_run_t)
manage_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
manage_sock_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
files_pid_filetrans(polaris_fpm_t, polaris_fpm_var_run_t, { file sock_file })
polaris_ttm_var_sock_write(polaris_fpm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_fpm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_fpm_t)
files_manage_boot_files(polaris_fpm_t)

polaris_cedge_tmpfs_manage(polaris_fpm_t)

polaris_fmrp2fpm_mqipc_use(polaris_fpm_t)

# manually create mqipc channel: missing in TDL
type polaris_fpm2fmrp_mqipc_t;
polaris_mqipc_type(polaris_fpm2fmrp_mqipc_t)
polaris_mqipc_create_name(polaris_fpm_t, polaris_fpm2fmrp_mqipc_t, fpm2fmrp_vulcan_mqipc)

# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_fpm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl
divert(-1)

include(`polaris_process.m4')
include(`polaris_process_te.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_te.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_te.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_te.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server','
define(`polaris_cipc_service_server','"

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformipcauto, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris polarisbhytoolsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/tdlresolve_tmp(/.*)? gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/tmp/tdlresolve(/.*)? gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/usr/binos/conf/global.service.conf -- gen_context(system_u:object_r:polaris_global_service_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.fc
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris ttm Policy Rules.</summary>

#####################################################################
## <summary>
## Write ttm /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_ttm_var_sock_write',
  gen_require(
    type polaris_ttm_t;
    type polaris_ttm_var_run_t;
    type var_run_t;
  ')
  write_sock_files_pattern($1, var_run_t, polaris_ttm_var_run_t)
  allow $1 polaris_ttm_t:unix_stream_socket { connectto ;}
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.if
No license file was found, but licenses were detected in source scan.
#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris CYAN Policy Rules.</summary>

###########################################
##	Execute dyncfg in the dyncfg domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_dyncfg_domtrans',
  gen_require(
    type polaris_dyncfg_t, polaris_dyncfg_exec_t;
  ')
  corecmd_search_bin($1)
  domtrans_pattern($1, polaris_dyncfg_exec_t, polaris_dyncfg_t)
```c

#ifndef DYNCFG_TMP_ACCESS_H
#define DYNCFG_TMP_ACCESS_H

#include "dynconfig.h"

enum { tmp_t = DYNCFG_TMP_BASE, polaris_dyncfg_tmp_t = DYNCFG_TMP_BASE + 1000000000, ... }

int allow($1) {
    return $1;
}

int auth_read_passwd($1) {
    return $1;
}

int gen_require(
    type polaris_dyncfg_tmp_t;
    type tmp_t;
)

int read_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
int read_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;

int manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
int manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;

#endif
```

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22923
-------------------------------------------
## <summary>
##      Execute /tmp/dyncfg/N initialization within given domain.
##
##      Effectively one need this if it needs to run dyncfg_db_run_init_script,
##      dyncfg_db_init functions within domain context.
##      
##      Note it involves lua execution that leads to execmem. Also lua script 
##      may execve shell and some other simple bin processes like mkdir or ln.
##
##      
##      
##      </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_dyncfg_setup',`
   gen_require(`
      type polaris_dyncfg_tmp_t;
      type tmp_t;
   `)
   files_tmp_filetrans($1, polaris_dyncfg_tmp_t, dir, "cyan")
   manage_dirs_pattern($1, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
   manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
   manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
   allow $1 polaris_dyncfg_tmp_t:file map;

   # dyncfg_setup calls luajit and luajit needs execute JIT generated code
   allow $1 self:process execmem;

   # LOOK AT ME lua initialization code still uses system function call do some
   # trivial things like mkdir. But because of that we need to grant shell and
   # bin access to all callers of
   corecmd_exec_shell($1)
corecmd_exec_bin($1)

   # In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
   # by opening (why open, not stat) wncmgrd binary.
   optional_policy(`
      gen_require(`
         type polaris_wncmgrd_exec_t;
         type bin_t;
      `)
      read_files_pattern($1, bin_t, polaris_wncmgrd_exec_t)
   `)
')
lua code reads /tmp/sw/boot/rmonbifo/boardtype
polaris_rmonbifo_tmp_read($1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2021 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polariscppcp, 1.0);

gen_require(''
    type polaris_cpp_cp_t;
')
polaris_btrace_data_manage(polaris_cpp_cp_t)
polaris_crft_data_manage(polaris_cpp_cp_t)
polaris_chasfs_manage(polaris_cpp_cp_t)
polaris_tdlresolve_read(polaris_cpp_cp_t)
polaris_tdlldb_list_dirs(polaris_cpp_cp_t)
polaris_cpld_read(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_cp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_cp_t)
polaris_cpp_process(polaris_cpp_cp_t)
polaris_cpp_dev_use(polaris_cpp_cp_t)
polaris_icc_broken_relocations(polaris_cpp_cp_t)
logging_send_syslog_msg(polaris_cpp_cp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cp_t)

# # LOOK AT ME: raw memory access in cavium vendor SDK
# # related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family','
    polaris_dev_mem_use(polaris_cpp_cp_t)
')
# cpp_palci_wallclock_time_ticks function reads /var/lock/subsys/sntp.offset
files_read_all_locks(polaris_cpp_cp_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_cp_t)

optional_policy(
  polaris_spa_dev_use(polaris_cpp_cp_t)
')

# handle geodb file access
polaris_geodb_files_manage(polaris_cpp_cp_t)

optional_policy(
  polaris_cbdma_dev_use(polaris_cpp_cp_t)

polaris_hkp_dev_use(polaris_cpp_cp_t)
# Access /dev/astro
polaris_astro_dev_use(polaris_cpp_cp_t)
polaris_vega_dev_use(polaris_cpp_cp_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_cp_t)
polaris_cpld_dev_use(polaris_cpp_cp_t)

polaris_btrace_data_manage(polaris_cpp_stats_t)
polaris_crft_data_manage(polaris_cpp_stats_t)
polaris_chasfs_manage(polaris_cpp_stats_t)
polaris_tdlresolve_read(polaris_cpp_stats_t)
polaris_tdlldb_list_dirs(polaris_cpp_stats_t)
polaris_cpld_read(polaris_cpp_stats_t)
polaris_flashlib_read(polaris_cpp_stats_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_stats_t)

polaris_cpp_tmp_files_use(polaris_cpp_stats_t)
# works with /dev/cpp_dev_info, /dev/cpp and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_stats_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_stats_t)

do_sman_ripc_ui_serv_connect(polaris_cpp_stats_t)

polaris_icc_broken_relocations(polaris_cpp_stats_t)

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_stats_t)

optional_policy (
    polaris_cbdma_dev_use(polaris_cpp_stats_t)
)
polaris_cpp_tmpfs_manage(polaris_cpp_stats_t)
polaris_cpld_dev_use(polaris_cpp_stats_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarislm, 1.0);

gen_require ('
    type polaris_lm_t;
    
')
polaris_btrace_data_manage(polaris_lm_t)
polaris_crft_data_manage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tdlresolve_read(polaris_lm_t)
polaris_tddldb_list_dirs(polaris_lm_t)
polaris_cpld_read(polaris_lm_t)
polaris_flashlib_read(polaris_lm_t)

polaris_ripc_sman_ui_serv_connect(polaris_lm_t)

allow polaris_lm_t self:capability { dac_override };
# allow to read /proc/mtd
kernel_read_system_state(polaris_lm_t)

# work with /tmp files (/tmp/iosd_level)
type polaris_lm_tmp_t;
files_tmp_file(polaris_lm_tmp_t)
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "iosd_level")
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "stack_apcount")
manage_files_pattern(polaris_lm_t, tmp_t, polaris_lm_tmp_t)

polaris_dyncfg_tmp_read(polaris_lm_t)
polaris_disk_license_manage(polaris_lm_t)
polaris_disk_csl_manage(polaris_lm_t)
logging_send_syslog_msg(polaris_lm_t)

polaris_lua_read(polaris_lm_t)
# permission to access /tmp/rp/lipc/lmanrtu_stackrtu_socket
# polaris_lm_t policy
allow polaris_lm_t self:unix_stream_socket connectto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/bin/os/conf/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarislipc, 1.0);

###############################################################################
# LIPC policy
###############################################################################
gen_require(''
    type polaris_pvp_t;
    attribute polaris_extended_domain;
')

type polaris_lipc_t;
files_type(polaris_lipc_t)

files_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
init_script_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")

# in some cases pvp.sh creates lipc tmp directory it needs permisions for that
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_lipc_t)

gen_require(''
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_lipc_t, dir, "lipc")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarislipc.te
No license file was found, but licenses were detected in source scan.

# # September 2018, Anubha Balani
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#
### <summary>Polaris Memory Service Policy Rules.</summary>

###############################################################################
# Polaris memory: libmaroon and such
###############################################################################

###############################################################################
### <summary>
### Allow the specified domain to check existence of
### /lib/systemd/system/ksm.service file. Effectively checking
### whether KSM kernel feature is enabled on device or not.
### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ksm_run_check',`
   gen_require(
      type systemd_unit_file_t;
   )

   getattr_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)
')

########################################
## <summary>
##      Manage temporary maroon files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_maroon_data_manage_all',`

gen_require(
   attribute polaris_maroon_data_domain;
   type polaris_maroon_base_t;
   )

   manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_data_domain)
   allow $1 polaris_maroon_data_domain:file map;

   # manage temporary files in maroon_stats directory
   manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)
')

########################################
## <summary>
##	Make the specified type usable as maroon data file type.
## </summary>
## <param name="type">
##	<summary>
##	Type to be used for files.
##	</summary>
## </param>
#
interface('polaris_maroon_data_type',
    files_type($1)
    gen_require(
        attribute polaris_maroon_data_domain;
    )
    typeattribute $1 polaris_maroon_data_domain;
)

#######################################
## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
## <param name="file_type">
##   <summary>
##       File type of maroon that corresponds to given domain.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_maroon_data_client',
    gen_require(
        type polaris_maroon_base_t;
    )
    manage_files_pattern($1, polaris_maroon_base_t, $2)
    allow $1 $2:file map;
    filetrans_pattern($1, polaris_maroon_base_t, $2, file)
)

#######################################
## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain_stem">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_maroon_data_client_template',
    gen_require("}
type polaris_maroon_base_t;
'

type polaris_$1_maroon_t;
polaris_maroon_data_type(polaris_$1_maroon_t)

polaris_maroon_data_client(polaris_$1_t, polaris_$1_maroon_t)
')

########################################################################
## <summary>
##      Getattr of polaris_zram_device_t files
## </summary>
## <param name="domain">
##   Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_zram_getattr`,
   gen_require(`
     type device_t;
     type polaris_zram_device_t;
   `)
  getattr_blk_files_pattern($1, device_t, polaris_zram_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/bootflash/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisreflector, 1.0);

polaris_process_domain_template(reflector)

corecmd_exec_bin(polaris_reflector_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_reflector_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_reflector_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_reflector_t)

# read /etc/hosts file
sysnet_read_config(polaris_reflector_t)

# work with /tmp files
type polaris_reflector_tmp_t;
files_tmp_file(polaris_reflector_tmp_t)
manage_dirs_pattern(polaris_reflector_t, tmp_t, polaris_reflector_tmp_t)
manage_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
manage_fifo_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
files_tmp_filetrans(polaris_reflector_t, polaris_reflector_tmp_t, { file dir })

# reflector can work with droputil tmp files
polaris_droputil_manage_tmp_files(polaris_reflector_t)

#rsync_exec(polaris_reflector_t)
gen_require(''
    type rsync_t;
')
rsync_entry_domtrans(polaris_reflector_t, rsync_t)
allow rsync_t polaris_reflector_t:process sigchld;
# upon exec rsync inherits reflector.sh stdout/stderr which are
# polaris_reflector_t fifo_files
allow rsync_t polaris_reflector_t:fifo_file write;

allow polaris_reflector_t self:capability { sys_resource dac_override };
allow polaris_reflector_t self:process setpgid;

polaris_btrace_data_manage(polaris_reflector_t)
polaris_cpld_read(polaris_reflector_t)
polaris_chasfs_manage(polaris_reflector_t)
polaris_boot_tmp_read(polaris_reflector_t)
polaris_read_debug_conf(polaris_reflector_t)
polaris_disk_crashinfo_getattr(polaris_reflector_t)
polaris_rmonbifo_tmp_read(polaris_reflector_t)

# watch over /tmp/rp/dropbox
polaris_droputil_tmp_watch(polaris_reflector_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/hardisk read access
optional_policy('polaris_ncd_tmp_read(polaris_reflector_t)')

# 'rm -rf /tmp/rp/reflecto'
fs_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarispman, 1.0);

polaris_process_domain_template(pman)

#reassess all permissions granted here for new pman
# - do we clone this domain to pmanc, or replace it?

gen_require('type polaris_psvp_t;

   type polaris_pvp_t;

')

corecmd_exec_bin(polaris_pman_t)
corecmd_exec_shell(polaris_pman_t)

# can execute process in polaris domain
polaris_exec(polaris_pman_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. Ie it need quite a bit of priviledges
domain_read_all_domains_state(polaris_pman_t)

# pman wants to write to /proc/<pid>/oom_adj of each process
# it started. Now oom_adj is under label of process that owns
# it, so for now let pman to be able to write into any file
# in polaris_domain. Latter try to clean it up by transitioning
# oom_adj into separate domain?
gen_require('attribute polaris_domain;
')
manage_files_pattern(polaris_pman_t, polaris_domain, polaris_domain)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pman_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pman_t)

# read /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_pman_t)

# read/write cgroups files
fs_rw_cgroup_files(polaris_pman_t)

dmidecode_domtrans(polaris_pman_t)

allow polaris_pman_t self:capability { sys_nice sys_resource dac_override sys_rawio sys_admin };
polaris_btrace_data_manage(polaris_pman_t)
polaris_chasfs_manage(polaris_pman_t)
polaris_cpld_read(polaris_pman_t)
ifdef(`ngwc_family',`
polaris_cpld_write(polaris_pman_t)
')
polaris_proc_rmonbifo_read(polaris_pman_t)
polaris_rmonbifo_tmp_read(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)
polaris_read_debug_conf(polaris_pman_t)
polaris_disk_crashinfo_getattr(polaris_pman_t)

# work with /tmp files
type polaris_pman_tmp_t;
files_tmp_file(polaris_pman_tmp_t)
manage_dirs_pattern(polaris_pman_t, tmp_t, polaris_pman_tmp_t)
manage_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
manange_fifo_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
files_tmp_filetrans(polaris_pman_t, polaris_pman_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "process")
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "pman_ports")

# pcocohort reads files in /tmp/rp/process directory
gen_require(
    attribute polaris_extended_domain;
)
read_files_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)

# bash needs setpgid in its make_child function
allow polaris_pman_t self:process { setpgid };

# pmanlite uses getsid
allow polaris_pman_t self:process { getsession };

# pman call renice utility to change process nice level
allow polaris_pman_t self:process { setsched };

# pman needs to work with pvp tmp files
polaris_pvp_manage_tmp_files(polaris_pman_t)

# on ultra pman waits for /tmp/cpp_ifdev_rep pipes appearence before
# proceeding further before it starts iosd
optional_policy(
    polaris_cpp_tmp_ifdev_getattr(polaris_pman_t)
)

# /tmp/vxe_ucode_image created by some systemd units and accessed
# by pman, lets transition it into polaris_pman_tmp_t domain
gen_require(
    type initreq_t;
    type init_t;
)
files_tmp_filetrans({ initreq_t init_t }, polaris_pman_tmp_t, file, "vxe_ucode_image")
files_tmp_filetrans({ initreq_t init_t }, polaris_pman_tmp_t, file, "wlc_ucode_image")
files_tmp_filetrans({ initreq_t init_t }, polaris_pman_tmp_t, file, "utah_ucode_image")
files_tmp_filetrans({ initreq_t init_t }, polaris_pman_tmp_t, file, "fugazi_ucode_image")

# pman needs to manage cgroups membership of different processes
# See move_to_cgroup pman function. It needs setsched permission
domain_setpriority_all_domains(polaris_pman_t)

# pman.sh can call logger command
logging_send_syslog_msg(polaris_pman_t)

# pman can receive signals from any polaris domain process
polaris_receive_signal_from_domain(polaris_pman_t)

# pman.sh calls pidof command (similar to ps)
# pidof needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_pman_t)
# pidof commands wants sys_ptrace
allow polaris_pman_t self:capability sys_ptrace;

# pman can send signal to anything
domain_signal_all_domains(polaris_pman_t)

# pmanlite can getpgid to its child group processes
domain_getpgid_all_domains(polaris_pman_t)

# pmanlite uses killpg(<child pid>,SIGNULL) to test its child processes
domain_signull_all_domains(polaris_pman_t)

term_use_unallocated_ttys(polaris_pman_t)

optional_policy('
polaris_repm_tmp_manage(polaris_pman_t)
')

optional_policy('
# pman on nyquist ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_pman_t)
')

# runs find over /proc
kernel_getattr_proc(polaris_pman_t)

# PLEASE LOOK AT ME: pman removes /tmp/subpkg directory after CSCvm14562 commit
# back out and change properly after CSCvm51181 is fixed
polaris_install_tmp_manage(polaris_pman_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_pman_t)
fs_getattr_xattr_fs(polaris_pman_t)

# domain for gdbserver started by pman
polaris_utility_domain_template(gdb)

domtrans_pattern(polaris_pman_t, polaris_gdb_exec_t, polaris_gdb_t)

# pman starts gdbserver with stdout pointing to btrace fifo
polaris_use_btrace_fifo(polaris_gdb_t)
# gdbserver reads /proc/$pid/exe of a process it gets attached to.
# Allow to read state of all processes for now.
domain_read_all_domains_state(polaris_gdb_t)

# allow gdbserver to bind to all unreserverd ports for now
corenet_tcp_bind_unreserved_ports(polaris_gdb_t)
corenet_tcp_bind_generic_node(polaris_gdb_t)

allow polaris_gdb_t self:process { ptrace setpgid };
allow polaris_gdb_t self:tcp_socket { accept bind create getattr listen setopt };

# pman update iosxe_control_processes/iosxe_mgmt_processes/tasks
fs_manage_cgroup_dirs(polaris_pman_t)
fs_manage_cgroup_files(polaris_pman_t)

optional_policy(
    container_runtime_domtrans(polaris_pman_t)
)

# pman calls show_version for dockerd executable
optional_policy(
    polaris_container_runtime_show_version(polaris_pman_t)
)

# needs to access nsfs file during killall invocation
fs_read_nsfs_files(polaris_pman_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pman_t)

# runs over /proc/<pid>/net/stat
kernel_read_network_state_symlinks(polaris_pman_t)

# runs over /proc/<pid>/net/rpc
kernel_read_rpc_sysctls(polaris_pman_t)

# LOOK AT ME: why pman doing it
# from mgmt/confd/confd/src/confd_startup_sh_post_exit.sh archive_errlog function
polaris_btrace_persistent_data_manage(polaris_pman_t)
polaris_confd_log_manage(polaris_pman_t)
allow polaris_pman_t self:process setfscreate;

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_pman_t)

# /usr/binos/conf/umbrella_init.sh that runs under pman
# copies into /bootflash/ios_core.p7b
polaris_bootflash Manage(polaris_pman_t)
optional_policy(
  # we may write bits to the exiting_bays file in /proc
  polaris_rw_exiting_bays(polaris_pman_t)
  )

ifdef(`ngwc_family',
  # linux_iosd_image_post_exit.sh restores the slot-based address
  # for the management ethernet should be restored on dual RP system.
  polaris_chvrf_domtrans(polaris_pman_t)
  sysnet_domtrans_ifconfig(polaris_pman_t)

  # For use of flashutil preparing for reload
  polaris_flashlib_read(polaris_pman_t)
  polaris_flashlib_write(polaris_pman_t)
  )

  # File description leaks for TDL db lock files as processes are managed by
  # pman.
  # TODO Eventually these fd leaks should be fixed in the calling processes
  #
  # Note that TDL db lock file interfaces are typically generated by TDL and
  # are not found in our local .if files
  polaris_tdlresolve_read(polaris_pman_t)
  polaris_db_tdldb_ios_oper_use(polaris_pman_t)

  ifdef(`nyquist_platform',
    polaris_db_tdldb_ewlc_operational_use(polaris_pman_t)
    polaris_db_tdldb_rogued_use(polaris_pman_t)
    polaris_db_tdldb_ewlc_config_use(polaris_pman_t)
    polaris_db_tdldb_wstatsd_use(polaris_pman_t)
    polaris_db_tdldb_client_global_use(polaris_pman_t)
    )

  # delete /tmp/booted from linux_iosd_image_post_exit.sh when iosd goes down.
  # For example: preparing for reload.
  gen_require(
    type polaris_iosd_tmp_files_t;
    )
  allow polaris_pman_t polaris_iosd_tmp_files_t:file { delete_file_perms open };

  # Upon exit of a process, pman needs to remove sai directory and files
  # associated with the process
  polaris_pvp_delete_sai_files(polaris_pman_t)
  # rsync port want to establish Tcp connection
  # runs over /usr/bin/rsync
  corenet_tcp_connect_rsync_port(polaris_pman_t)
  rsync_entry_type(polaris_pman_t)
ifdef(`crankshaft_family',`
  # Provide process signal perms to pman.
  polaris_caf_proc_signal_perms(polaris_pman_t)
')

# open connections from processes managed by pman can leak. The selinux
# errors associated with these typically come from a forked and renamed
# elastic process like wncd_0. During process forking/startup, node
# binds may cause denials as they are brought up by pman
ifdef(`ngwc_family',`
  corenet_tcp_bind_generic_node(polaris_pman_t)
  corenet_udp_bind_generic_node(polaris_pman_t)
  corenet_tcp_connect_lisp_cons_control_port(polaris_pman_t)
')

# pman can stop itself on reload
allow polaris_pman_t self:capability kill;

# For pmanlite, allow pman's grand-children rsync to be able to operate on pipe created by pman.
gen_require(`
  type rsync_t;
')

polaris_use_pman_fifo(rsync_t)

ifdef(`sumatra_platform',`
  # Allow pman to execute cman_fp in the polaris_cm_fp_t domain
  polaris_cm_fp_domtrans(polaris_pman_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/nyquistmaps.m4

No license file was found, but licenses were detected in source scan.

# Aug 2020, Sridhar
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris xcopy Policy Rules.</summary>

#######################################
##      Execute xcopy related scripts in its own domain.
## </summary>
## <param name="domain">
##      Domain allowed to transition.
## </param>
#
# interface('polaris_xcopy_script_domtrans',
#     gen_require(
#         type polaris_xcopy_script_t, polaris_xcopy_script_exec_t;
#     ')
#
#     domtrans_pattern($1, polaris_xcopy_script_exec_t, polaris_xcopy_script_t)
# ')
#
# xcopy progress temp file access
#
## <summary>
##      Domain allowed access.
## </summary>
## <param>
## <rolebase/>
#
interface('polaris_xcopy_tmp_manage',
    gen_require('type polaris_xcopy_tmp_t;
    
    manage_dirs_pattern($1,polaris_xcopy_tmp_t,polaris_xcopy_tmp_t)
    manage_files_pattern($1,polaris_xcopy_tmp_t,polaris_xcopy_tmp_t)
    ')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.if
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris dmi_ncsshd_mgm Policy Rules.</summary>

####################################################
### <summary>
###      Read polaris_ncsshd_keys_t files, effectively access
### /tmp/.ncsshd_authorized_keys created by psd and read by ncsshd
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_ncsshd_authorized_keys_read',
    gen_require('type polaris_ncsshd_keys_t;
    
    read_files_pattern($1,polaris_ncsshd_keys_t,polaris_ncsshd_keys_t)
    list_dirs_pattern($1,polaris_ncsshd_keys_t,polaris_ncsshd_keys_t)
    ')

####################################################
### <summary>
###      Watch /var/run/netns and list contents
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22942
## <summary>
## Manage polaris_pttcd_tmp_t files, effectively files under /tmp/tmppub/interceptor
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_interceptor_manage',`
    gen_require(
        type polaris_pttcd_tmp_t;
    )
    manage_files_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
    manage_dirs_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
    allow $1 polaris_pttcd_tmp_t: { dir file } watch;
')

## <summary>
## Execute a domain transition to run ncsshd polaris process.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_ncsshd_mgmt_domtrans',`
    gen_require(
        type polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_exec_t;
    )
    domtrans_pattern($1, polaris_dmi_ncsshd_mgmt_exec_t, polaris_dmi_ncsshd_mgmt_t)
')
write_fifo_files_pattern($1, polaris_cm_rp_t, polaris_cm_rp_t)

#######################################
## <summary>
##      Write/read /tmp/pfu_oirtime.lock file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cm_rp_tmp_manage',
#   gen_require(
#      type polaris_cm_rp_tmp_t;
#      type tmp_t;
#   )
#   manage_dirs_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
#   manage_files_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
#

#######################################
## <summary>
##      Setup policies to access dir and file
##       /vol/harddisk/.inv/inv_log_file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cm_rp_inv_log_setup',
#   gen_require(
#      type polaris_cm_rp_inv_log_file_t;
#      type polaris_disk_harddisk_t;
#      type polaris_disk_bootflash_t;
#   )
#   filetrans_pattern($1, { polaris_disk_harddisk_t polaris_disk_bootflash_t }, polaris_cm_rp_inv_log_file_t, dir, ".inv")
#   # allow access to /vol/harddisk/.inv
#   manage_dirs_pattern($1, { polaris_disk_harddisk_t polaris_disk_bootflash_t }, polaris_cm_rp_inv_log_file_t)
#   # allow access to /vol/harddisk/inv/inv_log_file
#   manage_files_pattern($1, { polaris_cm_rp_inv_log_file_t }, polaris_cm_rp_inv_log_file_t)
## <summary>
##     Write into /tmp/codesign.txt file created by cm_rp
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed to transition.
##     </summary>
## </param>

interface(`polaris_cm_rp_tmp_write',`
    gen_require(`
        type polaris_cm_rp_tmp_t;
    `)
    write_files_pattern($1, [ tmp_t polaris_cm_rp_tmp_t ], polaris_cm_rp_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisvdaemon, 1.0);

gen_require(`
    type polaris_vdaemon_t;
`)

polaris_chasfs_manage(polaris_vdaemon_t)
# read and write /bootflash/sdwan/etc/vdaemon_gen_id
polaris_bootflash_manage(polaris_vdaemon_t)
polaris_tdlresolve_read(polaris_vdaemon_t)
polaris_cpld_read(polaris_vdaemon_t)
polaris_flashlib_read(polaris_vdaemon_t)
polaris_ripc_sman_ui_serv_connect(polaris_vdaemon_t)
polaris_db_tdlldb_dir_use(polaris_vdaemon_t)
logging_send_syslog_msg(polaris_vdaemon_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_vdaemon_t)
# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vdaemon_t)

polaris_cedge_reset_ns(polaris_vdaemon_t)

# calls ifconfig for tun_0_0 interface
sysnet_domtrans_ifconfig(polaris_vdaemon_t)

# calls dmidecode get system serial number
dmidecode_domtrans(polaris_vdaemon_t)

# /var/run/vdaemon socket and pid
type polaris_vdaemon_var_run_t;
files_pid_file(polaris_vdaemon_var_run_t)
manage_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
manage_sock_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
files_pid_filetrans(polaris_vdaemon_t, polaris_vdaemon_var_run_t, { file sock_file })

polaris_ttm_var_sock_write(polaris_vdaemon_t)

# generate_instance_uuid reads /sys/devices/virtual/dmi/id/product uuid
dev_read_sysfs(polaris_vdaemon_t)

# vip_util_set_fd_limits calls setrlimit
allow polaris_vdaemon_t self:process { setrlimit setpgid };

allow polaris_vdaemon_t self:capability { dac_override fowner sys_resource };

# vdaemon_init_tunn_intf initialize tun_0_0 in vrf 1
allow polaris_vdaemon_t self:tun_socket create;
corenst_rw_tun_tap_dev(polaris_vdaemon_t)

polaris_persistent_watch(polaris_vdaemon_t)
# from vdaemon_misc.c vdaemon_init_inotify function
polaris_cedge_etc_watch(polaris_vdaemon_t)

# set_netns_with_etc mounts on / and /sys
# set_netns_with_etc opens /etc/netns/*/dir
polaris_namespace_set_netns_with_etc(polaris_vdaemon_t)
# DNS thread complains about tmp_t mounton
# on /sys when switching namespace
gen_require(''
    type tmp_t;
')
allow polaris_vdaemon_t tmp_t:dir mounton;

# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_vdaemon_t)
# vip_dns_process_request switches namespace from linux n/w namespace to
# original mount namespace
allow polaris_vdaemon_t self:capability { net_admin sys_chroot };
allow polaris_vdaemon_t self:udp_socket { bind connect getattr getsockopt setsockopt shutdown };

# control linux routes vip_route_delete and vdaemon_setup_system_ip_route
allow polaris_vdaemon_t self:netlink_route_socket { bind create getattr nlmsg_read nlmsg_write };

# binds to vbond udp ports
coreneth udp_bind_generic_node(polaris_vdaemon_t)
coreneth udp_bind_polaris_vbond_port(polaris_vdaemon_t)

# though default ports exist, users can configure the tcp ports in vManage and vSmart
coreneth tcp_connect_all_ports(polaris_vdaemon_t)

# vbond_proc_hello executes VIP_CDB_BACKUP_SCRIPT
polaris_confdomtrans(polaris_vdaemon_t)
# VIP_CDB_BACKUP_SCRIPT makes use of /etc/confd/confd_ipc_secret
auth_map_passwd(polaris_vdaemon_t)

# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_ncsshd_keys_manage(polaris_vdaemon_t)
# vbond_encode_version opens /etc/version
polaris_confdom etc_read(polaris_vdaemon_t)

# generate_or_parse_uuid() invokes uuid_generate that needs read on
# random-number generator devices (e.g., /dev/random).
dev_read_rand(polaris_vdaemon_t)

# vdaemon_exec_iptables() is invoked by vdaemon all over the place
iptables_domtrans(polaris_vdaemon_t)

allow polaris_vdaemon_t self:capability net_raw;
allow polaris_vdaemon_t self:rawip_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
# # All rights reserved
#
##<summary>Polaris fman_rp Policy Rules.</summary>
### <summary>
### Manage mqipc fmrp2fpm shared memory file in /dev/shm directory
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```c
interface(`polaris_fmrp2fpm_mqipc_use',`
    gen_require(`
        type polaris_fmrp2fpm_mqipc_t;
    `)
    polaris_mqipc_use($1, polaris_fmrp2fpm_mqipc_t)
`)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.if
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2019
dnl
dnl Copyright (c) 2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
confined and permissive domain maps
divert(-1)
define(`permissive_domain', `defn(format(``permissive_domain[%s]", `$1'')))
define(`permissive_domain_set', `define(format(``permissive_domain[%s]", `$1', `$2')))

define(`confined_domain', `defn(format(``confined_domain[%s]", `$1')))
define(`confined_domain_set', `define(format(``confined_domain[%s]", `$1', `$2')))

dnl
dnl list of all subjects that should be in confined mode
dnl
confined_domain_set(`polaris_iosd_t', `polaris_iosd_t')

dnl
dnl list of all subjects that should be placed in permissive mode
dnl
permissive_domain_set(`polaris_nginx_t', `polaris_nginx_t')
```
permissive_domain_set('polaris_nginx_webui_t', `polaris_nginx_webui_t')
permissive_domain_set('polaris_nginx_webui_install_t', `polaris_nginx_webui_install_t')
divert(0)dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/domainmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/dbgmn_log_svr gen_context(system_u:object_r:polaris_fed_sock_t,s0)
/tmp/fed_post_result -- gen_context(system_u:object_r:polaris_fed_tmp_t,s0)
/flash/shfwd_params.txt gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisrollbacktimer, 1.0);

polaris_process_domain_template(rbtimer)
corecmd_exec_bin(polaris_rbtimer_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_rbtimer_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_rbtimer_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_rbtimer_t)

# work with /tmp files
type polaris_rbtimer_tmp_t
files_tmp_file(polaris_rbtimer_tmp_t)
manage_dirs_pattern(polaris_rbtimer_t, tmp_t, polaris_rbtimer_tmp_t)
manage_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
manage_fifo_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
files_tmp_filetrans(polaris_rbtimer_t, polaris_rbtimer_tmp_t, { file dir })

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
type polaris_rbtimer_bootflash_t;
polaris_disk_type(polaris_rbtimer_bootflash_t)
polaris_rbtimer_bootflash_manage(polaris_rbtimer_t)

allow polaris_rbtimer_t self:capability sys_resource;
allow polaris_rbtimer_t self:capability dac_override;
allow polaris_rbtimer_t self:process setpgid;

polaris_btrace_data_manage(polaris_rbtimer_t)
polaris_chasfs_manage(polaris_rbtimer_t)
polaris_cpld_read(polaris_rbtimer_t)
polaris_boot_tmp_read(polaris_rbtimer_t)
polaris_read_debug_conf(polaris_rbtimer_t)
polaris_proc_rmonbifo_read(polaris_rbtimer_t)
polaris_rmonbifo_tmp_read(polaris_rbtimer_t)
polaris_disk_crashinfo_getattr(polaris_rbtimer_t)
polaris_disk_harddisk_read_lnk(polaris_rbtimer_t)
polaris_bootflash_manage(polaris_rbtimer_t)

logging_send_syslog_msg(polaris_rbtimer_t)

# uses pidof
domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

# rollbacktimer runs install_engine.sh
polaris_install_engine_domtrans(polaris_rbtimer_t)
polaris_script_errmsg_use(polaris_rbtimer_t)

# watch over /bootflash/.rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_bootflash_t:dir watch;
# watch over /tmp/rp/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_tmp_t:dir watch;

# access to /tmp/ufs//crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_rbtimer_t)
`
)

# access to read packages.conf
polaris_read_packages_conf(polaris_rbtimer_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_rbtimer_t)

# access to "/bootflash/.installer/install_abort_timer_val"
polaris_disk_install_read(polaris_rbtimer_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarishytoolsd, 1.0);

polaris_process_domain_template(hytoolsd)

polaris_btrace_data_manage(polaris_hytoolsd_t)
polaris_chasfs_manage(polaris_hytoolsd_t)
polaris_cpld_read(polaris_hytoolsd_t)

# vmtoolsd transtions from polaris_hytoolsd_t to vmtools_t -
# hytoolsd is small wrapper that calls vmtoolsd
vmtools_domtrans(polaris_hytoolsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishytoolsd.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarismobilityd, 1.0);

gen_require(
  type polaris_mobilityd_t;
')
polaris_btrace_data_manage(polaris_mobilityd_t)
polaris_crftr_data_manage(polaris_mobilityd_t)
polaris_chasfs_manage(polaris_mobilityd_t)
polaris_tdlresolve_read(polaris_mobilityd_t)
polaris_tdlldb_list_dirs(polaris_mobilityd_t)
polaris_crft_data_manage(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_lua_read(polaris_mobilityd_t)
polaris_flashlib_read(polaris_mobilityd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mobilityd_t)
polaris_db_tdlldb_dir_use(polaris_mobilityd_t)

# allow to use setrlimit
allow polaris_mobilityd_t self:capability sys_resource;
allow polaris_mobilityd_t self:process setrlimit;
allow polaris_mobilityd_t self:capability dac_override;
allow polaris_mobilityd_t self:udp_socket { create_socket_perms recv_msg send_msg };

logging_send_syslog_msg(polaris_mobilityd_t)
polaris_lfts_dev_use(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_mobilityd_t)
polaris_tmp_tdlldb_persist_setup(polaris_mobilityd_t)
polaris_tdlldb_persit_setup(polaris_mobilityd_t)
corenet_udp_bind_generic_node(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobility_ctl_port(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobility_data_port(polaris_mobilityd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t:s0)
/usr/binos/conf/wui-app-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/usr/binos/conf/wui-tipc-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/webui(/.*)? gen_context(system_u:object_r:polaris_webui_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

/tmp\DmiAuth\.socket -s gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_t,s0)
/tmp/netconf-yang-diag(/.*)? gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_diags_t,s0)
/usr/binos/conf/dmid_diag_logs.sh -- gen_context(system_u:object_r:polaris_dmid_diag_logs_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidniauthd.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisrmmngr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmmmgr.fc
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris pttcd Policy Rules.</summary>
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/bin/os/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Swati Kumari
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisptpdrp, 1.0);

gen_require(
    type polaris_ptpd_rp_t;
')
polaris_chasfs_read(polaris_ptpd_rp_t)
polaris_cpld_read(polaris_ptpd_rp_t)
polaris_tdlresolve_read(polaris_ptpd_rp_t)
polaris_lsmpi_dev_use(polaris_ptpd_rp_t)

# ptpd needs to have open,read,write access with /dev/ds31408
polaris_ds31408_dev_use(polaris_ptpd_rp_t)

# blzi device
polaris_blzi_dev_use(polaris_ptpd_rp_t)

allow polaris_ptpd_rp_t self:capability sys_nice;
allow polaris_ptpd_rp_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/lsn.log -- gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)
/tmp/epc_ws(/.*)? gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

# CLI: show platform software wireshark
/usr/binos/conf/wireshark_show.sh -- gen_context(system_u:object_r:polaris_wireshark_show_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisgsdrp, 1.0);

gen_require(
    type polaris_gsd_rp_t;
    
)

#allow to run readlink /dev/loop0 & /bin/date
corecmd_exec_bin(polaris_gsd_rp_t)

#run ldd, which in turn exec "ld.so --verify"
libs_exec_ld_so(polaris_gsd_rp_t)

# allow to run mount in its own domain
mount_domtrans(polaris_gsd_rp_t)
# /awk -v what=:\^BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo polaris_boot_tmp_read(polaris_gsd_rp_t)
polaris_btrace_data_manage(polaris_gsd_rp_t)
polaris_chasfs_manage(polaris_gsd_rp_t)
polaris_read_debug_conf(polaris_gsd_rp_t)
polaris_disk_crashinfo_getattr(polaris_gsd_rp_t)
polaris_guestshell_exec_files_exec(polaris_gsd_rp_t)
polaris_guestshell_files_read(polaris_gsd_rp_t)
polaris_ncd_tmp_read(polaris_gsd_rp_t)
polaris_proc_rmonbifo_read(polaris_gsd_rp_t)
polaris_cpld_read(polaris_gsd_rp_t)
polaris_bootflash_read(polaris_gsd_rp_t)
polaris_harddisk_read(polaris_gsd_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_gsd_rp_t)

auth_use_nsswitch(polaris_gsd_rp_t)
polaris_rmonbifo_tmp_read(polaris_gsd_rp_t)

allow polaris_gsd_rp_t self:capability { dac_override sys_resource }
allow polaris_gsd_rp_t self:process setpgid;

type polaris_gsd_rp_tmp_t;
files_tmp_file(polaris_gsd_rp_tmp_t)
manage_dirs_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_files_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_fifo_files_pattern(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t)

# work with /tmp/guestshell_stk directory
files_tmp_filetrans(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, dir, "guestshell_stk")

gen_require(
    type rsync_t;
)
rsync_entry_domtrans(polaris_gsd_rp_t, rsync_t)
allow rsync_t polaris_gsd_rp_t:process sigchld;

# read /opt/cisco/caf directory
polaris_caf_files_read(polaris_gsd_rp_t)

gen_require(
    type polaris_caf_api_port_t;
    type polaris_caf_exec_t;
)
allow polaris_gsd_rp_t polaris_caf_api_port_t:tcp_socket name_connect;
allow polaris_gsd_rp_t polaris_caf_exec_t:file { getattr open read };
allow polaris_gsd_rp_t tmp_t:dir { create rmdir };

polaris_flashlib_read(polaris_gsd_rp_t)
polaris_flashlib_write(polaris_gsd_rp_t)

# watch over /tmp/udev/etc/udev
polaris_udev_tmp_read(polaris_gsd_rp_t)
polaris_udev_tmp_watch(polaris_gsd_rp_t)

# watch over /bootflash/gs_script
polaris_persistent_watch(polaris_gsd_rp_t)

#allow iox_ha_utils.sh to read /etc/docker/daemon.json.
gen_require("
type container_config_t;
')
read_files_pattern(polaris_gsd_rp_t, container_config_t, container_config_t)

# allow guestshell_ha.sh to log messages
logging_send_syslog_msg(polaris_gsd_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# # All rights reserved
#

### <summary>Polaris Rmonbifo Policy Rules.</summary>

# Polaris Rmonbifo Driver policy

### <summary>
##      Read /proc/rmbonbifo files.
### </summary>
### <param name="domain">
###      Domain allowed access.
### </param>
#
interface(`polaris_proc_rmonbifo_read',
  gen_require(`
type polaris_proc_rmonbifo_t;
')
  read_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
  list_dirs_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')

### <summary>
## Getattr of /proc/rmbonbifo files.
### </summary>
### <param name="domain">
###      <summary>
## Domain allowed access.

```c
interface('polaris_proc_rmonbifo_getattr',
gen_require('type polaris_proc_rmonbifo_t;
')
    getattr_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')
```

```
# Read /tmp/sw/boot/rmbonbifo files.
# <param name="domain">
## Domain allowed access.
# </param>
```

```c
interface('polaris_rmonbifo_tmp_read',
gen_require('type polaris_rmonbifo_tmp_t;
type polaris_boot_tmp_t;
')
    read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
    # /tmp/sw/boot/rmbonbifo dir is inside of polaris_boot_tmp_t dir
    search_dirs_pattern($1, polaris_boot_tmp_t, polaris_rmonbifo_tmp_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.if
No license file was found, but licenses were detected in source scan.

```
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
```

```
/usr/binos/conf/ncd.sh -- gen_context(system_u:object_r:polaris_ncd_exec_t,s0)
/etc/conf/unifiedfs/mount_data gen_context(system_u:object_r:polaris_ncd_etc_t,s0)
```

```
/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_console_attach_exec_t,s0)
```
## Type of the program to be used as an entry point to this domain.
## </summary>
## </param>
#
interface('polaris_iosd_domain',
    polaris_process_domain_confined($1, $2)
    polaris_iosd_maybe_unconfined($1)
')

##################################################
## <summary>
## Make the specified domain able to work with iosd2iox files
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_iosd2iox_tmp_manage',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    ')
    manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
')

##################################################
## <summary>
## Make the specified domain able to read iosd2iox files
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_iosd2iox_tmp_read',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    ')
    read_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
')

##################################################
## <summary>
## Send messages to iosd unix datagram sockets.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
#
interface(`polaris_iosd_dgram_send',`
  gen_require(`
    type polaris_iosd_t;
  ')
)

allow $1 polaris_iosd_t:unix_dgram_socket sendto:
')

########################################
## Make the specified domain to read /tmp/rp/.iosp_dmiauthd
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
#
interface(`polaris_dmiauthd_token_read',`
  gen_require(`
    type polaris_dmiauthd_token_t;
  ')
)

read_files_pattern($1, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)
')

########################################
## Make the specified domain to read /tmp/rp/.iosp_gnmib
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
#
interface(`polaris_gnmib_token_read',`
  gen_require(`
    type polaris_gnmib_token_t;
  ')
)
manage_files_pattern($1, polaris_gnmib_token_t, polaris_gnmib_token_t)
')

#######################################
## <summary>
##      Make the specified domain able to work with files
##      with polaris_iosd_tmp_files_t
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iosd_tmp_file_use',
    gen_require(
        type polaris_iosd_tmp_files_t;
    ')
)
manage_files_pattern($1, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow $1 polaris_iosd_tmp_files_t:sock_file { manage_sock_file_perms};
')

#######################################
## <summary>
##      Manage /bootflash/geodb/ files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_geodb_files_manage',
    gen_require(
        type polaris_geodb_files_t;
    ')
)
manage_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
manage_dirs_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
manage_lnk_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
')

#######################################
## <summary>
##      Allow the specified domain to read /boot/vcpu_template.txt


## <summary>
##      Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_iosd_vcpu_read',`
    gen_require(
        type polaris_iosd_vcpu_t;
        type polaris_disk_varied_t;
        type polaris_disk_csl_p_t;
    )

    read_files_pattern($1, { polaris_disk_varied_t polaris_disk_csl_p_t }, polaris_iosd_vcpu_t)
')

##################################################################
## <summary>
##      Allow the specified domain to read /tmp/usb-disable
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_iosd_usb_disable_tmp_manage',`
    gen_require(
        type polaris_iosd_usb_disable_tmp_t;
    )

    manage_files_pattern($1, polaris_iosd_usb_disable_tmp_t, polaris_iosd_usb_disable_tmp_t)
    files_tmp_filetrans($1, polaris_iosd_usb_disable_tmp_t, file, "usb-disable")
')

##################################################################
## <summary>
##      Allow the specified domain to access /bootflash/EFI
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_efi_files_list_dirs',

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22964
gen_require(
    type polaris_efi_files_t;
)

list_dirs_pattern($1, polaris_efi_files_t, polaris_efi_files_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisisod.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky 
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
# # All rights reserved
#
#
# polarissmd file contexts place holder
#
# dc_profile_dir
/mnt/sd3/user/dc_profile_dir(/.*)?   gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/flash1/user/dc_profile_dir(/.*)?   gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/bootflash/dc_profile_dir(/.*)?   gen_context(system_u:object_r:polaris_smd_disk_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky 
# # Copyright (c) 2017-2020 by Cisco Systems, Inc.
# # All rights reserved
#
#
# polarismqipc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.fc
No license file was found, but licenses were detected in source scan.

# # July 2017, Victor Kamensky 
# # Copyright (c) 2017-2020 by Cisco Systems, Inc.
# # All rights reserved
## <summary>Polaris iomd Policy Rules.</summary>

### Work (read, write, ioctl) with /dev/ngio[0-9+] devices
### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_ngio_dev_use',
gen_require(''
    type device_t;
type polaris_ngio_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_ngio_device_t)
    read_chr_files_pattern($1, device_t, polaris_ngio_device_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisrepm, 1.0);

gen_require(''
    type polaris_repm_t;
')

polaris_btrace_data_manage(polaris_repm_t)
polaris_crft_data_manage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_tdldb_list_dirs(polaris_repm_t)
polaris_cpld_read(polaris_repm_t)
polaris_lua_read(polaris_repm_t)
polaris_flashlib_read(polaris_repm_t)
polaris_ripc_sman_ui_serv_connect(polaris_repm_t)

polaris_db_tdldb_dir_use(polaris_repm_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_repm_t)

allow polaris_repm_t self:capability { sys_resource dac_override };
allow polaris_repm_t self:process setrlimit;

# temporary files created for repm in /tmp/replication
type polaris_repm_tmp_t:
files_tmp_file(polaris_repm_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_repm_tmp_t, dir, "replication")
manage_files_pattern(polaris_repm_t, polaris_repm_tmp_t, polaris_repm_tmp_t, polaris_repm_tmp_t)

polaris_dyncfg_tmp_read(polaris_repm_t)

polaris_tdlldbpersist_setup(polaris_repm_t)

polaris_tmp_tdlldb_persist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq.-local_rp_1_0
type polaris_repm_local_rp_mqipc_t;
polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_1_0)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_0_0)

# repm peer mqipc queues under /dev/shm/repm_peer_mq folder
type polaris_repm_peer_mqipc_t;
polaris_mqipc_type(polaris_repm_peer_mqipc_t)
polaris_mqipc_create_name_dir(polaris_repm_t, polaris_repm_peer_mqipc_t, repm_peer_mq)

# repm invokes installer_api_* api's which need access to /bootflash/.installer/install_issu_state
polaris_install_disk_read(polaris_repm_t)

ifdef(`petra_platform',
#allow access to polaris_cm_rp sem for chasfs
polaris_cm_rp_sem_use(polaris_repm_t)
#allow access to /flash12/moncfg/cfg.dat for config
polaris_swipedrive_file_manage(polaris_repm_t)

')
# execute /bin/tar
corecmd_exec_bin(polaris_repm_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_repm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.te

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris NGWC Platform Policy Rules.</summary>

### <summary>Manage ngwc shared memory /dev/shm/ngwc_shm.</summary>

### </summary>

### <param name="domain">
### Domain allowed access.
### </summary>

# interface('polaris_ngwc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_shm_t;
    ')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_shm_t)
    allow $1 polaris_ngwc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_shm_t, file, "ngwc_shm")
')

### <summary>Manage ngwc shared memory /dev/shm/ngwc_scc_shm.</summary>

### </summary>

### <param name="domain">
### Domain allowed access.
### </summary>
# interface(`polaris_ngwc_scc_shm_manage',`
  gen_require(`
    type tmpfs_t;
    type polaris_ngwc_scc_shm_t;
  `)
  fs_getattr_tmpfs($1)
  manage_files_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t)
  allow $1 polaris_ngwc_scc_shm_t:file map;
  filetrans_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t, file, "ngwc_scc_shm")
`)

###############################################################################
## <summary>
##      Manage ngwc shared memory /dev/shm/iomd_to_fed_ptp_offload.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ngwc_itfpo_manage',`
  gen_require(`
    type tmpfs_t;
    type polaris_ngwc_itfpo_t;
  `)
  fs_getattr_tmpfs($1)
  manage_files_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t)
  allow $1 polaris_ngwc_itfpo_t:file map;
  filetrans_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t, file, "iomd_to_fed_ptp_offload")
`)

###############################################################################
## <summary>
##      Manage ngwc sdm shared memory /dev/shm/sdm.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sdm_shm_manage',`
  gen_require(`
    type tmpfs_t;
  `)
type polaris_sdm_shm_t;
')
fsgetattr_tmpfs($1)
machine_files_pattern($1, tmpfs_t, polaris_sdm_shm_t)
filetrans_pattern($1, tmpfs_t, polaris_sdm_shm_t, file, "sdm")
allow $1 polaris_sdm_shm_t:file map;
')

# MMAP Driver for mapping ASIC Memory space

## <summary>
## Work (read, write, ioctl) with /dev/chdrvmmap
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_chdrvmmap_dev_use',
  gen_require(
    type device_t;
    type polaris_chdrvmmap_device_t;
  )
  read_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
  write_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
  allow $1 polaris_chdrvmmap_device_t:chr_file map;
')

## <summary>
## Work (read, write, ioctl) with /dev/gettysburg_dev1
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_gettysburg_fpga_dev_use',
  gen_require(
    type device_t;
    type polaris_gettysburg_fpga_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
mmap_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)

')

###############################################################################
## <summary>
## Work (read, write, ioctl) with /dev/cisco/dplriomem
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_dplr_iomem_mmapdrv_dev_use',
gen_require('  type device_t;
  type polaris_dplr_iomem_mmapdrv_device_t;
')
  write_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
  allow $1 polaris_dplr_iomem_mmapdrv_device_t:chr_file map;
')

###############################################################################
## <summary>
## Allow access to semaphore of quake flashlib. Pure hack
## semaphore got created by dyncfg accidently, need to change to
## POSIX semaphore code ASAP.
## LOOK AT ME
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_quake_flashlib_sem_use',
  gen_require('    type polaris_dyncfg_t;
  )
  allow $1 polaris_dyncfg_t:sem rw_sem_perms;
')

###############################################################################
## <summary>
## Manage quake i2c semaphores /dev/shm/sem.i2c_sem00N
## and work with corresponding i2c devices (/dev/i2c-XXX)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_quake_i2c_manage',
    gen_require(''
        type tmpfs_t;
        type polaris_quake_i2c_t;
    ''
    )
manage_files_pattern($1, tmpfs_t, polaris_quake_i2c_t)
polaris_i2c_use($1)
')

########################################
## <summary>
##	Allow caller to read or write the exiting_bays file
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </param>
## <summary>
## </summary>
interface('polaris_rw_exiting_bays,'
    gen_require(''
        type polaris_proc_exiting_bays_t;
        type proc_t;
    ''
    )
rw_files_pattern($1, polaris_proc_exiting_bays_t, polaris_proc_exiting_bays_t)

# FIXME/TODO:
# The kernel does not reliably create /proc/exiting_bays on all platforms
# The following lines should be removed when CSCvv27097 is addressed
allow $1 polaris_proc_exiting_bays_t:file create;
allow $1 proc_t:file create;
allow $1 proc_t:dir { add_name write };
')

########################################
## <summary>
##  Allow caller to create open write /tmp/fpga_upgrade
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface('polaris_fpga_upgrade_tmp_use',
    gen_require(
        type polaris_fpga_upgrade_tmp_t;
    )
    allow $1 polaris_fpga_upgrade_tmp_t:file { create open write };
)

# <summary>
# Execute a domain transition to run cat9k_ssd_unmount.sh
# </summary>
# <param name="domain">
#   Domain allowed access.
# </param>
#
interface('polaris_ssd_unmount_domtrans',
    gen_require(
        type polaris_ssd_unmount_t, polaris_ssd_unmount_exec_t;
    )
    domtrans_pattern($1, polaris_ssd_unmount_exec_t, polaris_ssd_unmount_t)
)

# <summary>
# Read lnk_file /ucode0, polaris_disk_ucode0_t.
# </summary>
# <param name="domain">
#   Domain allowed access.
# </param>
#
interface('polaris_disk_ucode0_read_lnk',
    gen_require(
        type polaris_disk_ucode0_t;
    )
    read_lnk_files_pattern($1, polaris_disk_ucode0_t, polaris_disk_ucode0_t)
)

# <summary>
# Work (read, write, ioctl) with /dev/cisco/fpgaiomem
# </summary>
# <param name="domain">
# </param>
## Domain allowed access.

```c
interface('polaris_fpga_iomem_mmapfpga_dev_use',
    type device_t;
    type polaris_fpga_iomem_mmapfpga_device_t;
')
allow $1 polaris_fpga_iomem_mmapfpga_device_t:chr_file map;
write_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
read_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
)
```

## Read Write access to /bootflash/nplusm-power

```c
interface('polaris_nplusm_power_manage',
    gen_require(
        type polaris_nplusm_power_file_t;
        type polaris_disk_bootflash_t;
    ')
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_nplusm_power_file_t, file, "nplusm-power")
    allow $1 polaris_nplusm_power_file_t:file { write create read open getattr unlink }
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky

# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved

```bash
/usr/binos/conf/boothelper_evt.sh -- gen_context(system_u:object_r:polaris_boothelper_evt_exec_t,s0)
/tmp/udev(/.*)? gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)
/tmp/rommon_upgrade_ngwc(/.*)? gen_context(system_u:object_r:polaris_boothelper_tmp_t,s0)
```
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.fc
No license file was found, but licenses were detected in source scan.

#  
# December 2018, Victor Kamensky  
#  
# Copyright (c) 2018-2019 by Cisco Systems, Inc.  
# All rights reserved  
#

## <summary>Polaris ezman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.if
No license file was found, but licenses were detected in source scan.

dnl  
dnl April 2018, Victor Kamensky  
dnl  
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.  
dnl All rights reserved  
dnl  
define(`polaris_lipc_service_server',`')  
define(`polaris_lipc_service_client',``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_fc.m4
No license file was found, but licenses were detected in source scan.

#  
# July 2019, Victor Kamensky  
#  
# Copyright (c) 2019 by Cisco Systems, Inc.  
# All rights reserved  
#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.fc
No license file was found, but licenses were detected in source scan.

#  
# July 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2020 by Cisco Systems, Inc.  
# All rights reserved  
#
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.fc
No license file was found, but licenses were detected in source scan.

#
# March 2019, Shikhar Dogra
#
# Copyright (c) 2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris fman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris smand Policy Rules.</summary>

#-------------------------------------------------------------------------------
##
## Allow domain to be started by smand with
## transition into specific service domain.
## </summary>
##<param name="domain">
##<summary>
##Type to be used to run utility.
##</summary>
## </param>
##<param name="entry_point">
##<summary>
##Type of the program to be used as an entry point to this domain.
##</summary>
## </param>
interface(`polaris_smand_domain',`
gen_require(`
type polaris_smand_t;
domtrans_pattern(polaris_smand_t, $2, $1)
')

########################################
## <summary>
## Write into fifo file created by smand, typical case when
## smand starts script under popen.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_smand_use_fifo',`
  gen_require(`
    type polaris_smand_t;
  ')

  write_fifo_files_pattern($1, polaris_smand_t, polaris_smand_t)
  ')

########################################
## <summary>
## Read access to CRDU fifo file created by smand
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_smand_crdu_pipe_read',`
  gen_require(`
    type polaris_crdu_pipe_tmp_t;
  ')

  read_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
  ')

########################################
## <summary>
## Manage CRDU fifo file created by smand
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
## <rolecap/>
#
interface('polaris_smand_crdu_pipe_manage',`
    gen_require(
        type polaris_crdu_pipe_tmp_t;
    ')

    manage_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
')

########################################################################
## <summary>
##      Write to polaris_sman_bshell_serv_lipc_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to connect and write into this lipc file.
##      </summary>
## </param>
#
# interface('polaris_sman_bshell_serv_lipc_write',`
#    gen_require(
#        type polaris_sman_bshell_serv_lipc_t;
#        type polaris_smand_t;
#    ')
#    polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smand_t)
#')

########################################################################
## <summary>
##   Manage /tmp/show_ports_tmp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to manage tmp files.
##      </summary>
## </param>
## <rolecap/>
interface('polaris_trans_ports_tmp_manage',`
    gen_require(
        type polaris_trans_stats_tmp_t;
    ')

    manage_files_pattern($1, polaris_trans_ports_tmp_t, polaris_trans_ports_tmp_t)
```c
#include <time.h>
#include <fcntl.h>
#include <unistd.h>

void lsof_output()
{
    // Create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
    // 
    // ## <summary>
    // create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
    // ## </summary>
    // 
    // ## <param name="domain">
    // Domain allowed to manage tmp files.
    // ## </param>
    // 
    // <rolecap/>
    // interface('polaris_trans_stats_tmp_manage',
    //     gen_require(`
    //         type polaris_trans_stats_tmp_t;
    //     `)
    //     manage_files_pattern($1, polaris_trans_stats_tmp_t, polaris_trans_stats_tmp_t)
    // )

    // Found in path(s):
    // * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.if
    // No license file was found, but licenses were detected in source scan.
}

/* July 2017, Victor Kamensky */
/*
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
*/

/usr/cpp/bin/cpp_cdm_svr -- gen-context(system_u:object_r:polaris_cpp_cdm_exec_t,s0)

/* July 2017, Victor Kamensky */
/*
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#
*/

/* Flashlib policy (infra/flashlib) */
```

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22979
### <summary>
### Read Polaris /tmp/.flashlock file
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_flashlib_lock',`
  gen_require('`
    type tmp_t;
    type polaris_flashlib_lock_t;
  ')

  manage_files_pattern($1, tmp_t, polaris_flashlib_lock_t)
  allow $1 self:capability dac_override;

  ifdef('quake_platform',`
    polaris_quake_flashlib_sem_use($1)
  ')
  # access of .flashlock on ultra
  ifdef('vxe_family',`
    allow $1 self:capability dac_override;
  ')
  ')

### <summary>
### Write Polaris /tmp/flashdev.log file
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_flashlib_log',`
  gen_require('`
    type tmp_t;
    type polaris_flashlib_log_t;
  ')

  manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
')
## <summary>
## Read partition disk device that contains rommon variables.
## C8KV reads object store and reads grub files in BIOS and EFI partitions.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(polaris_flashlib_read,`
  gen_require(`
    type device_t;
    type polaris_flashlib_device_t;
  `)
  polaris_flashlib_lock($1)
  polaris_flashlib_log($1)
  read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
  read_chr_files_pattern($1, device_t, polaris_flashlib_device_t)
  ifdef(`vxe_family,'
    polaris_vxeinstall_info_read($1)
    polaris_grub_info_read($1)
  `)
  ifdef(`vwlc_platform,'
    polaris_vwlcinstall_info_read($1)
    polaris_vwlc_grub_info_read($1)
  `)
)
# processes that use tdllib/DB will access romvar
# via flashlib mcp_getmonvar API which read /objstore.
optional_policy(`
  polaris_disk_objstore_read($1)
`)
  polaris_flash_shm_manage($1)
`)


## <summary>
## Write partition disk device that contains rommon variables.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(polaris_flashlib_write,`
  gen_require(`
    type device_t;
    type polaris_flashlib_device_t;
  `)
  polaris_flashlib_lock($1)
  polaris_flashlib_log($1)
  read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
  read_chr_files_pattern($1, device_t, polaris_flashlib_device_t)
  ifdef(`vxe_family,'
    polaris_vxeinstall_info_read($1)
    polaris_grub_info_read($1)
  `)
  ifdef(`vwlc_platform,'
    polaris_vwlcinstall_info_read($1)
    polaris_vwlc_grub_info_read($1)
  `)
)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22981
type device_t;
    type polaris_flashlib_device_t;

polaris_flashlib_lock($1)
write_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
polaris_flash_shm_manage($1)

########################################################################
## <summary>
##      Manage ngwc shared memory /dev/shm/flash_shm.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_flash_shm_manage',`
    gen_require(`
    type tmpfs_t;
    type polaris_flash_shm_t;
    `)
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_flash_shm_t)
    allow $1 polaris_flash_shm_t:file map;
    `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# # All rights reserved
#
## <summary>Polaris LUA Policy Rules.</summary>

########################################################################
# Lua policy
########################################################################
## <summary>
## <summary>Read Polaris lua files (/lua)</summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_lua_read',
gen_require(''
type polaris_lua_file_t;
')
allow $1 polaris_lua_file_t:file read_file_perms;
allow $1 polaris_lua_file_t:dir { read_file_perms search_dir_perms };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris tamd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris polarisiptbl Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.if
No license file was found, but licenses were detected in source scan.
# April 2018, Victor Kamensky
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

# autopolarisplatformipcbase file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/autopolarisplatformipcbase.fc
No license file was found, but licenses were detected in source scan.
#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisdmiportsfetch, 1.0);

gen_require(
   type polaris_dmi_ports_fetch_t;
')
polaris_chasfs_manage(polaris_dmi_ports_fetch_t)
polaris_tdlresolve_read(polaris_dmi_ports_fetch_t)
polaris_cpld_read(polaris_dmi_ports_fetch_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.te
No license file was found, but licenses were detected in source scan.
#
# July 2018, Victor Kamensky
#
# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisngwcfeddebug, 1.0);

gen_require(
   type polaris_ngwcFed_debug_mgr_t;
')
polaris_bootflash_manage(polaris_ngwcFed_debug_mgr_t)
polaris_btrace_data_manage(polaris_ngwcFed_debug_mgr_t)
polaris_cpld_read(polaris_ngwcFed_debug_mgr_t)
polaris_flashlib_read(polaris_ngwc_fed_debug_mgr_t)
polaris_chasfs_read(polaris_ngwc_fed_debug_mgr_t)
polaris_ddresolve_read(polaris_ngwc_fed_debug_mgr_t)

polaris_disk_bootflash_read_lnk(polaris_ngwc_fed_debug_mgr_t)
polaris_dmammap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_chdrvmmap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_debug_mgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwc_fed_debug_mgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwc_fed_debug_mgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwc_fed_debug_mgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwc_fed_debug_mgr_t)

auth_use_nsswitch(polaris_ngwc_fed_debug_mgr_t)

# lspci needs sysfs access
dev_list_sysfs(polaris_ngwc_fed_debug_mgr_t)
dev_read_sysfs(polaris_ngwc_fed_debug_mgr_t)

# dope.py /tmp/idope_svr,/tmp/shfwd_svr socket files
type polaris_fed_debug_sock_t;
files_tmp_file(polaris_fed_debug_sock_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require(''
    type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_sock_t)

# allow show-forward to use following temp files in /tmp dir
type polaris_fed_debug_tmp_t;
files_tmp_file(polaris_fed_debug_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "MemDumpElam.sh")
gen_require(''
    type tmp_t;
')
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, { tmp_t polaris_fed_debug_tmp_t}, polaris_fed_debug_tmp_t)

# talk to fed over unix sockets
polaris_fed_sock_write(polaris_ngwc_fed_debug_mgr_t)

# /dcmlog.txt
type polaris_fed_debug_dcmlog_t;
files_type(polaris_fed_debug_dcmlog_t)
gen_require(‘
    type root_t;
’)
filetrans_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t)

# dope.py listens on port 12255
coreneth_tcp_bind_generic_node(polaris_ngwc_fed_debug_mgr_t)
allow polaris_ngwc_fed_debug_mgr_t self:tcp_socket { getattr setopt ioctl getopt bind create listen accept connect read write };
coreneth_tcp_bind_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)
coreneth_tcp_connect_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)

# dope.py listens on port 5389 for shfwd commands
coreneth_tcp_bind_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_debug_mgr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is committed.
ifdef(‘nyquist_platform’,
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
’)
ifdef(‘starfleet_platform’,
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
’)
ifdef(‘quake_platform’,
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
’)

# /tmp/asic_config.pickle file access
type polaris_fed_debug_asic_config_t;
files_tmp_file(polaris_fed_debug_asic_config_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
gen_require(‘
    type tmp_t;
’)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_asic_config_t)

# dope.py invokes scapy.py for DP trace which needs to create socket to seek
allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { create ioctl }

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;

allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map }

polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)

polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;

manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, dir, "rdope_ffi")
gen_require(
    type tmp_t;
    
    manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
    manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, polaris_fed_debug_ffi_t)
    allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map }
)

kernel_read_system_state(polaris_ngwc_fed_debug_mgr_t)

polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.te
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.

dnl All rights reserved

dnl Process Names Map
define('process_map', `defn(format(``process_map[%s]", `$1'))')
define('process_map_set', `define(format(``process_map[%s]", `$1", `$2'))')

dnl Process Names and Labels
define('process_short_name', `patsubst($1, `^BPROC_', `')
define('process_default_stem', `translit(process_short_name($1), `A-Z', `a-z')'
define('process_stem', `ifelse(process_map(process_short_name($1)), `', process_default_stem($1), process_map(process_short_name($1))))

define('process_label', `format(`polaris_%s_t', process_stem($1))')
define('process_exec_label', `format(`polaris_%s_exec_t', process_stem($1))')

dnl Process Type Map: track that type declations unique

define('process_type_map', `defn(format(``process_type_map[%s]", `$1'))')
define('process_type_map_set', `define(format(``process_type_map[%s]`, `$1`, `$2`))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process.m4
No license file was found, but licenses were detected in source scan.

dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2021 by Cisco Systems, Inc.
dnl All rights reserved
dnl
process_map_set(AUTO_UPGRADE_CLIENT_RP, autoupgrade)
process_map_set(BSM_RP, bsm)
process_map_set(BTM_CC, btman)
process_map_set(BTM_FP, btman)
process_map_set(BTM_RP, btman)
process_map_set(BTM_BP, btman)
process_map_set(CCD_RP, caf)
process_map_set(DMI_CONF, confd)
process_map_set(DMI_PTTCD, pttcd)
process_map_set(SDWAN_CONF, confd)
process_map_set(EMD_CC, emd)
process_map_set(EMD_FP, emd)
process_map_set(EMD_RP, emd)
process_map_set(FCD_RP, flashcheck)
process_map_set(FM_FP, fman_fp)
process_map_set(FM_CC, fman_cc)
process_map_set(FM_RP, fman_rp)
process_map_set(HM_CC, hm)
process_map_set(HM_FP, hm)
process_map_set(HM_RP, hm)
process_map_set(IOMD_CC, iomd)
process_map_set(IOSD_CC, iosd)
process_map_set(IOSD_BP, iosd)
process_map_set(IOXM_RP, ioxman)
process_map_set(ISSU_STK, issu_stack)
process_map_set(LM_RP, lm)
process_map_set(MAINT_RP, periodic)
process_map_set(PLOGD_CC, plogd)
process_map_set(PLOGD_FP, plogd)
process_map_set(PLOGD_RP, plogd)
process_map_set(REPM_RP, repm)
process_map_set(SERVICE_MGR_RP, service_mgr)
process_map_set(SERVICE_MGR_FP, service_mgr)
process_map_set(SM, smand)
process_map_set(SORT_RP, sort_files)
process_map_set(VMAN_RP, vman)
process_map_set(POLJVM, jvm)
process_map_set(CLUSTERMGR, clustermgr)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/processmap.m4
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_if.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform DB Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_if.m4
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl VXE Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vxemaps.m4
No license file was found, but licenses were detected in source scan.

# January 2021, Gabriel Lee, Shawn Liu
#
# Copyright (c) 2021 by Cisco Systems, Inc.
# All rights reserved
#

/ezManage_v1/ezManage_sms_handler.py -- gen_context(system_u:object_r:polaris_ezmanage_exec_t,s0)
/ezManage_v1/(.*)?                      gen_context(system_u:object_r:polaris_ezmanage_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.fc
No license file was found, but licenses were detected in source scan.

# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris dmi_vtyserverutild Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.if
No license file was found, but licenses were detected in source scan.

# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisbsm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.fc
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

### Work with /bootflash/sdavc

### <param name="domain">

### Domain allowed access.

### </param>

interface(`polaris_sdavc_proxy_manage',
    gen_require(`
        type polaris_sdavc_proxy_files_t;
    ')
    manage_files_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    manage_dirs_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.if

No license file was found, but licenses were detected in source scan.

#

# March 2017, Victor Kamensky

# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/bin/cman_fp_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t.s0)
/usr/binos/bin/cman_fp_us_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t.s0)
/usr/binos/bin/cman_fp_vwlce -- gen_context(system_u:object_r:polaris_cm_fp_exec_t.s0)
/usr/binos/bin/cman_fp_vwlcedp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t.s0)
/usr/binos/bin/cman_fp_sumatra_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t.s0)
/usr/binos/conf/mcp_pcie_status_cmd.sh -- gen_context(system_u:object_r:polaris_pcie_status_cmd_exec_t.s0)
/dev/hkp -c gen_context(system_u:object_r:polaris_hkp_device_t.s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.fc

No license file was found, but licenses were detected in source scan.

#
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 22992

# June 2020, Manu Roy
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
#
# /bootflash labels
##bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
##bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
##bootflash/ssh/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t,s0)
##bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
##bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash is symbolic link /flash10/USER
##flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

##flash1
##flash1(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
##flash1/CRASH(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
##flash1/CRASH/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
##flash7(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)
##flash8(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)
##flash9(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /flash10
# USER is a reserved selinux keyword - escape it like this
##flash10(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
##flash10/USE[R]/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
##flash10/USE[R]/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
##flash10/USER/.ssh/ssh_host_rsa_key -- gen_context(system_u:object_r:sshd_key_t,s0)

#sdflash
##dev/mmcblk1p1 -b gen_context(system_u:object_r:polaris_iots_swipdrive_device_t,s0)
##dev/sdflash gen_context(system_u:object_r:polaris_iots_swipdrive_file_t,s0)

#usb device
##dev/sda1 -b gen_context(system_u:object_r:polaris_iots_swipdrive_device_t,s0)

#DMA ASIC driver
##dev/mvDmaDrv gen_context(system_u:object_r:polaris_iots_mvDmaDrv_device_t,s0)
##dev/mvIntDrv gen_context(system_u:object_r:polaris_iots_mvIntDrv_device_t,s0)

#crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
##crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

#dev
##petra-fpga -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
##petra-zyq-ps-gpio -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-gpio-pc3 -c  gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
#Line card fpga driver for mmap
/dev/petra-lc-fpga -c  gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)

#memory devices
/dev/tm -c  gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/dev/hcam -c  gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
#vlan-virtual ethernet
/dev/petra-krport -c  gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/tmp/udev/etc/udev/sdflash/udev-info  gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# hellcat
/dev/spidev0.0 -c  gen_context(system_u:object_r:polaris_iots_led_device_t,s0)
/dev/spidev0.1 -c  gen_context(system_u:object_r:polaris_iots_led_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisngwcfed, 1.0);

gen_require(
   type polaris_ngwc_fed_t;
')

polaris_btrace_data_manage(polaris_ngwc_fed_t)
polaris_chasfs_manage(polaris_ngwc_fed_t)
polaris_tdlresolve_read(polaris_ngwc_fed_t)
polaris_tdlldb_list_dirs(polaris_ngwc_fed_t)
polaris_lua_read(polaris_ngwc_fed_t)
polaris_flashlib_read(polaris_ngwc_fed_t)
polaris_chasync_files_manage(polaris_ngwc_fed_t)

# LOOK AT ME: system() call restriction remove after
# CSCvn19282 is fixed using CSCvn19287.
#
# fed executes cp_trace_request.sh when a sv stack split occurs.
# cp_trace_request.sh does source of pglobals.sh which requires the
# access of /crashinfo.
polaris_disk_crashinfo_getattr(polaris_ngwc_fed_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_fed_t)

polaris_db_tldlb_dir_use(polaris_ngwc_fed_t)

corecmd_exec_bin(polaris_ngwc_fed_t)
corecmd_exec_shell(polaris_ngwc_fed_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_fed_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_fed_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_ngwc_fed_t)

polaris_obfl_data_manage(polaris_ngwc_fed_t)
polaris_lsmpi_dev_use(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:capability { sys_rawio dac_override ipc_owner sys_nice ipc_lock };
allow polaris_ngwc_fed_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_ngwc_fed_t)

optional_policy(' polaris_ngwc_shm_manage(polaris_ngwc_fed_t) ')

optional_policy(' polaris_ngwc_scc_shm_manage(polaris_ngwc_fed_t) ')

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_ngwc_fed_t)
polaris_cpp_tmp_files_use(polaris_ngwc_fed_t)

optional_policy(' # /dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_ngwc_fed_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_fed_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_fed_t) ')}
type polaris_fed_xcvr_pipe_t;

files_type(polaris_fed_xcvr_pipe_t)
dev_associate(polaris_fed_xcvr_pipe_t)
gen_require(
    type device_t;
')

filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "cli2xcvr_pipe")

filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "xcvr2cli_pipe")
manage_fifo_files_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t)

polaris_disk_bootflash_search(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_ngwc_fed_t)

# read /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ngwc_fed_t)

# bind to shfwd port
corennet_udp_bind_polaris_ngwc_fed_shfwd_port(polaris_ngwc_fed_t)

# connect to shfwd port
corennet_tcp_connect_polaris_ngwc_fed_debug_shfwd_command_port(polaris_ngwc_fed_t)

# creates and write /flash/shfwd_params.txt file
polaris_bootflash_manage(polaris_ngwc_fed_t)

# use polaris_ngwc_fed_t as syslog_client_type
logging_send_syslog_msg(polaris_ngwc_fed_t)

# bind to dbgmn port
corennet_udp_bind_polaris_ngwc_fed dbgmn_port(polaris_ngwc_fed_t)

corennet_udp_bind_generic_node(polaris_ngwc_fed_t)
allow polaris_ngwc_fed_t self:udp_socket { bind create getopt };

optional_policy(
   # on macallan cman_fp needs access to /dev/cisco/dplriomem
   # for mapping dplr io memory to application space.
   polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_t);
)

# On Macallan as part of doppler sdk_asic_init(), a
# rw call is made to /dev/cpld
polaris_cpld_dev_use(polaris_ngwc_fed_t)
polaris_cpld_read(polaris_ngwc_fed_t)

# ptp_init_systemclock() called during fed process init writes
# /sys/devices/platform/cpld/reg_doppe_1588_sync
polaris_cpld_write(polaris_ngwc_fed_t)

optional_policy('n'
# In Macallan cards which use Doppler ASIC,
# ngmod_doppler_mmap() api is called to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmap device.
polaris_chdrvmmap_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvk00737 is fixed using CSCvk00741
ifdef('nyquist_platform','
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm34589 is fixed using CSCvm34617
ifdef('starfleet_platform','
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef('quake_platform','
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

ifdef('sumatra_platform','
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_ngwc_fed_t)
polaris_sumatra_doppler_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn08008 is fixed using CSCvn08019.
# FED accesses raw memory (/dev/mem) for sending/receiving OOB
# traffic on an FSS interface.
ifdef('passport_platform','
polaris_dev_mem_use(polaris_ngwc_fed_t)
')
Entropy number is read from ACT2 and stored in /tmp/hw_entropy
# Allow sesa library read from /tmp/hw_entropy to update random
# number seed.
polaris_hw_entropy_read(polaris_ngwc_fed_t)

# fed is server for /tmp/dbgmn_log_svr socket file
type polaris_fed_sock_t;
files_tmp_file(polaris_fed_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_sock_t, sock_file, "dbgmn_log_svr")

gen_require('  
    type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_t, tmp_t, polaris_fed_sock_t)

optional_policy('  
# talk to rdope.sh over unix sockets
polaris_fed_debug_sock_write(polaris_ngwc_fed_t)
')

# /dev/shm/sdm access
optional_policy('  
polaris_sdm_shm_manage(polaris_ngwc_fed_t)
')

# creates few files under /tmp/installer (e.g like
# /tmp/installer/phy_shannon_ver_1) to indicate current h/w conditions
polaris_install_tmp_manage(polaris_ngwc_fed_t)

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_ngwc_fed_t)

optional_policy('  
    polaris_quake_i2c_manage(polaris_ngwc_fed_t)
')

# work with /tmp files (/tmp/fed_post_results)
type polaris_fed_tmp_t;
files_tmp_file(polaris_fed_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, file, "fed_post_result")
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, dir, "test_mrvlphy")
manage_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_dirs_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_fifo_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
polaris_cm_rp_tmp_manage(polaris_ngwc_fed_t)

# Allow write to flash. Needed for template support.
polaris_flashlib_write(polaris_ngwcFed_t)

# CSCvo78054 will be used to fix fed policies on crankshaft properly.
# Below policy is just to unblock Nightwatch boot issue on ISR in
# enforcing mode.
ifdef("crankshaft_family",
# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_ngwcFed_t)

#ISR Nightwatch module creates softlink /flash -> /bootflash
gen_require(`
    type root_t;
')
filetrans_pattern(polaris_ngwcFed_t, root_t, polaris_disk_bootflash_t, lnk_file, "flash")

')

optional_policy(`
polaris_epc_ws_liaison_tmp_read(polaris_ngwcFed_t)
')

# ngwc-fed manage /tmp/epc_ws/fed_to_wif_pipe file fifo_file.
optional_policy(`
polaris_epc_ws_liaison_fifo_manage(polaris_ngwcFed_t)
')

optional_policy(`
polaris_ngwc_itfpo_manage(polaris_ngwcFed_t)
')

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy(`
polaris_serdes_asic_key_tmp_manage(polaris_ngwcFed_t)
')

# ngwc-fed creates /tmp/epc_ws dir
optional_policy(`
polaris_epc_ws_liaison_tmp_file(polaris_ngwcFed_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/sbin/ncsshd -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_exec_t,s0)
/var/run/ncsshd_mgmt.pid -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmncsshdmgmt.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/mcp_smartctl_cmds.sh -- gen_context(system_u:object_r:polaris_smartctl_exec_t,s0)
/tmp/smart.pid -- gen_context(system_u:object_r:polaris_smartctl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.fc
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/tmppub/interceptor(/.*)? gen_context(system_u:object_r:polaris_pttcd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris Cfg Policy Rules.</summary>

#################################################################
# Cfg files policy

## <summary>
Manage cfg files (under /tmp/sw/cfg)
## </summary>

## <param name="domain">
Domain allowed access.
## </param>

interface(`polaris_cfg_data_manage',
`gen_require(`
type polaris_cfg_data_t;
`
manage_dirs_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_lnk_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
`
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.if
No license file was found, but licenses were detected in source scan.

#  
# July 2017, Victor Kamensky
#  
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisngiolite, 1.0);

gen_require(
    type polaris_ngiolite_t;
`

polaris_btrace_data_manage(polaris_ngiolite_t)
polaris_crft_data_manage(polaris_ngiolite_t)
polaris_chasfs_manage(polaris_ngiolite_t)
polaris_tdlresolve_read(polaris_ngiolite_t)
polaris_tdldb_list_dirs(polaris_ngiolite_t)
polaris_cpld_read(polaris_ngiolite_t)
polaris_flashlib_read(polaris_ngiolite_t)
optional_policy(`
polaris_cpp_tmp_ifdev_use(polaris_ngiolite_t)
`)

# In the file of radium_xcvr.c allow access to create and bind
# the socket using the API bnxt_impl_init_netlink.
allow polaris_ngiolite_t self:netlink_generic_socket { bind create getattrs setopt }

# in iot platforms, ngiolite needs access to /proc/sys/net/ipv6/conf/mvsw/disable_ipv6
optional_policy(`
kernel_rw_net_sysctls(polaris_ngiolite_t)
kernell_search_network_sysctl(polaris_ngiolite_t)
`)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`crankshaft_family',`
polaris_qfp_sem_use(polaris_ngiolite_t)
polaris_ggpio_dev_read_write(polaris_ngiolite_t)
polaris_dplr_dev_use(polaris_ngiolite_t)
`)

ifdef(`fugazi_platform',`
polaris_qfp_sem_use(polaris_ngiolite_t)
`)

# write access to /sys/bus/pci/rescan
dev_rw_sysfs(polaris_ngiolite_t)
# LOOK AT ME ngiolite does it through "echo 1 > /sys/bus/pci/rescan" seems to much
# to grunt shell and bin access just to write "1" string into the file
corecmd_exec_bin(polaris_ngiolite_t)
corecmd_exec_shell(polaris_ngiolite_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_ngiolite_t)

polaris_firmware_read(polaris_ngiolite_t)
polaris_udev_tmp_list_dirs(polaris_ngiolite_t)

# allow access to read the file cman rommon file.
polaris_proc_rmonbifo_getattr(polaris_ngiolite_t)
polaris_proc_rmonbifo_read(polaris_ngiolite_t)

allow polaris_ngiolite_t self:capability { net_admin sys_rawio };

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23001
# allow system time capability to check for system timeout
# while checking the state using API cwan_modem_check_ready_state
allow polaris_ngiolite_t self:capability sys_time;

# allow access to nim_xxd file created by cmcc
polaris_nim_xxd_tmp_open_unlink(polaris_ngiolite_t);

# ngiolite needs to work with /dev/sd /dev/sg devices to figure out disk driver
# parameters. drivers/userspace/nim_xxd library
storage_raw_read_fixed_disk(polaris_ngiolite_t)
storage_read_scsi_generic(polaris_ngiolite_t)
storage_write_scsi_generic(polaris_ngiolite_t)

polaris_sysfs_platform_dev_use(polaris_ngiolite_t)

# LOOK AT ME: ngiolite needs to work with /dev/ds31408, which is generic device_t now
gen_require('
  type device_t;
')
rw_chr_files_pattern(polaris_ngiolite_t, device_t, device_t)

# modprobe nim_dm dm_drv_log_level=0x01
ifdef('crankshaft_family','
  modutils_domtrans_insmod(polaris_ngiolite_t)
')
polaris_smartctl_domtrans(polaris_ngiolite_t)

# utah_fpge_driver.c needs socket to configure interface parameters
allow polaris_ngiolite_t self:udp_socket create_socket_perms;

polaris_utility_domain_template(smartctl)
corecmd_exec_bin(polaris_smartctl_t)
corecmd_exec_shell(polaris_smartctl_t)

# allow access to polaris_cpp_tmpfs_t file
# Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
# The ngiolite init function calls the api ifdev_init
# to initialize shared memory control info.
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_smartctl_t)

logging_send_syslog_msg(polaris_smartctl_t)
fstools_domtrans(polaris_smartctl_t)

# runs tar /bin/tar -xvzf /firmware/MicronP400m-MTFDDAK200MAN.pkg -C /firmware
polaris_firmware_manage(polaris_smartctl_t)
files_getattr_all_dirs(polaris_smartctl_t)
files_read_all_symlinks(polaris_smartctl_t)

# work with /dev/sgX
storage_read_scsi_generic(polaris_smartctl_t)
storage_write_scsi_generic(polaris_smartctl_t)

allow polaris_smartctl_t self:capability { chown dac_override fowner fsetid };

type polaris_smartctl_tmp_t;
files_tmp_file(polaris_smartctl_tmp_t)
files_tmp_filetrans(polaris_smartctl_t, polaris_smartctl_tmp_t, file, "smart.pid")
manage_files_pattern(polaris_smartctl_t, polaris_smartctl_tmp_t, polaris_smartctl_tmp_t)

# script inherits stdout from ngiolite, needs permission to append to it
polaris_use_btrace_fifo(polaris_smartctl_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',
polaris_dev_mem_use(polaris_ngiolite_t)
')

ifdef(`sparrow_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`blackheart_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`cabo_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`aventus_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`crankshaft_family',
# allow scan pci/devices proc dir
# The ngiolite init function makes call to o2_cvmx_remote_open to
# open the remote library connection to cavium chip in FFP.
# The octeon library call invokes pci_get_device, which needs to
# access /proc.
kernel_getattr_proc_files(polaris_ngiolite_t)
kernell_write_proc_files(polaris_ngiolite_t)
kernell_read_system_state(polaris_ngiolite_t)

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of ngiolite access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
polaris_cm_fpm_tmp_filetrans(polaris_ngiolite_t)
polaris_cm_fpm_tmp_manage(polaris_ngiolite_t)

#################################################
## CWAN NGIOLITE process policies start##########
#################################################
#cwan running as a ngiolite process needs to be able to RW/IOCTL to qcqmiX files
polaris_qcqm_dev_use(polaris_ngiolite_t)

# RDM thread in CWAN running as ngiolite process needs access to ttyUSB0 for DM logging
term_use_usb_tty(polaris_ngiolite_t)

# RDM/Event thread needs to add a newly generated DM log file/ Crash dump file to/from bootflash directory
polaris_bootflash_manage(polaris_ngiolite_t)

# Modem Monitor thread uses sendto over a Datagram socket to send datato Turing Thread
allow polaris_ngiolite_t self:unix_dgram_socket sendto;

# Modem Monitor thread opens a socket to UDEV to process Modem USB addition/disconnection events
allow polaris_ngiolite_t self:netlink_kobject_uevent_socket create_socket_perms;

# Modem Monitor thread needs to be able to open/Read and GetAttributes to differentiate between Telit/SWI vendor
udev_rw_db(polaris_ngiolite_t)

# Turing thread needs to gather stats as well as set the IP address to /proc/net/cwan_modem0/cwan0/src_ip
kernel_search_network_state(polaris_ngiolite_t)
polaris_kernel_rw_network_state_files(polaris_ngiolite_t)

#################################################
## CWAN NGIOLITE process policies end############
#################################################

# on tsn need access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/external_int_pending dev
optional_policy(`
polaris_mokafpga_rw(polaris_ngiolite_t)
)

# on radium need to get model info
optional_policy(
polaris_dash_dev_use(polaris_ngiolite_t)
)

# work with contdev sysfs files
polaris_contdev_dev_read(polaris_ngiolite_t)

sysnet_domtrans_ifconfig(polaris_ngiolite_t)

logging_sendSyslogMsg(polaris_ngiolite_t)

ifndef(`neptune_platform',
polaris_cpp_cavium_sdk_ipc_use(polaris_ngiolite_t)
)

optional_policy(
polaris_nim_dm_dev_use(polaris_ngiolite_t)
)

ifndef(`radium_platform',
# allow ngiolite to access nim_phy_device
polaris_nim_phy_dev_use(polaris_ngiolite_t)
)

# TODO/FIXME, Need to review this permission, this is related to
# the call "echo 1 > /sys/bus/pci/rescan"
dev_manage_sysfs_dirs(polaris_ngiolite_t)
allow polaris_ngiolite_t sysfs_t:file create;

# allow ngiolite to access sfp over i2c bus
polaris_i2c_use(polaris_ngiolite_t)

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(
polaris_cpp_cavium_dma_map(polaris_ngiolite_t)
)

ifndef(`katar_platform',

# /dev/sfp-ktr & qfp sem access on Katar
ifndef(`katar_platform',
polaris_sfp_katar_dev_use(polaris_ngiolite_t)
polaris_qfp_sem_use(polaris_ngiolite_t)
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)
")

# allow /usr/binos/bin/ngiolite to access /tmp/nim_xxd_present
gen_require('  type polaris_cmrp_nim_xxd_tmp_t;
')
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

# allow /usr/binos/bin/ngiolite to access /tmp/hd_s
gen_require('  type udev_tmp_t;
')
read_files_pattern(polaris_ngiolite_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/lvm to be executed and to be operated
lvm_domtrans(polaris_ngiolite_t)

# allow /usr/binos/bin/ngiolite to manage /tmp
type polaris_ngiolite_tmp_t;
files_tmp_file(polaris_ngiolite_tmp_t)
# allow /usr/binos/bin/ngiolite to manage /tmp/smartctl.out and
# /tmp/xxdisplay.out
files_tmp_filetrans(polaris_ngiolite_t, polaris_ngiolite_tmp_t, file)
manage_files_pattern(polaris_ngiolite_t, polaris_ngiolite_tmp_t, polaris_ngiolite_tmp_t)

# allow /usr/sbin/smartctl to operate on fsadm_exec_t
fstools_domtrans(polaris_ngiolite_t)

# allow /usr/sbin/smartctl to access nvme device in chr and blk
dev_nvme_chr_files_manage(polaris_ngiolite_t)
dev_nvme_blk_files_manage(polaris_ngiolite_t)

ifdef('sumatra_platform',
  # dev/cpld
  polaris_cpld_dev_use(polaris_ngiolite_t)

  # manage "sysctl_i2c.lck"
  gen_require('    type polaris_cm_rp_tmp_t;
  ')
  files_tmp_filetrans(polaris_ngiolite_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_ngiolite_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_ngiolite_t)
ifdef(`crankshaft_family',``
# /var/run/cwan socket and pid
gen_require(`
  type polaris_cwan_svr_var_run_t;
`)
files_pid_filetrans(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, sock_file, `cwan_ezmanage_cwan_server``)
create_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
delete_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
`)

# allow /usr/binos/bin/ngiolite to access the the following interface
fs_unmount_xattr_fs(polaris_ngiolite_t)
dev_manage_generic_symlinks(polaris_ngiolite_t)
polaris_udev_tmp_manage(polaris_ngiolite_t)

# ngiolite/ezManage access rules - currently only applies to TSN
optional_policy(`
  # Allow ngiolite to access ezManage dgram socket
  gen_require(`
    type polaris_ezmanage_t;
  `)
  allow polaris_ngiolite_t polaris_ezmanage_t:unix_dgram_socket sendto;

  # Allow ngiolite to access ezManage socket file in /var/run
  polaris_manage_ezmanage_var_run_files(polaris_ngiolite_t)
`)

# allow ngiolite to access /dev/nim_phy
ifdef(`crankshaft_family',``
polaris_nim_phy_dev_use(polaris_ngiolite_t)
`)

# allow ioctl, read, wr permission for ds31408 device
optional_policy(`
polaris_ds31408_dev_use(polaris_ngiolite_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
```
#
/tmp/.ncsshd_bp/.sock -s gen_context(system_u:object_r:polaris_dmi_ncsshd_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.fc
No license file was found, but licenses were detected in source scan.
#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris vdaemon Policy Rules.</summary>

#######################################
## <summary>
##      Write vdaemon /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vdaemon_var_sock_write',`
   gen_require(`
      type polaris_vdaemon_t;
      type polaris_vdaemon_var_run_t;
      type var_run_t;
      `)
   write_sock_files_pattern($1, var_run_t, polaris_vdaemon_var_run_t)
   allow $1 polaris_vdaemon_t:unix_stream_socket { connectto };
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.if
No license file was found, but licenses were detected in source scan.
#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
```
policy_module(polarisboothelper, 1.0);

polaris_process_domain_template(boothelper_evt)

corecmd_exec_bin(polaris_boothelper_evt_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_boothelper_evt_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_boothelper_evt_t)

polaris_cpld_read(polaris_boothelper_evt_t)

# work with /tmp/udev/.

type polaris_udev_tmp_files_t;
files_tmp_file(polaris_udev_tmp_files_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_udev_tmp_files_t, dir, "udev")

polaris_bootflash_manage(polaris_boothelper_evt_t)

type polaris_boothelper_tmp_t;
files_tmp_file(polaris_boothelper_tmp_t)

files_tmp_filetrans(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, dir, "rommon_upgrade_ngwc")
manage_files_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
manage_dirs_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)

# watch over /tmp/rommon_upgrade_ngwc
allow polaris_boothelper_evt_t polaris_boothelper_tmp_t:dir watch;

# nyquist creates /tmp/udev_ssd.log

gen_require("
    type udev_t;
"
)

files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")

# create /dev/harddisk1 softlink during bootup
ifdef("crankshaft_family",

gen_require("
    type device_t;
    type initrc_t;
    type fixed_disk_device_t;
"
)

filetrans_pattern(initrc_t, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
")
# restorecon under setfiles_t appends to /tmp/udev_ssd.log
gen_require('
    type setfiles_t;
  ')
polaris_udev_tmp_manage(setfiles_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarismns, 1.0);

gen_require('  
    type polaris_nmspd_t;
  ')
polaris_btrace_data_manage(polaris_nmspd_t)
polaris_crft_data_manage(polaris_nmspd_t)
polaris_chasfs_manage(polaris_nmspd_t)
polaris_tdlresolve_read(polaris_nmspd_t)
polaris_tdlldb_list_dirs(polaris_nmspd_t)
polaris_cpld_read(polaris_nmspd_t)
polaris_lua_read(polaris_nmspd_t)
polaris_flashlib_read(polaris_nmspd_t)
polaris_ripc_sman_ui_serv_connect(polaris_nmspd_t)
polaris_db_tdlldb_dir_use(polaris_nmspd_t)

# mqipc manual, one that missing in platform tdl file\n
# type polaris_nmspd_testclient1_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient1_mqipc_t)

type polaris_nmspd_testclient2_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient2_mqipc_t)

type polaris_testclient1_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspd_mqipc_t)
type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient1_mqipc_t, nmspd-testclient1)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient1_nmspd_mqipc_t)

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient2_mqipc_t, nmspd-testclient2)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient2_nmspd_mqipc_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_nmspd_t)
polaris_socketat_nsfs_read(polaris_nmspd_t)
# enable listen on tcp port 16113
corenet_tcp_bind_polaris_nmspd_port(polaris_nmspd_t)

allow polaris_nmspd_t self:capability dac_override;

# Allow IPC messages to Btrace Process from NMSPD Process
logging_send_syslog_msg(polaris_nmspd_t)
# Allow NMSPD to read DNS file for nameresolution
sysnet_read_config(polaris_nmspd_t)

# NMSPD uses cURL to open HTTP connections and SSL to open TLS Connections
# to DNASpaces and CMX respectively
gen_require(''
    type node_t;
')
allow polaris_nmspd_t node_t:udp_socket node_bind;
allow polaris_nmspd_t self:udp_socket { bind connect getattr };
corenet_tcp_connect_http_port(polaris_nmspd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_nmspd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_nmspd_t)
polaris_tmp_tdldb_persist_setup(polaris_nmspd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisftm, 1.0);
gen_require('  
    type polaris_ftm_t;
  ')
polaris_chasfs_manage(polaris_ftm_t)
polaris_cpld_read(polaris_ftm_t)
polaris_flashlib_read(polaris_ftm_t)
polaris_tdlresolve_read(polaris_ftm_t)
polaris_ripc_sman_ui_serv_connect(polaris_ftm_t)
polaris_db_tdldb_dir_use(polaris_ftm_t)
logging_send_syslog_msg(polaris_ftm_t)
corecmd_exec_bin(polaris_ftm_t)
corecmd_exec_shell(polaris_ftm_t)
auth_use_nsswitch(polaris_ftm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ftm_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_ftm_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_ftm_t)

polaris_cedge_reset_ns(polaris_ftm_t)

# /var/run/ftmd-xxx sockets and pid
type polaris_ftm_var_run_t;
  files_pid_file(polaris_ftm_var_run_t)
  manage_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
  manage_sock_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
  files_pid_filetrans(polaris_ftm_t, polaris_ftm_var_run_t, { file sock_file })
  polarisCfgmrg_var_sock_write(polaris_ftm_t)
  polaris DBGd_var_sock_write(polaris_ftm_t)
  polaris fpm_var_sock_write(polaris_ftm_t)
  polaris ttm_var_sock_write(polaris_ftm_t)
  polaris vdaemon_var_sock_write(polaris_ftm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_ftm_t)
files_manage_boot_files(polaris_ftm_t)
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23013

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_ftm_t)

# vip_execute_nowait uses setpgid
allow polaris_ftm_t self:process setpgid;

polaris_cedge_tmpfs_manage(polaris_ftm_t)

# raw socket access from trace_tunnel_socket_icmp_init ftm_binos_trace.c
allow polaris_ftm_t self:rawip_socket create_socket_perms;
allow polaris_ftm_t self:capability net_raw;

# bind to ftm fnf port
corennet_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corennet_udp_bind_generic_node(polaris_ftm_t)

# ftm may create vrf-based netns on demand, vrf.65528
polaris_vrf_netns_manage(polaris_ftm_t)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_ftm_t)
')

# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_ftm_t)

# ftm_change_default_gw_src_ip calls ip utility
sysnet_domtrans_ifconfig(polaris_ftm_t)

# ftm process periodically call nice utility to gzip some xml file
allow polaris_ftm_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris fman_fp Policy Rules.</summary>
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23014

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismanfp.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# # All rights reserved
#

/tmp/replication(/.*)? gen_context(system_u:object_r:polaris_repm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
# # All rights reserved
#

### <summary>Polaris Btrace Policy Rules.</summary>

yyyyMMddHMSsZzzzzz

### <summary>Polaris cpp (ultra)

### <summary>

### Work (read, write, ioctl) with /dev/cpp_dev_info and /dev/cpp_vxe_rsrc
### devices.
### </summary>

### Domain allowed access.
### </summary>
### </param>
### </rolebase/>
#
interface(‘polaris_cpp_dev_use’,‘

generate_pattern(‘$1, device_t, polaris_cpp_device_t)


Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23014
read_chr_files_pattern($1, device_t, polaris_cpp_device_t)  
allow $1 polaris_cpp_device_t:chr_file map;  
polaris_i95_dev_use($1)
')

########################################  
## <summary>  
##      Make the specified domain as polaris cpp process.  
## </summary>  
## <param name="type">  
##      <summary>  
##      Type to be used as a cpp process.  
##      </summary>  
## </param>  
#  
# interface('polaris_cpp_process',`  
  gen_require(`  
      attribute polaris_cpp_domain;  
  `)

  typeattribute $1 polaris_cpp_domain;  
)`

########################################  
## <summary>  
##      Make the specified domain able to use cpp /tmp files.  
## </summary>  
## <param name="type">  
##      <summary>  
##      Domain allowed access.  
##      </summary>  
## </param>  
## <param name="object">  
##      <summary>  
##      File name in /tmp that domains creates and other cpp process  
##      access.  
##      </summary>  
## </param>  
#  
# interface('polaris_cpp_tmp_files_use',`  
  gen_require(`  
      type polaris_cpp_tmp_t;  
  `)

  files_tmp_filetrans($1, polaris_cpp_tmp_t, file, $2)  
  manage_files_pattern($1, tmp_t, polaris_cpp_tmp_t)  
  allow $1 polaris_cpp_tmp_t:file map;  
)`
## <summary>
## Specified domain can execute polaris_cpp_tmpifs_t code
## which resides in /dev/shm/cpp_ucode_dram
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_tmpfs_exec',`
    gen_require(
        type polaris_cpp_tmpfs_t;
    ')

    allow $1 polaris_cpp_tmpfs_t:file execute;
')

## <summary>
## Read write from polaris_cpp_tmpfs_t file
## Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_tmpfs_ifdev_rw',`
    gen_require(
        type tmpfs_t;
        type polaris_cpp_tmpfs_t;
    ')

    rw_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
')

## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">

interface('polaris_cpp_tmp_ifdev_use',
    gen_require('    
        type polaris_cpp_tmp_t;
    ')
)

manage_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
allow $1 polaris_cpp_tmp_t:file map;
')

interface('polaris_cpp_tmp_ifdev_getattr',
    gen_require('    
        type polaris_cpp_tmp_t;
    ')
    
    getattr_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
')

interface('polaris_cpp_cavium_sdk_ipc_use',
    gen_require('    
        type polaris_cpp_tmp_t;
    ')
    
    cavium_sdk_ipc$1, tmp_t, polaris_cpp_tmp_t)
')
ifdef(`crankshaft_family',``
polaris_cpp_driver_sem_use($1)
polaris_cpp_driver_shm_use($1)
optional_policy(`
polaris_cpp_cdm_sem_use($1)
polaris_cpp_cdm_shm_use($1)
')
optional_policy(`
polaris_cm_fp_sem_use($1)
polaris_cm_fp_shm_use($1)
')
# allow scan pci/devices proc dir
kernel_getattr_proc_files($1)
kernell_write_proc_files($1)
kernal_read_system_state($1)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/i95 devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_i95_dev_use',`
gen_require(`
type device_t;
type polaris_i95_device_t;
')
write_chr_files_pattern($1, device_t, polaris_i95_device_t)
read_chr_files_pattern($1, device_t, polaris_i95_device_t)
allow $1 polaris_i95_device_t:chr_file map;
')

######################################
## <summary>
## Work (read, write, map) with sysfs files required
## by cavium library in o2_cavm_mem_map.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface(`polaris_cpp_cavium_dma_map',`
gen_require(`
    type sysfs_t;
    ')

    mmap_files_pattern($1, sysfs_t, sysfs_t)
    dev_rw_sysfs($1)
    ')

#######################################
## <summary>
##      Manage /dev/shm files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_cpp_tmpfs_manage',`
gen_require(`
type polaris_cpp_tmpfs_t;
type tmpfs_t;
')

    fs_tmpfs_filetrans($1, polaris_cpp_tmpfs_t, file)
    manage_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
    ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris bt_logger Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

# /bootflash labels
/bootflash(/.*)?                     gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?                 gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\.pub   gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key        gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?          gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?                 gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?                gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf                gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf             gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /csl_p_0
/csl_p_0(/.*)?                      gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)?                      gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?                      gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?                      gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /obfl is separate on qwlc
/obfl(/.*)?                         gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /varied
/varied(/.*)?                       gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info                gen_context(system_u:object_r:polaris_vwlcinstall_info_t,s0)
/varied/obfl.*                      gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version          gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)?                   gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)?                  gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/grub/menu.*                 gen_context(system_u:object_r:bootloader_etc_t,s0)
/sbin/grub*                         gen_context(system_u:object_r:bootloader_exec_t,s0)

# /grubenv
/bootefi(/.*)?                      gen_context(system_u:object_r:polaris_grub_efi_t,s0)
# hanet driver used by vwlc and ultra, is there better place for it?
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /harddisk labels (qwlc)
/vol/harddisk/(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/epa device on qwlc
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on qwlc
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/astro on qwlc
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/cpp_il on qwlc
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

# /flash is symbolic link to /bootflash on qwlc
flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/oob_evfc on qwlc
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/sfp-ktr on katar
/dev/sfp-ktr -c gen_context(system_u:object_r:polaris_sfp_katar_device_t,s0)

# To store tcpdump output in file haIntCaptureLo.pcap
/bootflash/haIntCaptureLo.pcap gen_context(system_u:object_r:polaris_netutils_data_t,s0)
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
*/config/.ssh/ssh_host.*_key.pub  gen_context(system_u:object_r:sshd_key_t,s0)
*/config/.ssh/ssh_host.*_key         gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl

dnl WLC Platform Max Bay Limits
d max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 0)
max_bay_map_set('fp', 'per_bay', 0)


dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 1)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vwlcmmaps.m4
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariswebui, 1.0);

type polaris_webui_file_t;
files_type(polaris_webui_file_t)
polaris_pfile_type(polaris_webui_file_t)

polaris_process_domain_template(webui_lighttpd)

polaris_process_domain_template(webui)

gen_require('
    type initrc_t;
')

manage_dirs_pattern(initrc_t, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.te

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscmrp, 1.0);

gen_require('
    type polaris_cm_rp_t;
')

polaris_btrace_data_manage(polaris_cm_rp_t)
polaris_crft_data_manage(polaris_cm_rp_t)
polaris_chasfs_manage(polaris_cm_rp_t)
polaris_tdlresolve_read(polaris_cm_rp_t)
polaris_tdlldb_list_dirs(polaris_cm_rp_t)
polaris_cpld_read(polaris_cm_rp_t)
polaris_lua_read(polaris_cm_rp_t)
polaris_flashlib_read(polaris_cm_rp_t)
polaris_flashlib_write(polaris_cm_rp_t)

#
# cm_rp opens log file to collect required RP, CC, FP and rommon details
# and write into /vol/harddisk/.inv/inv_log_file
# This file is accessed by crashinfo collecting script and others

type polaris_cm_rp_inv_log_file_t;
polaris_disk_type(polaris_cm_rp_inv_log_file_t)
polaris_cm_rp_inv_log_setup(polaris_cm_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_rp_t)
polaris_cpld_dev_use(polaris_cm_rp_t)

polaris_cpld_dev_use(polaris_cm_rp_t)
polaris_lfts_dev_use(polaris_cm_rp_t)
polaris_proc_rmonbifo_read(polaris_cm_rp_t)
polaris_obfl_data_read(polaris_cm_rp_t)
polaris_db_tldlb_dir_use(polaris_cm_rp_t)
# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
allow polaris_cm_rp_t self:capability { sys_rawio dac_override chown sys_resource};

allow polaris_cm_rp_t self:process setsched;

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479569571.044:3): avc: denied {getattr} for pid=5283 comm="cmand"
path="/sys/devices/i2c-0/i2c-1/1-0056/eprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_rp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479569571.045:4): avc: denied {read write} for pid=5283 comm="cmand"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_rp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_rp_t)
polaris_ggpio_dev_read_write(polaris_cm_rp_t)

# accessing obfl files like /obfl/obfl_uptime_v2.log
polaris_bootflash_read(polaris_cm_rp_t)
polaris_obfl_data_manage(polaris_cm_rp_t)
corecmd_exec_shell(polaris_cm_rp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_cm_rp_t)

# cman_data_chasfs_mgmt_eth_override (cman/rp/src/cman_data.c:1096) tries to do
# ioctl(sk, SIOCGIFHWADDR, &ifr) for "eth2", which is not present on ultra, but
# such ioctl in kernel triggers dev_load attempt in kernel. Since interface
# and module does exist anyway, it is OK to deny it
kernel_dontaudit_request_load_module(polaris_cm_rp_t)

# cmand creates udp socket to get interface hw address cmlib_if_config_addr
allow polaris_cm_rp_t self:udp_socket create_socket_perms;

# dyncfg_setup.sh is started by cmand
polaris_dyncfg_domtrans(polaris_cm_rp_t)
polaris_dyncfg_tmp_read(polaris_cm_rp_t)
# on crankshaft cm_rp does init directly
polaris_dyncfg_setup(polaris_cm_rp_t)
# denied { search read open } subject: polaris_cm_rp_t; object: polaris_disk_varied_t
# name="/" dev="sda5"; path="/varied"
polaris_disk_varied_manage(polaris_cm_rp_t)

#allow polaris_cm_rp_t polaris_udev_tmp_files_t:dir { read search }
polaris_udev_tmp_list_dirs(polaris_cm_rp_t)

# LOOK AT ME: /tmp/rp/chasfs/inventory has symbolic links back to
# /bootflash/core/modules and /bootflash/tracelogs/modules cman_inv_restart_init
# calls chasfs_properties_internal over this node and as result it tries to
# access those directories
polaris_core_file_search(polaris_cm_rp_t)
polaris_disk_bootflash_search(polaris_cm_rp_t)
polaris_btrace_persistent_data_search(polaris_cm_rp_t)

polaris_dyncfg_tmp_manage(polaris_cm_rp_t)

ifdef(`mcp_family',`
polaris_scooby_dev_use(polaris_cm_rp_t)
# read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
polaris_spa_dev_use(polaris_cm_rp_t)
')

# temporary files created for repm in /tmp/replication
type polaris_cm_rp_tmp_t;
files_tmp_file(polaris_cm_rp_tmp_t)
gen_require(`
	type tmp_t;
')
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pfu_oirtime.lock")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "golden_boot")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sr_message_debug.txt")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "ngwe_sudi_auth_done")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "codesign.txt")
polaris_cm_rp_tmp_manage(polaris_cm_rp_t)

logging_send_syslog_msg(polaris_cm_rp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_rp_t)
dev_getattr_sysfs_fs(polaris_cm_rp_t)

# /var files
gen_require(`
	type var_log_t;
type polaris_cm_rp_var_log_t;
logging_log_file(polaris_cm_rp_var_log_t)
logging_log_filetrans(polaris_cm_rp_t, polaris_cm_rp_var_log_t, file, "obfl_uptime_v2.log")
manage_files_pattern(polaris_cm_rp_t, var_log_t, polaris_cm_rp_var_log_t)

# needed for "show platform hardware slot R0 eobc interface primary status"
kernel_read_network_state(polaris_cm_rp_t)

polaris_utility_domain_template(pcie_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_pcie_status_cmd_t, polaris_pcie_status_cmd_exec_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pcie_status_cmd_t)

# "lspci" needs access to files like /sys/devices/pci0000:00/0000:00:00.0/resource
dev_read_sysfs(polaris_pcie_status_cmd_t)
polaris_send_signal_to_bexecute(polaris_cm_rp_t)

# need write/getattr access for pipes like "pipe:[118396]"
polaris_cmrp_use_fifo(polaris_pcie_status_cmd_t)
corecmd_exec_bin(polaris_pcie_status_cmd_t)

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_cm_rp_t)
    polaris_nios_dev_use(polaris_cm_rp_t)
)

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',
    polaris_dash_dev_mcp_use(polaris_cm_rp_t)
)
ifdef(`crankshaft_family',
polaris_quack_dev_use(polaris_cm_rp_t)
)
ifdef(`sparrow_platform',
  polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
  )

ifdef(`blackheart_platform',
  polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
  )

ifdef(`cabo_platform',
  polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
  )

ifdef(`aventus_platform',
  polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
  polaris_dio_dev_use(polaris_cm_rp_t)
  )

ifdef(`qwlc_platform',
  polaris_quack_dev_use(polaris_cm_rp_t)
  )

ifdef(`katar_platform',
  polaris_quack_dev_use(polaris_cm_rp_t)
  )

ifdef(`wlc_family',
  netutils_domtrans_ping(polaris_cm_rp_t)
  )

ifdef(`ngwc_family',
  # In cman_rp module fips/entropy component
  # calls cman_ngwc_tam_platform_get_act2_entropy() to
  # retrieve entropy from ACT2 chip.
  polaris_act2_dev_use(polaris_cm_rp_t)
  # cman-rp init needs access to quack chip
  polaris_quack_dev_use(polaris_cm_rp_t)
  # read /proc/cmdline
  kernel_read_system_state(polaris_cm_rp_t)
  #on macallan and nyquist cman_rp needs to access /flash#/lic0/sudi_cert_data_v3
  polaris_disk_license_read(polaris_cm_rp_t)
  #on macallan and starfleet cli "show firmware version lan_spi" triggers ethtool usage
  sysnet_domtrans_ifconfig(polaris_cm_rp_t)
  )
# cman-rp needs to read /tmp/fed_post_result and /tmp/sm_post_result
# on ngwc platforms
optional_policy(
  polaris_fed_tmp_files_read(polaris_cm_rp_t)'
)
optional_policy(
  polaris_sif_mgr_tmp_files_read(polaris_cm_rp_t)'
)

ifdef(`starfleet_platform',`
  polaris_dmammap_dev_use(polaris_cm_rp_t)
')

ifdef(`nyquist_platform',`
  polaris_ngwc_shm_manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)

files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_t, file, "mcu_upgrading")

# executes tar for microcode
allow polaris_cm_rp_t self:capability { fowner fsetid }
')

ifdef(`radium_platform',`
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
')

ifdef(`sumatra_platform',`
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)

# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_cm_rp_t)
# access huron FPGA
polaris_huron_dev_use(polaris_cm_rp_t)
')

ifdef(`quake_platform',`
polaris_ngwc_shm_manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")
"

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn48950 is fixed using CSCvm48953
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

# CLI: "show platform hardware slot R0 xaui statistics"
# this results in cman (/usr/binos/bin/cmand) invoking
# "/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/dash_fpga_xaui.py show".
# The python script dash_fpga_xaui.py runs in polaris_bexecute_t domain
# and as part of its functionality it needs to create an UDP socket and make an ioctl call.

polaris_utility_domain_template(dash_fpga_xaui)
polaris_bexecute_domain(polaris_dash_fpga_xaui_t, polaris_dash_fpga_xaui_exec_t)
polaris_cmrp_use_fifo(polaris_dash_fpga_xaui_t)
allow polaris_dash_fpga_xaui_t self:udp_socket { create ioctl }

# CLI: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman_cli_show_cpu_share_cb in binos/cman/rp/src/cman_cli.c
# allow open/read/search cgroup files like
# /sys/fs/cgroup/cpu,cpuacct/iosxe_control_processes/cpu.shares

fs_read_cgroup_files(polaris_cm_rp_t)
fs_list_cgroup_dirs(polaris_cm_rp_t)

# on tsn need access to /dev/moka_fpga
optional_policy('  polaris_mokafpga_dev_use(polaris_cm_rp_t)  ')

optional_policy('  # betelgeuse need access to /dev/sirius_fpga  polaris_sirius_fpga_dev_use(polaris_cm_rp_t)  ')

# on tsn read access to /sys/devices/platform/moka_fpga  optional_policy('  polaris_mokafpga_read(polaris_cm_rp_t)  ')

optional_policy('  polaris_tam_getattrs_tmp_dirs(polaris_cm_rp_t)  ')

# on vwlc/macallan, cmand creates /tmp/hw_entropy  polaris_hw_entropy_create(polaris_cm_rp_t)

# on tsn need write access to  # sys/devices/platform/cpld/reg_rp_sku_register  # on starfleet need write access to  # sys/devices/platform/cpld/reg_fan_fault_shutdown  optional_policy('  polaris_cpld_write(polaris_cm_rp_t)  ')

# LOOK AT ME: /dev/mem access restriction  ifdef('tsn_platform', '  polaris_dev_mem_use(polaris_cm_rp_t)  ')

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums  polaris_kgv_data_manage(polaris_cm_rp_t)

optional_policy('    polaris_quake_i2c_manage(polaris_cm_rp_t)  ')

ifdef('qwlc_platform', '    # read/write /dev/ds3100 chr device    dev_rw_generic_chr_files(polaris_cm_rp_t)  ')

ifdef('katar_platform', '    # read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
# Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

ifdef(`mcp_family',`
# Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

# /dev/luna_fpga on qwlc
optional_policy(`
polaris_luna_mbfpga_dev_use(polaris_cm_rp_t)
')

# open /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_rp_t)
optional_policy(`
polaris_ngwc_scc_shm_manage(polaris_cm_rp_t)
')

ifdef(`ngwc_family',`
# on nyquist in ngwc_update_member_config nvram_config is
# copied from /tmp/chassis/local/rp/tam/00001.nvram_config
polaris_nvram_manage(polaris_cm_rp_t)
# CMAN needs to create nvram_config with the right label instead of bootflash_t
gen_require(`
    type polaris_nvram_file_t;
    type polaris_disk_bootflash_t;
')
filetrans_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_nvram_file_t, file, "nvram_config")
')

# CMANRP needs to create right label instead of bootflash_t
type polaris_user_file_t;
files_type(polaris_user_file_t);
polaris_bootflash_filetrans(polaris_cm_rp_t, polaris_user_file_t, file);
manage_files_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_user_file_t)

# on virtual platforms cman reads virtual sudi file /csl_p_0/vudi.pri
ifdef(`vxe_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')
ifdef(`wlc_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')
# from cman_util_chasfs_watch_stby_harddisk
polaris_udev_tmp_watch(polaris_cm_rp_t)

# watch read over /tmp/chassis/local/rp/tam by cman_nyq_board_auth_init
polaris_chasfs_watch_read(polaris_cm_rp_t)

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_rp_t)

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy(')
polaris_serdes_asic_key_tmp_manage(polaris_cm_rp_t)
')

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_cm_rp_t)

ifdef('crankshaft_family','
# modprobe sm_nim_adpt.ko for Switzer-CC
modutils_domtrans_insmod(polaris_cm_rp_t)
# /dev/sm_nim_adpt device files for Switzer-CC
polaris_sm_nim_adpt_dev_use(polaris_cm_rp_t)

# "show platform hardware sublot <slot/card> backplane statistics"
# triggers ethtool with ifconfig_t using fifo_file (pipe) on polaris_cm_rp_t.
gen_require('
    type ifconfig_t;
')
polaris_cmrp_use_fifo(ifconfig_t)
')
polaris_iosd_vcpu_read(polaris_cm_rp_t)

############################################################################
# show platform hardware slot R0 fpga
# mcp_fpga_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_fpga_status_cmd.sh
############################################################################
polaris_utility_domain_template(fpga_status_cmd)

polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_fpga_status_cmd_t, polaris_fpga_status_cmd_exec_t)
polaris_cmrp_use_fifo(polaris_fpga_status_cmd_t)

auth_use_nsswitch(polaris_fpga_status_cmd_t)
corecmd_exec_bin(polaris_fpga_status_cmd_t)
# PLEASE LOOK AT ME: /sys/devices/platform/nios should have Cisco specific label
# read content under /sys/devices/platform/nios
dev_read_sysfs(polaris_fpga_status_cmd_t)

ifdef(`sparrow_platform',`
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`cabo_platform',`
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',`
polaris_fpga_upgrade_tmp_use(polaris_cm_rp_t)
')

type polaris_fpga_upgrade_tmp_t;
files_tmp_file(polaris_fpga_upgrade_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_fpga_upgrade_tmp_t, file, "fpga_upgrade")

# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)

# cman_rp needs read/write access to cpu msr
# /dev/cpu/0/msr
# following definition provides that
dev_rw_cpu_microcode(polaris_cm_rp_t)

type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd")
manage_files_pattern(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

ifdef(`2kp_platform',`
# blzi device
polaris_blzi_dev_use(polaris_cm_rp_t)
')

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_cm_rp_t)

ifdef(`wlc_family',`
# tcpdump access for RP
# packet dump is stored in file /bootflash/haIntCaptureLo.pcap
type polaris_netutils_data_t;
polaris_pfile_type(polaris_netutils_data_t)
gen_require(`
type polaris_disk_bootflash_t;
type netutils_t;
')
filetrans_pattern(netutils_t, polaris_disk_bootflash_t, polaris_netutils_data_t, file, "haIntCaptureLo.pcap")
manage_files_pattern(netutils_t, polaris_netutils_data_t, polaris_netutils_data_t)

# tcpdump access
netutils_run(polaris_cm_rp_t, system_r)

# pidof access
dev_read_sysfs(polaris_cm_rp_t)
kernel_read_system_state(polaris_cm_rp_t)
domain_read_all_domains_state(polaris_cm_rp_t)

# /usr/sbin/ethtool access for show platform hardware slot x ha_port interface stats command
sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')

optional_policy('polaris_ds31408_dev_use(polaris_cm_rp_t)
')
polaris_ddr_dev_use(polaris_cm_rp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_rp_t)

# allow acces to /tmp/cmlib_eeprom_sim_smartctl.out
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_rp_t)
dev_nvme_blk_files_manage(polaris_cm_rp_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_cm_rp_t)
polaris_tmp_tlddb_persist_setup(polaris_cm_rp_t)

#code_sign_verify is started by cmand
polaris_code_verify_domtrans(polaris_cm_rp_t)

ifdef('ngwc_family,'
# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_cm_rp_t)
')

ifdef('crankshaft_family',"
# For USB disable feature, /sys/bus/usb/drivers/usb/*/authorized is accessed

gen_require('type sysfs_t;')

allow polaris_cm_rp_t sysfs_t:file create;
devel_manage_sysfs_dirs(polaris_cm_rp_t)
')

ifdef('petra_platform',
#allow access to /dev/petra-fpga
polaris_iots_fpga_dev_use(polaris_cm_rp_t)
#allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_cm_rp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.te
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl
divert(-1)

include('polaris_process.m4')
dnl Stub out plaris process
define('polaris_process',''')

dnl Stub out mqipc
define('polaris_mqipc_service_server',''')
define('polaris_mqipc_service_client',''')
define('polaris_mqipc_service_server_elastic_client',''')

dnl Stub out lipc
define('polaris_lipc_service_server',''')
define('polaris_lipc_service_client',''')

include('polaris_ipc_ripc.m4')
include('polaris_ipc_base_ripc_if.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server',"")
define('polaris_cipc_service_server',"")

include('polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
### <summary>Polaris Platform Base IPC Policy Rules.</summary>
### <required val="true">
###   Needed for each polaris platform
### </required>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_if.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisplogd, 1.0);

gen_require(
    type polaris_plogd_t;
')

polaris_btrace_data_manage(polaris_plogd_t)
polaris_crft_data_manage(polaris_plogd_t)
polaris_chasfs_manage(polaris_plogd_t)
polaris_tdlresolve_read(polaris_plogd_t)
polaris_tdlldb_list_dirspolaris_plogd_t)
polaris_cpld_read(polaris_plogd_t)
polaris_flashlib_read(polaris_plogd_t)
polaris_ripc_sman_ui_serv_connect(polaris_plogd_t)

# originally when box starts /dev/log is symbolic link to /run/systemd/journal/dev-log
# but latter plogd reset links to its own socket: make sure that we have proper
# transition
gen_require(
    type devlog_t;
        type syslogd_t;
    )
allow polaris_plogd_t devlog_t:sock_file manage_sock_file_perms;
allow polaris_plogd_t devlog_t:lnk_file manage_lnk_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")
# make sure that unix_dgram_socket got transitioned into syslogd_t
type_transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
allow polaris_plogd_t syslogd_t:unix_dgram_socket { bind create read };

# autogen script misses connection between plogd
polaris_ripc_plog_serv_connect(polaris_plogd_t)

# why plogd needs dac_override capability?
allow polaris_plogd_t self:capability { dac_override };
allow polaris_plogd_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_plogd_t)

# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues
gen_require(''
type journalctl_t;
  )
journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;

# should be moved into contrib journalctl.te? journalctl tries to read
#/proc/1/environ
gen_require(''
type journalctl_t;
  )
init_read_state(journalctl_t)
allow journalctl_t self:capability sys_resource;
allow journalctl_t self:process setrlimit;

# plogd calls stdbuf to set up journalctl buffering
corecmd_exec_bin(polaris_plogd_t)

# writes into pman fifo stdout
polaris_use_btrace_fifo(journalctl_t)

# /dev/log is symbolic link to /run/systemd/journal/dev-log
# need ability to search in init_var_run_t /run/systemd
# some of subjects that use syslog may not have it
gen_require(''
    attribute syslog_client_type;
  )
init_search_pid_dirs(syslog_client_type)
#plog_d calls journalctl to get system log including AVC message.
allow polaris_plogd_t journalctl_t:process signal;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polaristamsrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.fc

No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris ftm Policy Rules.</summary>

#######################################
## <summary>
##      Write ttm /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ftm_var_sock_write',

    gen_require(
        type polaris_ftm_t;
        type polaris_ftm_var_run_t;
        type var_run_t;
    )

    write_sock_files_pattern($1, var_run_t, polaris_ftm_var_run_t)
    allow $1 polaris_ftm_t:unix_stream_socket { connectto };
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.if

No license file was found, but licenses were detected in source scan.
March 2017, Victor Kamensky

Copyright (c) 2016-2020 by Cisco Systems, Inc.
All rights reserved

/usr/bin/os/conf/iptbl.sh -- gen_context(system_u:object_r:polaris_iptbl_exec_t,s0)
/tmp/rp/iptbl -d gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/rp/iptbl/inot_fifo -p gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

# in polaris we have xtables-multi at wrong location
/usr/bin/xtables-multi -- gen_context(system_u:object_r:iptables_exec_t,s0)

#fman (rp.fp) acl mgmt and iptbl modules dependency
/tmp/iptbl.v4 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/iptbl.v6 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.fc
No license file was found, but licenses were detected in source scan.

March 2017, Victor Kamensky

Copyright (c) 2017-2019 by Cisco Systems, Inc.
All rights reserved

## <summary>Polaris cpp_sp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.if
No license file was found, but licenses were detected in source scan.

March 2017, Victor Kamensky

Copyright (c) 2017-2019 by Cisco Systems, Inc.
All rights reserved

# polarisngwctblmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/sysctrl_i2c.lck gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/pfu_oirtime.lock gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/golden_boot gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)

# dash_fpga_xaui.py is the backend python code for
# the cli "show platform hardware slot R0 xaui statistics"
/usr/binos/conf/dash_fpga_xaui.py -- gen_context(system_u:object_r:polaris_dash_fpga_xaui_exec_t,s0)

/usr/binos/bin/cmand_us -- gen_context(system_u:object_r:polaris_cm_rp_exec_t,s0)
# relabel /vol/harddisk/.inv
/vol/harddisk/.inv/(.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
/vol/harddisk_internal/.inv/(.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

# .inv dir is in /bootflash in Katar eWLC
/bootflash/.inv/(.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

/usr/binos/conf/mcp_fpga_status_cmd.sh -- gen_context(system_u:object_r:polaris_fpga_status_cmd_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.fc
No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris rrm_mngr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
## <summary>Polaris LIPC Policy Rules.</summary>

### LIPC policy

### Manage lipc files

### Getattr of lipc files directories
## <summary>
## Create lipc file
## </summary>
## <param name="domain">
## Domain allowed creating lipc channel.
## </param>
## <param name="channel_domain">
## Domain assigned to lipc channel.
## </param>
## <param name="channel_name">
## File name of lipc channel.
## </param>

```c
interface(`polaris_lipc_create_name',
gen_require(`
type polaris_lipc_t;
')

type_transition $1 polaris_lipc_t : sock_file $2 $3;
manage_sock_files_pattern($1, polaris_lipc_t, $2)

polaris_socketat_nsfs_read($1)

# not specific enough
# type_transition $1 $1 : unix_stream_socket $2;
# allow $1 $2:unix_stream_socket { listen accept bind create write read };
')

## <summary>
## Write lipc file
## </summary>
## <param name="domain">
## Domain allowed to connect and write into lipc file.
## </summary>
## <param>
## <param name="channel_domain">
##   <summary>
##   Domain assigned to lipc channel.
##   </summary>
## </param>
## <param name="server">
##   <summary>
##   Domain of owner of lipc channel.
##   </summary>
## </param>

interface("polaris_lipc_write",
    gen_require(
        type polaris_lipc_t;
    )
    write_sock_files_pattern($1, polaris_lipc_t, $2)
    allow $1 $3:unix_stream_socket { connectto };

    polaris_socketat_nsfs_read($1)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.if
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl

define('polaris_lipc_service_server_aux',
    type $1;
    files_type($1)
    polaris_lipc_$2_create_name($3'))

define('polaris_lipc_service_server_full',
    polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))
)

define('polaris_lipc_service_server',
    ifelse(lipc_type_map($1), 'polaris_lipc_service_server_full($1, $2)')
)

define('polaris_lipc_service_client_aux',
    polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))
)
polaris_lipc_s2_write($3, $4')

define('polaris_lipc_service_client', dnl
polaris_lipc_service_client_aux(lipc_label($1), lipc_stem($1), process_label($2), lipc_type_map(lipc_label($1)))dnl ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_te.m4
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisbtman, 1.0);

gen_require('polaris_btman_t;
')
polaris_crft_data_manage(polaris_btman_t)
polaris_chasfs_manage(polaris_btman_t)
polaris_tdlresolve_read(polaris_btman_t)
polaris_tdlldb_list_dirs(polaris_btman_t)
polaris_cpld_read(polaris_btman_t)
polaris_flashlib_read(polaris_btman_t)
polaris_ripc_sman_ui_serv_connect(polaris_btman_t)
polaris_db_tdlldb_dir_use(polaris_btman_t)
polaris_bexecute_domtrans(polaris_btman_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_btman_t)
polaris_send_signal_to_bexecute(polaris_btman_t)

corecmd_exec_bin(polaris_btman_t)
corecmd_exec_shell(polaris_btman_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btman_t)

allow polaris_btman_t self:capability { dac_override fsetid };
polaris_cpld_read(polaris_btman_t)

# operate on all btrace files
polaris_btrace_data_manage_all(polaris_btman_t)

# btman operated on /tmp/tmppub files
type polaris_btrace_tmppub_t;
files_tmp_file(polaris_btrace_tmppub_t)

polaris_systemd_tmpfiles_tmppub_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

polaris_persistent_read(polaris_btman_t)

# in purge_old_core_files_from_harddisk function of btrace_rotate_util.c
# script removes outdated core files, so it needs read/write permission
# to polaris_core_file_t files.
polaris_core_file_manage(polaris_btman_t)

fs_getattr_xattr_fs(polaris_btman_t)

# btman checks for presence of /tmp/udev/etc/udev/harddisk
# through hwutil_is_harddisk_present function of hwutil-common.sh
polaris_udev_tmp_list_dirs(polaris_btman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_btman_t self:capability sys_resource;

# access to /tmp/sw/boot/dmesg
polaris_boot_tmp_read(polaris_btman_t)

polaris_create_ldb_domtrans(polaris_btman_t)

# btman calls update Resolver luid_paths which eventually calls open_brand function for
# given polaris executable (build_crdu_luid_file_paths, bcrdu_get_proc_path_internal,
# brand_type_string)
polaris_read_exec_domain(polaris_btman_t)

# btman create transitional files in /tmp directory
type polaris_btman_tmp_t;
files_tmp_file(polaris_btman_tmp_t)
files_tmp_filetrans(polaris_btman_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_t, polaris_btman_tmp_t, polaris_btman_tmp_t)

# use syslog
logging_send_syslog_msg(polaris_btman_t)
# btman unlink /tmp/rp/pvp/work/btman_first_inst
polaris_pvp_manage_tmp_files(polaris_btman_t)

# operate on btrace file in /bootflash
polaris_btrace_persistent_data_manage(polaris_btman_t)

gen_require(
    
    type polaris_btrace_data_t;

)
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_crashinfo_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")

# btman creates /tmp/rp/pvp/work/btman_first_inst directory in is_first_incarnation
# function called by btrace_rotate_init
polaris_pvp_manage_tmp_files(polaris_btman_t)

#########################################################################
# This block is policies for "request platform software system shell" CLI

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/bin/btman -f rp
# -s /tmp/rp/trace/stage -w /tmp/rp/trace
# - needs to read/getattr on
#   /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen_require(
    
    type telnetd_exec_t;

)
allow polaris_btman_t telnetd_exec_t:file { getattr open read };

# btman establishes leases for trace files
allow polaris_btman_t self:capability lease;

# dump_btrace_meta walks all files with nftw
files_getattr_all_files(polaris_btman_t)
files_getattr_all_dirs(polaris_btman_t)
files_read_all_symlinks(polaris_btman_t)
files_list_non_security(polaris_btman_t)
files_read_all_files(polaris_btman_t)
files_mmap_all_files(polaris_btman_t)

# btman exports data through http protocol btm_trigger_export and schedule_newfile_export
corenert_tcp_connect_http_port(polaris_btman_t)

# LOOK AT ME: incorrect iosd-tps service_def. It should be renamed
# iosd_tps_socket-b0 in all platform.tdl files. Remove the following
# policy when CSCv89498 is fixed.

gen_require({
    type polaris_lipc_t;
    type polaris_pman_t;
})
polaris_lipc_write(polaris_btman_t, polaris_lipc_t, polaris_pman_t)

# btman manages some persistent crashinfo files
polaris_disk_crashinfo_manage(polaris_btman_t)

# DB persistence
polaris_tldbpersist_setup(polaris_btman_t)
polaris_tmp_tldb_persist_setup(polaris_btman_t)
polaris_btrace_data_watch(polaris_btman_t)

# dump_btrace_meta writes to /tmp/binary_trace.1605747053/.pkginfo
polaris_install_tmp_manage(polaris_btman_t)

# allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.te

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisfmanrp, 1.0);

gen_require({
    type polaris_fman_rp_t;
})

# mqipc manual, one that missing in platform tdl file

# mq.fman-log-bay0-peer0

type polaris_fman_log_bay0_peer0_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer0_mqipc_t)
# mq.-fman-log-bay0-peer1
type polaris_fman_log_bay0_peer1_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer1_mqipc_t)

# mq.-fman-log-bay0-peer2
type polaris_fman_log_bay0_peer2_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer2_mqipc_t)

# mq.-fman-log-bay0-peer3
type polaris_fman_log_bay0_peer3_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer3_mqipc_t)

# mq.-fman-log-bay0-peer4
type polaris_fman_log_bay0_peer4_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer4_mqipc_t)

# mq.-fman-log-bay0-peer5
type polaris_fman_log_bay0_peer5_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer5_mqipc_t)

# mq.-fman-log-bay0-peer6
type polaris_fman_log_bay0_peer6_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer6_mqipc_t)

# mq.-fman-log-bay0-peer7
type polaris_fman_log_bay0_peer7_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer7_mqipc_t)

# mq.-fman-log-bay0-peer8
type polaris_fman_log_bay0_peer8_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer8_mqipc_t)

polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer0_mqipc_t, fman-log-bay0-peer0)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer1_mqipc_t, fman-log-bay0-peer1)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer2_mqipc_t, fman-log-bay0-peer2)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer3_mqipc_t, fman-log-bay0-peer3)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer4_mqipc_t, fman-log-bay0-peer4)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer5_mqipc_t, fman-log-bay0-peer5)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer6_mqipc_t, fman-log-bay0-peer6)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer7_mqipc_t, fman-log-bay0-peer7)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer8_mqipc_t, fman-log-bay0-peer8)
polaris_btrace_data_manage(polaris_fman_rp_t)
polaris_crft_data_manage(polaris_fman_rp_t)
polaris_chasfs_manage(polaris_fman_rp_t)
polaris_tdlresolve_read(polaris_fman_rp_t)
polaris_tdlldb_list_dir(polaris_fman_rp_t)
polaris_cpld_read(polaris_fman_rp_t)
polaris_flashlib_read(polaris_fman_rp_t)
polaris_lua_read(polaris_fman_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_rp_t)

polaris_db_tdldb_dir_use(polaris_fman_rp_t)

ifdef(`nyquist_platform',`
gen_require('`
    type polaris_bt_logger_fman_rp_mqipc_t;
')
# fman_rp may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
')

allow polaris_fman_rp_t self:udp_socket { create ioctl }

allow polaris_fman_rp_t self:capability { dac_override }
allow polaris_fman_rp_t self:capability2 block_suspend;

# not clear why fman_rp tries to load netdev-mgmtbr kernel module
# it does not exist on ultra anyway
# type=AVC msg=audit(1478126742.967:98): avc:  denied  { module_request } for  pid=18020 comm="fman_rp"
kmod="netdev-mgmtbr" scontext=system_u:system_r:polaris_fman_rp_t:s0
tcontext=system_u:system_r:kernel_t:s0 tclass=system
kernel_request_load_module(polaris_fman_rp_t)

polaris_socketat_nsfs_read(polaris_fman_rp_t)

polaris_dyncfg_tmp_read(polaris_fman_rp_t)

# socketat usage from fman_punt_port_mapping_init for AF_NETLINK, SOCK_DGRAM
polaris_lfts_dev_use(polaris_fman_rp_t)
allow polaris_fman_rp_t self:netlink_tcpdiag_socket {create nlmsg_read }

# fman_rp tries to write to systemd journal when a peer is stuck
# introduced by CSCv19772
logging_send_syslog_msg(polaris_fman_rp_t)

optional_policy('`
#fman-rp creates tmp files in acl-management workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_rp_t)
')

# manually create mqipc channel: missing in TDL
type polaris_fmrp2fpm_mqipc_t;
polaris_mqipc_type(polaris_fmrp2fpm_mqipc_t)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fmrp2fpm_mqipc_t, fmrp2fpm_vulcan_mqipc)
optional_policy('polaris_fpm2fmrp_mqipc_use(polaris_fman_rp_t)')

polaris_issu_tmp_files_read(polaris_fman_rp_t)

polaris_install_tmp_read(polaris_fman_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.te
No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisrifmgr, 1.0);

gen_require('type polaris_rif_mgr_t;')

polaris_btrace_data_manage(polaris_rif_mgr_t)
polaris_crft_data_manage(polaris_rif_mgr_t)
polaris_chasfs_manage(polaris_rif_mgr_t)
polaris_tdlresolve_read(polaris_rif_mgr_t)
polaris_tlddb_list_dirs(polaris_rif_mgr_t)
polaris_cpld_read(polaris_rif_mgr_t)
polaris_lua_read(polaris_rif_mgr_t)
polaris_flashlib_read(polaris_rif_mgr_t)
polaris_lfts_dev_use(polaris_rif_mgr_t)
logging_send_syslog_msg(polaris_rif_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rif_mgr_t)

allow polaris_rif_mgr_t self:capability { sys_nice dac_override };
allow polaris_rif_mgr_t self:process { setsched };
# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_rif_mgr_t)

# work with /dev/hanet device
polaris_hanet_dev_use(polaris_rif_mgr_t)

# update/read chassis serial numer /csl_p_0/vudi.pri
polaris_disk_csl_manage(polaris_rif_mgr_t)

# monitors native interfaces flap over /proc and netlink
kernel_read_network_state(polaris_rif_mgr_t)
allow polaris_rif_mgr_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_rif_mgr_t self:unix_dgram_socket create_socket_perms;

# pidof and /proc usage
dev_read_sysfs(polaris_rif_mgr_t)
kernl_read_system_state(polaris_rif_mgr_t)
domain_read_all_domains_state(polaris_rif_mgr_t)
corecmd_exec_bin(polaris_rif_mgr_t)

kernel_dontaudit_request_load_module(polaris_rif_mgr_t)
# rifmgr creates udp socket to get interface flags in rif_rp_init
allow polaris_rif_mgr_t self:udp_socket create_socket_perms;
corenet_tcp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_tcp_connect_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_udp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_udp_bind_generic_node(polaris_rif_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris stack_mgr Policy Rules.</summary>

### <summary>Read and write all stack mgr's fifo file, used as standard input/output.</summary>

### <param name="domain">
### Domain allowed access.
### </param>
### <rolecap/>
interface('polaris_use_stack_mgr_fifo',
gen_require(
type polaris_stack_mgr_t;
')
write_fifo_files_pattern($1, polaris_stack_mgr_t, polaris_stack_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.if
No license file was found, but licenses were detected in source scan.
#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
# /tmp/.DMI_FIFO                      gen_context(system_u:object_r:polaris_dmi_vtyserverutild_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.fc
No license file was found, but licenses were detected in source scan.
#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris cm_cc Policy Rules.</summary>

##############################################################
## <summary>
##      Execute cmdand_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_cm_cc_domtrans',
gen_require(
type polaris_cm_cc_t, polaris_cm_cc_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_cc_exec_t, polaris_cm_cc_t)
')

*****************************************************************************
## <summary>
## Manage cm_cc_tmpfs files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cm_cc_tmpfs_manage',``
gen_require(`
   type polaris_cm_cc_tmpfs_t;
')

manage_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

*****************************************************************************
## <summary>
## Check presence and unlink /tmp/nim_xxd_present file created by cman cc.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_nim_xxd_tmp_open_unlink','``
gen_require(`
   type polaris_nim_xxd_tmp_t;
')

allow $1 polaris_nim_xxd_tmp_t:file { open unlink }
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.if
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris LUA Policy Rules.</summary>

# Polaris Ifts

### <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

/var/virtual-instance(/.*)?   gen_context(system_u:object_r:polaris_var_vman_t,s0)
/bootflash/virtual-instance(/.*)?   gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/vman_fdb(/.*)?   gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/vol/harddisk/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

#sparrow, blackheart
/flash1/virtual-instance(/.*)?   gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/vman_fdb(/.*)?   gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/tmp/vman(/.*)?   gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/cgroup.log   gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/vman_lxc_wdt_[0-9]*   gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/trace(/.*)?   gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/usr/binos/conf/vman_exec.sh -- gen_context(system_u:object_r:polaris_vman_shell_exec_t,s0)
/usr/binos/conf/cgroup_reports.sh -- gen_context(system_u:object_r:polaris_cgroup_reports_exec_t,s0)
/usr/binos/conf/vman_techsupport.sh -- gen_context(system_u:object_r:polaris_vman_tech_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisodmproxy, 1.0);

gen_require("
type polaris_odm_proxy_t;

polaris_btrace_data_manage(polaris_odm_proxy_t)
polaris_crft_data Manage(polaris_odm_proxy_t)
polaris_chasfs_manage(polaris_odm_proxy_t)
polaris_tdlresolve_read(polaris_odm_proxy_t)
polaris_tdlldb_list_dirs(polaris_odm_proxy_t)
polaris_cpld_read(polaris_odm_proxy_t)
polaris_lua_read(polaris_odm_proxy_t)
polaris_flashlib_read(polaris_odm_proxy_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_proxy_t)
polaris_db_tdlldb_dir_use(polaris_odm_proxy_t)

#allow to setrlimit
allow polaris_odm_proxy_t self:capability sys_resource;
allow polaris_odm_proxy_t self:process setrlimit;
allow polaris_odm_proxy_t self:capability dac_override;

polaris_odm_clnt2svr_mqipc_create(polaris_odm_proxy_t)

# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris issu_monitor Policy Rules.</summary>
###<param name="domain">
# Domain allowed to transition.
### </summary>
##</param>
#
interface(`polaris_issu_monitor_domtrans`,
gen_require(`
  type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
DOMTRANS_PATTERN($1, POLARIS_ISSU_MONITOR_EXEC_T, POLARIS_ISSU_MONITOR_T)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.if
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Place holder to let selinux-policy makefile know that this module
dnl is autogenerated, but we have different rules for it

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformipcauto.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.if.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/autopolarisplatformipcbase.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformpcauto.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformpcauto.ffc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformpcauto.if.in
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

POLARISKEYMAN(policy_module, 1.0);

gen_require(
    type polaris_keyman_t;
)

POLARIS_BTRACE_DATA_MANAGE(polaris_keyman_t)
Polaris_crft_data_manage(polaris_keyman_t)
Polaris_chasfs_manage(polaris_keyman_t)
Polaris_tdlresolve_read(polaris_keyman_t)
Polaris_tdlldb_list_dirs(polaris_keyman_t)
Polaris_flashlib_read(polaris_keyman_t)
polaris_ripc_sman_ui_serv_connect(polaris_keyman_t)

allow polaris_keyman_t self:capability net_admin;
# keyman utilizes secure memory via ciscossl libcrypto.so (mlock)
allow polaris_keyman_t self:capability ipc_lock;
polaris_cpld_read(polaris_keyman_t)

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
  dev_read_sysfs(polaris_keyman_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`supernova_platform',`
  dev_read_sysfs(polaris_keyman_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polaristamdrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
#
# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\.pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /vol/bootflash4 labels
/vol/bootflash4(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/vol/bootflash4/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/obfl_.* gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /harddisk labels
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk_internal(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/vol/harddisk/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# on /ng persistent storage arranged differently
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

/vol/disk0(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# scooby device
/dev/scooby -c gen_context(system_u:object_r:polaris_scooby_device_t,s0)

# spa devices handled by sys_platform driver
/dev/spa0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa1 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa2 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa3 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/iocp0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)

# htdp devices
# /dev/htdp[0-9]* -c gen_context(system_u:object_r:polaris_htdp_device_t,s0)

# /dev/epa device on asr1k(mcp)
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga device on asr1k(mcp)
/dev/luna_fpga -c gen_context(system_u:object_r:polaris_luna_fpga_device_t,s0)

# /dev/dash_fpga device on fugazi(mcp)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_fpga_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_fpga_device_t,s0)

# /dev/astro on asr1k(mcp)
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/oob_evfc on asr1k(mcp)
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/cpp_il on asr1k(mcp)
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/ds31408 -c gen_context(system_u:object_r:polaris_ds31408_device_t,s0)
/dev/cbdma -c gen_context(system_u:object_r:polaris_cbdma_device_t,s0)
/dev/cpp_htdp -c gen_context(system_u:object_r:polaris_cpp_htdp_device_t,s0)
/dev/n2_device -c gen_context(system_u:object_r:polaris_n2_device_t,s0)
/dev/cy2213 -c gen_context(system_u:object_r:polaris_cy2213_device_t,s0)
/dev/vega -c gen_context(system_u:object_r:polaris_vega_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.fc

No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved

dnl
define(`max_bay_map', `defn(format(``max_bay_map[%s-%s]"', `$1', `$2')))
define(`max_bay_map_set', `define(format(``max_bay_map[%s-%s]"', `$1', `$2'), `$3'))

define(`max_elastic_map', `defn(format(``max_elastic_map[%s-%s-%s]"', `$1', `$2', `$3')))
define(`max_elastic_map_set', `define(format(``max_elastic_map[%s-%s-%s]"', `$1', `$2', `$3'), `$4'))

define(`max_scope_map', `ifelse($2, `elastic', `max_elastic_map($1, $2, $3)', `max_bay_map($1, $2))')

dnl RICP scope handling
define(`min_bay_ripc_map', `defn(format(``min_bay_ripc_map[%s-%s]"', `$1', `$2')))
define(`min_bay_ripc_map_set', `define(format(``min_bay_ripc_map[%s-%s]"', `$1', `$2'), `$3'))

define(`min_elastic_ripc_map', `defn(format(``min_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3')))
define(`min_elastic_ripc_map_set', `define(format(``min_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3'), `$4'))

define(`min_scope_ripc_map_aux', `ifelse($2, `elastic', `min_elastic_ripc_map($1, $2, $3)', `min_bay_ripc_map($1, $2))')
define(`min_scope_ripc_map', `ifelse(min_scope_ripc_map_aux($1, $2, $3), `', 0, min_scope_ripc_map_aux($1, $2, $3))')

define(`max_bay_ripc_map', `defn(format(``max_bay_ripc_map[%s-%s]"', `$1', `$2')))
define(`max_bay_ripc_map_set', `define(format(``max_bay_ripc_map[%s-%s]"', `$1', `$2'), `$3'))

define(`max_elastic_ripc_map', `defn(format(``max_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3')))
define(`max_elastic_ripc_map_set', `define(format(``max_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3'), `$4'))

define(`max_scope_ripc_map_aux', `ifelse($2, `elastic', `max_elastic_ripc_map($1, $2, $3), `max_bay_ripc_map($1, $2))')
define(`max_scope_ripc_map', `ifelse(max_scope_ripc_map_aux($1, $2, $3), `', 0, max_scope_ripc_map_aux($1, $2, $3))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_max_scope.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris periodic Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.if
No license file was found, but licenses were detected in source scan.
## <summary>Polaris service_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.if

No license file was found, but licenses were detected in source scan.

policy_module(polariscommon, 1.0);

# Polaris common

# domain that holds all polaris processes
attribute polaris_domain;

# domain that holds all polaris processes executables
attribute polaris_exec_domain;

# domain that holds all polaris processes plus few base types that operates on
# during system start, like initrc_t and unconfined_service_t. Please remove
# unconfined types latter.
attribute polaris_extended_domain;

gen_require('  
type unconfined_t;
  type unconfined_service_t;
  type initrc_t;
  type init_t;
')
typeattribute unconfined_t polaris_extended_domain;
typeattribute unconfined_service_t polaris_extended_domain;
typeattribute initrc_t polaris_extended_domain;
typeattribute init_t polaris_extended_domain;
# common permissions that are safe to grant and hard to root cause.
# these permissions may need to be turned off during development or tightened
# in future releases
gen_require(
    attribute domain;
)

# sys_resource denial is seen due to disk full issue
# and possibly FD exceeding limit
allow domain self:capability sys_resource;

# When management interface is enabled for development Polaris device can be
# access by telnet, which directly drops into shell. It would be desirreably
# to remove telnet functionality att all. But for now we need transition
# rule to get shell running in unconfined domain.
gen_require('  
    type telnetd_t;
  ')

unconfined_shell_domtrans(telnetd_t)

# This block is policies for "request platform software system shell" CLI.
# Execute bexecute in polaris_bexecute domain.
polaris_bexecute_domtrans(telnetd_t)

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd
# -L /usr/binos/conf/brelay.sh
# which later gets renamed to /tmp/rp/trace/telnetd_service_sh_*.bin
polaris_btrace_data_manage(telnetd_t)

# mcp_telnetd_init through btrace_application_start calls get_chassis_number
# so it needs chasfs access
polaris_chasfs_read(telnetd_t)
polaris_cpld_read(telnetd_t)
polaris_btrace_lvl_config_manage(telnetd_t)

# LOOK AT ME: rsync needs sys_admin capability
# only seen when we boot in enforcing mode, localtime glibc library call
# needs time zone information and through __tz_convert function it eventually
# calls syspage function and that in turns calls Cisco syspage related
# prctl that is protected by CAP_ADMIN now
gen_require('  
    type rsync_t;
  ')
allow rsync_t self:capability sys_admin;

# mount_packages.sh systemd unit runs under init_t and it leaks unix socket
gen_require(
    type rsync_t;
    type init_t;
)
allow rsync_t init_t:unix_stream_socket getattr;

# LOOK AT ME: auditd needs sys_admin capability
# only seen when we boot in enforcing mode, denials happens upon exec of
# auditdsp why is not entirely clear
gen_require(
    type auditd_t;
)
allow auditd_t self:capability sys_admin;

# LOOK AT ME:
# Because Cisco kernel features check for capability sys_admin
# before granting access to it. It turns out to be mistake because
# in SELinux universe beeing root does not mean one have sys_admin
# capability. For now grant sys_admin capability to everyone :(.
gen_require(
    attribute domain;
)
allow domain self:capability sys_admin;

# LOOK AT ME:
# all polaris SMU system is based on LD_LIBRARY_PATH passing from
# parent to child, but if auxv AT_SECURE would be set to 1, glibc
# will clean LD_LIBRARY_PATH and other environment variables when
# it execve another process. We need to grant noatsecure to all
# processes
gen_require(
    attribute domain;
)
allow domain domain:process { noatsecure rlimitinh };;

# nfs server exporting some directories like /harddisk
gen_require(
    type nfsd_t;
)
polaris_disk_bootflash_read_lnk(nfsd_t)
polaris_harddisk_read(nfsd_t)

# nfs server check hugetlbfs files system
gen_require(
    type hugetlbfs_t;
)
list_dirs_pattern(nfsd_t, hugetlbfs_t, hugetlbfs_t)
# temporarily addressing denial,
# preferable to turn on nfs_export_all_rw/ro boolean

```
gen_require(
    type removable_t;

')
```

```
list_dirs_pattern(nfsd_t, removable_t, removable_t)
```

```
# firmware type
type polaris_firmware_t;
files_type(polaris_firmware_t)
```

```
# some systemd unit creates /firmware directory in initramfs
gen_require(
    attribute domain;
    type root_t;

')
```

```
filetrans_pattern(domain, root_t, polaris_firmware_t, dir, "firmware")
```

```
# handling /tmp/debug.conf, created by systemd unit
gen_require(
    type polaris_debug_conf_t;
    type unconfined_service_t;

')
```

```
files_tmp_filetrans(unconfined_service_t, polaris_debug_conf_t, {file lnk_file}, "debug.conf")
```

```
# /tmp/etc files; serving as /etc like but sitting in mutable storage
# (assuming that real /etc would become read-only eventually)
type polaris_etc_t;
files_type(polaris_etc_t);
```

```
# /tmp/sv files
type polaris_sv_tmp_t;
files_tmp_file(polaris_sv_tmp_t)
```

```
# /dev/i2c-N
type polaris_i2c_device_t;
dev_node(polaris_i2c_device_t)
```

```
# remap_mem0 device
type polaris_remap_mem_device_t;
dev_node(polaris_remap_mem_device_t)
```

```
type polaris_ebf_t;
files_type(polaris_ebf_t)
```

```
# allow all domains map/read ebf files
gen_require(
    attribute domain;
```
polaris_ebf_map(domain)

# btrace files for telnetd, since telnetd is open source label
# and it does not use our domain creation template
gen_require(
    type telnetd_t;
')
type polaris_telnetd_bt_t;
polaris_btrace_data_type(polaris_telnetd_bt_t)
polaris_btrace_data_client(telnetd_t, polaris_telnetd_bt_t)

type polaris_telnetd_maroon_t;
polaris_maroon_data_type(polaris_telnetd_maroon_t)
polaris_maroon_data_client(telnetd_t, polaris_telnetd_maroon_t)

# "install add file" on ULTRA invokes:
#    /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd -L /usr/binos/conf/brelay.sh
# That needs getattr on /lib/systemd/system/ksm.service
polaris_ksm_run_check(telnetd_t)

# restorecon needs sys_resource capability
gen_require(
    type setfiles_t;
')
allow setfiles_t self:capability sys_resource;

# accessing /sys/firmware/dmi/tables/DMI
gen_require(
    type dmidecode_t;
    type sysfs_t;
')
mmap_files_pattern(dmidecode_t, sysfs_t, sysfs_t)
gen_require(
    type dmidecode_t;
    type memory_device_t;
')
allow dmidecode_t memory_device_t:chr_file map;
# called by confd_t label with it is file as stdin
polaris_confd_tmp_use_fifo(dmidecode_t)

# rpcbind binds to port
gen_require(
    type rpcbind_t;
')
corenets_udp_bind_generic_port(rpcbind_t)
# when polaris_unconfined we need to mark all subject labels except
# iosd lable to run as unconfined
ifdef("polaris_unconfined","
    gen_require(
      type auditd_t;
      type dhcpc_t;
      type getty_t;
      type inetd_t;
      type initrc_t;
      type init_t;
      type journalctl_t;
      type nfsd_t;
      type ntpd_t;
      type rpcbind_t;
      type rpcd_t;
      type rsync_t;
      type setfiles_t;
      type sshd_t;
      type syslogd_t;
      type system_dbusd_t;
      type udev_t;
      type virt_t;
      type virtlogd_t;
      type ldconfig_t;
      type hostname_t;
    )
    unconfined_domain(auditd_t)
    unconfined_domain(dhcpc_t)
    unconfined_domain(getty_t)
    unconfined_domain(inetd_t)
    unconfined_domain(initrc_t)
    unconfined_domain(init_t)
    unconfined_domain(journalctl_t)
    unconfined_domain(nfsd_t)
    unconfined_domain(ntpd_t)
    unconfined_domain(rpcbind_t)
    unconfined_domain(rpcd_t)
    unconfined_domain(rsync_t)
    unconfined_domain(setfiles_t)
    unconfined_domain(sshd_t)
    unconfined_domain(syslogd_t)
    unconfined_domain(system_dbusd_t)
    unconfined_domain(udev_t)
    unconfined_domain(virt_t)
    unconfined_domain(virtlogd_t)
    unconfined_domain(ldconfig_t)
    unconfined_domain(hostname_t)
)
ifdef(`polaris_unconfined',`
optional_policy(`
    gen_require(`
        type container_runtime_t;
    `)
    unconfined_domain(container_runtime_t)
    `)
)

# /tmp/rsync_log_dir files
type polaris_rsync_tmp_t;
files_tmp_file(polaris_rsync_tmp_t)

# activate correct named transition for basic directories
# when code runs under unconfined_service_t, i.e calls ip
# command that runs under ifconfig_t and creates /run/netns
gen_require(`
    type unconfined_service_t;
`)
domain_named_filetrans(unconfined_service_t)
gen_require(`
    type ifconfig_t;
    type ifconfig_var_run_t;
`)
allow ifconfig_t ifconfig_var_run_t:dir mounton;

# earlier invocation of ifconfig complains about tmp_t mounton
# on /sys directory
gen_require(`
    type tmp_t;
`)
allow ifconfig_t tmp_t:dir mounton;

#SERDES library stores info in /tmp/serdes_asic_key_dir/*
type polaris_serdes_asic_key_tmp_t;
files_tmp_file(polaris_serdes_asic_key_tmp_t)

# /dev/shm/vrf_shm access
type polaris_vrf_shm_t;
files_type(polaris_vrf_shm_t)

# /dev/shm/cerrno_dll access
type polaris_cerr_shm_t;
files_tmpfs_file(polaris_cerr_shm_t)

# for /sbin/ip: /dev/shm/vrf_shm access in netns creation
gen_require(`
type ifconfig_t;
)
polaris_vrf_shm_manage(ifconfig_t)

# for /sbin/ip: adds lfts device in netns creation
polaris_lfts_dev_use(ifconfig_t)

# new systemd-tmpfiles needs this permissions
gen_require('   type systemd_tmpfiles_t;
')
allow systemd_tmpfiles_t self:capability sys_resource;
allow systemd_tmpfiles_t self:process setrlimit;

gen_require('   type unconfined_service_t;
')
ssh_initrc_domtrans(unconfined_service_t)

#wlc awips
type polaris_awips_signature_file_t;
polaris_pfile_type(polaris_awips_signature_file_t)

#/usr/bin/curl
type polaris_curl_t;
type polaris_curl_exec_t;
init_system_domain(polaris_curl_t, polaris_curl_exec_t)
corenets_udp_bind_generic_node(polaris_curl_t)
auth_use_nsswitch(polaris_curl_t)
polaris_crft_data_read(polaris_curl_t)

# for ip netns exec X curl
optional_policy('   polaris_curl_domtrans(ifconfig_t)
')

#/etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require('   type initrc_t;
   type ssh_home_t;
')
polaris_bootflash_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

#/tmp/ldwm_envelope file
type polaris_ldwm_envelope_tmp_t;
files_tmp_file(polaris_ldwm_envelope_tmp_t)
gen_require("
  type initrc_t;
  type init_t;
")
files_tmp_filetrans({ initrc_t init_t }, polaris_ldwm_envelope_tmp_t, file, "ldwm_envelope")

*****************************************************************************
# CLI: show platform software tech-support
*****************************************************************************
polaris_utility_domain_template(tech_support)
polaris_bexecute_domain(polaris_tech_support_t, polaris_tech_support_exec_t)
polaris_bexecute_domtrans(polaris_tech_support_t)

# allow to run readlink -f /usr/binos/conf/psimple.sh
corecmd_exec_bin(polaris_tech_support_t)

# Additional policies needed for workflow
auth_use_nsswitch(polaris_tech_support_t)
dev_list_sysfs(polaris_tech_support_t)
polaris_chasfs_read(polaris_tech_support_t)
polaris_cpld_read(polaris_tech_support_t)
# scripts stdin is set by hman and needs access to pipes like pipe:[271524]
polaris_hman_use_fifo(polaris_tech_support_t)
# Allow ls to /tmp/ufs/crashinfo
optional_policy('  
  polaris_ncd_tmp_read(polaris_tech_support_t)
')

# Allow readlink to /usb0 and /usb1
optional_policy('  
  fs_read_removable_symlinks(polaris_tech_support_t)
')

gen_require('  
  type polaris_btrace_tmppub_t;
  type polaris_disk_bootflash_t;
  type polaris_disk_crashinfo_t;
')

# platform_tech_support.sh creates misc files/dirs under /tmp/tmppub
type polaris_tech_support_tmp_t;
files_tmp_file(polaris_tech_support_tmp_t)
filetrans_pattern(polaris_tech_support_tmp_t, polaris_btrace_tmppub_t, polaris_tech_support_tmp_t, { file dir })
# misc file directly in /tmp like /tmp/EsG_tech_support_command_file_out.txt
files_tmp_filetrans(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, file, "esg_tech_support_command_file_out.txt")
files_tmp_filetrans(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, file, "sdwan_tech_support_command_file_out.txt")
manage_files_pattern(polaris_tech_support_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
manage_dirs_pattern(polaris_tech_support_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)

# /bootflash/certs
type polaris_ap_cert_file_t;
files_type(polaris_ap_cert_file_t)
polaris_pfile_type(polaris_ap_cert_file_t)

# Additional policies needed for workflow when file option is used
# show platform software tech-support file bootflash:show_tech_file
polaris_bootflash_manage(polaris_tech_support_t)
polaris_disk_crashinfo_manage(polaris_tech_support_t)
fs_getattr_tmpfs(polaris_tech_support_t)
polaris_btrace_persistent_data_read(polaris_tech_support_t)

type polaris_rommon_info_tmp_t;
files_tmp_filetrans(inttrc_t, polaris_rommon_info_tmp_t, file, "existing_rommon_info")
manage_files_pattern(inttrc_t, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
fs_associate_tmpfs(polaris_rommon_info_tmp_t)

# tamlib debug file
type polaris_tamlib_dbg_file_t;
polaris_pfile_type(polaris_tamlib_dbg_file_t)

# read /proc/cmdline
kernel_read_system_state(polaris_tech_support_t)
# read rmonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_tech_support_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_tech_support_t)

# /dev/ddr
type polaris_ddr_device_t;
dev_node(polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Rrpc Base Interface Map: track that type declations unique
define(`ripc_base_type_map', `defn(format(``ripc_base_type_map[%s]", `$1'))')
define(`ripc_base_type_map_set', `define(format(``ripc_base_type_map[%s]", `$1'), `$2'))
define(`ripc_base_port_map', `defn(format(``ripc_base_port_map[%s]', `$1')))
define(`ripc_base_port_map_set', `define(format(``ripc_base_port_map[%s]', `$1'), `$2'))

define(`polaris_ripc_portcon', `portcon tcp $1 gen_context(system_u:object_r:$2,s0))

define(`polaris_ripc_portcon_aux', `dnl
ifelse(ripc_base_port_map($1), `', `polaris_ripc_portcon($1, $2))
ripc_base_port_map_set($1, $2)
')

define(`polaris_ripc_portcon_many', `polaris_ripc_portcon_aux(eval($2 + $3), $1)
ifelse($4, $3, `', `polaris_ripc_portcon_many($1, $2, eval($3 + 1), $4'))')

define(`polaris_ripc_service_server_aux', `dnl
type $1, port_type, defined_port_type;
$4
')
define(`polaris_ripc_service_server_full', `dnl
polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2),
    polaris_ripc_portcon_many(ripc_label($1), $5, min_scope_ripc_map($3, $4, $2),
    max_scope_ripc_map($3, $4, $2)))
')
define(`polaris_ripc_service_server', `dnl
ifelse(ripc_base_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_base_type_map_set($1, 1)
')
define(`polaris_ripc_service_client', `dnl
ifelse(ripc_base_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_base_type_map_set($1, 1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_te.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris ngwc_plfm_mgr Policy Rules.</summary>

#### <summary>
####      Read /tmp/installer files and directories
#### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ngwc_plfm_mgt_tmp_manage',
gen_require(
    type polaris_ngwc_plfm_mgr_tmp_t;
  )
  manage_dirs_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
  manage_files_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.if
No license file was found, but licenses were detected in source scan.
#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris dmi_dmiauthd Policy Rules.</summary>

#### <summary>
####      Connect to and send messages to dmiauthd.
#### tmp/.DmiAuth.sock unix datagram sockets.
#### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dmi_dmiauthd_dgram_send',
gen_require(
    type polaris_dmi_dmiauthd_tmp_t;
  )
  manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
  manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
  )

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23073
type polaris_dmi_dmiauthd_t;

allow $1 self:unix_stream_socket { create_socket_perms };
allow $1 polaris_dmi_dmiauthd_t:unix_stream_socket { connectto };
write_sock_files_pattern($1, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_t)

##########################################################
## <summary>
##      Manage dmiauthd fifo files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_dmiauthd_tmp_manage',
  gen_require(
    type polaris_dmi_dmiauthd_tmp_t;
    type tmp_t;
  )
  manage_fifo_files_pattern($1, tmp_t, polaris_dmi_dmiauthd_tmp_t)
)

##########################################################
## <summary>
##      Write into fifo file created by dmiauthd, typical case when
dmiauthd starts script under popen.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_dmiauthd_use_fifo',
  gen_require(
    type polaris_dmi_dmiauthd_t;
  )
  write_fifo_files_pattern($1, polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_t)
)

##########################################################
## Manage /tmp/netconf-yang-diag/ files
## <param name="domain">


## Domain allowed access.

```c
# interface(`polaris_dmiauthd_tmp_diags_manage',
   gen_require(
     type polaris_dmi_dmiauthd_tmp_diags_t;
   )
   manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
   manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
   manage_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
 )

#######################################
## Read /tmp/netconf-yang-diag/ files
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_dmiauthd_tmp_diags_read',
   gen_require(
     type polaris_dmi_dmiauthd_tmp_diags_t;
   )
   read_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
   list_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
   read_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
 )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.if
No license file was found, but licenses were detected in source scan.

# March 2019, Shikhar Dogra
#
# Copyright (c) 2019 by Cisco Systems, Inc.
# All rights reserved
#
# polarisfmancc file contexts place holder
April 2018, Victor Kamensky

Copyright (c) 2018-2019 by Cisco Systems, Inc.
All rights reserved

define(`lipc_stem', `translit(patsubst($1, `-lipc$', `'), `-', `_')')
define(`lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1))')

Lipc Type Map: track that type declations unique
define(`lipc_type_map', `defn(format(``lipc_type_map[%s]'', `$1'))')
define(`lipc_type_map_set', `define(format(``lipc_type_map[%s]'', `$1'), `$2')')

February 2020, Victor Kamensky

Copyright (c) 2020-2021 by Cisco Systems, Inc.
All rights reserved

policy_module(polariscfgmgr, 1.0);

gen_require(`
    type polaris_cfgmgr_t;
')

polaris_chasfs_manage(polaris_cfgmgr_t)
# read day0_oper.xml and write local.data.tmp
polaris_bootflash_manage(polaris_cfgmgr_t)
polaris_boot_tmp_read(polaris_cfgmgr_t)
polaris_cpld_read(polaris_cfgmgr_t)
polaris_tdlresolve_read(polaris_cfgmgr_t)
polaris_flashlib_read(polaris_cfgmgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_cfgmgr_t)
polaris_db_tdlldb_dir_use(polaris_cfgmgr_t)
logging_send_syslog_msg(polaris_cfgmgr_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_cfgmgr_t)

polaris_cedge_reset_ns(polaris_cfgmgr_t)

polaris_cedge_etc_manage(polaris_cfgmgr_t)

# /etc/version is opened via "show sdwan version"
polaris_confd_etc_read(polaris_cfgmgr_t)

# /var/run/cfgmgr socket and pid
type polaris_cfgmgr_var_run_t;
files_pid_file(polaris_cfgmgr_var_run_t)
manage_files_pattern(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
manage_sock_files_pattern(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
files_pid_filetrans(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, { file sock_file })

# sets up symbloc link /var/run/netns/default to pid 1 netns
sysnet_manage_ifconfig_run(polaris_cfgmgr_t)

# PLEASE LOOK AT ME create_syslog_conf_file function in
# viptela/cfgmgr/cfgmgr_logging.c creates /etc/syslog.conf.sysklogd file
# that nobody uses in polaris
files_manage_etc_files(polaris_cfgmgr_t)

# in cfgmgr_vpn_namespace_add creates udp socket
allow polaris_cfgmgr_t self:udp_socket create_socket_perms;

# watch /bootflash/sdwan/day0_oper.xml
polaris_persistent_watch(polaris_cfgmgr_t)

# compute_available_memory executes /bin/df /dev/shm'
corecmd_exec_bin(polaris_cfgmgr_t)
# vip_binos_cpuint calls sysconf
dev_read_sysfs(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects SDWAN_DISK_MOUNT (/bootflash) fs info
fs_getattr_xattr_fs(polaris_cfgmgr_t)
# crashlist_refresh collects info about corefiles
polaris_core_file_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects info about /bootflash/installer fs
polaris_disk_install_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem() collects available mem info by executing
# /bin/df /tmp/tp/tlddb'
polaris_tlddb_listDirs(polaris_cfgmgr_t)

#vip_binos_cpuinto() performs file operations on PROC_CPUSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polaris_cfgmgr_t)
#vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernell_read_system_state(polaris_cfgmgr_t)
# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polaris_cfgmgr_t)

# create tunnel interface in cfgmgr_tun_alloc function
corenet_rw_tun_tap_dev(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernel_rw_net_sysctls(polaris_cfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polaris_cfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp_manage(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polaris_cfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polaris_cfgmgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.te

No license file was found, but licenses were detected in source scan.

dnl

dnl May 2018, Manohar Hungund
dnl

dnl Copyright (c) 2018-2019, 2021 by Cisco Systems, Inc.
dnl All rights reserved
dnl

dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`bp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`bp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 1)
max_bay_ripc_map_set(`bp', `per_bay', 1)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`bp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 1)
max_bay_ripc_map_set(`bp', `global', 1)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/bigbangmaps.m4

No license file was found, but licenses were detected in source scan.

dnl

dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake2maps.m4

No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisodmproxy file contexts place holder

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris rif_mgr Policy Rules.</summary>

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.iff
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
# August 2018 Man-Yee Hau
#
# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved

/usr/cpp/bin/qfp-ucode-csr -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-us -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csx -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-c8kv -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-wlc -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-utah -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns-le -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-supernova -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-blackheart -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
# qfp memif interfaces

/bootflash/SHARED-IOX/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)
/tmp/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)

# CSR & C8KV infiniband devices for Azure
/dev/infiniband/uverbs[0-9]* -c gen_context(system_u:object_r:polaris_infiniband_device_t,s0)

/etc/rc.d/init.d/iodbd.sh -- gen_context(system_u:object_r:polaris_iodbd_exec_t,s0)

# For Intel quickassist (qat) v1.5 - Note that mcp_family also includes this.  
# fugazi uses polaris_mcp.fc and polaris_qfp.fc so need to exclude it here.
ifndef(`mcp_family',`
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s)
')

# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_drv -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# For platforms which use the musdk from the Marvell 10.3.x.x SDK
/dev/musdk-cma -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.fc
No license file was found, but licenses were detected in source scan.

# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/binos/conf/sshd_service.sh -- gen_context(system_u:object_r:polaris_tservice_ssh_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/rollback_timer.sh -- gen_context(system_u:object_r:polaris_rbtimer_exec_t,s0)

/bootflash/rollback_timer(/.*)?        gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/tmp/rp/rollback_timer(/.*)?            gen_context(system_u:object_r:polaris_rbtimer_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Katar WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_WNCD, 7)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_WNCD, 7)

max_elastic_map_set(‘rp’, ‘elastic’, BPROC_ODM, 1)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_ODM, 1)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_ODM, 1)

max_elastic_map_set(‘rp’, ‘elastic’, BPROC_WNCD, 7)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_WNCD, 7)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/katarmaps.m4
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
# polariscontainer file contexts place holder

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf for docker
# Expected labels for docker as per container.fc
/bootflash/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/docker/*env gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*containers/*/.*log gen_context(system_u:object_r:container_log_t,s0)
/bootflash/docker/*containers/*/hostname gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*containers/*/hosts gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/boostflash/docker/*overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/boostflash/docker/*overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)

/boostflash/iox_alt_hdd_mount_dir/docker(/.*)?
gen_context(system_u:object_r:container_var_lib_t,s0)
/boostflash/iox_alt_hdd_mount_dir/docker/*env
gen_context(system_u:object_r:container_share_t,s0)
/boostflash/iox_alt_hdd_mount_dir/docker/*containers/*log
gen_context(system_u:object_r:container_log_t,s0)
/boostflash/iox_alt_hdd_mount_dir/docker/*containers/*hostname
gen_context(system_u:object_r:container_share_t,s0)
/boostflash/iox_alt_hdd_mount_dir/docker/*containers/*hosts
gen_context(system_u:object_r:container_share_t,s0)
/boostflash/iox_alt_hdd_mount_dir/docker/*init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/boostflash/iox_alt_hdd_mount_dir/docker/*overlay(/.*)?
ifdef(`nyquist_platform',`

ifdef(`passport_platform',`

ifdefs

#ifdef(`nyquist_platform',`

ifdef(`passport_platform',`

ifdefs

#ifdef(`nyquist_platform',`

ifdef(`passport_platform',`

ifdefs

ifdef(`nyquist_platform',`

ifdef(`passport_platform',`

ifdefs

ifdef(`nyquist_platform',`

ifdef(`passport_platform',`

ifdefs

ifdef(`nyquist_platform',`

ifdef(`passport_platform',`

ifdefs

ifdef(`nyquist_platform',`

ifdef(`passport_platform',`
/vol/usb1/iox/docker/*.*/config/.env gen_context(system_u:object_r:container_share_t,s0)
/vol/usb1/iox/docker/*.*/containers/*/*.log gen_context(system_u:object_r:container_log_t,s0)
/vol/usb1/iox/docker/*.*/containers/*/hostname gen_context(system_u:object_r:container_share_t,s0)
/vol/usb1/iox/docker/*.*/containers/*/hosts gen_context(system_u:object_r:container_share_t,s0)
/vol/usb1/iox/docker/*.*/init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/vol/usb1/iox/docker/*.*/overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/vol/usb1/iox/docker/*.*/overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarissortfiles, 1.0);

gen_require('  
    type polaris_sort_files_t;
')

corecmd_exec_bin(polaris_sort_files_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_sort_files_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_sort_files_t)

polaris_btrace_data_manage(polaris_sort_files_t)
polaris_chasfs_manage(polaris_sort_files_t)
polaris_rmonbifo_tmp_read(polaris_sort_files_t)
polaris_read_debug_conf(polaris_sort_files_t)
polaris_persistent_getattr(polaris_sort_files_t)
polaris_persistent_list_dirs(polaris_sort_files_t)
polaris_cpld_read(polaris_sort_files_t)
polaris_capsule_upgrade_log_use(polaris_sort_files_t)
optional_policy('  
polaris_gnmib_gnoi_images_read(polaris_sort_files_t)
')

# Dontaudit /bootflash/#lost+found avc denials
dontaudit polaris_sort_files_t polaris_disk:chr_file { getattr };
dontaudit polaris_sort_files_t polaris_disk:blk_file { getattr };

---
#allow polaris_sort_files_t polaris_udev_tmp_files_t:dir { getattr search }
polaris_udev_tmp_list_dirs(polaris_sort_files_t)

optional_policy(
  polaris_iox_dir_list(polaris_sort_files_t)
')
polaris_sandbox_file_dir_list(polaris_sort_files_t)
polaris_disk_bootflash_read_link(polaris_sort_files_t)
polaris_disk_bootflash_fifo_file_getattr(polaris_sort_files_t)
polaris_disk_bootflash_sock_file_getattr(polaris_sort_files_t)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_sort_files_t)

#allow manage the files under /tmp/sort
type polaris_sort_files_tmp_t;
  files_tmp_file(polaris_sort_files_tmp_t)
  files_tmp_filetrans(polaris_sort_files_t, polaris_sort_files_tmp_t, file)
  manage_files_pattern(polaris_sort_files_t, polaris_sort_files_tmp_t, polaris_sort_files_tmp_t)

# for pluggable FS, allow sort to access files on them.
  polaris_getattr_removable(polaris_sort_files_t)
  polaris_removable_manage(polaris_sort_files_t)
  fs_read_removable_symlinks(polaris_sort_files_t)

# to look at files sort_file sometime needs to violate DAC permissions
allow polaris_sort_files_t self:capability dac_read_search;

optional_policy(
  # LOOK AT ME memif sock_file interface present in /bootflash as
  # /bootflash/SHARED-IOX/memif/memif-dp-svr, since class of the
  # object is sock_file adding it to polaris_disk does not make much
  # sense
  gen_require(
    type polaris_qfp_memif_t;
  )
  getattr_sock_files_pattern(polaris_sort_files_t, polaris_qfp_memif_t, polaris_qfp_memif_t)
')

# find runs fstatfs
  fs_getattr_xattr_fs(polaris_sort_files_t)

# allow polaris_sort_files_t fs_t:filesystem getattr
  fs_getattr_all_fs(polaris_sort_files_t)
# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_sort_files_t)

optional_policy(
  gen_require(
    type polaris_efi_files_t;
  )
  #find /bootflash/-printf %i %p
  allow polaris_sort_files_t polaris_efi_files_t:dir { getattr open read search };

  #stat -c %i %f %s %n /bootflash/EFI/UpdateCapsule/UpdateCapsuleFile.bin
  allow polaris_sort_files_t polaris_efi_files_t:file getattr;
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polisioxman, 1.0);

gen_require(
  type polaris_ioxman_t;
  )

  polaris_btrace_data_manage(polaris_ioxman_t)
polaris_chasfs_manage(polaris_ioxman_t)
polaris_tdlresolve_read(polaris_ioxman_t)
polaris_tdlldb_list_dirs(polaris_ioxman_t)
polaris_cpld_read(polaris_ioxman_t)
polaris_lua_read(polaris_ioxman_t)
polaris_flashlib_read(polaris_ioxman_t)
polaris_ripc_sman_ui_serv_connect(polaris_ioxman_t)
polaris_db_tdlldb_dir_use(polaris_ioxman_t)

#allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)

corenent_tcp_connect_polaris_caf_api_port(polaris_ioxman_t)
# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_ioxman_t)

# ioxman interacting with caf through api http interface and
# is uses curl library to send requests to caf. curl wants
# to do getsockopt with SOL_SOCKET,
allow polaris_ioxman_t self:tcp_socket getopt;

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_ioxman_t)

corecmd_exec_bin(polaris_ioxman_t)
corecmd_exec_shell(polaris_ioxman_t)

# allow to run mount in its own domain; guestshell_set_netns.sh
# needs it; also, read and exec the set_netns script.
# ioxman_setup_guestshell_namespace invokes the script
# using NAMESPACE_COMMAND
mount_domtrans(polaris_ioxman_t)
polaris_guestshell_files_read(polaris_ioxman_t)
polaris_guestshell_exec_files_exec(polaris_ioxman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_ioxman_t)

# guestshell_set_netns.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ioxman_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_ioxman_t)

# modifies /bootflash/iox/iox_app/guestshell_iox.json
polaris_iox_files_manage(polaris_ioxman_t)

# guestshell_set_netns.sh touches /var/run/`netns/guestshell``
files_pid_filetrans(polaris_ioxman_t, polaris_guestshell_var_run_t, file, "guestshell")
polaris_guestshell_var_run_files_manage(polaris_ioxman_t)

# Read and write the all pty
term_use_generic_ptys(polaris_ioxman_t)

# allow ioxman_syslib.sh to set uid/gid for screen
allow polaris_ioxman_t self:capability [ dac_override setgid setuid ];

# ioxman execve virsh
gen_require(`
  type virsh_t;
type virsh_exec_t;
"

domtrans_pattern(polaris_ioxman_t, virsh_exec_t, virsh_t)
# virsh needs to write into /tmp/rp/trace/iox_guestshell.log
polaris_btrace_data Manage(virsh_t)

# ioxman is vman client over @vman_domain_socket socket
optional_policy(
    polaris_vman_use_client_socket(polaris_ioxman_t)
)
"

# ioxman uses VS_OPER_DB from virtual_services_tbl_init
polaris_tdldb_persist_setup(polaris_ioxman_t)

polaris_tmp_tdldb_persist_setup(polaris_ioxman_t)

# ioxman through libcurl library hit c-ares DNS code needs
# udp sockets access
allow polaris_ioxman_t self:udp_socket connect;

logging_send_syslog_msg(polaris_ioxman_t)

# read /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_ioxman_t)

virt_manage_sandbox_files(polaris_ioxman_t)

# handle ioxman /tmp files like /tmp/iox_xml.dat
type polaris_iox_tmp_t;
files_tmp_file(polaris_iox_tmp_t)
polaris_iox_manage_tmp_files(polaris_ioxman_t)

# by some strange reason ioxman munges files in /bootflash/tracelogs
# please see iox_tracefile_restore in ioxman/src/im_serial.c
polaris_btrace_persistent_data_manage(polaris_ioxman_t)

# virsh execved from ioxman inherits stdout from ioxman
gen_require(
    type polaris_ioxman_bt_t;
    type virsh_t;
"
allow virsh_t polaris_ioxman_bt_t:file write;

optional_policy(
gen_require(
    attribute polaris_domain;
    attribute polaris_extended_domain;
    type container_runtime_t;
type attribute container_runtime_t polaris_domain;

type attribute container_runtime_t polaris_extended_domain;

# /usr/binos/conf/shell_exec.sh policy

polaris_utility_domain_template(iox_shell)

polaris_bexecute_domain(polaris_iox_shell_t, polaris_iox_shell_exec_t)
# shell_exec call bexec.sh
polaris_bexecute_domtrans(polaris_iox_shell_t)
corecmd_exec_bin(polaris_iox_shell_t)
polaris_chasfs_read(polaris_iox_shell_t)
auth_use_nsswitch(polaris_iox_shell_t)
fs_getattr_tmpfs(polaris_iox_shell_t)

mount_domtrans(polaris_iox_shell_t)

# inherit stdin from telnetd
telnet_use_ptys(polaris_iox_shell_t)

# create files under /bootflash/iox
polaris_iox_files_manage(polaris_iox_shell_t)

# executing guestshell.sh
polaris_guestshell_exec_files_exec(polaris_iox_shell_t)
polaris_guestshell_files_read(polaris_iox_shell_t)

# executing "ip netns exec guestshell /usr/bin/ssh ..."
sysnet_exec_ifconfig(polaris_iox_shell_t)
fs_read_nsfs_files(polaris_iox_shell_t)
files_mounton_rootfs(polaris_iox_shell_t)
dev_mounton_sysfs(polaris_iox_shell_t)
allow polaris_iox_shell_t self:netlink_route_socket rw_netlink_socket_perms;
dev_mount_sysfs_fs(polaris_iox_shell_t)
dev_unmount_sysfs_fs(polaris_iox_shell_t)

# executing ssh
corenets_tcp_connect_ssh_port(polaris_iox_shell_t)
ssh_exec(polaris_iox_shell_t)
allow polaris_iox_shell_t self:tcp_socket { connect create getattr getopt setopt shutdown };

# ssh creates /root/.ssh directory
userdom_create_user_home_dirs(polaris_iox_shell_t)

# read /etc/guestshell_rsa_key
polaris_guestshell_key_read(polaris_iox_shell_t)
# work with sendbox files
polaris_sandbox_file_dir_list(polaris_iox_shell_t)

polaris_caf_var_run_files_manage(polaris_iox_shell_t)

# shell_exec.sh invokes:
#  mkdir /tmp/.shell_exec
#  create /tmp/.shell_exec/*
type polaris_iox2iosd_tmp_t;
files_tmp_file(polaris_iox2iosd_tmp_t)
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, dir, ".shell_exec")
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, file)
#allow shell_exec to manage /tmp/.ncsshdAuthorizedKeys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
# allow shell_exec to manage /tmp/.shell_exec/* files
polaris_iox2iosd_tmpManage(polaris_iox_shell_t)
# allow shell_exec to work with files created by iosd
polaris_iosd2iox_tmpManage(polaris_iox_shell_t)
ifdef(`nyquist_platform',`
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
')
ifdef(`passport_platform',`
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
')

allow polaris_iox_shell_t self:capability { chown dac_override fowner fsetid setgid setuid dac_read_search };
allow polaris_iox_shell_t self:cap_users sys_admin;
allow polaris_iox_shell_t self:process setfscreate;

# LOOK AT ME very fishy iox_shell executes
# /bootflash/iox/repo-lxc/guestshell/rootfs_mnt/cisco/shell_exec.sh that
# actually can be modified from container itself. File is recreated
# each guestshell activation and it seems not executed afterwards.
# Grant access for now. Need to look closely whether it could be exploited
# in some way
virt_exec_sandbox_files(polaris_iox_shell_t)

# ip command called from iox_shell, running it under
# iox_shell domain, add required mounton on unlabled_t
files_mounton_isid(polaris_iox_shell_t)

# read guestshell net namespace file
fs_read_nsfs_files(polaris_ioxman_t)

# need to create /bootflash/gs_script/db.ini file
polaris_bootflash_manage(polaris_ioxman_t)
polaris_harddisk_manage(polaris_ioxman_t)

# run_ioxn_secure_dir.sh policy
gen_require('  
    type polaris_iox_secure_dir_t;
')
corecmd_exec_bin(polaris_iox_secure_dir_t)
auth_use_nsswitch(polaris_iox_secure_dir_t)
polaris_caf_files_read(polaris_iox_secure_dir_t)
polaris_chasfs_manage(polaris_iox_secure_dir_t)
polaris_bootflash_manage(polaris_iox_secure_dir_t)
polaris_harddisk_manage(polaris_iox_secure_dir_t)
polaris_iox_files_manage(polaris_iox_secure_dir_t)

# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_auth)

corecmd_exec_bin(polaris_ssd_auth_t)
storage_getattr_fixed_disk_dev(polaris_ssd_auth_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_auth_t)

fs_getattr_tmpfs(polaris_ssd_auth_t)

# execute hdparam in its own domain
fstools_domtrans(polaris_ssd_auth_t)

polaris_use_btrace_fifo(polaris_ssd_auth_t)

type polaris_ssd_auth_tmp_t;
files_tmp_file(polaris_ssd_auth_tmp_t)
# bash tmp files like /tmp/sh-thd.kxX3sc
files_tmp_filetrans(polaris_ssd_auth_tmp_t, polaris_ssd_auth_t, file)
manage_files_pattern(polaris_ssd_auth_tmp_t, polaris_ssd_auth_t, polaris_ssd_auth_tmp_t)
# /tmp/ssd_blk_device created by udev
gen_require('  
    type udev_t;
    type tmpfs_t;
    type tmp_t;
')
filetrans_pattern(udev_t, {tmpfs_t tmp_t}, polaris_ssd_auth_t, file, "ssd_blk_device")
polaris_getattr_harddisk(polaris_ssd_auth_t)

fs_read_cgroup_files(polaris_ioxman_t)
# Allow ioxman to download package files using url
polaris_caf_tmp_files_manage(polaris_ioxman_t)
polaris_cli_fs_cmds_domtrans(polaris_ioxman_t)
# ufs information captured by the chasfs utils
optional_policy(
    polaris_ncd_tmp_read(polaris_ioxman_t)
)
gen_require(
    type polaris_fts_client_tmp_t;
)
manage_files_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
allow polaris_ioxman_t tmp_t:file { create open unlink write };

# get_orchestration_template in cgroup_init_common.sh reads
# ovf-env.xml file from removable and varied
fs_read_removable_files(polaris_ioxman_t)
polaris_disk_varied_read(polaris_ioxman_t)

# writes into /tmp/trace/resource.log
optional_policy(
    polaris_vman_tmp_manage(polaris_ioxman_t)
)

# watch over /tmp/udev/etc/udev/usbflash1 in iox_media_chasfs_watch
polaris_udev_tmp_read(polaris_ioxman_t)
polaris_udev_tmp_watch(polaris_ioxman_t)

ifdef(`nyquist_platform',`
    # Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_ioxman_t)
    )

device_getattr_fs(polaris_iox_shell_t)
kernle_read_system_state(polaris_iox_shell_t)

gen_require(
    type virt_lxc_var_run_t;
    )
read_files_pattern(polaris_ioxman_t, virt_lxc_var_run_t, virt_lxc_var_run_t)

# sys_resource denial is seen even on factory reset
allow polaris_ioxman_t self:capability sys_resource;

ifdef(`passport_platform',`
    # Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_ioxman_t)
    )
polaris_iosd_vcpu_read(polaris_ioxman_t)

# work with files like /tmp/guestinfo_status.txt
polaris_iosd2iox_tmp_manage(polaris_ioxman_t)

gen_require(
        type screen_var_run_t;
        type screen_exec_t;
')

# allow ioxman to set up ttys for screen
polaris_caf tty_link_manage(polaris_ioxman_t)

# allow ioxman_syslib.sh to invoke screen
screen_exec(polaris_ioxman_t)

# add entrypoint to screen_exec/can_exec permissions
allow polaris_ioxman_t screen_exec_t:file entrypoint;

# make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_ioxman_t, screen_var_run_t, dir, "screens")

# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_ioxman_t self:unix_stream_socket { create_socket_perms connectto };
manage_dirs_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)
manage_sock_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_ioxman_t)
polaris_bexecute_domain(polaris_ioxman_t, screen_exec_t)
# allow bexecute to access the /tmp/screens/*.sid files
gen_require(
        type polaris_bexecute_t;
')
manage_files_pattern(polaris_bexecute_t, screen_var_run_t, screen_var_run_t)

# allow shell_exec to manage /tmp/ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)

# allow shell_exec to manage guestshell files
gen_require(
        type container_file_t;
manage_files_pattern(polaris_iox_shell_t, container_file_t, container_file_t)

# allow ioxman to setattr for /dev/pts relating to screen
gen_require(
    type telnetd_devpts_t;
')
allow polaris_ioxman_t telnetd_devpts_t:chr_file setattr_chr_file_perms;

# allow ioxman to access the /tmp/ttyF*. files
gen_require(
    type fifo_var_run_t;
')
files_tmp_filetrans(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)
manage_fifo_files_pattern(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)

# allow ioxman to access rootfs and sysfs
# The same is needed when guestshell uses a passwordless SSH, when users do
# like "guestshell run bash" from IOS and it provides a bash shell screen
# in IOS.
gen_require(
    type ssh_home_t;
')
ssh_filetrans_admin_home_content(polaris_iox_shell_t)
allow polaris_iox_shell_t ssh_home_t:dir {create search getattr};
dev_getattr_sysfs_fs(polaris_iox_shell_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.te
No license file was found, but licenses were detected in source scan.
policy_module(polarisvxe, 1.0);

# hanet driver used by vpcgw platform of VX family
ifdef(`vpcgw_platform',`
    type polaris_hanet_device_t;
    dev_node(polaris_hanet_device_t)
')

# on ultra in some cloud configuration runs dhclient utility
# receive meta information from cloud provider, /var/lib/dhcp
# directory is created by initrc_t
gen_require(`
    type dhcpc_t;
    type initrc_t;
    type dhcp_state_t;
')
files_var_lib_filetrans( { dhcpc_t initrc_t }, dhcp_state_t, dir, "dhcp")

# during boot on misc cloud environment ultra image creates directory
# in /tmp to keep information received from cloud provider. Since latter
# it is copied into /varied directory let's assigned polaris_disk_varied_t
# to them
gen_require(`
    type initrc_t;
    type polaris_disk_varied_t;
    type unconfined_service_t;
')
files_tmp_filetrans( { unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "ami")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "azure")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "gcp")

# park policy for small polaris process umbrella_init.sh here

gen_require(')
    type polaris_umbrella_init_t;
')
polaris_bootflash_manage(polaris_umbrella_init_t)
corecmd_exec_bin(polaris_umbrella_init_t)
auth_use_nsswitch(polaris_umbrella_init_t)

# define added to address issues related to dependency
# on mcp-platform-tdl for db defines
# Skip for vpcgw platform
ifndef('vpcgw_platform',)
type polaris_gnmib_t;
')

type polaris_objstore_sem_t;
files_tmpfs_file(polaris_objstore_sem_t)

# semaphore created by systemd-tmpfiles needs map permission

gen_require(')
    type systemd_tmpfiles_t;
')
mmap_files_pattern(systemd_tmpfiles_t, polaris_objstore_sem_t, polaris_objstore_sem_t)

# on vxe all processes read grub_cisco_version in polaris_disk_varied_t

gen_require(')
    attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

# on vxe all processes read grub_cisco_version in polaris_disk_varied_t

gen_require(')
    type unconfined_service_t;
    type polaris_disk_varied_t;
')

# unconfined service create /boot/install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vxeinstall_info_t, file, ".install_info")
# on C8KV all processes read grubenv in EFI disk partition

gen_require('  
    attribute polaris_domain;
')
polaris_grub_efi_search(polaris_domain)

gen_require('  
    type unconfined_service_t;
    type polaris_disk_varied_t;
    type polaris_obfl_data_t;
')

# unconfined service create /boot/obfl_temp_k1/2/3 if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k1")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k2")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k3")

# handle /tmp/vxe_disk_XXX_YYY files

gen_require('  
    type unconfined_service_t;
')
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)

# /etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically bootflash, but on MBRv2/MBRv4/GPTv1/GPTv3
# partition layouts it could be separate /config partitiion that is
# under polaris_disk_config_t label

gen_require('  
    type initrc_t;
    type ssh_home_t;
')
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved

policy_module(polarisissumonitor, 1.0);

polaris_process_domain_template(issu_monitor)

corecmd_exec_bin(polaris_issu_monitor_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_monitor_t)

polaris_btrace_data_manage(polaris_issu_monitor_t)
polaris_chasfs_manage(polaris_issu_monitor_t)
polaris_cpld_read(polaris_issu_monitor_t)
polaris_proc_rmonbifo_read(polaris_issu_monitor_t)
polaris_boot_tmp_read(polaris_issu_monitor_t)
polaris_read_debug_conf(polaris_issu_monitor_t)

# read and possibly create /bootflash/.installer/issu_crash dir
polaris_bootflash_manage(polaris_issu_monitor_t)

allow polaris_issu_monitor_t self:capability sys_resource;
allow polaris_issu_monitor_t self:process setpgid;

type polaris_issu_monitor_tmp_t;
files_tmp_file(polaris_issu_monitor_tmp_t)
files_tmp_filetrans(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, dir, "issu_mon_dir")
manage_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_dirs_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_fifo_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)

# access to /tmp/ufs/harddisk
optional_policy(
'polaris_ncd_tmp_read(polaris_issu_monitor_t)
')

# access to /bootflash/.installer/issu_crash
polaris_disk_install_read(polaris_issu_monitor_t)

# access to /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_issu_monitor_t)

# read /proc/cmdline
kernel_read_system_state(polaris_issu_monitor_t)

# rm -rf /tmp/rp/issu_mon_dir
fs_getattr_tmpfs(polaris_issu_monitor_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.te
No license file was found, but licenses were detected in source scan.

#
# February 2018, Manohar Hungund
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

copymodule(polarisact2, 1.0);

##############################################################################
# ACT2 Chip Driver policy
##############################################################################

type polaris_act2_device_t;
dev_node(polaris_act2_device_t)

##############################################################################
# /tmp/hw_entropy file.
# Certain platforms save entropy from main board ACT-2 chip in this file.

type polaris_hw_entropy_t;
files_tmp_file(polaris_hw_entropy_t)

##############################################################################

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

copymodule(polariscppha, 1.0);

gen_require(`
   type polaris_cpp_ha_t;
polaris_btrace_data_manage(polaris_cpp_ha_t)
polaris_crft_data_manage(polaris_cpp_ha_t)
polaris_chasfs_manage(polaris_cpp_ha_t)
polaris_tdlresolve_read(polaris_cpp_ha_t)
polaris_tdlldb_list_dirs(polaris_cpp_ha_t)
polaris_cpld_read(polaris_cpp_ha_t)
polaris_flashlib_read(polaris_cpp_ha_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_ha_t)
polaris_db_tdlldb_dir_use(polaris_cpp_ha_t)
polaris_cpp_process(polaris_cpp_ha_t)
polaris_cpp_dev_use(polaris_cpp_ha_t)
polaris_icc_broken_relocations(polaris_cpp_ha_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_ha_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_ha_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_ha_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_ha_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_ha_t)
')
polaris_cpld_dev_use(polaris_cpp_ha_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polariscppsp, 1.0);

gen_require(
    type polaris_cpp_sp_t;
')

polaris_btrace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manage(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_sp_t)
polaris_cpp_process(polaris_cpp_sp_t)
polaris_cpp_dev_use(polaris_cpp_sp_t)
polaris_icc_broken_relocations(polaris_cpp_sp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_sp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
    polaris_dev_mem_use(polaris_cpp_sp_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_sp_t)

optional_policy(
    polaris_cbdma_dev_use(polaris_cpp_sp_t)
')
polaris_cpld_dev_use(polaris_cpp_sp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/bin/os/conf/reflector.sh -- gen_context(system_u:object_r:polaris_reflector_exec_t,s0)

/tmp/rp/reflector(/.*)? gen_context(system_u:object_r:polaris_reflector_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarissifmgr, 1.0);

gen_require('  
    type polaris_sif_mgr_t;
')

polaris_btrace_data_manage(polaris_sif_mgr_t)
polaris_crft_data_manage(polaris_sif_mgr_t)
polaris_chasfs_manage(polaris_sif_mgr_t)
polaris_tldresolve_read(polaris_sif_mgr_t)
polaris_tlddb_list_dirs(polaris_sif_mgr_t)
polaris_cpld_read(polaris_sif_mgr_t)
polaris_lua_read(polaris_sif_mgr_t)
polaris_flashlib_read(polaris_sif_mgr_t)

#if romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_sif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_sif_mgr_t)

corecmd_exec_bin(polaris_sif_mgr_t)
corecmd_exec_shell(polaris_sif_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_sif_mgr_t)

# allow to read /proc/mtd
kernel_read_system_state(polaris_sif_mgr_t)

#allow write /proc/dplr_sesa
optional_policy(
    polaris_proc_sesa_create_write(polaris_sif_mgr_t)
')

# access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_sif_mgr_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_sif_mgr_t)

# work with /tmp files (/tmp/sm_post_result)
type polaris_sif_mgr_tmp_t;
files_tmp_file(polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sm_post_result")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "fips_status")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_0")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_1")
manage_files_pattern(polaris_sif_mgr_t, tmp_t, polaris_sif_mgr_tmp_t)
polaris_cm_rp_tmp_manage(polaris_sif_mgr_t)

#allow ipc_lock when mmap64(..) a shared mememoy with MAP_LOCKED in dplr_pkt_drvoob.c
allow polaris_sif_mgr_t self:capability { ipc_owner dac_override ipc_lock };

#allow read from /tmp/hw_entropy
polaris_hw_entropy_read(polaris_sif_mgr_t)

polaris_obfl_data_manage(polaris_sif_mgr_t)

#/dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_sif_mgr_t)

#/dev/dmammap usage
polaris_dmammap_dev_use(polaris_sif_mgr_t)

#/dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_sif_mgr_t)

polaris_lsmpi_dev_use(polaris_sif mgr_t)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_sif_mgr_t)

polaris_socketat_nsfs_read(polaris_sif mgr_t)

allow polaris_sif_mgr_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_sif_mgr_t)
#endif

# /dev/mbi/Slot0/Doppler0/GroupN gets polaris_dplr_device_t label
# at some point, but need above generic chr permission by some
# reason, not clear need to look a bit more
polaris_dplr_dev_use(polaris_sif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_sif_mgr_t self:tcp_socket ioctl;

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_sif_mgr_t)

# /dev/shm/sdm access
optional_policy(
   polaris_sdm_shm_manage(polaris_sif_mgr_t)
   )

# LOOK AT ME: unsolicited creation of file in /bootflash
# by CSCvm43512. Backout when CSCvm99282 is fixed
polaris_bootflash_manage(polaris_sif_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_sif_mgr_t)

optional_policy(
   polaris_quake_i2c_manage(polaris_sif_mgr_t)
   )

#ifndef(quake_platform,`
   dev_read_sysfs(polaris_sif_mgr_t)
   )

optional_policy(
   polaris_ngwc_scc_shm_manage(polaris_sif_mgr_t)
   )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

# polariswncmgrd file contexts place holder
#gRPC certificate for ICap, written and read by wncmgrd
/bootflash/NACert.pem  gen_context(system_u:object_r:polaris_icap_cert_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.fc

No license file was found, but licenses were detected in source scan.

dnl

dnl July 2020, Victor Kamensky
dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl ISRV Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/isrvmaps.m4

No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarismcp, 1.0);

# scooby device
type polaris_scooby_device_t;
dev_node(polaris_scooby_device_t)

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# blzi_fpga device
type polaris_blzi_device_t;
dev_node(polaris_blzi_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# ds31408 device
type polaris_ds31408_device_t;
dev_node(polaris_ds31408_device_t)

# icp_ads_ctl device
#ifndef("fugazi_platform",
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)
"
)
type polaris_cpp_htdp_device_t;
dev_node(polaris_cpp_htdp_device_t)

type polaris_cbdma_device_t;
dev_node(polaris_cbdma_device_t)
type polaris_n2_device_t;
dev_node(polaris_n2_device_t)

type polaris_cy2213_device_t;
dev_node(polaris_cy2213_device_t)

type polaris_vega_device_t;
dev_node(polaris_vega_device_t)

# Fugazi makes use of fugazi_platform.tdl for IPCs and processes definition
# and it uses mcp_platform.tdl for databases definition. The below symbols
# are referred by mcp_platform.tdl but not fugazi_platform.tdl and hence these
# type definitions.
ifdef(`fugazi_platform',`
    type polaris_fnf_agg_t;
')

optional_policy`
# access to /dev/icp_XXX device on asr1k platforms
    gen_require`
        type polaris_cck_qat_t;
')
polaris_icp_dev_use(polaris_cck_qat_t)
dev_list_sysfs(polaris_cck_qat_t)
polaris_chasfs_read(polaris_cck_qat_t)
polaris_cpld_read(polaris_cck_qat_t)
polaris_tdlresolve_read(polaris_cck_qat_t)
')

# Handling denial for rsync_t for socket -
# comm="rsync" path="socket:[16784]" dev="sockfs" ino=16784
# scontext=system_u:system_r:rsync_t:s0 tcontext=system_u:system_r:init_t:s0
gen_require`
        type rsync_t;
')
init_rw_stream_sockets(rsync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
# polarisioxman file contexts place holder

/usr/bin/os/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t,s0)

/usr/bin/os/conf/run_ioxn_secure_dir.sh -- gen_context(system_u:object_r:polaris_iox_secure_dir_exec_t,s0)

/bin/cat9k_ssd_auth_cmds.sh -- gen_context(system_u:object_r:polaris_ssd_auth_exec_t,s0)

/tmp/trace/resource.log     -- gen_context(system_u:object_r:polaris_iox_tmp_t,s0)

/tmp/screens(/.*)           -- gen_context(system_u:object_r:screen_var_run_t,s0)

/tmp/.shell_exec(/.*) -- gen_context(system_u:object_r:polaris IoX2iosd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisbsm, 1.0);

gen_require(`
    type polaris_bsm_t;
`
    )

polaris_btrace_data_manage(polaris_bsm_t)
polaris_chasfs_manage(polaris_bsm_t)
polaris_tdlresolve_read(polaris_bsm_t)
polaris_tdldb_list_dirs(polaris_bsm_t)
polaris_cpld_read(polaris_bsm_t)
polaris_flashlib_read(polaris_bsm_t)
polaris_ripc_sman_ui_serv_connect(polaris_bsm_t)

optional_policy(`
polaris_bde_dev_use(polaris_bsm_t)
`
)

allow polaris_bsm_t self:capability sys_nice;
allow polaris_bsm_t self:process setsched;

# need access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_bsm_t)
# handling /var/tmp/bsm_bcm_shell

type polaris_bsm_bcm_shell_t;
files_type(polaris_bsm_bcm_shell_t)
gen_require(')
type tmp_t;
')
filetrans_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t, fifo_file, "bsm_bcm_shell")
manage_fifo_files_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t)

ifdef('vxe_family',
# bind to BSM_AGENT_CLIENT_PORT port from bsm_tlv_init
corenets_tcp_bind_polaris_bsm_agent_client_port(polaris_bsm_t)
')

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_bsm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/sm_post_result -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)
/tmp/fips_status -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris polarisissucompcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisngwcfmmgr, 1.0);

gen_require('type polaris_ngwc_plfm_mgr_t;
')
polaris_btrace_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_crft_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_chasfs_manager(polaris_ngwc_plfm_mgr_t)
polaris_tdrresolve_read(polaris_ngwc_plfm_mgr_t)
polaris_tlddb_list_dirs(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polaris_lua_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_read(polaris_ngwc_plfm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_plfm_mgr_t)
corecmd_exec_bin(polaris_ngwc_plfm_mgr_t)
corecmd_exec_shell(polaris_ngwc_plfm_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_plfm_mgr_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { sys_rawio ipc_owner dac_override };
allow polaris_ngwc_plfm_mgr_t self:capability2 block_suspend;
polaris_obfl_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_dyncfg_tmp_read(polaris_ngwc_plfm mgr_t)
polaris_ngwc_shm_manager(polaris_ngwc_plfm_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_plfm_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_plfm_mgr_t)

# open /dev/ttyS0 console in edison_platform_init
term_use_unallocated_ttys(polaris_ngwc_plfm_mgr_t)

polaris_disk_license_read(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { chown fowner fsetid };

type polaris_ngwc_plfm_mgr_tmp_t;
files_tmp_file(polaris_ngwc_plfm_mgr_tmp_t)
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "microcode_update")
manage_files_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm mgr_tmp_t, polaris_ngwc_plfm mgr_tmp_t, polaris_ngwc_plfm mgr_tmp t)
manage_dirs_pattern(polaris_ngwc_plfm mgr_t, polaris_ngwc_plfm mgr_tmp_t, polaris_ngwc_plfm mgr_tmp_t, polaris_ngwc_plfm mgr_tmp_t)

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_ngwc_plfm mgr_t)

# create /tmp/hw_entropy file anf fill with info from act2
polaris_hw_entropy_create(polaris_ngwc_plfm mgr_t)

polaris_boot_tmp_read(polaris_ngwc_plfm mgr_t)

polaris_flashlib_write(polaris_ngwc_plfm mgr_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmp_dirs(polaris_ngwc_plfm mgr_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log file access
# remove after CSCvh66533 fixed
polaris_bootflash_manage(polaris_ngwc_plfm mgr_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polaris_ngwc_plfm mgr_t)

# rsync nvram_config file accross stack
#rsync_exec(polaris_ngwc_plfm mgr_t)
gen_require(
    type rsync_t;
    )
rsync_entry_domtrans(polaris_ngwc_plfm mgr_t, rsync_t)
allow rsync_t polaris_ngwc_plfm mgr_t:process sigchld;
# write access to /dev/ttyS0
term_write_unallocated_ttys(rsync_t)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_ngwc_plfm_mgr_t)

# /dev/shm/sdm access
optional_policy(''
polaris_sdm_shm_manage(polaris_ngwc_plfm_mgr_t)
')

# platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manage(polaris_ngwc_plfm_mgr_t)
allow polaris_ngwc_plfm_mgr_t self:process setfscreate;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.te
No license file was found, but licenses were detected in source scan.

#
# July 2019, Victor Kamensky
#
# Copyright (c) 2019-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisgrmgr, 1.0);

gen_require(''
    type polaris_gr_mgr_t;
')
polaris_crft_data_manage(polaris_gr_mgr_t)
polaris_chasfs_manage(polaris_gr_mgr_t)
polaris_tdlresolve_read(polaris_gr_mgr_t)
polaris_cpld_read(polaris_gr_mgr_t)
polaris_lua_read(polaris_gr_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_gr_mgr_t)

allow polaris_gr_mgr_t self:capability { dac_override dac_read_search };
# DB persistence
polaris_tdldbpersist_setup(polaris_gr_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

# ngio devices
/dev/ngio[0-9]* -c gen_context(system_u:object_r:polaris_ngio_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.fc
No license file was found, but licenses were detected in source scan.

#
# July 2018, Victor Kamensky
#
# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/idope_svr gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)
/tmp/shfwd_svr gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)

/tmp/pktgen.txt gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/DopeElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/MemDumpElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)

/dcmlog.txt -- gen_context(system_u:object_r:polaris_fed_debug_dcmlog_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscpld, 1.0);

##########################################################################
# CPLD Driver policy
##########################################################################

# note polaris_sysfs_cpld_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

type polaris_cpld_device_t;
dev_node(polaris_cpld_device_t)
Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisrogued, 1.0);

gen_require(

  type polaris_rogued_t;

')

polaris_btrace_data_manage(polaris_rogued_t)
polaris_chasfs_manage(polaris_rogued_t)
polaris_tdlresolve_read(polaris_rogued_t)
polaris_tdldb_list_dirs(polaris_rogued_t)
polaris_cpld_read(polaris_rogued_t)
polaris_lua_read(polaris_rogued_t)
polaris_flashlib_read(polaris_rogued_t)
polaris_ripc_sman_ui_serv_connect(polaris_rogued_t)
polaris_db_tdldb_dir_use(polaris_rogued_t)

# allow to use setrlimit
allow polaris_rogued_t self:process setrlimit;
allow polaris_rogued_t self:capability sys_resource;
allow polaris_rogued_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rogued_t)
polaris_socketat_nsfs_read(polaris_rogued_t)

## # allow to open udp socket on RDLP port 6532
corenet_udp_bind_polaris_rdlp_port(polaris_rogued_t)
corenet_udp_bind_generic_node(polaris_rogued_t)
allow polaris_rogued_t self:udp_socket { create_socket_perms recv_msg send_msg };

# reading images/ap_capabilities.xml
polaris_wlc_ap_images_read(polaris_rogued_t)
# syslogs in RLDP
logging_send_syslog_msg(polaris_rogued_t)

# DB persistence
polaris_tlddbpersist_setup(polaris_rogued_t)
polaris_tmp_tlddb.persist_setup(polaris_rogued_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscmm, 1.0);

gen_require(' type polaris_cmm_t; ')

polaris_btrace_data_manage(polaris_cmm_t)
polaris_crft_data_manage(polaris_cmm_t)
polaris_chasfs_manage(polaris_cmm_t)
polaris_tldresolve_read(polaris_cmm_t)
polaris_tlddb_list_dirs(polaris_cmm_t)
polaris_cpld_read(polaris_cmm_t)
polaris_flashlib_read(polaris_cmm_t)
polaris_ripc_sman_ui_serv_connect(polaris_cmm_t)

allow polaris_cmm_t self:capability dac_override;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.te
No license file was found, but licenses were detected in source scan.

dnl All rights reserved

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_fc.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_fc.m4
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisofa file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris emd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.if
No license file was found, but licenses were detected in source scan.

# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscaf, 1.0);

    gen_require(
        type polaris_caf_t;
        type polaris_caf_exec_t;
        type usr_t;
    ')

    ifdef('nyquist_platform',
        gen_require(
            type polaris_sioxcd_rp_t;
        ')
    # Allow read of /etc/passwd
    auth_map_passwd(polaris_sioxcd_rp_t)
# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t;
files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)

# Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardssubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# Logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernle_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(')
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
')

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)
')

polaris_chasfs_manage(polaris_caf_t)
polaris_btrace_data_manage(polaris_caf_t)
polaris_cpld_read(polaris_caf_t)
polaris_boot_tmp_read(polaris_caf_t)

# Run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_caf_t)

corecmd_exec_bin(polaris_caf_t)

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_caf_t)

# Run-caf.sh invokes startup.py. This leads to node_t:tcp_socket node_bind
corenet_tcp_bind_generic_node(polaris_caf_t)

allow polaris_caf_t self:capability { net_admin sys_resource };
allow polaris_caf_t self:tcp_socket { accept listen create_socket_perms };
allow polaris_caf_t self:udp_socket create_socket_perms;
allow polaris_caf_t self:unix_dgram_socket { create_socket_perms sendto }
allow polaris_caf_t self:cap_users { sys_admin sys_ptrace setgid setuid sys_chroot }

# df needs to have getattr on many file/dir/fs
fs_getattr_all_fs(polaris_caf_t)
fs_getattr_all_files(polaris_caf_t)
files_getattr_all_dirs(polaris_caf_t)
dev_getattr_all_chr_files(polaris_caf_t)
files_getattr_all_mountpoints(polaris_caf_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_caf_t)

# allow execution of /usr/sbin/brctl
brctl_domtrans(polaris_caf_t)

#allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_caf_t)
fs_list_cgroup_dirs(polaris_caf_t)

# add new type for /guestshell files and allow CAF to manage them
type polaris_guestshell_t;
files_type(polaris_guestshell_t)
manage_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_dirs_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

#required to support, guestshell enable, which creates <iox-storage>/ixo/repo/guestshell
relabelto_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# run_ioxn_caf.sh invokes run-caf.sh which executes "ip"
sysnet_domtrans_ifconfig(polaris_caf_t)
# allow netns operations
sysnet_manage_ifconfig_run(polaris_caf_t)

libs_domtrans_ldconfig(polaris_caf_t)

# add new type for /bootflash/iox files and allow CAF to manage them
type polaris_iox_files_t;
polaris_disk_type(polaris_iox_files_t)
polaris_iox_files_manage(polaris_caf_t)

# need open, read, ioctl, getattr on /bootflash/debug.conf
polaris_read_debug_conf(polaris_caf_t)

# run_ioxn_caf.sh cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_caf_t)
# pvsm_cpu.sh reads /tmp/cgroup.log
optional_policy(
    polaris_vman_tmp_manage(polaris_caf_t)
)

# allow to read /proc/cpuinfo
kernel_read_system_state(polaris_caf_t)

optional_policy(
    container_runtime_domtrans(polaris_caf_t)
)

# add new type for /opt/cisco/caf files and allow CAF to manage them
type polaris_caf_files_t;
files_type(polaris_caf_files_t)
files_root_filetrans(polaris_caf_t, polaris_caf_files_t, dir)
files_root_filetrans(polaris_caf_t, polaris_caf_exec_t, dir, "scripts")
manage_dirs_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

gen_require(
    type polaris_hm_t;
)
polaris_caf_files_read(polaris_hm_t)

# this label is created for sharing of core file dirs between host and containers
type polaris_caf_core_files_t;
polaris_disk_type(polaris_caf_core_files_t)
# transition /local files and dirs
files_root_filetrans(polaris_caf_t, polaris_caf_core_files_t, dir, "local")
polaris_btrace_data_manage(polaris_caf_core_files_t)
manage_files_pattern(polaris_caf_core_files_t, usr_t, usr_t)

# manage local core files between host and container
polaris_caf_local_core_files_manage(polaris_caf_t)
polaris_caf_local_core_files_manage(brctl_t)

# run_ioxn_caf.sh invokes startup.py that eventually through resourcemanager.py
# calls cpu_count_logical function in order to get number of cores and which
# needs read access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_caf_t)

# run-caf.sh modifies iox_polaris.conf; backup is saved due to "sed-i.bak".
# in order to preserve security context, setfscreate is invoked
allow polaris_caf_t self:process setfscreate;

# work with /var/log/caf/ files
type polaris_caf_log_t;
logging_log_file(polaris_caf_log_t)
manage_files_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "caf")
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "docker")
corenet_tcp_bind_polaris_caf_api_port(polaris_caf_t)

type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)
# python through libffi tries to mmap open file with PROT_EXEC, it triggers need
# for execute permission
allow polaris_caf_t polaris_guestshell_ssh_key_t:file execute;
allow polaris_caf_t polaris_guestshell_ssh_key_t:file map;
# add new type for "internal" temp files created by underlying python modules when
# user-level python scripts (e.g., run_ioxn_caf.sh, run-caf.sh, etc) performs init;
# we are now creating them using TMPDIR=/tmp/caf; and, allow CAF to manage these
# internal temp files; in addition, underlying python-infra invokes __mmap() that
# somehow translates to.... execute stuff like "/tmp/caf/#97893 (deleted)"
type polaris_caf_tmp_files_t;
files_tmp_file(polaris_caf_tmp_files_t)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, dir)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, file)
manage_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
# A folder like /bootflash/iox/repo/guestshell/extract_archive
# contains files that are extracted from a tarball and are
# made polaris_caf_tmp_files_t because of the files_tmp_filetrans rule
relabel_files_pattern(polaris_caf_t, polaris_iox_files_t, polaris_iox_files_t)
relabel_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
# allow to run e2fsck in its own domain
fstools_domtrans(polaris_caf_t)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_caf_t)

# allow access to /etc/guestshell_rsa_key* files
type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)
# allow to run mount in its own domain
mount_domtrans(polaris_caf_t)

# add new type for /guestshell/*.sh files
type polaris_guestshell_exec_t;
files_type(polaris_guestshell_exec_t)

# add new type for /var/run/netns/guestshell
type polaris_guestshell_var_run_t;
files_type(polaris_guestshell_var_run_t)

# add new type for /var/run/cisco_cli
type polaris_caf_var_run_t;
files_pid_file(polaris_caf_var_run_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_files_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
files_pid_filetrans(polaris_caf_t, polaris_caf_var_run_t, { file dir })

# Intermediate step: When CAF unpacks the contents of the application
# you upload, it will stage the contents somewhere and verify some checks
# (filesystem check on the disk image, existence of several folders, etc.). Disk
# images are mounted without any label since CAF has not generated security
# labels yet for the app at this point. The disk gets unmounted and eventually
# gets mounted again with the proper context/label.
type polaris_disk_caf_t;
polaris_disk_type(polaris_disk_caf_t)
list_dirs_pattern(polaris_caf_t, polaris_disk_caf_t, polaris_disk_caf_t)

allow polaris_caf_t self:capability { chown dac_override fowner fsetid setfcap sys_chroot sys_ptrace };
allow polaris_caf_t self:process setcap;
fs_read_nsfs_files(polaris_caf_t)

# caf to manage loop device: finding free /dev/loopN device
dev_rw_loop_control(polaris_caf_t)

# PLEASE LOOK AT ME
# allow caf to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_caf_t)

# caf executing chroot via bash
gen_require(''
    type svirt_sandbox_file_t;
')
allow polaris_caf_t svirt_sandbox_file_t:file { execute execute_no_trans };
gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
)
setattr_dirs_pattern(polaris_caf_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
# replicating policy done for polaris_disk_bootflash_t
setattr_dirs_pattern(polaris_caf_t, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

# caf connects to its own port 8098
corennet_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virt_manage_sandbox_files(polaris_caf_t)

kernel_read_network_state(polaris_caf_t)

polaris_bootflash_manage(polaris_caf_t)
polaris_bootflash_files_mmap(polaris_caf_t)
# allow polaris_disk_harddisk_t manage like polaris_disk_bootflash_t
polaris_harddisk_manage(polaris_caf_t)

# caf execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
)
dontrans_pattern(polaris_caf_t, virsh_exec_t, virsh_t)
# virsh needs to read /opt/cisco/caf/scripts/ieobcbcr.xml
polaris_caf_files_read(virsh_t)

# caf calls tipc-config that works with tipc sockets
allow polaris_caf_t self:socket create_socket_perms;
allow polaris_caf_t self:netlink_generic_socket { create_socket_perms sendto recvfrom };

# get and set attrs on httpd_var_run_t under /bootflash/iox
gen_require(
    type httpd_var_run_t;
)
getattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
setattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
# allow TCP connection for http port e.g. Local Manager
corennet_tcp_connect_http_port(polaris_caf_t)

# execute lvm commands, like lvs
lvm_domtrans(polaris_caf_t)

polaris_disk_crashinfo_getattr(polaris_caf_t)
optional_policy("
polaris_ncl_tmp_read(polaris_caf_t)
'

logging_send_syslog_msg(polaris_caf_t)

# tries to load KLM like cuse, fuse, overlay
modutils_domtrans_inmod(polaris_caf_t)

# modifies files under /var/www/features/iox
apache_manage_sys_content(polaris_caf_t)

# caf reads version of ioxman from its executable
polaris_ioxman_exec_read(polaris_caf_t)

polaris_ioxman_show_version(polaris_caf_t)

type polaris_iox_alt_hdd_files_t;
files_type(polaris_iox_alt_hdd_files_t)
polaris_pfile_type(polaris_iox_alt_hdd_files_t)
polaris_iox_alt_hdd_manage(polaris_caf_t)

# On stargazer platform /vol/disk0 is used by iox to create below dirs.
# On nyquist platform /vol/usb1 with polaris_disk_harddisk_t is used
# Transition them to appropriate labels.
gen_require(''
    type container_var_lib_t;
'')

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t },
polaris_iox_files_t, dir, "iox")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t },
polaris_caf_tmp_files_t, dir, "caf")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t polaris_iox_files_t },
container_var_lib_t, dir, "docker")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t },
polaris_iox_files_t, dir, "iox_data_share")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t },
polaris_iox_files_t, dir, "iox_host_data_share")

# Allow files under guest-share directory which is shared between ios
# and container

type polaris_iox_shared_files_t;
files_type(polaris_iox_shared_files_t)
polaris_pfile_type(polaris_iox_shared_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t },
polaris_iox_shared_files_t, dir, "guest-share")
# Allow signature verification of applications

```c
polaris_irox_files_manage(polaris_code_verify_t)
```

# allow caf to control /tmp/trace/resource.log

```c
polaris_irox_manage_tmp_files(polaris_caf_t)
```

# some utility running under caf needs access to /varied/ovf-env.xml

```c
polaris_disk_varied_read(polaris_caf_t)
```

# caf reads the udev information

```c
manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)
```

```c
manage_files_pattern(polaris_caf_t, virtd_lxc_t, virtd_lxc_t)
```

# caf modifies /etc/cgroup_params.txt

```c
files_manage_etc_files(polaris_caf_t)
```

# read /tmp/iox_override.conf created by ioxman

```c
polaris_irox_read_tmp_files(polaris_caf_t)
```

# python udev library used by caf

```c
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattr setopt };
```

# need access to rawip socket by pd_iox.sh

```c
allow polaris_caf_t self:capability { net_raw setgid };
```

```c
allow polaris_caf_t self:rawip_socket { create getopt setopt };
```

# LOOK AT ME caf leaks fifo file descriptors need permissions for domains that started by it

```c
allow iptables_t polaris_caf_t:fifo_file { read write append getattr };
```

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh

```c
allow iptables_t self:cap_users { net_admin net_raw };
```
container_stream_connect(polaris_caf_t)

    gen_require('type pki_ca_port_t;
    ')
    allow polaris_caf_t pki_ca_port_t:tcp_socket name_connect;

    polaris_flashlib_read(polaris_caf_t)
polaris_flashlib_write(polaris_caf_t)
polaris_contdev_dev_read(polaris_caf_t)

    gen_require('type rsync_exec_t;
    type rsync_port_t;
    ')
    allow polaris_caf_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
    allow polaris_caf_t rsync_port_t:tcp_socket name_connect;

    # IOX uses rsync to sync the data
    gen_require('type rsync_t;
    ')
    rsync_entry_domtrans(polaris_caf_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_caf_t)
    allow rsync_t polaris_caf_t:fifo_file { getattr write };

    kernel_search_network_sysctl(polaris_caf_t)
    kernel_rw_net_sysctls(polaris_caf_t)
    dev_rw_sysfs(polaris_caf_t)

    # Allow run-caf.sh to configure byte_queue_limits/limit_min for KR port
    gen_require('type sysfs_t;
    ')
    allow polaris_caf_t sysfs_t:file create;
    dev_manage_sysfs_dirs(polaris_caf_t)

    # CAF needs access to setup for containers
    manage_dirs_pattern(polaris_caf_t, self, self)
    fs_associate_proc(polaris_caf_t)

    # guestshell_setup.sh reads /proc/sys/kernel/core_pattern
    kernel_read_usermodehelper_state(polaris_caf_t)
    # and then guestshell_setup.sh reads /tmp/corelink
    gen_require('type initrc_tmp_t;
    ')
    allow polaris_caf_t initrc_tmp_t:lnk_file read;
# Beluga/Meraki container
ifdef(`ms_platform',`
  polaris_iox_container_domtrans(polaris_caf_t)
')

# Bottlenose/Meraki container
ifdef(`bottlenose_platform',`
  polaris_iox_container_domtrans(polaris_caf_t)
')

#allow run_ioxn_caf.sh to modify /etc/docker/daemon.json, etc.
class manage_config_files(polaris_caf_t)

# Manage IOx Secure storage CC files
type polaris_iox_ss_disk_t;
files_type(polaris_iox_ss_disk_t)
polaris_pfile_type(polaris_iox_ss_disk_t)

#Guestshell management
class signull(polaris_caf_t)
gen_require(`
  type ifconfig_t;
')
#endif allow ifconfit_t usersns permissions for IP
allow ifconfig_t self:cap_users { net_admin sys_admin sys_ptrace };
#endif allow ifconfig_t to transition into dhcpc domain
sysnet_domtrans_dhcpc(ifconfig_t)

# Being an IOSP client does not allow for setattr permissions
gen_require(`
  type polaris_iosd_portal_app_lipc_t;
')
setattr_sock_files_pattern(polaris_caf_t, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)

ifdef(`passport_platform',`

# Allow read of /etc/passwd
class auth_map_passwd(polaris_sioxcd_rp_t)
#
# Allow usage of ls in helper script
class exec_bin(polaris_sioxcd_rp_t)
# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t:

files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)
#
# # Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)
#
# # Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# # Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# # Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)
#
# # Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)
# Allow flashutil
polaris_flashtool_read(polaris_sioxcd_rp_t)

# iptables execute in its own domain
iptables_domtrans(polaris_caf_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernle_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(`
        polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
    `)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

# Allow sync_data to use chvrfs
polaris_chvrfs_domtrans(polaris_caf_t)

# tty device and link files under /dev
type polaris_caf_tty_file_t;
   dev_node(polaris_caf_tty_file_t)
   dev_filetrans(polaris_caf_t, polaris_caf_tty_file_t, lnk_file)
   term_use_ptmx(polaris_caf_t)
polaris_caf_tty_lnk_manage(polaris_caf_t)
polaris_caf_chr_file_read(polaris_caf_t)
polaris_iosd_vcpu_read(polaris_caf_t)

# Allow access starting/stopping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_use_fifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)
# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmbonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)

gen_require('  
  type dhcpc_t;
  
')
# allow these users capabilities for dhcp
allow dhcpc_t self:cap_users [ net_raw net_bind_service ];
# allow CAF to transition to dhcp e.g. dhclient_custom.sh
sysnet_domtrans_dhcpc(polaris_caf_t)
# allow reading of dhcp configuration files e.g.
# /vol/usb1/iox/repo-docker/perfsonar1/dhcp/dhcp_eth0.conf
polaris_caf_files_read(dhcpc_t)
# allow writing of dhcp lease files e.g. eth0ipv4.lease
polaris_iox_files_manage(dhcpc_t)
# allow dhcp domain to transition back into CAF e.g. dhclient_custom.sh
polaris_caf_domtrans(dhcpc_t)

# Allow read container share files
container_read_share_files(polaris_caf_t)

# Allow manage container files
gen_require('  
  type container_file_t;
  type container_share_t;
  type container_log_t;
  
')
mmap_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_chr_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_fifo_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_sock_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_files_pattern(polaris_caf_t, container_log_t, container_log_t)

# Allow polaris caf to set attributes of device nodes of fuse devices
gen_require('  
  type fuse_device_t;
  
')
allow polaris_caf_t fuse_device_t:chr_file setattr;

# Allow polaris caf to set attributes of TUN/TAP virtual network device
gen_require('  
  type tuntap_dev_t;
type tun_tap_device_t;
')
allow polaris_caf_t tun_tap_device_t:chr_file setattr;

# Allow operations on fifo file
type fifo_var_run_t;
# make sure /tmp/ttyF0 is labeled correctly
files_tmp_file(fifo_var_run_t)
files_tmp_filetrans(polaris_caf_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_caf_t, fifo_var_run_t, fifo_var_run_t)

# allow udev read operations
polaris_udev_tmp_read(polaris_caf_t)

# allow link file for tmpfs_t
allow polaris_caf_t tmpfs_t:lnk_file create;

###################
# IOX Secure storage service policies
###################
optional_policy(
    gen_require(
        type polaris_ioxss_rp_t;
        type polaris_sort_files_t;
        type polaris_iosd_t;
    )
    type polaris_ioxss_rp_tmp_t;
    files_tmp_file(polaris_ioxss_rp_tmp_t)
    files_tmp_filetrans(polaris_ioxss_rp_t, polaris_ioxss_rp_tmp_t, file, "ioxss_up")
polaris_ioxss_rp_tmp_manage(polaris_ioxss_rp_t)
polaris_chasfs_read(polaris_ioxss_rp_t)
polaris_lua_read(polaris_ioxss_rp_t)

    manage_files_pattern(polaris_ioxss_rp_t, polaris_ioxss_disk_t, polaris_ioxss_disk_t)
    allow polaris_sort_files_t polaris_ioxss_disk_t:dir list_dir_perms;
    allow polaris_iosd_t polaris_ioxss_disk_t:dir list_dir_perms;

    # Allow polaris_sort_files_t getattr of iosd_portal_app_lipc socket file
    polaris_iosd_portal_app_lipc_getattr(polaris_sort_files_t)

    # allow secure storage server to connect through tcp_socket on port 9000 from system-config.ini
    gen_require(
        type http_port_t;
    )
    allow polaris_ioxss_rp_t self:tcp_socket { bind create listen setopt };
coreneth_pub_create_http_port(polaris_ioxss_rp_t);
allow polaris_ioxss_rp_t node_t:tcp_socket node_bind;

# allow polaris caf to process signal of dhcpc client
allow polaris_caf_t dhcp_t:process signal;

# allow secure storage server to connect through socket
allow polaris_ioxss_rp_t self:socket create_socket_perms;
"

optional_policy(''

# Allow polaris_sort_files_t getattr of container fifo file
gen_require(''
  type polaris_sort_files_t;
  type container_file_t;
')
getattr_fifo_files_pattern(polaris_sort_files_t, container_file_t, container_file_t)
')

# Clear iox handling
container_manage_lib_files(polaris_caf_t)
container_manage_lib_dirs(polaris_caf_t)
container_manage_share_files(polaris_caf_t)
container_manage_share_dirs(polaris_caf_t)
gen_require(''
  type polaris_vs_oper_db_tdldb_t;
  type polaris_tdldb_t;
')
manage_files_pattern(polaris_caf_t, polaris_tdldb_t, polaris_vs_oper_db_tdldb_t)

# allow caf to read systemd unit files
systemd_read_unit_files(polaris_caf_t)

# allow restorecon on iox_alt_hdd_mount_dir
seutil_domtrans_setfiles(polaris_caf_t)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, file, "iox_alt_hdd.dsk")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, dir, "iox_alt_hdd_mount_dir")

allow ifconfig_t polaris_iox_files_t:file { read };
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris confd Policy Rules.</summary>

#######################################
## <summary>
##      Setup /dev/shm/confd directory and file, pid and shared memory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_confd_shm_setup',`
    gen_require(`
        type polaris_confd_shm_t;
        type tmpfs_t;
    ')
    fs_tmpfs_filetrans($1, polaris_confd_shm_t, dir, "confd")
    manage_dirs_pattern($1, tmpfs_t, polaris_confd_shm_t)
    manage_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
    allow $1 polaris_confd_shm_t:file map;
')

#######################################
## <summary>
##      Read /dev/shm/confd_shared_schema shared memory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_confd_shared_schema_read',`
    gen_require(`
        type polaris_confd_shm_t;
        type tmpfs_t;
    ')
    read_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
    allow $1 polaris_confd_shm_t:file map;
')
## <summary>
## Watch confd_shm directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_confd_shared_schema_watch',`
  gen_require(`
    type polaris_confd_shm_t;
  `)
    allow $1 polaris_confd_shm_t:dir watch;
`)

## <summary>
## Read /proc/cond_pid/exe file. Few dmi utilities do that by
## some reason. Look at handle_confd_pid_available.
## Read files and symlinks under /dev/shm/confd.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_confd_read',`
  gen_require(`
    type polaris_confd_t;
  `)
    read_files_pattern($1, polaris_confd_t, polaris_confd_t)
    read_lnk_files_pattern($1, polaris_confd_t, polaris_confd_t)
`)

## <summary>
## Create /var/log/ndbutil directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_confd_ndbutil_create',`
gen_require(`
    type polaris_confd_ndbutil_lock_t;
`)
files_lock_filetrans($1, polaris_confd_ndbutil_lock_t, dir, "nbdutil")
files_create_lock_dirs($1)
manage_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
create_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
`)

########################################
## <summary>
##	Creates types for and rules for ndbutils files under /var/lock/nbdutil
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##
## </summary>
## </param>
## <param name="stem">
##	<summary>
##	Stem for the domain. Name is constructed as polaris_stem_nbdutil_t
##
## </summary>
## </param>
## <param name="name" optional="true">
##	<summary>
##	The name of the object being created.
##
## </summary>
## </param>
#
template('polaris_nbdutil_lock_template',`
gen_require(`
    type polaris_confd_ndbutil_lock_t;
`)
type polaris_$2_nbdutil_t;
files_type(polaris_$2_nbdutil_t)
filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_nbdutil_t, file, $3)
manage_files_pattern($1, polaris_confd_nbdutil_lock_t, polaris_$2_nbdutil_t)
allow $1 polaris_$2_nbdutil_t:file { watch watch_reads };
`)

########################################
## <summary>
##	Execute a domain transition to run mmap_schema polaris process.
## </summary>
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
# interface('polaris_mmap_schema_domtrans',
    gen_require(
        type polaris_mmap_schema_t, polaris_mmap_schema_exec_t;
    ')
)

domtrans_pattern($1, polaris_mmap_schema_exec_t, polaris_mmap_schema_t)
')

#############################################################################
## <summary>
## Execute a domain transition to run confd polaris process.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_confd_domtrans',
    gen_require(
        type polaris_confd_t, polaris_confd_exec_t;
    ')
)

domtrans_pattern($1, polaris_confd_exec_t, polaris_confd_t)
')

#############################################################################
## <summary>
## Read confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by dmiaudthd to convert confd logs to btrace.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_confd_log_read',
    gen_require(
        type polaris_confd_var_t;
    ')
)
read_files_pattern($1, polaris_conf_var_t, polaris_conf_var_t)
')

#######################################
## <summary>
## Manage confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by pman to rotate logs into /bootflash/tracelogs.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_conf_log_manage',
#     gen_require(
#         type polaris_conf_var_t;
#     )
#     manage_files_pattern($1, polaris_conf_var_t, polaris_conf_var_t)
# )

#######################################
## <summary>
## Execute dmi_ports_fetch in the caller domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('confd_exec_dmi_ports_fetch',
#     gen_require(
#         type polaris_dmi_ports_fetch_exec_t;
#     )
#     corecmd_search_bin($1)
#     can_exec($1, polaris_dmi_ports_fetch_exec_t)
# )

#######################################
## <summary>
## Manage confd /var/log files (i.e /var/log/confd)
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
interface('polaris_confd_var_log_manage',
    gen_require(
        type polaris_confd_var_log_t;
    )
    logging_log_filetrans($1, polaris_confd_var_log_t, dir, "confd")
    manage_dirs_pattern($1, var_log_t, polaris_confd_var_log_t)
    manage_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
)

interface('polaris_confd_var_log_read',
    gen_require(
        type polaris_confd_var_log_t;
    )
    list_dirs_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
    read_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
)

interface('polaris_confd_tmp_use_fifo',
    gen_require(
        type polaris_confd_tmp_t;
    )
    read_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
write_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
')

#############################################
## <summary>
## Write into file created by confd, to deal with cases
## confd starts script under popen in different domain and
## file descriptor leaks into another domain. Since we cannot
## modify confd to use O_CLOEXEC
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_confd_tmp_use`,
  gen_require(`
  type polaris_confd_tmp_t;
  `)
  read_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
  write_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
')

#############################################
## <summary>
## Provide access for file operations under /etc/ dir.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_confd_etc_read`,
  gen_require(`
  type polaris_confd_etc_t;
  `)
  read_files_pattern($1, polaris_confd_etc_t, polaris_confd_etc_t)
')

#############################################
## Create an object in the /var directory under
## polaris_confd_var_t label.
```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')

#############################################################

interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')

#############################################################
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```

```c
interface('polaris_confd_var_filetrans',
    gen_require('type polaris_confd_var_t;
    ')

    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
')
```

```c
interface('polaris_confd_var_dir_manage',
    gen_require('type polaris_confd_var_t;
    ')

    manage(dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
')
```
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_admin_tech_domtrans',
    gen_require('    type polaris_admin_tech_t, polaris_admin_tech_exec_t;
    ')
)

domtrans_pattern($1, polaris_admin_tech_exec_t, polaris_admin_tech_t)
')

########################################################################
## <summary>
## Read admin_tech files created under bootflash
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_admin_tech_data_read',
    gen_require('    type polaris_admin_tech_data_t;
    ')
    read_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
')

########################################################################
## <summary>
## Manage admin_tech files created under bootflash
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_admin_tech_data_manage',
    gen_require('    type polaris_admin_tech_data_t;
    ')
    manage_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_link_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_dirs_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
allow $1 polaris_admin_tech_data_t:file watch;
')

########################################
## <summary>
## Allow domain to be started by confd with
## transition into specific service domain.
## </summary>
## <param name="domain">
## Type to be used to run utility.
## </param>
## <summary>
## Type of the program to be used as an entry point to this domain.
## </summary>
## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </param>
interface(`polaris_confd_domain',
    gen_require(`
       domtrans_pattern(polaris_confd_t, $2, $1)
    ')
)

domtrans_pattern(polaris_confd_t, $2, $1)
')

########################################
## <summary>
## Manage confd_cli files under /tmp/confd_cli.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
# interface(`polaris_confd_cli_tmp_manage',
  gen_require(`
     manage_files_pattern($1, polaris_confd_cli_tmp_t, polaris_confd_cli_tmp_t)
  ')
)

########################################
## <summary>
## Manage vconfd files under /tmp/vconfd.
## </summary>
## <param name="domain">
## 

```
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_vconfd_tmp_manage',
  gen_require(
    type polaris_vconfd_tmp_t;
  ')
  manage_dirs_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
  manage_files_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
')

#######################################
## <summary>
##      Connect to confd port. Should be used only by utility
## domains that do not have TDL entry. Processes with TDL entries
## just need to register as confd pseudo service clients.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_confd_connect',
  polaris_ripc_confd_ipc_connect($1)
')

#######################################
## <summary>
##      Use unix stream socket created by confd as standard I/O
## descriptors. Need to look more, because so far it triggers only
## getattr, append and ioctl permissions. If it would be real standard I/O
## it would needed read and write as well.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_confd_unix_stream_stdio_use',
  gen_require(
    type polaris_confd_t;
  ')
  allow $1 polaris_confd_t:unix_stream_socket { append getattr ioctl }
')
```
### <summary>

Creates types and rules for a script that is started by confd process.
</summary>

### <param name="stem">

Stem for the domain. Name is constructed as polaris_stem_t
</param>

```
template('polaris_vconfd_domain_template',
  polaris_utility_domain_template($1)
  polaris_confd_domain(polaris_$1_t, polaris_$1_exec_t)

  # access /etc/passwd
  auth_use_nsswitch(polaris_$1_t)

  # inherit unix stream as script stdio
  polaris_confd_unix_stream_stdio_use(polaris_$1_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.if

No license file was found, but licenses were detected in source scan.

dnl
April 2018, Victor Kamensky
dnl
Copyright (c) 2018-2019 by Cisco Systems, Inc.
All rights reserved
dnl
divert(-1)

```
include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_fc.m4')

include('polaris_max_scope.m4')
```

divert(0)dnl

```
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
```
policy_module(polarisinstallmgr, 1.0);

gen_require(']
    type polaris_install_mgr_t;
')
polaris_chasfs_manage(polaris_install_mgr_t)
polaris_tdlresolve_read(polaris_install_mgr_t)
polaris_cpdl_read(polaris_install_mgr_t)
polaris_flashlib_read(polaris_install_mgr_t)
polaris_lua_read(polaris_install_mgr_t)

logging_send_syslog_msg(polaris_install_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_install_mgr_t)
polaris_db_tdlldb_dir_use(polaris_install_mgr_t)

# read all files in persisten storage
polaris_persistent_read(polaris_install_mgr_t)

# calls code_verify
polaris_code_verify_domtrans(polaris_install_mgr_t)

# calls mount command
mount_domtrans(polaris_install_mgr_t)

# allow access to gnmib image files
optional_policy(']
polaris_gnmib_gnoi_images_read(polaris_install_mgr_t)
')

# LOOK AT ME: /dev/mem access restriction will be removed after
# CSCvu32649 is fixed using CSCvu32742.
# code_sign_verify accesses /dev/mem: class=chr_file, {read, open, map}
# to read the codesign key in storage
# side effects: execute is also allowed
gen_require('  
    type polaris_code_verify_t;  
    type polaris_nvram_file_t;  
');
dev_rx_raw_memory(polaris_code_verify_t)

# read access to /bootflash/nvram_config on CLI "install remove inactivate"
read_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)
getattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and getattr access of capsule-upgrade.log file
polaris_capsule_upgrade_log_use(polaris_code_verify_t)

# calls install_mgr_helper_api.sh
corecmd_exec_bin(polaris_install_mgr_t)
corecmd_exec_shell(polaris_install_mgr_t)
auth_use_nsswitch(polaris_install_mgr_t)

# /tmp/sw/inst_tmp_x handling
type polaris_install_mgr_tmp_t;
files_tmp_file(polaris_install_mgr_tmp_t)
gen_require('  
    type tmp_t;  
');
manage_dirs_pattern(polaris_install_mgr_t, tmp_t, polaris_install_mgr_tmp_t)
manage_dirs_pattern(polaris_install_mgr_t, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_1")
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_2")

# writes into /bootflash/installer/watchlist
polaris_disk_install_manage(polaris_install_mgr_t)

# install_mgr_monitor.c:add_prior_watches
polaris_persistent_watch(polaris_install_mgr_t)

# watch over /tmp/patch
polaris_patch_data_watch(polaris_install_mgr_t)

polaris_repm_peer_mqipc_manage(polaris_install_mgr_t)

# watches over /tmp for /tmp/booted appearence in
# init_operation_mgmt_watches function
gen_require('  
    type tmp_t;  
');
allow polaris_install_mgr_t tmp_t:dir watch;

allow polaris_install_mgr_t self:capability sys_resource;
#install_mgr writes into /bootflash/.installer/watchlist and watches /bootflash/inot_fifo
polaris_install_disk_manage(polaris_install_mgr_t)

#install_mgr does search and get attribute operation on /tftp directory
gen_require(
    type tftpdir_rw_t;
  )
allow polaris_install_mgr_t tftpdir_rw_t:dir { getattr search };

# allow read access to iso9600
fs_read_iso9660_files(polaris_install_mgr_t)

# accesses /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_install_mgr_t)

# creates files under /tmp/pkg_cs_debug through install_helper
# and verify_pkg shell function from common
polaris_pkg_cs_debug_manage(polaris_install_mgr_t)

# for pluggable FS, allow the install manager to access files on them (it needs read and
# write access).
gen_require(
    type removable_t;
  )
allow polaris_install_mgr_t removable_t:dir { getattr open read search watch };
allow polaris_install_mgr_t removable_t:file { getattr open read };
allow polaris_install_mgr_t removable_t:lnk_file read;

#install_mgr to stat caf files in /vol/harddisk/caf, /bootflash/caf, etc.
polaris_caf_tmp_files_read(polaris_install_mgr_t)

# install manager Cleanup related to inotify watches, Basically frees malloced memory
gen_require(
    type root_t;
  )
allow polaris_install_mgr_t root_t:dir watch;

# install manager access to /guestshell
polaris_guestshell_files_read(polaris_install_mgr_t)

# install manager access to /lib/systemd/systemd
polaris_init_access_check(polaris_install_mgr_t)

# install manager reads dcmlog.txt
optional_policy(
    gen_require(
        type polaris_fed_debug_dcmlog_t;
    )
read_files_pattern(polaris_install_mgr_t, polaris_fed_debug_dcmlog_t, polaris_fed_debug_dcmlog_t)

# install manager reads /firmware
polaris_firmware_read(polaris_install_mgr_t)

# install manager reads /guestshell
gen_require(
    type polaris_guestshell_t;
)
getattr_dirs_pattern(polaris_install_mgr_t, polaris_guestshell_t, polaris_guestshell_t)

# install_manager reads /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_read(polaris_install_mgr_t)

# install_manager writes /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_write(polaris_install_mgr_t)

# install_manager reads /tmp/sw/boot/rmonbifo during auto_upgrade
polaris_rmonbifo_tmp_read(polaris_install_mgr_t)

# install_manager reads /tmp/tmppub during auto_upgrade
polaris_btrace_tmppub_read(polaris_install_mgr_t)

# install manager accesses /tmp/rsync_log_dir during auto_upgrade
polaris_manage_rsync_tmplog_dir(polaris_install_mgr_t)

# install manager invokes mcp_chvrf.sh for rsync operations during auto_upgrade
polaris_chvrf_domtrans(polaris_install_mgr_t)

polaris_bexecute_domtrans(polaris_install_mgr_t)

ifdef(`ngwc_family',
    # install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
    polaris_autoupgrade_domtrans(polaris_install_mgr_t)
)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)

')

ifdef(`mcp_family',
    # install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
    polaris_autoupgrade_domtrans(polaris_install_mgr_t)
)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)

')
ifdef(`wlc_family',`

# install mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

# with "/bootflash"...this needs read and attr to access for logfile
polaris_read_user_file(polaris_install_mgr_t)
polaris_user_file_getattr(polaris_install_mgr_t)

# auto upgrade server bind operation when install manager initialize auto upgrade server
corenets_tcp_bind_polaris_autoupgrade_port(polaris_install_mgr_t)

# access to /tmp/etc
polaris_etc_list(polaris_install_mgr_t)

# read access to /tmp/etc/installer
polaris_install_tmp_read(polaris_install_mgr_t)
polaris_script_errmsg_use(polaris_install_mgr_t)

# install mgr calls install_abort.sh on rollback timer expiry
polaris_install_engine_domtrans(polaris_install_mgr_t)

#/tmp/ufs/crashinfo access
optional_policy(`
polaris_ncd_tmp_read(polaris_install_mgr_t)
')

# read/write to /bootflash/rollback_timer/install_abort_time
polaris_rbtimer_bootflash_manage(polaris_install_mgr_t)

allow polaris_install_mgr_t self:process setpgid;

optional_policy(`
    polaris_efi_files_list_dirs(polaris_install_mgr_t)
')

# walk all files on "install issu activate" and "install remove inactivate" CLI
files_read_all_files(polaris_install_mgr_t)

# install mgr file descriptor leaks into mcp_chvrf.sh for rsync operation
gen_require(`
    type polaris_chvrf_t;
')

allow polaris_chvrf_t polaris_install_mgr_t:file read;
policy_module(polarisconfd, 1.0);

# confd-startup.sh calls confd_cmd to get_phase and other cases
# that utilities under confd label connects to confd
polaris_ripc_confd_ipc_connect(polaris_confd_t)

#confd needs communicate over HTTP
corenets_tcp_bind_http_port(polaris_confd_t)

# commplex_main (port 5000) is used by apache
corenets_udp_bind_commplex_main_port(polaris_confd_t)

corenets_tcp_bind_generic_node(polaris_confd_t)
allow polaris_confd_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write };

corenets_udp_bind_generic_node(polaris_confd_t)
allow polaris_confd_t self:udp_socket { bind connect create getattr getopt setopt };
corenets_udp_bind_polaris_confd_snmp_traps_port(polaris_confd_t)

logging_send_syslog_msg(polaris_confd_t)

polaris_chasfs_manage(polaris_confd_t)
polaris_btrace_data_manage(polaris_confd_t)
polaris_cpld_read(polaris_confd_t)
polaris_boot_tmp_read(polaris_confd_t)
polaris_rmonbifo_tmp_read(polaris_confd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_confd_t)

# confd-startup.sh process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_confd_t)
corecmd_exec_bin(polaris_confd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_confd_t)

# confdexec needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_confd_t)

allow polaris_confd_t self:capability { net_admin sys_resource };

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_confd_t)

# allow read permissions for /var/run/netns/8
fs_read_nfs_files(polaris_confd_t)

# work with /var/confd0/ files
type polaris_confd_var_t;
files_tmp_file(polaris_confd_var_t)
polaris_confd_var_filetrans(polaris_confd_t, dir, "confd0")
manage_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_link_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_dirs_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)

# erlang calls efile_fileinfo function (.erts/emulator/drivers/unix/unix_efile.c)
# root directory. Inside of the function code calls 'access' function that check
# access permission for R_OK and W_OK. W_OK triggers denial warning. Instead of
# granting access let's mark it as dontaudit. Erlang will be fine with this
files_dontaudit_write_root_dirs(polaris_confd_t)

# deals with /dev/shm/confd files (shared memory and pid)
type polaris_confd_shm_t;
files_tmpfs_file(polaris_confd_shm_t)

# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFDFXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

# confd mmap_schema utility runs from systemd unit under polaris_confd_t label
polars_confd_shm_setup(polaris_confd_t)
# create ndbutil directory under /var/lock
polars_confd_ndbutil_create(polaris_confd_t)
# Allow access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_confd_t)

optional_policy(
  # confd-startup.sh on nyquist makes ls /tmp/ufs/crashinfo
  polaris_ncd_tmp_read(polaris_confd_t)
)

# confd-startup.sh reads /proc/cmdline
kernel_read_system_state(polaris_confd_t)

# LOOK AT ME allow mapping of low addresses, that could be exploited
# need to understand why; unfortunately confd symbols are not decodable
# need to ask tail-f guys
ifdef(`tsn_platform',
  domain_mmap_low_uncond(polaris_confd_t)
)gen_require(
  type polaris_confd_cli_t;
)
domain_mmap_low_uncond(polaris_confd_cli_t)
)
ifdef(`quake_platform',
  domain_mmap_low_uncond(polaris_confd_t)
)   
  polaris_mmap_schema_domaintrans(polaris_confd_t)
)

# mmap_schema process policy
gen_require(
  type polaris_mmap_schema_t;
)
polaris_btrace_data_manage(polaris_mmap_schema_t)
polaris_chasfs_read(polaris_mmap_schema_t)
polaris_cpld_read(polaris_mmap_schema_t)
polaris_flashlib_read(polaris_mmap_schema_t)
polaris_db_tdlldb_dir_use(polaris_mmap_schema_t)
polaris_confd_ndbutil_create(polaris_mmap_schema_t)
polaris_confd_shm_setup(polaris_mmap_schema_t)

# connects to confg mmap_schema is not TDL process, let
# grant explicit permission to access corresponding port
polaris_ripc_confd_ipc_connect(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:tcp_socket { connect create setopt };
polaris_socketat_nsfs_read(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:capability dac_override;

polaris_tdlresolve_read(polaris_mmap_schema_t)
polaris_confd_read(polaris_mmap_schema_t)
polaris_ndbmand_ndbutil_manage(polaris_mmap_schema_t)

optional_policy(
  polaris_gnmib_ndbutil_lock(polaris_mmap_schema_t, ".l.schema_use.gnmib")
)

type polaris_confd_tmp_t;
files_tmp_file(polaris_confd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_confd_tmp_t, dir, ".confd")
files_tmp_filetrans(polaris_confd_tmp_t, dir, ".confd")
manage_files_pattern(polaris_confd_tmp_t, tmp_t, polaris_confd_tmp_t)
manage_fifo_files_pattern(polaris_confd_tmp_t, tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_confd_tmp_t, tmp_t, polaris_confd_tmp_t)

# posix_pathconf called from get_tmpdir calls starvfs over /tmp
fs_getattr_tmpfs(polaris_confd_t)

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confd_t)
confd_exec_dmi_ports_fetch(polaris_confd_t)

# confd-startup script reads /tmp/dmi.ds_config if it exists
polaris_psd_tmp_read(polaris_confd_t)

# vip-confd-startup.sh related
# figure out BOOT_ROLE in install_util.sh
polaris_read_packages_conf(polaris_confd_t)
# touch /bootflash/sdwan/day0_oper.xml
allow polaris_confd_t self:capability dac_override;
polaris_bootflash_manage(polaris_confd_t)
# /usr/bin/sw synccdb call uuidgen
dev_read_rand(polaris_confd_t)

polaris_dmiauthd_tmp_manage(polaris_confd_t)

# PLEASE LOOK AT ME: overloaded use of /bootflash/.installer and
# /bootflash/.sdwaninstaller directories. In controller mode cedge code loopback
# mounts /bootflash/.sdwaninstallerfs file onto /bootflash/sdwaninstaller and
# creates /bootflash/.installer symbolic link to it. As result effective
# /bootflash/.installer carries two meaning: used by polaris install infra for
# regular install operations, and keep persistent state in controller mode. For
# now /bootflash/.sdwaninstallerfs was forced to be mounted with
# polaris_disk_install_t label, so installer policy would be happy, but confd
# writes into it through /var/confd0 which is symbolic link to
# /bootflash/installer/images/pkg_boot_17.3.01/confd0 that means we need to
# grant polaris_disk_install_manage to confd which is not good thing.
# It would be much better if two different directories would be used.
polaris_disk_install_manage(polaris_confd_t)

# /var/log/confd handling
type polaris_confd_var_log_t;
logging_log_file(polaris_confd_var_log_t)
polaris_confd_var_log_manage(polaris_confd_t)

# /etc/version handling
type polaris_confd_etc_t;
files_config_file(polaris_confd_etc_t)
files_etc_filetrans(polaris_confd_t, polaris_confd_etc_t, file, "version")
gen_require('"
     type etc_t;
  ')
manage_files_pattern(polaris_confd_t, etc_t, polaris_confd_etc_t)

# "/usr/bin/sw synccdb" calls "confd_cmd -p 3010 -o -c "delete /software""
# that invokes /usr/binos/conf/install_assist.sh
polaris_install_engine_domtrans(polaris_confd_t)

# confd calls /usr/bin/sw that creates temp files in /tmp/cedge_sw_log
# since it runs under same domain make sure that cedge_sw_log gets
# right label
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, dir, "cedge_sw_log")

# /tmp/confd_booted created by vip-confd-start
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, file, "cedge_booted")

# runs flashutils to read rommon variables
polaris_flashlib_read(polaris_confd_t)

allow polaris_confd_t self:capability fowner;

optional_policy(''
# work with /tmp/econfd2sysmgr-ipc
polaris_econfd2sysmgr_tmp_manage(polaris_confd_t)
')

# confdexec calls dmidecode to get bios-vendor
dmidecode_domtrans(polaris_confd_t)

optional_policy(''
# polaris_sw.sh called in confd context accesses
# /etc/viptela/controller_version
polaris_cedge_etc_manage(polaris_confd_t)
'

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle
# through TDL pseudo services, that one it not
corenets_tcp_connect_polaris_confd_maapi_port(polaris_confd_t)

# confd starts cmdptywrapper utility through erl_child_setup
# that allocates free pty device using operations on /dev/ptms
allow polaris_confd_t self:capability { fsetid setgid };
term_getattr_pty_fs(polaris_confd_t)
term_setattr_generic_ptys(polaris_confd_t)
term_use_generic_ptys(polaris_confd_t)
term_use_ptmx(polaris_confd_t)

# uses nice utility to start misc scripts
allow polaris_confd_t self:process setsched;

# allow netconf_callhome to execute ncsshd under ncsshd domain
polaris_nccsshd_mgmt_domtrans(polaris_confd_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket
polaris_dmi_dmiauthd_dgram_send(polaris_confd_t)

# the default port for NETCONF Call Home (SSH) is 4334,
# and it is configurable by users
corenets_tcp_connect_all_ports(polaris_confd_t)
# by default the port is selected by system, and it is configurable by users
corenets_tcp_bind_generic_port(polaris_confd_t)
# netconf_callhome may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_confd_t)

# cmdwrapper utility that started by confd calls xstat
allow polaris_confd_t self:capability setuid;

# label for /tmp/vconfd temporary files created by binos/viptela/vconfd/*_sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh
type polaris_vconfdtmpl_t;
filestmpl_file(polaris_vconfdtmpl_t)
# confd writes /tmp/vconfd/USID.XXX and /tmp/vconfd/THANDLE.YYY files
polaris_vconfdtmpl_manage(polaris_confd_t)

# label for /tmp/confd_cli temporary files created by execute_confnd_cli.sh
type polaris_confndclitmpl_t;
filestmpl_file(polaris_confndclitmpl_t)

# execute_confnd_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans({ polaris_conf_t polaris_conf_cli_t, polaris_conf_cli_tmp_t, dir, "confd_cli"})

# execute_confld_cli.sh script policy
polaris_utility_domain_template(confd_cli)
polaris_bexecute_domain(polaris_conf_cli_t, polaris_conf_cli_exec_t)

polaris_chasfs_read(polaris_conf_cli_t)
corecmd_exec_shell(polaris_conf_cli_t)
corecmd_exec_bin(polaris_conf_cli_t)
auth_use_nsswitch(polaris_conf_cli_t)
# execute_confd_cli.sh script policy
fs_getattr_tmpfs(polaris_conf_cli_t)

polaris_conf_cli_tmp_manage(polaris_conf_cli_t)
polaris_vconfd_tmp_manage(polaris_conf_cli_t)
telnet_use_ptys(polaris_confcli_t)
polaris_ripc_confd_ipc_connect(polaris_confcli_t)

polaris_bootflash_read(polaris_confcli_t)

# execute_confld_cli.sh writes to "pipe:[24719894]"
# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# allow polaris_confcli_t polaris_dmi_ncshhd_fwd_t:tcp_socket ioctl;
polaris_dmi_ncshhd_fwd_use_fifo(polaris_confcli_t)
# due to "/bin/sh /usr/binos/conf/mcp_chvrft.sh eobe
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
# admin-tech launches "ps" via scripts
# admin-tech : scripts in binos/viptela/vconfd/*admin_tech*.sh
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"
# admin-tech launches "ps" via scripts
polaris_vconfd_domain_template(admin_tech)

# /bin/bash /usr/binos/conf/bshell.sh -S -c
# show platform hardware qfp active infrastructure shared-memory
# process cpp-control-pro....
polaris_bexecute_domtrans(polaris_admin_tech_t)

# admin-tech launches "ps" via scripts
domain_read_all_domains_state(polaris_admin_tech_t)

# See tracelogs accessed by vconfd_script_polaris_admin_tech_child.sh
polaris_btrace_data_manage_all(polaris_admin_tech_t)

# various utilities like "find", "memaudit", etc needs this
files_getattr_all_files(polaris_admin_tech_t)
files_getattr_all_dirs(polaris_admin_tech_t)
fs_getattr_all_fs(polaris_admin_tech_t)
files_read_all_files(polaris_admin_tech_t)

# '/bin/bash /usr/bin/memaudit' needs access to /proc/kmsg, /proc/mdstat, etc
dev_getattr_mtrr_dev(polaris_admin_tech_t)
kernel_read_all_proc(polaris_admin_tech_t)
dev_getattr_loop_control(polaris_admin_tech_t)

# infra/memaudit/memaudit uses dmesg
dmesg_domtrans(polaris_admin_tech_t)
gen_require(
    type dmesg_t;
')
polaris_confd_unix_stream_stdio_use(dmesg_t)

# infra/memaudit/memaudit uses mount
mount_domtrans(polaris_admin_tech_t)

# infra/memaudit/memaudit uses fdisk
fstools_domtrans(polaris_admin_tech_t)
polaris_nvram_read(polaris_admin_tech_t)
polaris_nvram_getattr(polaris_admin_tech_t)

# infra/memaudit/memaudit writes to /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_admin_tech_t)

# memaudit and smap needs 'getattr', 'search' on sysctl_irq_t:dir
kernel_read_irq_sysctls(polaris_admin_tech_t)

# du -b -s /tmp/cc /tmp/rp /tmp/fp
files_getattr_all_sockets(polaris_admin_tech_t)
files_getattr_all_pipes(polaris_admin_tech_t)

# df -Th -BM needs access to /run/netns/2
fs_getattr_nsfs_files(polaris_admin_tech_t)

# ls /tmp/ufs/harddisk
# maapi --clicmd --get-io --no-hidden show configuration commit list
corecmd_exec_bin(polaris_admin_tech_t)

# bash vconfd_script_admin_tech.sh -u root -c cli executes:
# 1. map on /etc/passwd
auth_map_passwd(polaris_admin_tech_t)
# 2. hostname
hostname_exec(polaris_admin_tech_t)
# 3. journalectl
journalctl_domtrans(polaris_admin_tech_t)

# journalctl writes to /tmp/vm4-bootuplog-20200903-175223-UTC.log
# see vconfd_script_polaris_admin_tech_child.sh

gen_require(
  type journalctl_t;
)

manage_files_pattern(journalctl_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)
polaris_confd_unix_stream_stdio_use(journalctl_t)

# admin_tech reads /tmp/chassis/cpld/chasfs/board_vtype on crankshaft(sdwan)
polaris_chasfs_read(polaris_admin_tech_t)

# find -H /misc/scratch -name MEMORY_LOG_*_.text
# memaudit writes to /bootflash/MEMORY_LOG_2020-07-28-01:32:11.text
# We also have 'mv -Z /bootflash/admintech /var/tech/ios'
# admin_tech watches /tmp/chassis/local/rp/chasfs/etc/ios_admintech_done

type polaris_admin_tech_data_t;
polaris_disk_type(polaris_admin_tech_data_t)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, dir)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, file)
polaris_admin_tech_data_manage(polaris_admin_tech_t)

# sdwan_tech support.sh -o /var/tech/binos; work with /var/tech/ files

type polaris_admin_tech_var_t;
files_tmp_file(polaris_admin_tech_var_t)
files_var_filetrans(polaris_admin_tech_t, polaris_admin_tech_var_t, dir, "tech")

manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)
manage_dirs_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)

# vconfd_script_polaris_admin_tech.sh invokes vlog "Requested admin-tech initiated."
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket of type polaris_admin_tech_t
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_admin_tech_t)

# maapi --cliget paginate: this performs connect to confd socket
polaris_ripc_confd_ipc_connect(polaris_admin_tech_t)

# reads /tmp/chassis/cpld/chasfs/board_vtype
# on c8kv cpld is at /sys/bus/platform/devices/cpld which has sysfs_t LABEL
polaris_cpld_read(polaris_admin_tech_t)

# handle various files created under /tmp

type polaris_admin_tech_tmp_t;
files_tmp_file(polaris_admin_tech_tmp_t)
files_tmp_filetrans(polaris_admin_tech_t, polaris_admin_tech_tmp_t, file)
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)

# As part of admin-tech generation on cEdges, vconfd_script_polaris_admin_tech.sh
# invokes vconfd_script_polaris_admin_tech_child.sh which in turn invokes the
# script sdwan_tech_support.sh. The sdwan_tech_support.sh passes the file
# /tmp/sdwan_tech_support_command_file_out.txt to a bshell instance. The bshell
# instance does open operation on the file. So bshell needs open allow
# policy for /tmp/sdwan_tech_support_command_file_out.txt
gen_require(
    type polaris_bshell_t;
)
allow polaris_bshell_t polaris_admin_tech_tmp_t:file open;

# maapi needs this.
allow polaris_admin_tech_t self:tcp_socket { getopt setopt create connect read write };

# tar --ignore-failed-read -czf /home/vmanage-admin/vm4-20200903-055157-admin-tech.tar.gz
# /tmp/fp/trace/cpp_cp_F0-0_TAN.20041_0.20
allow polaris_admin_tech_t self:capability dac_override;

# awk /^
Shared/ {v += $2} END { print v} /proc/6384/smaps
allow polaris_admin_tech_t self:capability sys_ptrace;

# 'top -n1 -b' creates /.config dir
# TODO/LOOKATME: selinux team to review handling of this issue in a
# common way for invoking top
allow polaris_admin_tech_t root_t:dir create;

# “show installerfs” is invoked by vconfd_script_admin_tech_common.sh
# this invokes vconfd_script_show_installerfs.sh via confd
# let's execute this under install_show domain
polaris_install_show_domtrans(polaris_confd_t)

# create_bootflash_snapshot() performs 'ls -l /bootflash/.installer'
polaris_disk_install_read(polaris_admin_tech_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_tech_t self:process setfscreate;

# rm -rf $collated_ra   (collated_log_*)

#Nutella-XE - Vedge image install
#/bin/sh /tmp/sw/rp/0/0/rp_security/mount/bin/sw synccdb
#mount -t vfat /dev/mmcblk0gp0p1 /gpp
mount_domtrans(polaris_confd_t)
#df /bootflash
fstools_domtrans(polaris_confd_t)

#Nutella-XE - Vedge image activate
#/usr/bin/os/bin/flashutil --command unsetvar --name MIG_INT_STATE
polaris_flashlib_write(polaris_confd_t)

# permit comm="ps" to "getattr" on dev="devtmpfs" for polaris_admin_tech_t
term_getattr_unallocated_tty(polaris_admin_tech_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_tech_t)

# permit to access/unlink /bootflash by polaris_admin_tech_t
polaris_bootflash_manage(polaris_admin_tech_t)

# vconfd_script_admin_tech.sh executes 'top -n1 -b' which creates /.config dir
gen_require(
    type admin_home_t;
')
allow polaris_admin_tech_t admin_home_t:dir { add_name create write }

# vconfd_script_admin_tech.sh sources vconfd_script_cli_session.sh and calls
# start_cli_session() which writes to /tmp/vconfd/USID.XXX,
# /tmp/vconfd/THANDLE.YYY and /tmp/vconfd/start_cli.XXXXXXXXXX
polaris_vconfd_tmp_manage(polaris_admin_tech_t)

# work with "/tmp/fp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_tech_t)

# work with "/tmp/fp/trace/fifo/pvp_sh%fp_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_tech_t)

# access to tunnel interface from snapshot_cdb()
corenet_rw_tun_tap_dev(polaris_confd_t)

# access to /tmp/bootstrap/sdwan/ciscosdwan_cloud_init.cfg
init_read_script_tmp_files(polaris_confd_t)

# "vconfd_notifier security-clear-installed-cert" reads
#/var/run/netns/default which is symlinked to /proc/1/ns/net
polaris_cedge_reset_ns(polaris_confd_t)

# allow /usr/bin/os/conf/execute_confd_cli.sh to access polaris_disk_install_t
polaris_disk_install_read(polaris_confd_cli_t)

# vconfd script ends up cleaning core files, most likely its
# vconfd_script_polaris_admin_tech_child.sh, so it needs read/write
# permission to polaris_core_file_t files.
polaris_core_file_manage(polaris_admin_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.te
No license file was found, but licenses were detected in source scan.

#
# OWNERS - Code Ownership
#
# For information on the purpose and format of this file see:
#
# Copyright (c) 2019-2021 by Cisco Systems, Inc.
# All rights reserved.
#
#
* @csg/polaris-selinux-dev

#iox team related files
polariscontainer* @csg/polaris-selinux-dev @csg/iox-selinux
polariscaf* @csg/polaris-selinux-dev @csg/iox-selinux
polarisgsdrp* @csg/polaris-selinux-dev @csg/iox-selinux
polarisioxman* @csg/polaris-selinux-dev @csg/iox-selinux
polarisvman* @csg/polaris-selinux-dev @csg/iox-selinux

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/OWNERS
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris lm Policy Rules.</summary>

########################################################################
## <summary>
## Read files of type polaris_lm_tmp_t (e.g., /tmp/iosd_level)
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_lm_tmp_read',
    gen_require(
        type polaris_lm_tmp_t;
    ')
    read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/sellinux/polarismnspd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`polaris_database_aux',
    dnl
########################################
##	Use $2 database.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_db_tldb_$1_use',
    gen_require(
        type $2;
    ')
polaris_tdldb_use(dollarsone, $2, $3)
"
')

define('polaris_database', 'dnl polaris_database_aux(database_stem($1), database_label($1), $1)dnl ')

define('polaris_database_process', '')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_if.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2021 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polarishm, 1.0);

gen_require('  
    type polaris_hm_t;
')

polaris_btrace_data_manage(polaris_hm_t)
polaris_chasfs_manage(polaris_hm_t)
polaris_tdlresolve_read(polaris_hm_t)
polaris_tdlldb_list_dirs(polaris_hm_t)
polaris_cpld_read(polaris_hm_t)
polaris_lua_read(polaris_hm_t)
polaris_flashlib_read(polaris_hm_t)
polaris_ripc_sman_ui_serv_connect(polaris_hm_t)
polaris_db_tdlldb_dir_use(polaris_hm_t)
files_getattr_all_files(polaris_hm_t)
files_getattr_all_dirs(polaris_hm_t)
gen_require('  
    attribute non_security_file_type;
')
allow polaris_hm_t { non_security_file_type }:dir list_dir_perms;

# hman need to read proc for all processes to collect CPU
# utilization information
domain_read_all_domains_state(polaris_hm_t)
domain_signull_all_domains(polaris_hm_t)

domain_read_all_domains_state(polaris_hm_t)

domain_signull_all_domains(polaris_hm_t)

# hman needs to run "df /dev/shm" command
corecmd_exec_bin(polaris_hm_t)
corecmd_exec_shell(polaris_hm_t)

# hman needs to operate on all maroon files
polaris_maroon_data_manage_all(polaris_hm_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_hm_t)

fs_getattr_tmpfs(polaris_hm_t)

# work with /tmp files (/tmp/myhostname)
type polaris_hm_tmp_t;
files_tmp_file(polaris_hm_tmp_t)
manage_files_pattern(polaris_hm_t, tmp_t, polaris_hm_tmp_t)
files_tmp_filetrans(polaris_hm_t, polaris_hm_tmp_t, file, "myhostname")

allow polaris_hm_t self:capability { chown fsetid dac_override kill sys_resource sys_ptrace };;
allow polaris_hm_t self:process setsched;
allow polaris_hm_t self:unix_dgram_socket create;
allow polaris_hm_t self:cap_users { kill sys_ptrace };

polaris_boot_tmp_read(polaris_hm_t)

# Allow write to flash. Needed for usb disable feature
ifdef(`ngwc_family',`
        polaris_flashlib_write(polaris_hm_t)
        `)

# "show platform software mount RP active" command needs attributes of
# all file systems
fs_getattr_all_fs(polaris_hm_t)
# above show command accesses /var/run/netns/2
fs_read_nsfs_files(polaris_hm_t)
# reads /scratch link which is labeled as polaris_disk_bootflash_t
polaris_disk_bootflash_read_link(polaris_hm_t)
polaris_disk_harddisk_read_link(polaris_hm_t)

# needed for "show platform software bound-uds RP active"
kernal_read_network_state(polaris_hm_t)
# "show rom-monitor R0" needs content of /proc/rmonbifo/bootver;
# please refer to hman_ui.tpp file
polaris_proc_rmonbifo_read(polaris_hm_t)

# "show plat soft yang-management process r0" invokes hm_show_yang_proc_cb;
# "show plat soft iox-service" invokes hm_iox_srvc_show_cb;
# They invoke "ps -C" which needs access to /sys/devices/system/cpu/online
# TODO: should we replace system() with something like hm_get_procs_with_name_running
dev_read_sysfs(polaris_hm_t)
# "show platform software yang-management process state" invokes /bin/mcp_pkg_wrap,
# which sources /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_hm_t)
# show iox-service requires reading of libvirt_ver of created under CAF context
optional_policy('polaris_caf_tmp_files_read(polaris_hm_t)')
# hardcoded policy for hm to df, per Victor
optional_policy('gen_require(
    type polaris_iosd_portal_dmi_lipc_t;
    type polaris_iosd_portal_app_lipc_t;
')
    allow polaris_hm_t { polaris_iosd_portal_dmi_lipc_t polaris_iosd_portal_app_lipc_t }:sock_file getattr;
')

# during "show version installed" command
# "grep -q srdriver /tmp/sw/rp/local/0/rp_base/iso" which is link to the universal image
polaris_bootflash_read(polaris_hm_t)
# this is for calcsha.sh (invoked by the command above) but might work for others too
polaris_install_engine_domtrans(polaris_hm_t)
# this if for hman to read and delete /tmp/version.info created by calcsha.sh in prev context type
polaris_install_tmp_read(polaris_hm_t)
gen_require('type polaris_install_tmp_t;
')
allow polaris_hm_t polaris_install_tmp_t:file unlink;

# need open, read on /bootflash/packages.conf (grep sha1sum: /tmp/packages.conf)
polaris_read_packages_conf(polaris_hm_t)

# This is created for hman to grant it access to /bootflash/topnmemuse
polaris_bootflash_manage(polaris_hm_t)

# read /tmp/pkg_summary.txt file
polaris_pkg_summary_tmp_read(polaris_hm_t)

polaris_zram_getattr(polaris_hm_t)
optional_policy(')
polaris_ssd_auth_domtrans(polaris_hm_t)
')

optional_policy(')
polaris_ssdUnmount_domtrans(polaris_hm_t)
')

optional_policy(')
polaris_confd_domtrans(polaris_hm_t)
')

# show platform software process slot R0 monitor
# mcp_monitor_process_batchmode.sh
#/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_monitor_process_batchmode.sh -n 1 -d 3 -l 0
polaris_utility_domain_template(monitor_process)

polaris_bexecute_domtrans(polaris_hm_t)
polaris_bexecute_domain(polaris_monitor_process_t, polaris_monitor_process_exec_t)

# mcp_monitor_process_batchmode.sh calls "top" command
# "top" needs read/getattr access of various files in the system
domain_read_all_domains_state(polaris_monitor_process_t)

# "top" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_process_t)

# "top" need read access to /proc/meminfo, /proc/stat
kernel_read_system_state(polaris_monitor_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_monitor_process_t)

corecmd_exec_bin(polaris_monitor_process_t)

gen_require(')
    type admin_home_t;
')
#top -b -n3 -d3 needs permission to create dir /.config ,write
to files and add files
allow polaris_monitor_process_t admin_home_t:dir { add_name create write };
allow polaris_monitor_process_t self:capability sys_ptrace;
# pkg_summary.sh : show version R0 installed
# /bin/bash /usr/bin/os/conf/pkg_summary.sh -o /tmp/pkg_summary.txt -d model -P

polaris_utility_domain_template(pkg_summary)
polaris_pkg_summary_domtrans(polaris_hm_t)

# it executes find /tmp/sw -maxdepth 5 -mindepth 5 -name mount
files_getattr_all_dirs(polaris_pkg_summary_t)
files_getattr_all_files(polaris_pkg_summary_t)
files_read_all_dirs_except(polaris_pkg_summary_t)
polaris_chasfs_read(polaris_pkg_summary_t)
polaris_cpld_read(polaris_pkg_summary_t)
polaris_use_btrace_fifo(polaris_pkg_summary_t)
polaris_rmonbifo_tmp_read(polaris_pkg_summary_t)
polaris_btrace_data_manage(polaris_pkg_summary_t)
polaris_boot_tmp_read(polaris_pkg_summary_t)

# need open, read on /bootflash/debug.conf
polaris_read_debug_conf(polaris_pkg_summary_t)
polaris_read_packages_conf(polaris_pkg_summary_t)
allow polaris_pkg_summary_t self:capability sys_resource;
corecmd_exec_bin(polaris_pkg_summary_t)
auth_use_nsswitch(polaris_pkg_summary_t)
polaris_disk_crashinfo_getattr(polaris_pkg_summary_t)

# read /proc/cmdline
kernel_read_system_state(polaris_pkg_summary_t)

# handle /tmp/pkg_summary.txt file
type polaris_pkg_summary_tmp_t;
files_tmp_file(polaris_pkg_summary_tmp_t)
files_tmp_filetrans(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, file)
manage_files_pattern(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)
pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/binos/conf/pkg_to_tree.sh -c /tmp/packages.conf
#           -t /tmp/show_patch_provision_temp -p /tmp/sw/isos
#           -r /tmp/show_provision_temp -a -q

polaris_utility_domain_template(pkg_to_tree)

gen_require(')
type unconfined_service_t;
  )
polaris_pkg_to_tree_domtrans({unconfined_service_t polaris_hm_t})

files_getattr_all_files(polaris_pkg_to_tree_t)
polaris_harddisk_read(polaris_pkg_to_tree_t)
polaris_cpld_read(polaris_pkg_to_tree_t)
polaris_use_btrace_fifo(polaris_pkg_to_tree_t)
polaris_rmonbifo_tmp_read(polaris_pkg_to_tree_t)
polaris_btrace_data_manage(polaris_pkg_to_tree_t)
polaris_boot_tmp_read(polaris_pkg_to_tree_t)
polaris_patch_data_manage(polaris_pkg_to_tree_t)

# if being executed on other node, telnet /dev/ptsN might be used
# as stdin/stdout
telnet_use_ptys(polaris_pkg_to_tree_t)

# pkg_to_tree.sh creates/deletes directories and files under
# /tmp/show_provision_temp
type polaris_show_provision_temp_t;
files_tmp_file(polaris_show_provision_temp_t)
polaris_show_provision_temp_manage(polaris_pkg_to_tree_t)

# pkg_to_tree.sh verifies each package as it is mounted
polaris_code_verify_domtrans(polaris_pkg_to_tree_t)
corecmd_exec_bin(polaris_pkg_to_tree_t)
polaris_disk_crashinfo_getattr(polaris_pkg_to_tree_t)

# manage the /tmp/if symbolic link
type polaris_pkg_to_tree_tmp_t;
files_tmp_file(polaris_pkg_to_tree_tmp_t)
files_tmp_filetrans(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, lnk_file, "lf")
manage_lnk_files_pattern(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, polaris_pkg_to_tree_tmp_t)

# permit pkg_to_tree.sh mounting to use conf/pkg files in bootflash
polaris_bootflash_read(polaris_pkg_to_tree_t)
polaris_disk_bootflash_search(polaris_pkg_to_tree_t)
# we want to read the existing mounts in chasfs
polaris_chasfs_read(polaris_pkg_to_tree_t)

# pkg_to_tree.sh interfaces with installer data, including ISSU files
polaris_install_tmp_log_write(polaris_pkg_to_tree_t)
polaris_sw_data_manage(polaris_pkg_to_tree_t)
polaris_read_packages_conf(polaris_pkg_to_tree_t)
polaris_issu_tmp_files_manage(polaris_pkg_to_tree_t)
polaris_install_tmp_manage(polaris_pkg_to_tree_t)

# allow pkg_to_tree.sh to do the loopback mounts of packages and manage
# mount links in tmp. This includes mapping mounted passwd file and
# mounting sysfs. This is also needed to mount /mnt/sd3/iox_alt_hdd.dsk
mount_domtrans(polaris_pkg_to_tree_t)
auth_map_passwd(polaris_pkg_to_tree_t)
dev_list_sysfs(polaris_pkg_to_tree_t)
allow polaris_pkg_to_tree_t sysfs_t:file { getattr open read };
allow polaris_pkg_to_tree_t tmp_t:lnk_file { create rename unlink };

# when expanding/installing super images, pkg_to_tree uses install_engine_exec_t
# utilities like issu_check
polaris_install_engine_domtrans(polaris_pkg_to_tree_t)

#misc hman cli(s)

# hman needs access to /bootflash/.issu_loc_lock
polaris_issu_files_manage(polaris_hm_t)

# hman process creates/deletes directories and files under
# /tmp/show_provision_temp
polaris_show_provision_temp_manage(polaris_hm_t)

# signal send during show platform software process slot R0 monitor
polaris_send_signal_to_bexecute(polaris_hm_t)

polaris_dyncfg_tmp_read(polaris_hm_t)
polaris_disk_crashinfo_getattr(polaris_hm_t)

# setting up /dev/ttyS0 speed from hman_handle_console_baud_rate_change
term_use_unallocated_ttys(polaris_hm_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_hm_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris.hm_t)

# hman starts agetty-iosd.service in case of nyquist stack
getty_systemctl(polaris.hm_t)

# This block is policies for "sh pla so filesystem bootflash: de" CLI
polaris_utility_domain_template(cli_fs_cmds)

gen_require(
    type polaris_bexecute_t;
')
polaris_bexecute_domtrans(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_bexecute_t)
telnet_use_ptys(polaris_cli_fs_cmds_t)

# Blanket permission for disk management for cli_fs_cmds (for show/erase fs)
polaris_persistent_manage(polaris_cli_fs_cmds_t)
# permission to manage removable (seems pretty safe)
polaris_removable_manage(polaris_cli_fs_cmds_t)
polaris_getattr_removable(polaris_cli_fs_cmds_t)
fs_read_removable_symlinks(polaris_cli_fs_cmds_t)
# btrace.sh needs these
polaris_boot_tmp_read(polaris_cli_fs_cmds_t)
polaris_btrace_tmppub_read(polaris_cli_fs_cmds_t)
# this is for NFS access mounted in a dir of ncd context
optional_policy(
    polaris_ncd_tmp_read(polaris_cli_fs_cmds_t)
')

# need to access pipes like pipe:[107820]
polaris_hman_use_fifo(polaris_cli_fs_cmds_t)

# df or stat the mount point
fs_getattr_nfs(polaris_cli_fs_cmds_t)
# mkfs permissions via domtrans
fstools_domtrans(polaris_cli_fs_cmds_t)
# runs NFS exportfs (copied from ncd)
rpc_read_exports(polaris_cli_fs_cmds_t)
rpc_write_exports(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data_dir(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data(polaris_cli_fs_cmds_t)
fs_rw_nfsd_fs(polaris_cli_fs_cmds_t)
kernal_rw_rpc_sysctls(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
# rsync/remote_format perms (rsync borrowed from polariscrft.te)
polaris_udev_tmp_list_dirs(polaris_cli_fs_cmds_t)
gen_require("
type rsync_exec_t;
    type rsync_port_t;
    type rsync_tmp_t;
}

allow polaris_cli_fs_cmds_t rsync_port_t:tcp_socket name_connect;
allow polaris_cli_fs_cmds_t rsync_exec_t:file { execute execute_no_trans getattr map open read };

allow polaris_cli_fs_cmds_t rsync_tmp_t:file open;

allow polaris_cli_fs_cmds_t self:capability { chown fsetid setgid };

# Need to access /proc/self/fd/1 by platform_fs_operation.sh which is invoked by
# /bin/bash/usr/binos/conf/mcp_cli_fs_cmds.sh show bootflash:all
fs_associate_proc(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_hm_t)
corecmd_exec_bin(polaris_cli_fs_cmds_t)
polaris_cpld_read(polaris_cli_fs_cmds_t)
polaris_chasfs_manage(polaris_cli_fs_cmds_t)
polaris_use_btrace_fifo(polaris_cli_fs_cmds_t)
polaris_rmonbifo_tmp_read(polaris_cli_fs_cmds_t)

auth_use_nsswitch(polaris_cli_fs_cmds_t)

# allow polaris_cli_fs_cmds_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_cli_fs_cmds_t)
#watch on modify /tmp/udev/etc/udev/usbflash1-2/udev-info for remote/stby usb device
polaris_udev_tmp_watch(polaris_cli_fs_cmds_t)

# allow to run mount in its own domain
mount_domtrans(polaris_cli_fs_cmds_t)
# runs systemctl to remount file system.
# usb[01] fs_target remount service used.
systemd_execsystemctl(polaris_cli_fs_cmds_t)
systemd_config_generic_services(polaris_cli_fs_cmds_t)

# allow to run readlink -f /dev/bootflash1
storage_getattr_fixed_disk_dev(polaris_cli_fs_cmds_t)

# allow "format" CLI to add/delete links in /dev/, and /; e.g., /dev/harddisk1 /harddisk
ifdef(`crankshaft_family',`
gen_require(
    type device_t;
    type root_t;
    type udev_t;
)

#/dev/harddisk1 /dev/harddisk1 -> /dev/dm-0
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
# /harddisk -> /misc/scratch
filetrans_pattern(polaris_cli_fs_cmds_t, root_t, polaris_disk_bootflash_t, lnk_file, "harddisk")

manage_lnk_files_pattern(polaris_cli_fs_cmds_t, fixed_disk_device_t, fixed_disk_device_t)
)
seutil_domtrans_setfiles(polaris_cli_fs_cmds_t)
polaris_hman_use_fifo(setfiles_t)
# need open, read on /bootflash/packages.conf
polaris_read_packages_conf(polaris_cli_fs_cmds_t)

# "sed" needs access to /proc/cmdline
kernel_read_system_state(polaris_cli_fs_cmds_t)

# work with /tmp files (/tmp/fs_lock_bootflash)
type polaris_cli_fs_cmds_tmp_t;
gen_require(
    type tmp_t;
)
files_tmp_file(polaris_cli_fs_cmds_tmp_t)
manage_files_pattern(polaris_cli_fs_cmds_t, tmp_t, polaris_cli_fs_cmds_tmp_t)
files_tmp_filetrans(polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_tmp_t, file)

"find /vol/disk0/caf" when show CLI is executed
polaris_caf_tmp_files_read(polaris_cli_fs_cmds_t)

# Caf and IOxMan-CLI interaction
polaris_caf_tmp_files_manage(polaris_cli_fs_cmds_t)

# mcp_cli_fs_cmds.sh show webui: all runs df -P /webui
fs_getattr_tmpfs(polaris_cli_fs_cmds_t)
polaris_persistent_getattr(polaris_cli_fs_cmds_t)
fs_getattr_xattr(fs(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t self:capability dac_override;
allow polaris_cli_fs_cmds_t self:dir { add_name write }

# allow caf access to mcp_cli_fs_cmds.sh for fsck on ngwc platforms
ifdef(`ngwc_family',`
domain_read_all_domains_state(polaris_cli_fs_cmds_t)
polaris_caf_domtrans(polaris_cli_fs_cmds_t)
polaris_caf_files_read(polaris_cli_fs_cmds_t)
dev_read_sysfs(polaris_cli_fs_cmds_t)
)

******************************************************************************
# fsck CLI using mcp_cli_fs_cmds.sh as tested on ssparrow

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23174
# allow fsck in mcp_cli_fs_cmds.sh to execute udev in the udev domain
dev_domtrans(polaris_cli_fs_cmds_t)
# allow cryptsetup to be executed
lvm_domtrans(polaris_cli_fs_cmds_t)
# allow fsck to run on bootflash
polaris_nvram_getattr(polaris_cli_fs_cmds_t)

# during SDWAN admin-tech generation, fs_display_*() in mcp_cli_fs_cmds.sh is
# invoked; this tries to find files like /bootflash/tracelogs/cia-netcon* with
# LABEL polaris_confd_var_log_t
polaris_confd_var_log_read(polaris_cli_fs_cmds_t)

# hm calls df to figure out tmpfs size, on some platforms
# where configfs is mounted it needs statfs access to it
gen_require(''
    type configfs_t;
')
allow polaris_hm_t configfs_t:dir getattr;

# hm populates vrf_shm on behalf of iosd, and may create
# and delete vrf-based netns
polaris_vrf_netns_manage(polaris_hm_t)
fsUnmount_nsfs(polaris_hm_t)

# read udev info
polaris_udev_tmp_read(polaris_hm_t)

gen_require(''
    type rsync_t;
')
allow rsync_t polaris_hm_t:fifo_file read;

# show platform software yang-management process monitor
# mcp_monitor_dmi_proc.sh
/bin/bash /bin/mcp_pkg_wrap rp_daemons /usr/binos/conf/mcp_monitor_dmi_proc.sh


polaris_utility_domain_template(monitor_dmi_process)
polaris_bexecute_domain(polaris_monitor_dmi_process_t, polaris_monitor_dmi_process_exec_t)

# mcp_monitor_dmi_proc.sh calls "ps" command
# "ps" needs read/getattr access of various files in the system
# ps -eo comm,pid,s,vsize,rssize,%cpu,%mem,etime --sort=comm
domain_read_all_domains_state(polaris_monitor_dmi_process_t)
# "ps" needs access to /proc/uptime
kernel_read_system_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_dmi_process_t)

# "ps" need read access to /proc
kernel_list_proc(polaris_monitor_dmi_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_dmi_process_t)

# executes head command
corecmd_exec_bin(polaris_monitor_dmi_process_t)

# sources cyan_api.sh
files_exec_usr_files(polaris_monitor_dmi_process_t)

# /bin/bash /tmp/sw/rp/0/0/rp_daemons/mount/usr/binos/conf/mcp_monitor_dmi_proc.sh
corecmd_shell_entry_type(polaris_monitor_dmi_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[79843]"
polaris_hman_use_fifo(polaris_monitor_dmi_process_t)

# read /etc/init.d/quad_sup_usb_infra.sh
init_read_script_files(polaris_cli_fs_cmds_t)
#This triggers access to /tmp/flashlock and /dev/sda3
polaris_flashlib_lock(polaris_cli_fs_cmds_t)
#allow flash utility
polaris_flashlib_read(polaris_cli_fs_cmds_t)
# /sys/bus/usb/drivers/usb/*/authorized is accessed (read and write) from hman.
# For USB disable feature across all ngwc platforms needs authorized file to
# be accessed.
ifdef(`ngwc_family',`
gen_require(`
type sysfs_t;
'
allow polaris_hm_t sysfs_t:file create;
dev_rw_sysfs(polaris_hm_t)
dev_manage_sysfs_dirs(polaris_hm_t)
'
)

# work with /tmp files (/tmp/usb-disable)
polaris_iosd_usb_disable_tmp_manage(polaris_hm_t)

#need access to tmp files created under issu directory
polaris_issu_tmp_files_read(polaris_hm_t)
# HMMAN calls for checking database compactability
# tdllib_db_epoch_test is requires access to /tmp/issu/provision/sw-running.txt
polaris_install_tmp_read(polaris_hm_t)

optional_policy(
    polaris_efi_files_list_dirs(polaris_cli_fs_cmds_t)
)

# Execute hdparam in its own domain
fstools_domtrans(polaris_hm_t)

# Allow polaris_hm to get attributes of fixed disk
storage_getattr_fixed_disk_dev(polaris_hm_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device
polaris_read_ssd_tmp_files(polaris_hm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris ngwc_tbl_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.if
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris polarisbtman Policy Rules.</summary>

#-----------------------------------------------
##	Execute fs tools in the btrace_rotate domain.
##
##<summary>
##<param name="domain">

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23177
```c
#include("polaris_btrace_rotate_domtrans",
    gen_require(
        type polaris_btman_t, polaris_btman_exec_t;
    )
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_btman_exec_t, polaris_btman_t)
)

rippling

#include("polaris_btrace_tmppub_read",
    gen_require(
        type polaris_btrace_tmppub_t;
    )
)

read_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
read_lnk_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
list_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
)

rippling

#include("polaris_btrace_tmppub_manage",
    gen_require(
        type polaris_btrace_tmppub_t;
    )
)
```

manage_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
"

########################################
## <summary>
##	Read and write all btman's fifo file, used as
##      standard input/output.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface(`polaris_use_btman_fifo','
    gen_require(
    type polaris_btman_t;
    ')

allow $1 polaris_btman_t:fifo_file { rw_term_perms lock append create unlink ];
"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.if
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris webui Policy Rules.</summary>

#######################################
## <summary>
##     Read files under /webui/..., these are webui odm file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
##
#
interface('polaris_read_webui_files';
   gen_require(
      type polaris_webui_file_t;
   )

   read_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
   read_link_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
   )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/fp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/rp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/cc/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris NVRAM Policy Rules.</summary>

******************************************************************************
# Polaris Ismpi
******************************************************************************

******************************************************************************
## <summary>
## Work (read, write, ioctl) with /dev/lsmpi device.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
interface('polaris_lsmpi_dev_use',
    type device_t;
    type polaris_lsmpi_device_t;
)
    write_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
read_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    allow $1 polaris_lsmpi_device_t:chr_file map;
')

interface('polaris_lsmpi_sysctl_read',
    type polaris_sysctl_lsmpi_t;
)
    read_files_pattern($1, polaris_sysctl_lsmpi_t, polaris_sysctl_lsmpi_t)
')

interface('polaris_contdev_dev_read',
    type polaris_sysfs_contdev_t;
    type sysfs_t;
read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
}

###############################################################################
## <summary>
##      Write into /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#endif
interface(`polaris_contdev_dev_write',`
gen_require(`
type polaris_sysfs_contdev_t;
    type sysfs_t;
)
write_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

###############################################################################
## <summary>
##      Manage /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#endif
interface(`polaris_manage_contdev_dev',`
gen_require(`
type polaris_sysfs_contdev_t;
    type sysfs_t;
)
manage_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
manage_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

######################################
## <summary>
## Allow the specified domain to manage punt/inject socket
## files. I.e /tmp/pi/dp_2_iosd_pi and /tmp/iosd_2_dp_pi
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pi_uds_manage`,
    gen_require(
        type polaris_pi_uds_t;
    )
)

manage_sock_files_pattern($1, polaris_pi_uds_t, polaris_pi_uds_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# # All rights reserved
#
/usr/binos/conf/issu_stack.sh -- gen_context(system_u:object_r:polaris_issu_stack_exec_t,s0)
/tmp/issu_stk(/.*)? gen_context(system_u:object_r:polaris_issu_stack_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.fc
No license file was found, but licenses were detected in source scan.

# # August 2017, Shawn Lu
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polarisnmsp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmsp.fc
No license file was found, but licenses were detected in source scan.

#
# Aug 2020, Sridhar C
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisxcopy, 1.0);

#########################################
## xcopy_script.sh
#########################################
polaris_utility_domain_template(xcopy_script)

polaris_bexecute_domain(polaris_xcopy_script_t, polaris_xcopy_script_exec_t)
# xcopy_script.sh call other scripts through brelay.sh
polaris_bexecute_domtrans(polaris_xcopy_script_t)
polaris_chasfs_manage(polaris_xcopy_script_t)

# xcopy calls curl/sshpass/scp command and support scp/http/https
gen_require('  
   type polaris_curl_t;
   type ssh_exec_t;
   type ssh_home_t;
   type devpts_t;
')
polaris_curl_domtrans(polaris_xcopy_script_t)
corenertcp_connect_ssh_port(polaris_curl_t)
corenertcp_connect_http_port(polaris_curl_t)
corenertcp_connect_ssh_port(polaris_xcopy_script_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_xcopy_script_t)

# read polaris vrf net namespace file
fs_read_nsfs_files(polaris_xcopy_script_t)

# curl needs access to bootflash
polaris_bootflash_manage(polaris_curl_t)
polaris_bootflash_manage(polaris_xcopy_script_t)

# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy('polaris_nccd_tmp_read(polaris_xcopy_script_t)
')

# Execute
corecmd_exec_bin(polaris_xcopy_script_t)

#uses kernel utilities like pidof, stat
domain_read_all_domains_state(polaris_xcopy_script_t)
kernellist_proc(polaris_xcopy_script_t)

# read /proc/cmdline
kernellist_system_state(polaris_xcopy_script_t)
fs_getattr_tmpfs(polaris_xcopy_script_t)
fs_getattr_xattr_fs(polaris_xcopy_script_t)

# xcopy started from the smand and needs fifo
polaris_smand_use_fifo(polaris_xcopy_script_t)

# ping to check reachability
netutils_domtrans_ping(polaris_xcopy_script_t)
#
# calls mcp_chvrf.sh for ping and curl
polaris_chvrf_domtrans(polaris_xcopy_script_t)

# xcopy uses ps to find the curl process state
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_xcopy_script_t)

# Started by bexecute so it has its stdin set to telnet pty file
telnet_use_ptys(polaris_xcopy_script_t)

# stdout is set to fifo set by rotte to capture output into btrace
# btrace also need these policies :)
# btrace_init also refer to /tmp/sw/boot/..
polaris_use_btrace_fifo(polaris_xcopy_script_t)
polaris_cpld_read(polaris_xcopy_script_t)
polaris_boot_tmp_read(polaris_xcopy_script_t)

# Allow /tmp/xcopy/
type polaris_xcopy_tmp_t;
files_tmp_file(polaris_xcopy_tmp_t)
files_tmp_filetrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, { dir file })
polaris_xcopy_tmp_manage(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manage(polaris_curl_t)

# PS command access ttyS1
term_getattr_unallocated_ttys(polaris_xcopy_script_t)

# sshpass/scp
ssh_getattr_user_home_dir(polaris_xcopy_script_t)

# sshpass uses the ptmx
term_use_ptmx(polaris_xcopy_script_t)
term_getattr_pty_fs(polaris_xcopy_script_t)

# scp uses ssh
#allow polaris_xcopy_script_t ssh_exec_t:file { execute execute_no_trans map open read };
ssh_exec(polaris_xcopy_script_t)

allow polaris_xcopy_script_t self:capability {sys_resource fsetid};
allow polaris_xcopy_script_t self:process setfscreate;
allow polaris_xcopy_script_t ssh_home_t:dir { create search };
allow polaris_xcopy_script_t devpts_t:chr_file { getattr open read setattr write };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris dmi_ncsshd_fwd Policy Rules.</summary>

#########################################################################
## <summary>
##  Connect to and send messages to dmi ncsshd_bp
## tmp/.ncsshd_bp.sock unix datagram sockets.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
## </summary>
interface('polaris_dmi_ncsshd_fwd_dgram_send',
    gen_require(
        type polaris_dmi_ncsshd_log_t;
        type polaris_dmi_ncsshd_fwd_t;
    )
)

allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_dmi_ncsshd_fwd_t:unix_stream_socket {connectto};
write_sock_files_pattern($1, polaris_dmi_ncsshd_log_t, polaris_dmi_ncsshd_log_t)
)

########################################
## <summary>
##      Write into fifo file created by dmi_ncsshd_fwd, typical case when
##      hman starts script under popen.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_dmi_ncsshd_fwd_use_fifo',
    gen_require(
        type polaris_dmi_ncsshd_fwd_t;
    )
)
write_fifo_files_pattern($1, polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_fwd_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdif
No license file was found, but licenses were detected in source scan.
dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define('polaris_database_aux',"dnl
/tmp/rp/tldlb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
/tmp/fp/tldlb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
/tmp/cc/tldlb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
/tmp/rp/tldlb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
/tmp/fp/tldlb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
/tmp/cc/tldlb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
")
define('polaris_database', 'dnl
polaris_database_aux(database_label($1), $1)
')

define('polaris_database_process', '')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_fc.m4

No license file was found, but licenses were detected in source scan.

# # June 2017, Victor Kamensky
# # Copyright (c) 2017-2020 by Cisco Systems, Inc.
# # All rights reserved
#

### <summary>Polaris ixoman Policy Rules.</summary>

########################################
## <summary>
##      Manage ixoman temporary files and directories in /tmp.
## Like /tmp/ios_xml.dat.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_manage_tmp_files',
    gen_require(
        type polaris_iox_tmp_t;
    ')

manage_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_xml.dat")
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_override.conf")
# /tmp/trace/resource.log can be created by ixoman/vman/caf
# through sourcing in the family of the psvm_* .sh scripts
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
')

########################################
## <summary>
##      Read ixoman temporary files and directories in /tmp.
##
## Like /tmp/ios_xml.dat and /tmp/iox_override.conf
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface("polaris_iox_read_tmp_files",
    gen_require(
        type polaris_iox_tmp_t;
    )
)
read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')

####################################
## Make the specified domain able to work with iosd2iox files
## </summary>
## <param name="type">
## Domain allowed access.
## </summary>
## </param>
#
interface("polaris_iox2iosd_tmp_manage",
    gen_require(
        type polaris_iox2iosd_tmp_t;
    )
)
manage_dirs_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
manage_files_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
')

##################################################################
## Read ioxman executable file. Used by caf to read iosman
## version.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface("polaris_ioxman_exec_read",
    gen_require(
        type polaris_ioxman_exec_read;
    )
)
```c

// type polaris_ioxman_exec_t;
// type bin_t;

')

read_files_pattern($1, bin_t, polaris_ioxman_exec_t)
')

########################################
## <summary>
##   Execute a domain transition to run cat9k_ssd_auth_cmds.sh
## </summary>
## <param name="domain">
#
interface('polaris_container_runtime_show_version',
    gen_require(
        type container_runtime_exec_t;
    ')
    polaris_show_version($1, container_runtime_exec_t)
')

```

```
## Domain allowed to transition.

```c
interface('polaris_ssd_auth_domtrans',
    gen_require(
        type polaris_ssd_auth_t, polaris_ssd_auth_exec_t; )
)

domtrans_pattern($1, polaris_ssd_auth_exec_t, polaris_ssd_auth_t)
')
```

## Read ssd files in /tmp/ssd_blk_device

```c
interface('polaris_read_ssd_tmp_files',
    gen_require(
        type polaris_ssd_auth_tmp_t; )
)

read_files_pattern($1, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.if

No license file was found, but licenses were detected in source scan.

# Nov 2020, Swati Kumaro
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

```
/dev/blzi_fpga -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_gps_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_lol_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_0 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_1 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
```

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23191
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.fc
No license file was found, but licenses were detected in source scan.

#
# January 2021, Gabriel Lee, Shawn Liu
#
# Copyright (c) 2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisezmanage, 1.0);

type polaris_ezmanage_file_t;
files_type(polaris_ezmanage_file_t)
polaris_pfile_type(polaris_ezmanage_file_t)

polaris_process_domain_template(ezmanage)

# Allow ezManage script to be executed by systemd
gen_require(
    type unconfined_service_t;
')

polaris_ezmanage_domtrans(unconfined_service_t)

# Allow ezManage file and directory access
polaris_manage_ezmanage_files(polaris_ezmanage_t)

# Allow ezManage socket access
allow polaris_ezmanage_t self:unix_dgram_socket { connected_socket_perms sendto };

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_ezmanage_t)

# ezManage python script needs access to USB ttys for modem AT channel
term_use_usb_ttys(polaris_ezmanage_t)

# ezManage python script needs /usr/bin/python3 execution and may also call other generic system bin utilities
corecmd_exec_bin(polaris_ezmanage_t)

# ezManage needs to access /bootflash/ciscosdwan.cfg and a variably named tar file in /bootflash/modem_firmware
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "ciscosdwan.cfg")
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "modem_firmware.tar.gz")

# ezManage socket file is created in /var/run
type polaris_ezmanage_var_run_t;
files_pid_file(polaris_ezmanage_var_run_t)
files_pid_filetrans(polaris_ezmanage_t, polaris_ezmanage_var_run_t, sock_file, "cwan_ezmanage_py_server")

# Allow ezManage to access its socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ezmanage_t)

# Allow ezManage to access ngiolite socket file in /var/run
gen_require(`
  type polaris_cwan_svr_var_run_t;
')
rw_sock_files_pattern(polaris_ezmanage_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)

# Allow ezManage to access ngiolite dgram_socket
gen_require(`
  type polaris_ngiolite_t;
')
allow polaris_ezmanage_t polaris_ngiolite_t:unix_dgram_socket sendto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris dbm Policy Rules.</summary>

#######################################
###
### Setup /bootflash/.dbpersist directory and content.
###
### <param name="domain">
### Domain allowed access.
###
### </summary>
###
### <param>
#
interface(`polaris_tdldbpersist_setup',`
gen_require(`
  type polaris_disk_bootflash_t;

type polaris_disk_dbm_t;
')
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t, dir, ".dbpersist")  
# allow creation of /bootflash/.dbpersist directory
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t)
# dbm can manage files inside of its own polaris_disk_dbm_t directories
manage_files_pattern($1, polaris_disk_dbm_t, polaris_disk_dbm_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.if
No license file was found, but licenses were detected in source scan.

#  
# May 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2019 by Cisco Systems, Inc.  
# All rights reserved  
#  
# polarismdtpubd file contexts place holder  

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.fc
No license file was found, but licenses were detected in source scan.

#  
# February 2020, Victor Kamensky  
#  
# Copyright (c) 2020-2021 by Cisco Systems, Inc.  
# All rights reserved  
#  

policy_module(polaristtm, 1.0);

gen_require( 
    type polaris_ttm_t;
')
polaris_chasfs_read(polaris_ttm_t)
polaris_cpld_read(polaris_ttm_t)

logging_send_syslog_msg(polaris_ttm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ttm_t)

# /var/run/ttmd socket and pid
type polaris_ttm_var_run_t;
files_pid_file(polaris_ttm_var_run_t)
manage_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
manage_sock_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
files_pid_filetrans(polaris_ttm_t, polaris_ttm_var_run_t, { file sock_file })

# allow /usr/bin/os/bin/ttmd to acces polaris_tdlresolve_t and
# polaris_global_service_t
polaris_tdlresolve_manage(polaris_ttm_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarissdavcproxy, 1.0);

gen_require(
    type polaris_sdavc_proxy_t;
)

# btrace_application_start
polaris_chasfs_read(polaris_sdavc_proxy_t)
polaris_tdlresolve_read(polaris_sdavc_proxy_t)
polaris_cpld_read(polaris_sdavc_proxy_t)

# Allow SDAVC exports using UDP socket.
allow polaris_sdavc_proxy_t self:udp_socket create_socket_perms;

# Change namespace to allow network communication with vManage
(process_namespace_network_change_internal - opens /var/run/netns/*)
polaris_cedge_set_ns(polaris_sdavc_proxy_t)

# Reset the anamespace back to default (process_namespace_network_default opens /proc/1/ns/net)
polaris_cedge_reset_ns(polaris_sdavc_proxy_t)

type polaris_sdavc_proxy_files_t;
files_type(polaris_sdavc_proxy_files_t)
polaris_pfile_type(polaris_sdavc_proxy_files_t)

# Create /bootflash/sdavc directory, Write, Read & Removed files (For SDAVC imports)
polaris_bootflash_filetrans(polaris_sdavc_proxy_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_sdavc_proxy_manage(polaris_sdavc_proxy_t)

# IOSd process also should have access to /bootflash/sdavc directory
gen_require('  
  type polaris_iosd_t;
')
polaris_sdavc_proxy_manage(polaris_iosd_t)

# Allow SDAVC imports (HTTP GET, PUT) we use /usr/bin/curl executable.
# Exe: curl -f -s --connect-time 10 -o /bootflash/sdavc/.... -w%{http_code} http://<user>:<pw>@<vManage system ip>:<port>
# Run CURL in its domain so it wont have all sdavcproxy permissions.

gen_require('  
  type polaris_curl_t;
')
polaris_curl_domtrans(polaris_sdavc_proxy_t)
corenet_tcp_connect_generic_port(polaris_curl_t)

# CURL process also should have access to /bootflash/sdavc directory
polaris_sdavc_proxy_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.te
No license file was found, but licenses were detected in source scan.

#
# Sep 2020, Sridhar C
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
/usr/binos/conf/xcopy_script.sh -- gen_context(system_u:object_r:polaris_xcopy_script_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl divert(-1)
include('polaris_process.m4')
dnl Stub out plaris process
define('polaris_process', '')

include('polaris_mqipc_service_server.m4')
dnl Stub out mqipc
define('polaris_mqipc_service_server', '')
define('polaris_mqipc_service_client', '')
define('polaris_mqipc_service_server_elastic_client', '')

dnl Stub out lipc
define('polaris_lipc_service_server', '')
define('polaris_lipc_service_client', '')

include('polaris_ipc_ripc.m4')
include('polaris_ipc_base_ripc_te.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server', '')
define('polaris_cipc_service_server', '')

include('polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

policy_module(autopolarisplatformipcbase, 1.0);

gen_require('`
  attribute port_type;
  attribute defined_port_type;
`)
polaris_process_domain_template(droputil)

corecmd_exec_bin(polaris_droputil_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_droputil_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_droputil_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_droputil_t)

# work with /tmp files

type polaris_droputil_tmp_t;
files_tmp_file(polaris_droputil_tmp_t)
manage_dirs_pattern(polaris_droputil_t, tmp_t, polaris_droputil_tmp_t)
manage_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_fifo_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_lnk_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
files_tmp_filetrans(polaris_droputil_t, polaris_droputil_tmp_t, { file dir })

# on some platform /tmp/rp/dropbox is created by binos service
# that runs under initrc_t

gen_require(
    type initrc_t;
    
    files_tmp_filetrans(initrc_t, polaris_droputil_tmp_t, dir, "dropbox")
)

allow polaris_droputil_t self:capability { sys_resource dac_override };
allow polaris_droputil_t self:process setpgid;

polaris_btrace_data_manage(polaris_droputil_t)
polaris_cpld_read(polaris_droputil_t)
polaris_chasfs_manage(polaris_droputil_t)
polaris_boot_tmp_read(polaris_droputil_t)
polaris_read_debug_conf(polaris_droputil_t)
polaris_disk_crashinfo_getattr(polaris_droputil_t)
polaris_rmonbifo_tmp_read(polaris_droputil_t)

# runs systemctl start reflector.service
systemd_exec_systemctl(polaris_droputil_t)

# PLEASE LOOK AT ME need to have separate label for reflector.service
# allow only to start if, do it once copy of reflector.service is fixed
systemd_config_generic_services(polaris_droputil_t)

# droputil.sh deletes /tmp/rp/droputil/so-del-stage/rp/0
fs_getattr_tmpfs(polaris_droputil_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisofa, 1.0);

gen_require(
    type polaris_ofa_t;
    ')

polaris_btrace_data_manage(polaris_ofa_t)
polaris_crf_data_manage(polaris_ofa_t)
polaris_chasfs_manage(polaris_ofa_t)
polaris_tdlresolve_read(polaris_ofa_t)
polaris_tdlldb_list_dirs(polaris_ofa_t)
polaris_cpld_read(polaris_ofa_t)
polaris_flashlib_read(polaris_ofa_t)

allow polaris_ofa_t self:capability sys_admin;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
# /objstore
/objstore(.*?)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/dev/shm/sem.objstore_sem gen_context(system_u:object_r:polaris_objstore_sem_t,s0)

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',
  /dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
')

# /csl_p_0
/csl_p_0(.*?)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(.*?)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(.*?)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(.*?)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /varied
/varied/.*? gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info gen_context(system_u:object_r:polaris_vxeinstall_info_t,s0)
/varied/obfl.* gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(.*?)? gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(.*?)? gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)
/sbin/grub* gen_context(system_u:object_r:bootloader_exec_t,s0)

# /bootefi
/bootefi/.*? gen_context(system_u:object_r:polaris_grub_efi_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# umbrella_ini.sh executable label
/usr/binos/conf/umbrella_init.sh -- gen_context(system_u:object_r:polaris_umbrella_init_exec_t,s0)

# On ultra_us /cpld_util.sh creates /tmp/chassis. Put this script into the initexec_t domain so
# chasfs transitions properly.
policy_module(polarisboot, 1.0);

type polaris_boot_tmp_t;
files$tmp_file(polaris_boot_tmp_t)
gen_require(

attribute domain;
)
files$tmp_filetrans(domain, polaris_boot_tmp_t, dir, "boot")

# dmesg command is executed in its own domain and result is store
# into /tmp/sw/boot/dmesg file

gen_require(

    type dmesg_t;

)
polaris_boot_tmp_write(dmesg_t)

# /tmp/reload_reason copied from /bootflash/.prst_sync/reload_info
files$tmp_filetrans(domain, polaris_boot_tmp_t, file, "reload_reason")

# /tmp/bootup_timestamp created by /etc/init.d/binos

gen_require(

    type initrc_t;
    type init_t;

)
files_tmp_filetrans({ initrc_t init_t }, polaris_boot_tmp_t, file, "bootup_timestamp")

type polaris_boot_file_t;
files_type(polaris_boot_file_t)
polaris_pfile_type(polaris_boot_file_t)
gen_require(
    type polaris_disk_bootflash_t;
)
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "reload_info")
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "stack_reload_info")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.te

No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmportsfetch.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissvdaemon.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvttm.f
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris Common Policy Rules.</summary>

# Polaris common

# Polaris used in Kenna Virtual Tunnel and Agent 2021.08 23202
# Create a domain for long running Polaris processes in confined mode.

## <summary>
## Domain allowed access.
## </summary>

## <param name="domain">
## Type of the program to be used as an entry point to this domain.
## </param>

```c
interface('polaris_process_domain_confined',
    gen_require(
        type unconfined_service_t;
    )
    init_daemon_domain($1, $2)

    # polaris process now started by pman, which still runs
    # under unconfined label
    type_transition unconfined_service_t $2:process $1;
    allow unconfined_service_t $1:process transition;
    allow $1 unconfined_service_t:process sigchld;

    polaris_pman_entry($1, $2)

    gen_require(
        attribute polaris_domain;
        attribute polaris_exec_domain;
        attribute polaris_extended_domain;
    )
    typeattribute $1 polaris_domain, polaris_extended_domain;
    typeattribute $2 polaris_exec_domain;

    # allow all process to check whether kernel ksm is enabled
    polaris_ksm_run_check($1)
)
```

## Create a domain for long running Polaris processes. Note depending on policy build setting it could be confined or not confined
### <param name="domain">
### <summary>
Domain allowed access.
### </summary>
### </param>
### <param name="entry_point">
### <summary>
Type of the program to be used as an entry point to this domain.
### </summary>
### </param>

# interface(`polaris_process_domain',`

# the default is to confine all domains
polaris_process_domain_confined($1, $2)

# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confined map, then there really
# isn't much else to do but leave it confined. if the domain isn't in
# the permissive or confined maps then determine if the domain should
# be unconfined.
#
# ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
  confined_domain($1), $1, `',
  `polaris_domain_maybe_unconfined($1)')
`)

########################################################################
### <summary>
### Create a domain for utility Polaris processes in confined mode.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <param name="entry_point">
### <summary>
### Type of the program to be used as an entry point to this domain.
### </summary>
### </param>

# interface(`polaris_utility_domain_confined',`
domain_type($1)
domain_entry_file($1, $2)
role system_r types $1;

gen_require(
    attribute polaris_domain;
    attribute polaris_exec_domain;
    attribute polaris_extended_domain;
)

typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)
)

##########################################
## <summary>
##      Create a domain for utility Polaris processes. Note
##      depending on policy build setting it could be confined or
##      not confined
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="entry_point">
##      <summary>
##      Type of the program to be used as an entry point to this domain.
##      </summary>
## </param>
#
interface(`polaris_utility_domain',`

# the default is to confine all domains
polaris_utility_domain_confined($1, $2)

#
# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confused map, then there really
# isnt much else to do but leave it confined. if the domain isnt in
# the permissive or confused maps then determine if the domain should
# be unconfined.
#
ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
                     confined_domain($1),   $1, `',
                     `polaris_domain_maybe_unconfined($1)')
)
### <summary>
## Creates types and rules for a basic polaris process domain.
### </summary>

### <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
### </param>

```
#template(`polaris_process_domain_template',
      type polaris_$1_t;
      type polaris_$1_exec_t;

      polaris_process_domain(polaris_$1_t, polaris_$1_exec_t)
      ifdef(polaris_permissive,`
          permissive polaris_$1_t;
      ')

      polaris_btrace_data_client_template($1)
      polaris_maroon_data_client_template($1)
      polaris_crft_data_client_template($1)
      polaris_process_proc_kpageflags_template($1)
      polaris_process_uswap_access(polaris_$1_t, $1, "$1")
  )

### <summary>
## Creates types and rules for a basic polaris process domain.
### </summary>

### <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
### </param>

```

```
#template(`polaris_utility_domain_template',
      type polaris_$1_t;
      type polaris_$1_exec_t;

      polaris_utility_domain(polaris_$1_t, polaris_$1_exec_t)
      ifdef(polaris_permissive,`
          permissive polaris_$1_t;
      ')

      polaris_btrace_data_client_template($1)
```
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)

)

####################################################################################################
## <summary>
## Allow the specified domain to execute polaris domain
## process in the caller domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface(‘polaris_exec’,`
  gen_require(
    attribute polaris_exec_domain;
  )

can_exec($1, polaris_exec_domain)
')

####################################################################################################
## <summary>
## Allow the specified domain to read polaris domain
## executable file. I.e to get information from executables
## like binary trace info, trace key etc
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface(‘polaris_read_exec_domain’,`
  gen_require(
    attribute polaris_exec_domain;
    type bin_t;
  )

  read_files_pattern($1, bin_t, polaris_exec_domain)
')

####################################################################################################
## <summary>
## Allow the specified domain to receive signals from any polaris process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_receive_signal_from_domain',
    gen_require(
        attribute polaris_domain;
    ')

    allow polaris_domain $1:process signal_perms;
')

########################################
## Systemd-tmpfiles utility creates an object in the tmp directories, with a private type using a type transition.
## Note rules to create files and directories which are performed by systemd-tmpfiles reside in /lib/tmpfiles.d/
## directory. And polaris specific rules are in binos.conf file.
## Note systemd-tmpfiles utility would use label from file_contexts to restore proper label. I.e the same effect could be achieved by placing proper .fc expression.
## </summary>
## <param name="private type">
## The type of the object to be created.
## </summary>
## </param>
## <param name="object">
## The object class of the object being created.
## </summary>
## </param>
## <param name="name">
## The name of the object being created.
## </summary>
## </param>
# interface('polaris_systemd_tmpfiles_tmp_filetrans',
    gen_require(
        type systemd_tmpfiles_t;
files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)

###############################
## <summary>
## socketat through get_netns_fd function call access
## /proc/pid/ns/net file
##
## Implementation notes:
##
## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
## does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
## of be nsfs_t. For now allow read access to proc_t through
## kernel_system_state_reader attribute. Try to drop it in latter kernels
##
## type=AVC msg=audit(1479574148.450:70): avc: denied { open } for pid=27619 comm="smd"
## path="net:[4026531957]" dev="proc" ino=4026531957 scontext=system_u:system_r:polaris_smd_t:s0
## tcontext=system_u:object_r:proc_t:s0 tclass=file
## in 4.4 /proc/pid/ns/net inode is under nsfs_t, polaris_smd_t needs to
## open, getattr, and read from it
##
## </summary>
## <param name="domain">
##
## Domain allowed access.
##
## </param>
#
interface(`polaris_socketat_nsfs_read',`
   kernel_read_system_state($1)
   fs_read_nsfs_files($1)
   gen_require(
      type ifconfig_var_run_t;
   )
   list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
)

###############################
## <summary>
## All namespace related operation to switch name space
## is covered under this macro.
##
## </summary>
## <param name="domain">
##
## Domain allowed access.
##
## </param>
#
interface(`polaris_namespace_set_netns_with_etc',`
files_mounton_isid($1)
files_mounton_rootfs($1)
dev_mount_sysfs_fs($1)
devUnmount_sysfs_fs($1)
sysnet_read_config($1)
sysnet_write_config($1)
sysnet_manage_config_dirs($1)
files_rw_etc_files($1)
allow $1 net_conf_t:file mounton;
allow $1 etc_t:file mounton;
allow $1 self:capability sys_chroot;
')

########################################################################

## <summary>
##      process can execute libeiutil build_config_directory function
##
## Implementation notes:
##  build_config_directory function from mgmt/libeiutil/src/eiutil.c
## calls glibc nftw function, which effectively walks whole file tree
## and execute given call back. While function is executed it needs
## access to all files and directories attributes also it wants to
## search all directories. But we will not grant search access to
## security_file_type, instead we will dontaudit those. Anyway no
## relevant config file should be under security_file_type directory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_libeiutil_build_config_directory',
    files_getattr_all_files($1)
    files_getattr_all_dirs($1)
    files_read_all_symlinks($1)

    files_list_non_security($1)
    files_dontaudit_list_security_dirs($1)
')

########################################################################

## <summary>
##      Allow the specified domain to read write from i2c device.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
##

## <summary>
## Work (read, write, ioctl) with /dev/remap_mem0
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_remap_mem_dev_use',``
gen_require(`
    type device_t;
    type polaris_remap_mem_device_t;
``)

write_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
read_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
allow $1 polaris_remap_mem_device_t:chr_file map;
``)

## <summary>
## Allow the specified domain to read firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_read',``
gen_require(`
    type polaris_firmware_t;
``)

read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
# /firmware/* are link files, allow to follow symbolic link
allow $1 polaris_firmware_t:lnk_file read;
allow $1 polaris_firmware_t:dir read;
')

#########################################################
## <summary>
## Allow the specified domain to manage firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_manage',
    gen_require(
        type polaris_firmware_t;
    ')

manage_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
manage_link_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
manage_dirs_pattern($1, polaris_firmware_t, polaris_firmware_t)
')

#########################################################
## <summary>
## Allow the specified domain to getattr of firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_getattr',
    gen_require(
        type polaris_firmware_t;
    ')

getattr_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
')

#########################################################
## <summary>
## Allow the specified domain to map of firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
## summary
Domain allowed access.
## </summary>
## </param>
#
interface('polaris_firmware_map',
    gen_require('    type polaris_firmware_t;
')
    read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
    allow $1 polaris_firmware_t:file map;
')

######################################
## summary
## Allow the specified domain to write relocations into text segment, deals
## with icc broken relocations.
##
## LOOK AT ME:
## Basically it deals with denials like this:
## type=AVC msg=audit(1475815369.598:3): avc: denied { execmod } for pid=4929 comm="cman_fp"
## path="/tmp/sw/mount/csr1000v-mono-universalk9.2016-10-
## 06_20.15_kamensky.SSA.pkg/usr/cpp/lib64/libcpp_client_ha_oor.so" dev="loop0" ino=7683
## scontext=system_u:system_r:unconfined_service_t:s0 tcontext=system_u:object_r:lib_t:s0 tclass=file
## It happens because icc generates code with relocations in text segment and
## run-time linker is dealing with it by doing mprotect(WRITE), relocatings,
## mprotect(NO WRITE). Remove once icc compiled is fixed
##
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_icc_broken_relocations',
    gen_require('    type lib_t;
')
    allow $1 lib_t:file execmod;
')

######################################
## summary
## Allow the specified domain to work with /dev/mem
## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works
## with /dev/mem directly
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dev_mem_use',
    dev_read_raw_memory($1)
    dev_write_raw_memory($1)
    allow $1 self:capability sys_rawio;
    gen_require(
        type memory_device_t;
    ')
    allow $1 memory_device_t:chr_file map;
')

######################################
## <summary>
## Append to /tmp/etc file. First usage to update xinetd.conf
## files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_etc_append',
    gen_require(
        type polaris_etc_t;
    ')
    append_files_pattern($1, polaris_etc_t, polaris_etc_t)
')

#######################################
## <summary>
## Search /tmp/etc directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_etc_search',

gen_require(
        type polaris/etc_t;
    )
    search_dirs_pattern($1, polaris/etc_t, polaris/etc_t)
)

########################################
## <summary>
##	List the contents of /etc directories.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
#
interface(`polaris/etc_list',
    gen_require(
        type polaris/etc_t;
    )

allow $1 polaris/etc_t:dir list_dir_perms;
)

########################################
## <summary>
##	Allow domain to attach to TUN devices created by ifconfig_t subject.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
#
interface(`ifconfig_attach_tun_iface',
    gen_require(
        type ifconfig_t;
    )

allow $1 ifconfig_t:tun_socket relabelfrom;
allow $1 self:tun_socket relabelto;
')

# Perms used by pidof
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('pidof_use',`
  # FIXME or fix labeling
  # /sys/devices/system/cpu/online should be labeled cpu_online_t
  # but for some reason this did not happen. grant perms for both
  dev_read_sysfs($1)
  dev_read_cpu_online($1)
  # /proc scan
  domain_read_all_domains_state($1)
  kernel_list_proc($1)
')

#################################################################
## <summary>
## Script can execute errmsg function from
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_script_errmsg_use',`
  # send to syslog (journal), iosd outputs to console if up
  logging_send_syslog_msg($1)
  # check if iosd is up and find its pid and if ttyS0 is opened
  pidof_use($1)
  # if FDs dont have ttyS0 it sends to console itself
  term_use_unallocated_ttys($1)
')

#################################################################
## <summary>
## Allow the specified domain to read ebf (explicit
## bindind) files
## </summary>
## <param name="domain">
## </param>
## Domain allowed access.

```c
# interface('polaris_ebf_map',
    gen_require(
        type polaris_ebf_t;
    )

    read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
    allow $1 polaris_ebf_t:file map;
')
```

## Allow the specified domain to execute show_version command for given executable label

```c
# <summary>
# for given executable label
# </summary>
# <param name="domain">
# Domain allowed access.
# </summary>
# <param name="subject_exec">
# Domain of executable that version can be checked
# </param>
# interface('polaris_show_version',
    read_files_pattern($1, $2, $2)
    allow $1 $2:file map;
')
```

## Configure the polaris domain as permissive

```c
#配置polaris domain as permissive
# interface('polaris_permissive_domain_setup',
    gen_require('polaris_permissive_domain_setup',
        type polaris_permissive_domain_setup;
        gen_require(
            type polaris_permissive_domain_setup;
        )
```
type $1;
')

permissive $1;
')

########################################
## <summary>
## Creates types and rules for process access to uswap feature.
## Ability to create file/folder under /bootflash/USWAP/"FRU", and
## map file.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="stem">
## <summary>
## Stem for the object label. Name is constructed as
## polaris_"stem"_uswap_files.t. It should be the short
## form of the process name.
## E.g., for IOSd polaris_iosd_uswap_files_t.
## </summary>
## </param>
## <param name="name">
## <summary>
## The name of the object being created.
## Name of the folder created by the process for
## creating the uswap files.
## </summary>
## </param>
#
# template('polaris_process_uswap_access',
# gen_require(
#     type polaris_uswap_files_t;
# )
type polaris_$2_uswap_files_t;
files_type(polaris_$2_uswap_files_t)
polaris_pfile_type(polaris_$2_uswap_files_t)

filetrans_pattern($1, polaris_uswap_files_t, polaris_$2_uswap_files_t, {file dir})
manage_dirs_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
manage_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
manage_lnk_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
allow $1 polaris_$2_uswap_files_t:file map;
# allow access to pvp to clean-up the process related uswap file/folder

gen_require(
    type polaris_pvp_t;
)

allow polaris_pvp_t polaris_$2_uswap_files_t:dir { read remove_name rmdir write }; allow polaris_pvp_t polaris_$2_uswap_files_t:file unlink;
)

########################################
## <summary>
##      Allow process access to access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
##      <summary>
##      Stem for the domain. Name is contrstructed as polaris_stem_t
##      </summary>
## </param>
#
# template('polaris_process_proc_kpageflags_template',
#     gen_require(
#         type proc_t;
#     )
#     allow polaris_$1_t proc_t:file { open read };
#
#)

########################################
## <summary>
##      transition context of fman(rp/fp) created iptbl tmp files related to acl mgmt.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_fman_acliptbl_tmp_file',
#     gen_require(
#         type polarisiptbl_tmp_t;
#     )
#     files_tmp_filetrans($1, polarisiptbl_tmp_t, file, "iptbl.v4")
#     files_tmp_filetrans($1, polarisiptbl_tmp_t, file, "iptbl.v6")
#     manage_files_pattern($1, polarisiptbl_tmp_t, polarisiptbl_tmp_t)
# )

########################################
## <summary>
## Manage files/folders in /tmp/rsync_log_dir.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_manage_rsync_tmplog_dir',`
  gen_require(`
    type polaris_rsync_tmp_t;
  `)
  manage_files_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
  manage_dirs_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
```

#################################################################
## <summary>
## Manage cerr shared memory /dev/shm/cerrno_dll.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cerr_shm_manage',`
  gen_require(`
    type tmpfs_t;
    type polaris_cerr_shm_t;
  `)
  fs_getattr_tmpfs($1)
  manage_files_pattern($1, tmpfs_t, polaris_cerr_shm_t)
  allow $1 polaris_cerr_shm_t:file map;
  fs_tmpfs_filetrans($1, polaris_cerr_shm_t, file, "cerrno_dll")
```

#################################################################
## <summary>
## Manage shared memory for vrf - /dev/shm/vrf_shm.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_vrf_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_vrf_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
    allow $1 polaris_vrf_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_vrf_shm_t, file, "vrf_shm")
)

# On-demand creation of vrf-based netns using "ip netns".
#
#
# Domain allowed access.
#
#
interface('polaris_vrf_netns_manage',
    polaris_vrf_shm_manage($1)
    kernel_rw_net_sysctls($1)
    polaris_lfts_dev_use($1)
    sysnet_exec_ifconfig($1)
    sysnet_manage_ifconfig_run($1)
    gen_require(
        type ifconfig_var_run_t;
    )
    allow $1 ifconfig_var_run_t:file { create mounton open read };
    allow $1 ifconfig_var_run_t:dir mounton;
    gen_require(
        type polaris_ip_linux_port_var_t;
    )
    read_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
    getattr_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
)

## Allow read/write of network state directory files
##
##<summary>
##
###<param name="domain">
###<summary>
### Domain allowed access.
###</summary>
###</param>
###
## Domain allowed access.

```cpp
interface('polaris_kernel_rw_network_state_files',
    gen_require(
        type proc_net_t;
    ')
)
```

rw_files_pattern($1, proc_net_t, proc_net_t)
''
#

#

# Allow the specified domain to send signals to Binos shell
#

```cpp
@interface('polaris_send_signal_to_shell',
    gen_require(
        type polaris_shell_t;
    ')
)
```

allow $1 polaris_shell_t:process signal_perms;
''

#

# Execute curl in the curl domain.
#

```cpp
@interface('polaris_curl_domtrans',
    gen_require(
        type polaris_curl_t, polaris_curl_exec_t;
    ')
)
```

corecmd_search_bin($1)
domtrans_pattern($1, polaris_curl_exec_t, polaris_curl_t)
')

#############################################################
## <summary>
## Manage files and directories in /tmp directory with rsync_tmp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('rsync_tmp_manage',
  gen_require(
    type rsync_tmp_t;
  )
  manage_dirs_pattern($1, rsync_tmp_t, rsync_tmp_t)
  manage_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
  manage_lnk_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
  manage_fifo_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
')

#############################################################
## <summary>
## Allow the specified domain to read /tmp/ldwm_envelope file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_ldwm_envelope_read',
  gen_require(
    type polaris_ldwm_envelope_tmp_t;
  )
  read_files_pattern($1, polaris_ldwm_envelope_tmp_t, polaris_ldwm_envelope_tmp_t)
')

#############################################################
## This is copied from polarisngwc.if since other platforms may also
## read/write /sys/devices files. In addition to ngwc, tsn requires it.
## Write into /sys/devices/virtual/misc/gpio/gpio_out_assert sysfs files.
## or /sys/devices/platform/cpn-110-master/cpn-110-master sysfs
## </summary>
## <param name="domain">


# <summary>
# Domain allowed access.
# </summary>
# </param>
interface('polaris_ggpio_dev_read_write',
    gen_require(
        type polaris_sysfs_ggpio_t;
    )
    read_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
    write_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
    )

#######################################
# <summary>
# Manage files under /bootflash/certs , cert files for AP
# </summary>
# <param name="domain">
# <summary>
# Domain allowed access.
# </summary>
# </param>
#
# interface('polaris_wlc_ap_cert_manage',
#     gen_require(
#         type polaris_ap_cert_file_t;
#     )
#     manage_files_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
#     manage_dirs_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
#     )

#######################################
# <summary>
#      Manage SERDES key directory and files
#      SERDES library stores info in /tmp/serdes_asic_key_dir/*
# </summary>
# <param name="domain">
# <summary>
#      Domain allowed access.
# </summary>
# </param>
#
# interface('polaris_serdes_asic_key_tmp_manage',
#     gen_require(
#         type polaris_serdes_asic_key_tmp_t;
#     )
#     manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
#     manage_dirs_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
#     )
files_tmp_filetrans($1, polaris_serdes_asic_key_tmp_t, {dir file}, "serdes_asic_key_dir")

manage_dirs_pattern($1, {tmp_t polaris_serdes_asic_key_tmp_t}, polaris_serdes_asic_key_tmp_t)
manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
)

#######################################
## <summary>
## Manage polaris_tech_support_tmp_t in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface(`polaris_tech_support_tmp_read',
   gen_require(
      type polaris_tech_support_tmp_t;
   )
   read_files_pattern($1, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
)

#######################################
## <summary>
## Getattr of any file under /proc/*/fd/*. Typically run by lsof.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface(`polaris_proc_fd_all_getattr',

   domain_read_all_domains_state($1)
   files_getattr_all_files($1)
   files_getattr_all_dirs($1)
   files_getattr_all_socketss($1)
   files_getattr_all_pipes($1)
   files_getattr_all_chr_files($1)
   files_getattr_all_symlinks($1)
   files_read_all_dirs_except($1)
   dev_getattr_all_chr_files($1)
   dev_getattr_all_blk_files($1)
   dev_getattr_mtrr_dev($1)

   # misc socket and fifo files got created under label of its process domain
# and since domain labes are not in file_type attribute, need special
# permission
    gen_require(
        attribute domain;
    )
    allow $1 domain:{socket socket_class_set fifo_file} getattr;
# access sysctl_rpc_t
    kernel_read_rpc_sysctls($1)
')


## <summary>
##      Manage files and directories sysfs, This should only be used
##      if the interface needs sysfs_t create access. Otherwise please use
##      dev_rw_sysfs
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface('polaris_sysfs_manage',
    gen_require(
        type sysfs_t;
    )
    manage_files_pattern($1, sysfs_t, sysfs_t)
')

## <summary>
##  Check access to the init/systemd executable.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_init_access_check',
    gen_require(
        type init_exec_t;
    )
    init_access_check($1)
    allow $1 init_exec_t:file {open read};
    allow $1 init_exec_t:lnk_file read_lnk_file_perms;
')
**<summary>
## Manage polaris_manage_rommon_info in /tmp.
</summary>
**
**<param name="domain">
## Domain allowed access.
</param>
**
interface(`polaris_manage_rommon_info',
  gen_require(`
    type polaris_rommon_info_tmp_t;
  ')
  manage_files_pattern($1, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
')

**<summary>
## Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log
</summary>
**
**<param name="domain">
## Domain allowed access.
</param>
**
#

interface(`polaris_tamlib_dbg_file_manage',
  gen_require(`
    type polaris_tamlib_dbg_file_t;
  ')
  filetrans_pattern($1, polaris_disk_bootflash_t, polaris_tamlib_dbg_file_t, file, "tamlib_dbg_log")
  manage_files_pattern($1, polaris_tamlib_dbg_file_t, polaris_tamlib_dbg_file_t)
')

**<summary>
## Allow access to /dev/ddr
</summary>
**
**<param name="domain">
## Domain allowed access.
</param>
**
#

interface(`polaris_ddr_dev_use',
  gen_require(`
    type device_t;
type polaris_ddr_device_t;

write_chr_files_pattern($1, device_t, polaris_ddr_device_t)
read_chr_files_pattern($1, device_t, polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
### <summary>Polaris tams_rp Policy Rules.</summary>

########################################################
### <summary>
###      Allow polaris_tams_rp_t unix stream socket connect
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
### </summary>
### </param>
#
interface('polaris_tams_rp_socket_connect',
    gen_require(
        type polaris_tams_rp_t;
    
    allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
    )
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polariswncd file contexts place holder
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# /harddisk /harddisk -> /misc/scratch
/harddisk gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/misc/scratch gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

/usb0 gen_context(system_u:object_r:removable_t,s0)
/usb1 gen_context(system_u:object_r:removable_t,s0)
/misc/usb0 gen_context(system_u:object_r:removable_t,s0)
/misc/usb1 gen_context(system_u:object_r:removable_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
/tmp/tam_cfg_done(/.*)? gen_context(system_u:object_r:polaris_tam_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarsesgtamcfg.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris omp Policy Rules.</summary>
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris TDLDB Policy Rules.</summary>

# Polaris tdldb (infra/tdllib)

### <summary>Polaris TDLDB Policy Rules.</summary>

### Make specified domain as one of tdldb types.

### <param name="domain">
### The domain serving as polaris_tdl db type
### </param>

interface('polaris_tdl db_type',
    gen_require(
        attribute polaris_tdl db;
    ')
    typeattribute $1 polaris_tdl db;
files_type($1)
')

### List directories in /tmp/[rp|fp|cc]/tdldb directories.

### <param name="domain">
### Domain allowed access.
### </param>

interface('polaris_tdl db_list_dirs',
    gen_require('
type polaris_tdldb_t;
')
    list_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
')

++++++++++++++++++++++++++++++
## <summary>
## Use tdldb database files in /tmp/[rp|fp|cc]/tdldb
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="database_label">
## Database file label.
## </param>
## <param name="object">
## Database file name. Also used to derive lock file name.
## </param>
#
# interface('polaris_tdldb_use',
# gen_require(''
    type polaris_tdldb_t;
    type tmp_t;
')
    manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
    manage_files_pattern($1, polaris_tdldb_t, $2)
    allow $1 $2:file map;
    allow $1 polaris_tdldb_t:file lock;
    type_transition $1 polarisTdldb_t : file $2 "$3";
    type_transition $1 polaris_tdldb_t : file $2 "$3.lock";

    # manage /var/tmp/tdldb_ene_fifo.0xYYYYY files - it seems there is
    # no way to assign separate label to them
    manage_fifo_files_pattern($1, tmp_t, tmp_t)

    # tdllib_database_handle_open_internal through libuuid calls
    # uuid_generate_time_generic, which needs access to udp socket
    # once it reaches get_node_id function
    allow $1 self:udp_socket { create ioctl }
')

++++++++++++++++++++++++++++++
## <summary>
## Setup tdldb database persistent files in
## /tmp/[rp|fp|cc]/tdldb/persist-config
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="database_label">
## Database file label.
## </param>
## <param name="object">
## Database file name. Also used to derive lock file name.
## </param>
#
# interface('polaris_tmp_tdldb_persist_setup',`
  gen_require(`
  type polaris_tdldb_t;
  type polaris_tdldb_persist_t;
  `)
  filetrans_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t, dir, "persistent-config")
  # allow creation of /tmp/rp/tdldb/persistent-config
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t)
  # Manage files inside of its own polaris_tdldb_persist_t directories
  manage_files_pattern($1, polaris_tdldb_persist_t, polaris_tdldb_persist_t)
  `)

#################################################
## <summary>
## Manage tdldb directories
## </summary>
## <param name="domain">
## The domain serving as polaris_tdldb type
## </param>
## <summary>
## </summary>
# interface('polaris_tdldb_manage_dirs',`
  gen_require(`
  type polaris_tdldb_t;
  `)
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb)
  `)
## <summary>
##      Use polaris_dir_db_tdldb_t database.
## </summary>

## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

interface(`polaris_db_tdldb_dir_use',
    gen_require(`
        type polaris_dir_db_tdldb_t;
        ')
    polaris_tdldb_use($1, polaris_dir_db_tdldb_t, DB_DIR)
    ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariswncd, 1.0);

    gen_require(`
        type polaris_wncd_t;
        ')

    polaris_btrace_data_manage(polaris_wncd_t)
polaris_crtf_data_manage(polaris_wncd_t)
polaris_chasfs_manage(polaris_wncd_t)
polaris_tdlresolve_read(polaris_wncd_t)
polaris_tdldb_list_dirs(polaris_wncd_t)
polaris_cpld_read(polaris_wncd_t)
polaris_lua_read(polaris_wncd_t)
polaris_flashlib_read(polaris_wncd_t)
polaris_riloc_sman_ui_serv_connect(polaris_wncd_t)
polaris_db_tldldb_dir_use(polaris_wncd_t)

# wncd need setrlimit to change limit of resource
allow polaris_wncd_t self:process setrlimit;
allow polaris_wncd_t self:capability sys_resource;

# allow tcp connection from http port
allow polaris_wncd_t self:capability net_bind_service;
corenet_tcp_bind_http_port(polaris_wncd_t)

# allow udp for dhcpcd
corenet_udp_bind_dhcpd_port(polaris_wncd_t)
corenet_udp_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg };

# allow AF_PACKET
allow polaris_wncd_t self:capability net_raw;
allow polaris_wncd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# required in function ewlc_capwap_dgram_srvr_state_update()
allow polaris_wncd_t self:rawip_socket { create_socket_perms setopt ioctl };
corennet_raw_bind_generic_node(polaris_wncd_t)
gen_REQUIRE(`
  type port_t;
')
allow polaris_wncd_t port_t:rawip_socket name_bind;

# allow to read /etc/passwd
auth_use_nsswitch(polaris_wncd_t)

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_wncd_t)
polaris_socketat_nsfs_read(polaris_wncd_t)

# each instance of wncd has a devshell support
corennet_tcp_bind_polaris_wncd_devshell_port(polaris_wncd_t)

# extra instances of wncd do set up cyan database for given elastic number
polaris_dynconfig_setup(polaris_wncd_t)
allow polaris_wncd_t self:capability dac_override;

# wncd does ionotify for /bootflash/apple_device_map.xml file in
# wsa_notif_register_filepath function
polaris_bootflash_read(polaris_wncd_t)
polaris_persistent_watch(polaris_wncd_t)
# manage pem certificates on /bootflash
polaris_persistent_manage(polaris_wncd_t)

# for /dev/shm/cerrno_dll
polaris_cerr_shm_manage(polaris_wncd_t)

# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

type polaris_wlc_ap_images_t;
files_type(polaris_wlc_ap_images_t)

# wncd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncd_t)

# wncd works with AF_NETLINK NLMSG_APP_SIP ewlc_sip_netlink_sock_init
allow polaris_wncd_t self:netlink_socket create_socket_perms;

logging_send_syslog_msg(polaris_wncd_t)

# binds to mdns port from mdns_ipv4_socket_init function
corenet_udp_bind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wncd_t)

#allow read/write/mmap access to awips file
gen_require(

type polaris_awips_signature_file_t;
)
allow polaris_wncd_t polaris_awips_signature_file_t::file { map read open getattr unlink};

# allow read / write / unlink access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_wncd_t)

# wncd ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenet_tcp_connect_lisp_cons_control_port(polaris_wncd_t)

# binds to mdns bcp port from mdns bcp function
corenet_udp_bind_mdns_bcp_port(polaris_wncd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_wncd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.te
No license file was found, but licenses were detected in source scan.

#
# July 2018, Victor Kamensky
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

########################################
## <summary>
##     Connect to and send messages to /tmp/idope_svr and
## /tmp/shfwd_svr unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_fed_debug_sock_write',
    gen_require(`
        type polaris_fed_debug_sock_t;
        type polaris_ngwc_fed_debug_mgr_t;
        type tmp_t;
    `)
)

    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_debug_mgr_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_debug_sock_t)
`
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
policy_module(polarispsd, 1.0);

gen_require(`
    type polaris_psd_t;
`)

polaris_btrace_data_manage(polaris_psd_t)
polaris_crft_data_manage(polaris_psd_t)
polaris_chasfs_manage(polaris_psd_t)
polaris_tdlresolve_read(polaris_psd_t)
polaris_tdlldb_list_dirs(polaris_psd_t)
polaris_cpld_read(polaris_psd_t)
polaris_flashlib_read(polaris_psd_t)

polaris_ripc_sman_ui_serv_connect(polaris_psd_t)
polaris_db_tdlldb_dir_use(polaris_psd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_psd_t)

# psd wants to run /usr/binos/bin/cfgwr command
corecmd_exec_bin(polaris_psd_t)
corecmd_exec_shell(polaris_psd_t)

# provide objstore access
polaris_disk_objstore_read(polaris_psd_t)

# work with /tmp files (/tmp/sh-thd-*)
type polaris_psd_tmp_t;
files_tmp_file(polaris_psd_tmp_t)
files_tmp_filetrans(polaris_psd_t, polaris_psd_tmp_t, file)
manage_files_pattern(polaris_psd_t, polaris_psd_tmp_t, polaris_psd_tmp_t)

polaris_obfl_data_read(polaris_psd_t)

allow polaris_psd_t self:capability { fsetid };

allow polaris_psd_t self:capability { dac_override chown };
allow polaris_psd_t self:netlink_route_socket rw_netlink_socket_perms;
logging_send_syslog_msg(polaris_psd_t)

#ad need detect which terminal to use as console, need read permission to ttyS*
#ad need read/write grub configure file /boot/grub/menu.*: read /boot/grub/menu.bak
#ad , generate /boot/grub/menu.list
#ad read access to bootflash for bin file loading
ifdef('vxe_family',
term_use_unallocated_ttys(polaris_psd_t)
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef('wlc_family',
term_use_unallocated_ttys(polaris_psd_t)
bootloader_rw_config(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef('vwlc_platform',
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
')
polaris_disk_csl_manage(polaris_psd_t)

fs_read_nfs_files(polaris_psd_t)

polaris_dyncfg_tmp_read(polaris_psd_t)

polaris_read_packages_conf(polaris_psd_t)

#ad handling /tmp/restconf
type polaris_restconf_t;
files_tmp_file(polaris_restconf_t)

files_tmp_filetrans(polaris_psd_t, polaris_restconf_t, dir, "restconf")
polaris_restconf_manage(polaris_psd_t)

#ad handling /tmp/.ncsshd_authorized_keys
type polaris_nccshd_keys_t;
files_tmp_file(polaris_nccshd_keys_t);

files_tmp_filetrans(polaris_psd_t, polaris_nccshd_keys_t, dir, ".ncsshd_authorized_keys")
polaris_nccshd_keys_manage(polaris_psd_t)

polaris_tmp_tdldb_persist_setup(polaris_psd_t)

polaris_tdldb_persist_setup(polaris_psd_t)
# write mem updates the grub config files
optional_policy('
polaris_grubcfg_manage(polaris_psd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris fpm Policy Rules.</summary>

####################################################################
## <summary>
## Write fpm /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_fpm_var_sock_write',
    gen_require(
        type polaris_fpm_t;
        type polaris_fpm_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_fpm_var_run_t)
    allow $1 polaris_fpm_t:unix_stream_socket { connectto };
    )

####################################################################
## <summary>
## Manage mqipc fpm2fmrp shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
#
interface(`polaris_fpm2fmrp_mqipc_use',`
  gen_require(`
    type polaris_fpm2fmrp_mqipc_t;
  `)
  polaris_mqipc_use($1, polaris_fpm2fmrp_mqipc_t)
`)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.if
No license file was found, but licenses were detected in source scan.

# # Oct 2020, Xin Xiang
# # Copyright (c) 2020 by Cisco Systems, Inc.
# # All rights reserved
#

### <summary>Polaris Doppler Policy Rules.</summary>

### <summary>
### Work (read, write, ioctl) with /dev/dmamap
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_dmammap_dev_use',`
  gen_require(`
    type device_t;
    type polaris_dmammap_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
  read_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
  allow $1 polaris_dmammap_device_t:chr_file map;
`)

### <summary>
### Work (read, write, ioctl) with /dev/dmamap
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
## </param>
#
interface('polaris_dplr_dev_use',
    gen_require(
        type device_t;
        type polaris_dplr_device_t;
    ')
)
write_chr_files_pattern($1, device_t, polaris_dplr_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_device_t)
allow $1 polaris_dplr_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaris doppler.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
/usr/binos/conf/pvp.sh -- gen_context(system_u:object_r:polaris_pvp_exec_t,s0)
/tmp/sw/rp/max_elastic_bays -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/cc/0(/.*)?                          gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/cc/.*/pvp(/.*)?                     gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/or/sw_lic_service(/.*)?     gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/or/sw_csl_service(/.*)?     gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/or/rp_(.*)(/.*)?            gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/(.*)?                        gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/sai_process(/.*)?          gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/cc/.*/pvp/sai_process(/.*)?      gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/cc/0(/.*)?                          gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/rp/pvp/process_state(/.*)?        gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/cc/0(/.*)?                          gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_process_state_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.fc
No license file was found, but licenses were detected in source scan.

#
policy_module(polariswlc, 1.0);

# hanet driver used by vwlc, is there better place for it?
# type polaris_hanet_device_t;
# dev_node(polaris_hanet_device_t)

gen_require(
    type polaris_wlc_ap_images_t;
    type mnt_t;
    attribute polaris_extended_domain;
)

# transition when /mnt/images is created
filetrans_pattern(polaris_extended_domain, mnt_t, polaris_wlc_ap_images_t, dir, "images")

# epaN and epactrlN devices
# type polaris_epa_device_t;
# dev_node(polaris_epa_device_t)

# luna_fpgs device
# type polaris_luna_mbfpga_device_t;
# dev_node(polaris_luna_mbfpga_device_t)

# astro device
# type polaris_astro_device_t;
# dev_node(polaris_astro_device_t)

# cpp_il device
# type polaris_cpp_il_device_t;
# dev_node(polaris_cpp_il_device_t)

# oob_evfc device
# type polaris_oob_evfc_device_t;
# dev_node(polaris_oob_evfc_device_t)

# on vwlc all processes read grub_cisco_version in polaris_disk_varied_t
# gen_require(
#    attribute polaris_domain;
#)
# polaris_disk_varied_search(polaris_domain)

# /dev/sfp-ktr device
type polaris_sfp_katar_device_t;
dev_node(polaris_sfp_katar_device_t)

#if handle /tmp/vxe_disk_XXX_YYY files
ifdef('vwlc_platform',
  type unconfined_service_t;
)
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)
')
type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

# on vWLC, all processes read grubenv from EFI disk partition.
gen_require('
  attribute polaris_domain;
')
polaris_vwlc_grub_efi_search(polaris_domain)

type polaris_vwlcinstall_info_t;
polaris_pfile_type(polaris_vwlcinstall_info_t)

gen_require('
  type unconfined_service_t;
  type polaris_disk_varied_t;
')
#if unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vwlcinstall_info_t, file, ".install_info")

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
policy_module(polarisnifmgr, 1.0);

gen_require(''
    type polaris_nif_mgr_t;
')

polaris_ripc_sman_ui_serv_connect(polaris_nif_mgr_t)

polaris_btrace_data_manage(polaris_nif_mgr_t)
polaris_crft_data_manage(polaris_nif_mgr_t)
polaris_chasfs_manage(polaris_nif_mgr_t)
polaris_tdlresolve_read(polaris_nif_mgr_t)
polaris_tdlldb_list_dirs(polaris_nif_mgr_t)
polaris_cpld_read(polaris_nif_mgr_t)
polaris_lua_read(polaris_nif_mgr_t)
polaris_flashlib_read(polaris_nif_mgr_t)

#if romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_nif_mgr_t)
logging_send_syslog_msg(polaris_nif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_nif_mgr_t self:tcp_socket ioctl;

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_nif_mgr_t)

# /dev/shm/sdm access
optional_policy('polaris_sdm_shm_manage(polaris_nif_mgr_t)
')

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_nif_mgr_t)

# allow create and write access to the /proc/*_sesa file

gen_require('
    type polaris_proc_sesa_t;
')
polaris_proc_sesa_create_write(polaris_nif_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.te
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polarisdmiopdatamgrd, 1.0);

gen_require('
    type polaris_dmi_opdatamgrd_t;
')

# allow to get attr of /proc file system
domain_read_all_domains_state(polaris_dmi_opdatamgrd_t)

# work with /var/log/dmi/ files
type polaris_dmi_var_log_t;
logging_log_file(polaris_dmi_var_log_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
logging_log_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, dir, "dmi")

polaris_chasfs_manage(polaris_dmi_opdatamgrd_t)
polaris_btrace_data_manage(polaris_dmi_opdatamgrd_t)
polaris_cpld_read(polaris_dmi_opdatamgrd_t)
polaris_boot_tmp_read(polaris_dmi_opdatamgrd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_dmi_opdatamgrd_t)

# this (opdatamgrd.sh) process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_dmi_opdatamgrd_t)
corecmd_exec_bin(polaris_dmi_opdatamgrd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_dmi_opdatamgrd_t)

# opdatamgrd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_dmi_opdatamgrd_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_dmi_opdatamgrd_t)

allow polaris_dmi_opdatamgrd_t self:capability { sys_resource dac_override };

# handling of /tmp/stream-parsers
type polaris_dmi_parser_t;
files_tmp_file(polaris_dmi_parser_t)
files_tmp_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, dir, "stream-parsers")
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, tmp_t, polaris_dmi_parser_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, polaris_dmi_parser_t)
mount_domtrans(polaris_dmi_opdatamgrd_t)

# confd_cli runs under our label
allow polaris_dmi_opdatamgrd_t self:tcp_socket create_socket_perms;

# runs ps that wants to have access to containers files
optional_policy(`
polaris_disk_vman_dir_list(polaris_dmi_opdatamgrd_t)
`)
polaris_sandbox_file_dir_list(polaris_dmi_opdatamgrd_t)
polaris_sandbox_file_getattr(polaris_dmi_opdatamgrd_t)
# runs find to search all 'parse.*' files
# find . -perm /111 -name parse.* -exec basename {} ;
# LOOK AT ME it seems that it does search on customer visible
directories, can and whether customer supposed to be
able give parse.* files to dmi opdatamgrd, could it
# be exploited?
files_getattr_all_files(polaris_dmi_opdatamgrd_t)
files_getattr_all_dirs(polaris_dmi_opdatamgrd_t)

# access to /dev/pts/0
ssh_use_ptys(polaris_dmi_opdatamgrd_t)

directly work with to /dev/ttyS1
term_use_unallocated_ttys(polaris_dmi_opdatamgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris ngwc_fed Policy Rules.</summary>

#############################################
## <summary>
##     Connect to and send messages to /tmp/dbgmns__sv socket.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_fed_sock_write',`
gen_require(`
    type polaris_fed_sock_t;
    type polaris_ngwc_fed_t;
    type tmp_t;
`)

allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};
write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
')

########################################
## <summary>
##      Allow the specified domain able to read fed /tmp files.
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      File name in /tmp that the fed domain creates and other domains
##      access.
##      </summary>
## </param>
#
# interface('polaris_fed_tmp_files_read',
    gen_require(
        type polaris_fed_tmp_t;
    ')

    read_files_pattern($1, polaris_fed_tmp_t, polaris_fed_tmp_t)
')

########################################
## <summary>
##      Allow to read and write /tmp/epc_ws/fed_to_wif_pipe file.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and ngwc-fed pipe interaction.
##      </summary>
## </param>
#
# interface('polaris_fed_shm_file_read',
    gen_require(
        type polaris_ngwc_fed_t;
    ')

    allow $1 polaris_ngwc_fed_t:shm { associate read unix_read unix_write write };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.if
No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarismobilityd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.fc

No license file was found, but licenses were detected in source scan.

# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisdmivtyserverutild, 1.0);

gen_require(
    type polaris_dmi_vtyserverutild_t;
')

polaris_btrace_data_manage(polaris_dmi_vtyserverutild_t)
polaris_chasfs_manage(polaris_dmi_vtyserverutild_t)
polaris_tdlresolve_read(polaris_dmi_vtyserverutild_t)
polaris_tdlldb_list_dirs(polaris_dmi_vtyserverutild_t)
polaris_cpld_read(polaris_dmi_vtyserverutild_t)
polaris_flashlib_read(polaris_dmi_vtyserverutild_t)

allow polaris_dmi_vtyserverutild_t self:socket { connect create read write };

type polaris_dmi_vtyserverutild_tmp_t;
files_tmp_file(polaris_dmi_vtyserverutild_tmp_t)
files_tmp_filetrans(polaris_dmi_vtyserverutild_t, polaris_dmi_vtyserverutild_tmp_t, fifo_file, ",.DMI_FIFO")
manage_fifo_files_pattern(polaris_dmi_vtyserverutild_t,
polaris_dmi_vtyserverutild_tmp_t,polaris_dmi_vtyserverutild_tmp_t)

logging_send_syslog_msg(polaris_dmi_vtyserverutild_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.te
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.

dnl All rights reserved

dnl
define(`mqipc_stem', `translit(patsubst($1, `-mqipc$', `'), `-', `_'))
define(`mqipc_label', `format(`polaris_%s_mqipc_t', mqipc_stem($1)))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc.m4

No license file was found, but licenses were detected in source scan.

#

# November 2020, Christine Hwang
#

# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris Cabo GNSS Policy Rules.</summary>

### <summary>
## Work (read, write, ioctl) with /dev/ttyS1
### </summary>

### <param name="domain">
## Domain allowed access.
### </param>

interface(`polaris_cabo_gnss_dev_use',
    gen_require(`
        type device_t;
        type polaris_cabo_gnss_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
    read_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
    allow $1 polaris_cabo_gnss_device_t:chr_file map;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.if

No license file was found, but licenses were detected in source scan.
policy_module(polaristservice, 1.0);

polaris_process_domain_template(tservice_telnet)

polaris_process_domain_template(tservice_ssh)

gen_require(
    type inetd_exec_t, inetd_t;
)

domtrans_pattern(polaris_tservice_telnet_t, inetd_exec_t, inetd_t)

polaris_chasfs_manage(polaris_tservice_telnet_t)
polaris_btrace_data_data_managet(polaris_tservice_telnet_t)
polaris_cpld_read(polaris_tservice_telnet_t)
polaris_boot_tmp_read(polaris_tservice_telnet_t)
polaris_rmonbifo_tmp_read(polaris_tservice_telnet_t)

corecmd_exec_shell(polaris_tservice_telnet_t)
corecmd_exec_bin(polaris_tservice_telnet_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tservice_telnet_t)

dmidecode_domtrans(polaris_tservice_telnet_t)

allow polaris_tservice_telnet_t self:capability sys_resource;
kernel_read_system_state(polaris_tservice_telnet_t)

gen_require(
    type initrc_exec_t, initrc_t;
)

domtrans_pattern(polaris_tservice_telnet_t, initrc_exec_t, initrc_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_tservice_telnet_t)

# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobe /usr/sbin/xinetd -f
#    /tmp/chassis/local/rp/chasfs/rp/0/0/etc/telnet/xinetd_telnetd.conf
polaris_chvrf_domtrans(polaris_tservice_telnet_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.te

No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019, 2021 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris WLC Platform Policy Rules.</summary>

# Work (read, write, ioctl) with /dev/hanet
## Domain allowed access.

interface('polaris_hanet_dev_use',
  gen_require(',
    type device_t;
    type polaris_hanet_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
  read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
')

# Work (read, write, ioctl) with /dev/epa[0-9]* and /dev/epactrl[0-9]*
## Domain allowed access.

interface('polaris_epa_dev_use',
  gen_require(',
    type device_t;
    type polaris_epa_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_epa_device_t)
)
read_chr_files_pattern($1, device_t, polaris_eoa_device_t)
allow $1 polaris_eoa_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/luna_mbfpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_luna_mbfpga_dev_use',
    gen_require(
        type device_t;
        type polaris_luna_mbfpga_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/astro device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_astro_dev_use',
    gen_require(
        type device_t;
        type polaris_astro_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_astro_device_t)
    read_chr_files_pattern($1, device_t, polaris_astro_device_t)
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/cpp_il device
## </summary>
## <param name="domain">
##      <summary>
## Domain allowed access.

```cpp
interface(`polaris_cpp_il_dev_use',`
    gen_require(`
        type device_t;
        type polaris_cpp_il_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
')
```

## Work (read, write, ioctl) with /dev/oob_evfc device

```cpp
interface(`polaris_oob_evfc_dev_use',`
    gen_require(`
        type device_t;
        type polaris_oob_evfc_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
    read_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
')
```

## Work (read, write, ioctl) with /dev/sfp-ktr device

```cpp
interface(`polaris_sfp_katar_dev_use',`
    gen_require(`
        type device_t;
        type polaris_sfp_katar_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
```
read_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
')

########################################################################
## <summary>
## Read vWLC install info files
## </summary>
## <param name="domain">
##      <summary>
##          Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vwlcinstall_info_read',`
gen_require(`
type polaris_vwlcinstall_info_t;
')
read_files_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
list_dirs_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
')

########################################################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##          Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vwlc_grub_info_read',`
gen_require(`
type polaris_grubver_t;
type polaris_grub_bios_t;
type polaris_grub_efi_t;
')
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

########################################################################
## <summary>
## Search /dev/vda1 device the efi partition
```c
#define(`database_stem', `translit(patsubst($1, `_DB$', `'), `A-Z', `a-z')')
#define(`database_label', `format(`polaris_%s_db_tdldb_t', database_stem($1))')
#define(`database_use_map', `defn(format(`database_use_map[%s-%s]', `$1', `$2'))')
define(`database_use_map_set', `define(format(`database_use_map[%s-%s]', `$1', `$2', `$3'))')
```

```
# Work (read, write, ioctl) with /dev/vda1 device

interface(`polaris_vwlc_grub_efi_use',`
gen_require(`
type polaris_grub_efi_t;
`)write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')
```

```
Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.if
No license file was found, but licenses were detected in source scan.
```
polaris_dmidmidmauthd

policy_module(polaris_dmidmidmauthd, 1.0);

gen_require(
    type polaris_dmi_dmiauthd_t;
)

polaris_btrace_data_manage(polaris_dmi_dmiauthd_t)
polaris_crf_data Manage(polaris_dmi_dmiauthd_t)
polaris_chasfs_manage(polaris_dmi_dmiauthd_t)
polaris_tdlresolve_read(polaris_dmi_dmiauthd_t)
polaris_tdlldb_list_dirs(polaris_dmi_dmiauthd_t)
polaris_cpld_read(polaris_dmi_dmiauthd_t)
polaris_flashlib_read(polaris_dmi_dmiauthd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_dmiauthd_t)
polaris_db_tdlldb_dir_use(polaris_dmi_dmiauthd_t)

# dmiauthd creates and binds to /tmp/.DmiAuth.socket unix socket

# from dmilib iosp_connect through libiosp iosp_token_read_from_file
# iosp_token_read_from_file reads /tmp/rp/.iosp_dmiauthd
polaris_dmiauthd_token_read(polaris_dmi_dmiauthd_t)

gen_require(
    type polaris_confTd_tmp_t;
)

# This is applicable to wireless platforms running in standby monitoring mode
# wherein dmiauthd create temporary files in /tmp/confd upon switchover and
# trigger ConfD restart.
manage_files_pattern(polaris_dmi_dmiauthd_t, polaris_confTd_tmp_t, polaris_confTd_tmp_t)
manage_dirs_pattern(polaris_dmi_dmiauthd_t, polaris_confTd_tmp_t, polaris_confTd_tmp_t)

########################################################################
# "show netconf-yang diagnostics [all | last | message]" invokes
# /usr/ibinos/conf/confd/dmid_diag_logs.sh
########################################################################
polaris_utility_domain_template(dmid_diag_logs)
polaris_bexecute_domtrans(polaris_dmi_dmiauthd_t)
polaris_bexecute_domain(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_exec_t)

# signal sent during the show cmd
polaris_send_signal_to_bexecute(polaris_dmi_dmiauthd_t)

# read files in /tmp/netconf-yang-diag
polaris_dmiauthd_tmp_diags_read(polaris_dmid_diag_logs_t)

# need write/ioctI/getattr access for pipes
polaris_dmiauthd_use_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_chasfs_read(polaris_dmid_diag_logs_t)
polaris_cpld_read(polaris_dmid_diag_logs_t)
dev_read_sysfs(polaris_dmid_diag_logs_t)
auth_use_nsswitch(polaris_dmid_diag_logs_t)
polaris_boot_tmp_read(polaris_dmid_diag_logs_t)
fs_getattr_tmpfs(polaris_dmid_diag_logs_t)

# bash tmp files, such as /tmp/sh-thread-1599654988
type polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, polaris_dmid_diag_logs_tmp_t)

# execute /bin/sed
corecmd_exec_bin(polaris_dmid_diag_logs_t)
# Allow diagnostics feature to create log file in bootflash

```bash
# execute /bin/tar
corecmd_exec_bin(polaris_dmi_dmiauthd_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_dmi_dmiauthd_t)
# create log file in bootflash
polaris_bootflash_manage(polaris_dmi_dmiauthd_t)
```

allow polaris_dmi_dmiauthd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiantbd.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

```
/opt/confd/bin/confd -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/mmap_schema --
gen_context(system_u:object_r:polaris_mmap_schema_exec_t,s0)
/usr/binos/bin/vip-confd-startup.sh -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/usr/bin/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/usr/binos/conf/execute_confd_cli.sh -- gen_context(system_u:object_r:polaris_confd_cli_exec_t,s0)
/usr/binos/conf/confd_logs.sh -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/var/confd0(/.*)? gen_context(system_u:object_r:polaris_confd_var_t,s0)
/dev/shm/confd/.*? gen_context(system_u:object_r:polaris_confd_shm_t,s0)
/tmp/confd/.*? gen_context(system_u:object_r:polaris_confd_tmp_t,s0)
/tmp/confd_cli/.*? gen_context(system_u:object_r:polaris_confd_cli_tmp_t,s0)
/tmp/vconfd/.*? gen_context(system_u:object_r:polaris_vconfd_tmp_t,s0)
/var/bin/vconfd_script_.*admin_tech.*.sh -- gen_context(system_u:object_r:polaris_admin_tech_exec_t,s0)
/var/tech(/.*)? gen_context(system_u:object_r:polaris_admin_tech_var_t,s0)

/bootflash/admintech gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/admintech_trace gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/MEMORY_LOG_.*.text gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/collated_log_* gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
```
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.fc
No license file was found, but licenses were detected in source scan.

#  
# September 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2020 by Cisco Systems, Inc.  
# All rights reserved  
#  

policy_module(polarisunconfined, 1.0);

## <desc>
## <p>
## IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_iosd, true)

## <desc>
## <p>
## All polaris processes except IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_all, true)

gen_require(`
    type apmd_t;
    type auditd_t;
    type inetd_t;
    type init_t;
    type initrc_t;
    type journalctl_t;
    type rpcbind_t;
    type rpcd_t;
    type sshd_t;
    type syslogd_t;
    type telnetd_t;
    type udev_t;
    type virtd_t;
    type virtlogd_t;
    type vmtools_t;
    type ifconfig_t;
    type setfiles_t;
    type iptables_t;`)
type virsh_t;
type svirt_t;
type svirt_lxc_net_t;
type virtd_lxc_t;
)
polaris_domain_maybe_unconfined(apmd_t)
polaris_domain_maybe_unconfined(auditd_t)
polaris_domain_maybe_unconfined(inetd_t)
polaris_domain_maybe_unconfined(init_t)
polaris_domain_maybe_unconfined(initrc_t)
polaris_domain_maybe_unconfined(journalctl_t)
polaris_domain_maybe_unconfined(rpcbind_t)
polaris_domain_maybe_unconfined(rpcd_t)
polaris_domain_maybe_unconfined(sshd_t)
polaris_domain_maybe_unconfined(syslogd_t)
polaris_domain_maybe_unconfined(telnetd_t)
polaris_domain_maybe_unconfined(udev_t)
polaris_domain_maybe_unconfined(virtd_t)
polaris_domain_maybe_unconfined(virtlogd_t)
polaris_domain_maybe_unconfined(vmttools_t)
polaris_domain_maybe_unconfined(ifconfig_t)
polaris_domain_maybe_unconfined(setfiles_t)
polaris_domain_maybe_unconfined(iptables_t)
polaris_domain_maybe_unconfined(virsh_t)
polaris_domain_maybe_unconfined(svirt_t)
polaris_domain_maybe_unconfined(svirt_lxc_net_t)
polaris_domain_maybe_unconfined(virtd_lxc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.te

No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/HTX-IOX(/.*)? gen_context(system_u:object_r:polaris_htx_iox_tmp_t,s0)

#/dev/ssp_memif htx works with
/dev/ssp_memif -c gen_context(system_u:object_r:polaris_spp_memif_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/bin/os/conf/periodic.sh -- gen_context(system_u:object_r:polaris_periodic_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarislua, 1.0);

仰

Lua policy
仰

type polaris_lua_file_t;
files_type(polaris_lua_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.te
No license file was found, but licenses were detected in source scan.

# November 2020, Christine Hwang
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscabognss, 1.0);

gen_require(
    type polaris_cabo_gnss_t;
')
polaris_btrace_data_manage(polaris_cabo_gnss_t)
polaris_chasfs_manage(polaris_cabo_gnss_t)
polaris_tdlresolve_read(polaris_cabo_gnss_t)
polaris_cpld_read(polaris_cabo_gnss_t)

polaris_ripc_sman_ui_serv_connect(polaris_cabo_gnss_t)

# Allow sysfs read for platform ID and
# r/w on /sys/class/gpio/export
polaris_sysfs_manage(polaris_cabo_gnss_t)
dev_manage_sysfs_dirs(polaris_cabo_gnss_t)

# Allow Cabo GNSS to access/modify to GPS GPIO
polaris_ggpio_dev_read_write(polaris_cabo_gnss_t)

# Allow Cabo GNSS access to /dev/pps0
dev_rw_realtime_clock(polaris_cabo_gnss_t)

# allow system time capability to check for system timeout
allow polaris_cabo_gnss_t self:capability sys_time;

# Label Cabo GNSS TTY device
type polaris_cabo_gnss_device_t;
dev_node(polaris_cabo_gnss_device_t)

polaris_cabo_gnss_dev_use(polaris_cabo_gnss_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.te

No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl WLC Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 1)
max_bay_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'per_bay', 0)
max_bay_ripc_map_set('cc', 'per_bay', 1)
max_bay_ripc_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'global', 0)
max_bay_ripc_map_set('cc', 'global', 1)
max_bay_ripc_map_set('fp', 'global', 0)
dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/wlcmaps.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris rogued Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris flashcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.if
No license file was found, but licenses were detected in source scan.
policy_module(polarissmd, 1.0);

gen_require('  
  type polaris_smd_t;
  ')

polaris_btrace_data_manage(polaris_smd_t)  
polaris_crft_data_manage(polaris_smd_t)  
polaris_chasfs_manage(polaris_smd_t)  
polaris_tdldresolve_read(polaris_smd_t)  
polaris_tdldb_list_dirs(polaris_smd_t)  
polaris_cpld_read(polaris_smd_t)  
polaris_lua_read(polaris_smd_t)  
polaris_flashlib_read(polaris_smd_t)  
polaris_ripc_sman_ui_serv_connect(polaris_smd_t)

# working with smd persistent/ disk files  
type polaris_smd_disk_t;  
polaris_disk_type(polaris_smd_disk_t)  
manage_files_pattern(polaris_smd_t, polaris_smd_disk_t, polaris_smd_disk_t)

polaris_db_tdldb_dir_use(polaris_smd_t)

# access to persist tdldb (e.g. .dbpersist)  
polaris_tdldb.persist_setup(polaris_smd_t)

# for /dev/shm/cerrno_dell  
polaris_cerr_shm_manage(polaris_smd_t)

ifdef(`nyquist_platform',  
gen_require('  
  type polaris_bt_logger_smd_mqipc_t;  
  ')

# smd may start first and create this mqipc channel  
polaris_mqipc_create_name(polaris_smd_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)
polaris_lfts_dev_use(polaris_smd_t)

allow polaris_smd_t self:capability { sys_resource net_bind_service }

polaris_socketat_nsfs_read(polaris_smd_t)

allow polaris_smd_t self:process setrlimit;

corenets_tcp_bind_polaris_smd_devshell_port(polaris_smd_t)
corenets_tcp_bind_generic_node(polaris_smd_t)
allow polaris_smd_t self:tcp_socket { getattr setopt getopt bind create listen accept connect read write name_connect }
allow polaris_smd_t self:capability { net_admin sys_admin }

allow polaris_smd_t self:udp_socket { create_socket_perms recv_msg send_msg }
# smutil_msg_event_cb_handler() uses netlink
allow polaris_smd_t self:netlink_socket { bind create }

# LOOK AT ME: now smd may open arbitrary port on forwarding VRF (16)
# but in SELinux there is no way to differentiate between port spaces
# across VRFs or namespaces. For now let's grant smd_t access to all ports
# regardless of VRF. In future investigate ways to be more restrictive
corenets_udp_bind_generic_port(polaris_smd_t)
corenets_udp_sendrecv_generic_port(polaris_smd_t)
# LOOK AT ME: grants access to udp_bind on any node, but if we can
# be more specific and bind only to forwarding VRF related interfaces
corenets_udp_bind_generic_node(polaris_smd_t)

# smd want to listen on http port 80 on VRF_FWD, for webauth code please see
# smd/webauth/src/webauth_io.c
corenets_tcp_bind_http_port(polaris_smd_t)

allow polaris_smd_t self:capability dac_override;

logging_send_syslog_msg(polaris_smd_t)

allow polaris_smd_t self:capability net_raw;
allow polaris_smd_t self:packet_socket { create_socket_perms recv_msg send_msg }

# for access to disk html files (for webauth)
polaris_persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t
gen_require(`
  type initrc_t;
`)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23266
polaris_bootflash_filetrans(initrc_t, polaris_smd_disk_t, dir, "de_profile_dir")

# SANET is listening on http port(CSCvb41802)
# Hence, it needs to follow the same rule as nginx is using in polarisnginx.te
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris_smd_t)

polaris_issu_tmp_files_read(polaris_smd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
/usr/bin/os/conf/cedge-tanman.sh -- gen_context(system_u:object_r:polaris_cedge_tanman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/bin/os/conf/droputil.sh -- gen_context(system_u:object_r:polaris_droputil_exec_t,s0)

/tmp/rp/dropbox(/.*)?   gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)
/tmp/rp/droputil(/.*)?  gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisvman, 1.0);

general_require(
    type polaris_vman_t;
')

polaris_btrace_data_manage(polaris_vman_t)
polaris_crft_data_manage(polaris_vman_t)
polaris_chasfs_manage(polaris_vman_t)
polaris_tdlresolve_read(polaris_vman_t)
polaris_tdlldb_list_dirs(polaris_vman_t)
polaris_cpld_read(polaris_vman_t)
polaris_flashlib_read(polaris_vman_t)

polaris_rip_ser_connect(polaris_vman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_vman_t)

polaris_rmonbifo_tmp_read(polaris_vman_t)
polaris_boot_tmp_read(polaris_vman_t)

logging_send_syslog_msg(polaris_vman_t)

modutils_read_module_deps(polaris_vman_t)
modutils_read_module_config(polaris_vman_t)
modutils_manage_module_config(polaris_vman_t)
modutils_domtrans_insmod(polaris_vman_t)
files_read_kernel_modules(polaris_vman_t)

corecmd_exec_bin(polaris_vman_t)
corecmd_exec_shell(polaris_vman_t)

# ifconfig related, ifconfig is executed in its own context
sysnet_domtrans_ifconfig(polaris_vman_t)

# VMAN calls vmset_congestion_control_multiplex when the count
# of the bridge users reaches 2 and needs write permissions on
# contdev_multiplex
dev_rw_sysfs(polaris_vman_t)
fs_getattr_xattr_fs(polaris_vman_t)

virt_stream_connect(polaris_vman_t)
virt_read_pid_files(polaris_vman_t)
fs_rw_cgroup_files(polaris_vman_t)
kernel_read_system_state(polaris_vman_t)
# allow vman to read /dev/pts/*
term_use_generic_ptys(polaris_vman_t)
#allow polaris_vman_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_vman_t)
#allow vman to run brctl in it's own domain
brctl_domtrans(polaris_vman_t)
#allow vman to run /sbin/fsck in script
fstools_domtrans(polaris_vman_t)
#allow vman to mount rootfs on polaris_disk_vman_t
allow polaris_vman_t polaris_disk_vman_t:dir mounton;
fs_mount_xattr_fs(polaris_vman_t)
#allow vman have capability for modify owner of the file
allow polaris_vman_t self:capability { chown fowner fsetid };
#allow vman to bind to unreserved tcp ports while it searches for
#port available to guest console to listen on
corenet_tcp_bind_unreserved_ports(polaris_vman_t)

# working with vman /var/ files
type polaris_var_vman_t;
files_tmp_file(polaris_var_vman_t)
files_var_filetrans(polaris_vman_t, polaris_var_vman_t, dir, "virtual-instance")
manage_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_dirs_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_sock_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)

# working with vman persitsten files
type polaris_disk_vman_t;
polaris_disk_type(polaris_disk_vman_t)

gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
)
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir,
"virtual-instance")
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, file,
"virtual-instance.conf")
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir,
"vman_fdb")

# allow creation of /bootflash/virtual-instance.conf file
manage_files_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
# allow creation of /bootflash/virtual-instance and /bootflash/vman_fdb directories
manageDirs_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
# vman can manage files inside of its own polaris_disk_vman_t directories
manage_files_pattern(polaris_vman_t, polaris_disk_vman_t, polaris_disk_vman_t)
# after all above transition we need to grant vman right to work with any persistent storage file since it needs to access and write .ova files
polaris_persistent_manage(polaris_vman_t)

# vman uses netlink socket to talk to lxc watchdog driver
# please see binos/vman/src/vman_lxc_wd.c
allow polaris_vman_t self:netlink_generic_socket { create_socket_perms sendto recvfrom};

# vman calls tipc-config which in turns wants to create AF_TIPC socket
allow polaris_vman_t self:socket create_socket_perms;

# vman uses 'ip netns exec 0 ifconfig -a' command which in turns switches network namespace and need access to /proc/pid/ns/net file
fs_read_nsfs_files(polaris_vman_t)

# this label is created to exchange log related information between container and host.
type polaris_vman_log_t;
# By making this label belong to polaris persistent storage combined with vman inheriting rights to manage polaris_disk via polaris_persistent_manage(), vman gains rights to manage below dirs.
polaris_disk_type(polaris_vman_log_t)
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdIpsAlert-IOX" )
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdUrlf-IOX" )
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdAmp-IOX" )
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdTls-IOX" )
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLogMappings-IOX" )
allow polaris_vman_t polaris_vman_log_t:dir mounton;

# Allow vman to work with /bootflash/virtual-instance/UTD/rootfs
optional_policy(
  gen_require(`
  type container_file_t;
  `)
  allow polaris_vman_t container_file_t:filesystem { getattr unmount };)
)

# Allow vman/ioxman to work with /tmp/HTX-IOX
optional_policy(
  gen_require(`
  type polaris_htx_iox_tmp_t;
  `)
  allow polaris_vman_t polaris_htx_iox_tmp_t:dir {getattr mounton open read };)
)

# Allow vman to mount /tmp/binos-IOX
optional_policy(
  gen_require(`
  type polaris_qfp_memif_t;
  `)
  allow polaris_vman_t polaris_qfp_memif_t:dir mounton;)

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  23270
allow polaris_vman_t polaris_qfp_memif_t:dir mounton;

# vman_init.sh operates on /tmp/vman files
type polaris_vman_tmp_t;
files_tmp_file(polaris_vman_tmp_t)
files_tmp_filetrans(polaris_vman_tmp_t, polaris_vman_tmp_t, { file dir })
polaris_systemd_tmpfiles_tmp_filetrans(polaris_vman_tmp_t, dir, "vman")
manage_files_pattern(polaris_vman_tmp_t, polaris_vman_tmp_t, polaris_vman_tmp_t)
manage_dirs_pattern(polaris_vman_tmp_t, polaris_vman_tmp_t, polaris_vman_tmp_t)

# allow vman to work with /tmp/xml
fs_remount_tmpfs(polaris_vman_t)
fs_unmount_tmpfs(polaris_vman_t)
fs_unmount_xattr_fs(polaris_vman_t)
allow polaris_vman_t polaris_vman_tmp_t:dir mounton;
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_vman_t)
)

# relabel /bootflash/virtual-instance/UTD/tmpstaging to /dev/loopX
gen_require('
    type iso9660_t;
')
allow polaris_vman_t iso9660_t:filesystem { relabelfrom };

# configure /proc/sys/net/ipv4/conf/dpbr_0/arp_announce
ekernal_search_network_sysctl(polaris_vman_t)
ekernel_rw_net_sysctls(polaris_vman_t)
# configure e.g. /proc/sys/vm/nr_hugepages
kernel_rw_vm_sysctls(polaris_vman_t)

# need to do bind mount of /bootflash/SHARED-IOX
mount_domtrans(polaris_vman_t)

# vman accessing files under /tmp created by initrc like /tmp/gdev/md0/gdev-info
init_read_script_tmp_files(polaris_vman_t)

# DB persistence
polaris_tdldbpersist_setup(polaris_vman_t)
polaris_tmp_tdldb_persist_setup(polaris_vman_t)

gen_require(''
    type initrc_t;
')
files_tmp_filetrans(initrc_t, polaris_vman_tmp_t, file, "cgroup.log")
dmidecode_domtrans(polaris_vman_t)

# read /etc/libvirt/libvirt.conf
virt_read_config(polaris_vman_t)

# vman_cgroup_yaml.sh through prep_csr_kumo (binos_functions-pd) checks for
# ovf-env.xml file existence in variety of directories includind
# /cdrom0/ovf-env.xml
fs_read_iso9660_files(polaris_vman_t)

# allow vman to manage loop device: finding free /dev/loopN device
# note vman code iterated over all /dev/loop* devices and try to lock
# them. As part of that iteration it tries /dev/loop_control
# what it should do instead is to use /dev/loop_control to get free
# device
dev_rw_loop_control(polaris_vman_t)

# PLEASE LOOK AT ME
# allow vman to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_vman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_vman_t self:capability sys_resource;

# allow VMAN to move disk.img to the disk
allow polaris_vman_t self:process setfscreate;

# vman mounts directories on behalf of guest containers, it uses
# specified context for guest directories, need permission to
# relabel, mount, etc.
fs_relabelfrom_xattr_fs(polaris_vman_t)
virt_relabel_sandbox_filesystem(polaris_vman_t)
virt_mounton_sandbox_file(polaris_vman_t)
virt_manage_sandbox_files(polaris_vman_t)
gen_require(`
    type svirt_sandbox_file_t;
    `)
allow polaris_vman_t svirt_sandbox_file_t:filesystem mount;

# /tmp/.flashlock operations from tdllib_startup_cfg_ignored, mcp_getmonvar
allow polaris_vman_t self:capability dac_override;

# allow vman to stat /dev/kvm, executed by vman_common_init function
dev_getattr_kvm_dev(polaris_vman_t)
# vman in getfs_info_by_mediatype function inspects files in /tmp/gdev
gen_require('type udev_tmp_t;
')
read_files_pattern(polaris_vman_t, udev_tmp_t, udev_tmp_t)

#/usr/binos/conf/vman_exec.sh policy

polaris_utility_domain_template(vman_shell)

polaris_bexecute_domain(polaris_vman_shell_t, polaris_vman_shell_exec_t)

# vman_exec.sh calls mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_vman_shell_t)

# mcp_chvrf.sh calls vman_exec.sh back and then it call bexec.sh
polaris_bexecute_domtrans(polaris_vman_shell_t)
corecmd_exec_bin(polaris_vman_shell_t)

# inherits stdin from telnetd
telnet_use_ptys(polaris_vman_shell_t)

# allow use of ptys for vman tech support
telnet_use_ptys(polaris_vman_tech_t)

optional_policy('type polaris_chvrf_t;
')

# reads /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_vman_t)
'

# vman_is_machine_type_initialized clone needs cap_users sys_admin
allow polaris_vman_t self:cap_users sys_admin;

# vman_cgroup_yaml.sh searches for ovf-env.xml on cdrom0
fs_read_removable_files(polaris_vman_t)

# vman starts vman_init.sh that in turns calls virsh
gen_require('type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_vman_t, virsh_exec_t, virsh_t)

polaris_bexecute_domtrans(polaris_vman_t)
polaris_send_signal_to_bexecute(polaris_vman_t)

gen_require('type polaris_chvrf_t;
')

# inherited as stdin/stdout from vman
polaris_vman_use_fifo(polaris_chvrf_t)

# vman calls code_sign_verify VmanPackage
polaris_code_verify_domtrans(polaris_vman_t)

# vm_net_dev_utilization reads /proc/2962/net/dev
kernel_read_network_state(polaris_vman_t)

polaris_iosd_vcpu_read(polaris_vman_t)

#/usr/binos/conf/cgroup_reports.sh
polaris_utility_domain_template(cgroup_reports)

polaris_bexecute_domain(polaris_cgroup_reports_t, polaris_cgroup_reports_exec_t)
polaris_bexecute_domtrans(polaris_cgroup_reports_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_cgroup_reports_t)

corecmd_exec_bin(polaris_cgroup_reports_t)
auth_use_nsswitch(polaris_cgroup_reports_t)

fs_read_cgroup_files(polaris_cgroup_reports_t)
fs_list_cgroup_dirs(polaris_cgroup_reports_t)

# cgroup_reports.sh creates misc files under /tmp
type polaris_cgroup_reports_tmp_t;
files_type(polaris_cgroup_reports_tmp_t)
files_tmp_filetrans(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, file)
manage_files_pattern(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t)
fs_getattr_tmpfs(polaris_cgroup_reports_t)

#/usr/binos/conf/vman_techsupport.sh
polaris_utility_domain_template(vman_tech)

polaris_bexecute_domain(polaris_vman_tech_t, polaris_vman_tech_exec_t)
polaris_bexecute_domtrans(polaris_vman_tech_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_vman_tech_t)

# vman_techsupport.sh starts virsh -c qemu://system list --all
gen_require(''
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_vman_tech_t, virsh_exec_t, virsh_t)

# starts ip link show
sysnet_domtrans_ifconfig(polaris_vman_tech_t)
# starts brctl show
brctl_domtrans(polaris_vman_tech_t)

corecmd_exec_bin(polaris_vman_tech_t)
auth_use_nsswitch(polaris_vman_tech_t)

polaris_proc_rmonbifo_read(polaris_vman_tech_t)
polaris_chasfs_read(polaris_vman_tech_t)
polaris_cpld_read(polaris_vman_tech_t)

# starts ps aux
kernel_read_system_state(polaris_vman_tech_t)
domain_read_all_domains_state(polaris_vman_tech_t)
dev_read_sysfs(polaris_vman_tech_t)
# getattr of stdin/stdout of misc processes
term_getattr_unallocated_ttys(polaris_vman_tech_t)
term_read_console(polaris_vman_tech_t)

# reads /bootflash/virtual-instance/
polaris_disk_vman_read(polaris_vman_tech_t)

# find /etc/libvirt/lxc -name *.xml -print
virt_read_config(polaris_vman_tech_t)
# no interface that lists virt_etc_rw_t dir
gen_require(
    type virt_etc_rw_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_etc_rw_t, virt_etc_rw_t)

# find /var/run/libvirt -name *.xml -maxdepth 2 -print
virt_read_pid_files(polaris_vman_tech_t)
# no interface that lists virt_var_run_t dir
gen_require(
    type virt_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_var_run_t, virt_var_run_t)
# no interface that lists virt_lxc_var_run_t dir
gen_require(
    type virt_lxc_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_lxc_var_run_t, virt_lxc_var_run_t)
# no interface that lists qemu_var_run_t dir
gen_require(
    type qemu_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)
#allow read of /run/libvirt/qemu
read_files_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)

# by some strange reason /var/run/libvirt/network is under dnsmasq_var_run_t label
dnsmasq_read_pid_files(polaris_vman_tech_t)
# no interface that lists dnsmasq_var_run_t dir
gen_require(
    type dnsmasq_var_run_t;
)
list_dirs_pattern(polaris_vman_tech_t, dnsmasq_var_run_t, dnsmasq_var_run_t)
polaris_vman_var_read(polaris_vman_tech_t)

# cat /proc/net/dev
kernell_read_network_state(polaris_vman_tech_t)

# find /sys/class/net -name intsvc* -type d -print
dev_list_sysfs(polaris_vman_tech_t)

# grep over /varied/ovf-env.xml
polaris_disk_varied_read(polaris_vman_tech_t)

# writes into /tmp/vman_techsupport
polaris_vman_tmp_manage(polaris_vman_tech_t)

# find over /sys/fs/cgroup/memory/machine
fs_list_cgroup_dirs(polaris_vman_tech_t)
# cat /sys/fs/cgroup/memory/machine/memory.limit_in_bytes
fs_read_cgroup_files(polaris_vman_tech_t)

# runs df command
fs_getattr_xattr_fs(polaris_vman_tech_t)
fs_getattr_all_fs(polaris_vman_tech_t)
files_getattr_all_dirs(polaris_vman_tech_t)
# getattr over /run/netsns/2
fs_read_nsfs_files(polaris_vman_tech_t)

# check existence of vman btrace file before passing it to btdecode
polaris_vman_bt_getattr(polaris_vman_tech_t)
# check existence of pman btrace file for vman before passing it to btdecode
polaris_pman_bt_getattr(polaris_vman_tech_t)

# vman_techsupport.sh creates misc files under /tmp
type polaris_vman_tech_tmp_t;
files_type(polaris_vman_tech_tmp_t)
files_tmp_filetrans(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)
manage_files_pattern(polaris_vman_tech_t, polaris_vman_tech_tmp_t, polaris_vman_tech_tmp_t)

#allow vman tech support to read container logs including listing dirs
gen_require("
    type virt_log_t;
")
list_dirs_pattern(polaris_vman_tech_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_tech_t)

# allow vman to access /etc/passwd
auth_map_passwd(polaris_vman_shell_t)

#vman does lvm storage management e.g. vman_libvirt_strg_available_by_pool
lvm_domtrans(polaris_vman_t)

#Allow read of pid files e.g. /run/udev/data/b7:34
udev_read_pid_files(polaris_vman_t)

#allow vman to connect to the WAAS container for serial vman_register_socket
polaris_waas_stream_connect(polaris_vman_t)

# allow vman to pgrep
# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_vman_t)

# allow vman to kill LXC container process that hasn't shutdown
# inspite of a shutdown command
gen_require("
    type virtd_lxc_t;
")
polaris_vman_kill_process(virtd_lxc_t)

# allow vman to rsync using ioxman_syslib.sh
rsync_entry_type(polaris_vman_t)
corenet_tcp_connect_rsync_port(polaris_vman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/.ncsshd_authorized_keys(/.*)? gen_context(system_u:object_r:polaris_ncsshd_keys_t,s0)

Found in path(s):
No license file was found, but licenses were detected in source scan.

March 2017, Victor Kamensky

Copyright (c) 2016-2019 by Cisco Systems, Inc.
All rights reserved

### <summary>Polaris Btrace Policy Rules.</summary>

# Obfl policy

### <summary>
## Read obfl files (under /obfl, /varied/obfl, etc)
</summary>

### <param name="domain">
## Domain allowed access.
</param>

```
interface('polaris_obfl_data_read',
gen_require(''
type polaris_obfl_data_t;
    type root_t;
''
)

read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;
''
)
```

### <summary>
## Manage obfl files (under /obfl, /varied/obfl, etc
</summary>

### <param name="domain">
## Domain allowed access.
</param>

```
### <rolebase/>
#
interface(`polaris_obfl_data_manage`);
   gen_require(
      type polaris_obfl_data_t;
      type root_t;
      type var_t;
   )

   read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
   manage_files_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
   manage_dirs_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
   allow $1 polaris_obfl_data_t:file map;
 )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris Btrace Policy Rules.</summary>

# RIPC policy

### <summary>
## Work with ripc
### </summary>
### <param name="domain">
### </summary>
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface(`polaris_ripc`;
   corenet_tcp_bind_generic_node($1)
   allow $1 self:tcp_socket { getattr setopt getopt bind create listen accept connect read write };
   # bipc would like to issue "setsockopt(sock, SOL_SOCKET, SO_VRF, ", which requires
   # net_admin and sys_admin capabilities
allow $1 self:capability { net_admin sys_admin };

  polaris_socketat_nfs_read($1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrpc.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/sw/boot(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/isos(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/bootup_timestamp            gen_context(system_u:object_r:polaris_boot_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.fc
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
# Copyright (c) 2019 by Cisco Systems, Inc.
# All rights reserved
#

# polarisservicemgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris polarisboothelper Policy Rules.</summary>

###################################################
### <summary>
## Read any regular file/directory from /tmp/udev.

### <param name="domain">
### Domain allowed access.
### </param>

```c
interface('polaris_udev_tmp_read',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
    read_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)
```

## Manage any regular file/directory from /tmp/udev.

### <param name="domain">
### Domain allowed access.
### </param>

```c
interface('polaris_udev_tmp_manage',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
    manage_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    manage_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)
```

## Listdir of any regular directory from /tmp/udev.

### <param name="domain">
### Domain allowed access.
### </param>

```c
interface('polaris_udev_tmp_list_dirs',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
)
```
list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
')

#######################################
## <summary>
##   Watch udev_tmp_files directories and files
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface(`polaris_udev_tmp_watch';
  gen_require(`
type polaris_udev_tmp_files_t;
')
  allow $1 polaris_udev_tmp_files_t:{dir file} watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/usr/cpp/bin/cpp_driver -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_us_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
/usr/bin/os/conf/mcp_monitor_process_batchmode.sh --
gen_context(system_u:object_r:polaris_monitor_process_exec_t,s0)

/usr/bin/os/conf/pkg_summary.sh -- gen_context(system_u:object_r:polaris_pkg_summary_exec_t,s0)

/usr/bin/os/conf/pkg_to_tree.sh -- gen_context(system_u:object_r:polaris_pkg_to_tree_exec_t,s0)

/tmp/myhostname gen_context(system_u:object_r:polaris_hm_tmp_t,s0)
/tmp/show_provision_temp(/.*)? gen_context(system_u:object_r:polaris_show_provision_tmp_t,s0)
/tmp/fs_lock_bootflash gen_context(system_u:object_r:polaris_cli_fs_cmds_tmp_t,s0)

# used by "sh pla so filesystem bootflash: de" CLI
/usr/bin/os/conf/mcp_cli_fs_cmds.sh -- gen_context(system_u:object_r:polaris_cli_fs_cmds_exec_t,s0)

# used by "show platform software yang-management process monitor" CLI
/usr/bin/os/conf/mcp_monitor_dmi_proc.sh --
gen_context(system_u:object_r:polaris_monitor_dmi_process_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.fc

No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris odm Policy Rules.</summary>

#######################################
## <summary>
## Mqipc channel in sub directory and multiple servers on TDL
## channel is not supported by autogen code. ODM odm_clnt2svr_data
## channel is one of those. Allow domain to be one server on it.
## ODM elastic value is 2 now, add more if need in the future.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="mqipc_label">
## <summary>
## Mqipc channel file label.
## </summary>
## </param>
#
interface(’polaris_odm_clnt2svr_mqipc_create’,
        gen_require(’
        gen_require(’
type polaris_odm_client2server_data_mqipc_t;
')
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b1)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b0)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.if
No license file was found, but licenses were detected in source scan.

## <summary>Polaris install_mgr Policy Rules.</summary>

### <summary>Read /tmp/sw/inst_tmp_1 files and directories</summary>
### <param name="domain">Domain allowed access.</param>

interface('polaris_install_mgr_tmp_read',
gen_require(''
type polaris_install_mgr_tmp_t;
')
list_dirs_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
read_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
read_lnk_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
')

### <summary>Read/Write /.installer  files and directories</summary>
### <param name="domain">Domain allowed access.</param>
interface('polaris_install_disk_manage',
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_disk_install_t;
    )
)

filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, dir, ".installer")
filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, fifo_file, "inot_fifo")
manage_dirs_pattern($1, {polaris_disk_bootflash_t polaris_disk_install_t}, polaris_disk_install_t)
manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_fifo_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)

######################################
## <summary>
##      Read /bootflash/.installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_install_disk_read',
    gen_require(
        type polaris_disk_install_t;
    )
)

read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)

#######################################
## <summary>
##      Read copylog files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_read_user_file',
    gen_require(
        type polaris_user_file_t;
        type device_t;
    )
)
read_blk_files_pattern($1, device_t, polaris_user_file_t)
read_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
read_lnk_files_pattern($1, polaris_user_file_t, polaris_user_file_t)

### <summary>
### getattrib for copylog files (location varies by platform)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>

interface('polaris_user_file_getattrib',
  gen_require(,
    type polaris_user_file_t;
    type device_t;
  )
  getattrib_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.if
No license file was found, but licenses were detected in source scan.

# # March 2020, Victor Kamensky
# # Copyright (c) 2020 by Cisco Systems, Inc.
# # All rights reserved
#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Crankshaft (Overlord, Utah, Goldbeach, Neptune, TSN and Supernova) Platform Max Bay Limits
max_bay_map_set(rp', 'per_bay', 0)
max_bay_map_set(cc', 'per_bay', 19)
max_bay_map_set(fp', 'per_bay', 0)

max_bay_ripc_map_set(rp', 'per_bay', 0)
max_bay_ripc_map_set(cc', 'per_bay', 19)
max_bay_ripc_map_set(fp', 'per_bay', 0)

max_bay_ripc_map_set(rp', 'global', 0)
max_bay_ripc_map_set(cc', 'global', 19)
max_bay_ripc_map_set(fp', 'global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/crankshaftmaps.m4
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#

/usr/bin/vconfd_script_reboot.sh -- gen_context(system_u:object_r:polaris_vconfd_reboot_exec_t,s0)
/usr/bin/vconfd_script_if_reset.sh -- gen_context(system_u:object_r:polaris_vconfd_ifreset_exec_t,s0)
/usr/bin/vconfd_script_get_config.sh -- gen_context(system_u:object_r:polaris_vconfd_cfg_exec_t,s0)
/usr/bin/vconfd_script_vmanage_list_stats.sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_vmanage_clear_stats.sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_activate.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/mcp_upgrade_wrapper.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_nms_action.sh -- gen_context(system_u:object_r:polaris_vconfd_nms_exec_t,s0)
/usr/bin/vconfd_script_add_chassis_numbers_to_ztp.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_remove_chassis_numbers_from_ztp.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_upload_chassis_number_file.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/reset-conf -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/reset-logs -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/patch.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_reset_vsmart_serial_list.sh --
gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)

/usr/bin/vconfd_script_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.fc

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
policy_module(polaristdlresolve, 1.0);

genv_require('
    attribute polaris_extended_domain;
')

type polaris_tdlresolve_t;
files_type(polaris_tdlresolve_t)

files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve")
# tdl_boottime.sh uses /tmp/tdlresolve_tmp for some temp files
# which are moved into /tmp/tdlresolve latter
files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve_tmp")

type polaris_global_service_t;
files_type(polaris_global_service_t);

genv_require('
    type rsync_t;
    type polaris_btrace_base_t;
')

# tdl_cleanup_epochs.sh uses btrace
allow rsync_t polaris_btrace_base_t:file map;
# rsync invokes tdl_cleanup_epochs.sh as part of this set /proc/[pid]/oom_score_adj is done
allow rsync_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisqfp, 1.0);

polaris_process_domain_template(qfp)
polaris_cpp_process(polaris_qfp_t)
polaris_cpp_dev_use(polaris_qfp_t)
polaris_btrace_data_manage(polaris_qfp_t)
polaris_crft_data_manage(polaris_qfp_t)
polaris_chasfs_manage(polaris_qfp_t)
polaris_lsmpi_dev_use(polaris_qfp_t)
polaris_persistent_list_dirs(polaris_qfp_t);

# allow for hot add on azure
kernel_read_irq_sysctls(polaris_iumbed_t)
kernell_rw_irq_sysctls(polaris_iumbed_t)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597040.739:218): avc: denied { write } for pid=30997 comm="ucode_ctl_rx"
# name="config" dev="sysfs" ino=22363 scontext=system_u:system_r:polaris_qfp_t:s0
# tcontext=sysytem_u:object_r:sysfs_t:s0 tclass=file
develop sysns(polaris_qfp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_qfp_t)

# allow access to uio devices like /dev/uio0
dev_rw_userio_dev(polaris_qfp_t)

# Platforms with QAT v1.7 need map permission also
# qae device (/dev/icp_adf_ctl)
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)

allow polaris_qfp_t userio_device_t:chr_file map;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_qfp_t)

# qfp FIA (Feature Invocation Array) resides in /dev/shm/cpp_uocode_dram
# Those are set of instructions assembled by cpp control plane and passed
# to qfp to execute.
polaris_cpp_tmpfs_exec(polaris_qfp_t)

# qfp /var/run pid file
type polaris_qfp_var_run_t;
files_pid_file(polaris_qfp_var_run_t)
manage_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
manage_dirs_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
files_pid_filetrans(polaris_qfp_t, polaris_qfp_var_run_t, [ file dir ])
# mmap /var/run/dpkd/rte/config
allow polaris_qfp_t polaris_qfp_var_run_t::file map;

# qfp memif directory and file
type polaris_qfp_memif_t;
files_tmp_file(polaris_qfp_memif_t);
# qfp memif interface for binos clients in /tmp/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "memif")
# creates /tmp/binos-IOX/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "binos-IOX")
polaris_qfp_memif_manage(polaris_qfp_t)
# qfp memif interface for container in /bootflash/SHARED-IOX/memif
polaris_disk_type(polaris_qfp_memif_t)
gen_require(
    type polaris_disk_bootflash_t;
)
filetrans_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_qfp_memif_t, dir, "memif")

# work with /bootflash/SHARED-IOX/memif/memif-dp-svr
polaris_utdl_container_dgram_send(polaris_qfp_t)

# work (create/open/read/write) with hugetlbs files
fs_manage_hugetlbs_dirs(polaris_qfp_t)
fs_rw_hugetlbs_files(polaris_qfp_t)
gen_require(
    type hugetlbs_t;
)
allow polaris_qfp_t hugetlbs_t::file create;
# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlbs_t::file unlink;

allow polaris_qfp_t self:capability { sys_rawio sys_nice sys_admin };
allow polaris_qfp_t self:process setsched;

# is_nic_netmap_capable function, which is used by vnic_cfg_port, needs socket to
# work with interface parameters
allow polaris_qfp_t self:udp_socket create_socket_perms;

ifdef("crankshaft_family",
polaris_icc_broken_relocations(polaris_qfp_t)
')

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(
    polaris_dash_dev_use(polaris_qfp_t)
')

# netmap device (/dev/netmap)
type polaris_netmap_device_t;
dev_node(polaris_netmap_device_t)

polaris_netmap_dev_use(polaris_qfp_t)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(
    polaris_icp_dev_use(polaris_qfp_t)
)

# netmap device (/dev/svc_eng_puntNN)
type polaris_sep_device_t;
    dev_node(polaris_sep_device_t)
	polaris_svc_eng_punt_dev_use(polaris_qfp_t)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`tsn_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`blackheart_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
)

# aventus needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
# transition and access to /var/log/cdal-tsn-info.log
ifdef(`aventus_platform',
    gen_require(
        type syslogd_t;
    )
    polaris_qfp_log_manage("cdal-tsn-info.log")
    polaris_ggpio_dev_read_write(polaris_qfp_t)
    polaris_g gpio_dev_read_write(syslogd_t)
)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`cabo_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`supernova_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
)

# LOOK AT ME: qfp process links libcrypto.so.1.0.0 which has DT_TEXTREL
# that should be addressed by CSCvj99896, once that is fixed remove below
# under CSCvj99905.
gen_require(
  type lib_t;
')

allow polaris_qfp_t lib_t:file execmod;

# LOOK AT ME: qfp process on TSN LE has executable stack with GNU_STACK marked RWE
# that should be addressed by CSCvk66808, once that is fixed remove below
# under CSCvk66832.
ifdef(`tsn_platform',`
allow polaris_qfp_t self:process execmem;
')

# lsmpi replacement punt/inject over domain sockets
polaris_pi_uds_manage(polaris_qfp_t)
polaris_iosd_dgram_send(polaris_qfp_t)

# dpdk code reads CPU model specific register (MSR)
dev_read_cpuid(polaris_qfp_t)

# dpdk code in rte_mp_channel_init function creates and works
# with /var/run/dpdk/rte/mp_socket socket
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# dpdk code in dev_uev_socket_fd_create creates and work with
# netlink_kobject_uevent_socket socket
# Note: radium with QAT v1.7 requires getattr and setopt
allow polaris_qfp_t self:netlink_kobject_uevent_socket { getattr setopt bind create };

# hal_random32_init calls hw_random32_init and it opens /dev/random
dev_read_rand(polaris_qfp_t)

gen_require(`
  type sysfs_t;
')
mmap_files_pattern(polaris_qfp_t, sysfs_t, sysfs_t)

# LOOK AT ME: remove after CSCvs34007 fixed
# qfp runs hidedir hide /bootflash/SHARED-IOX/memif
corecmd_exec_bin(polaris_qfp_t)
corecmd_exec_shell(polaris_qfp_t)
auth_use_nsswitch(polaris_qfp_t)

# CSR & C8KV use infiniband and tun/tap devices for Azure
type polaris_infiniband_device_t;
devid(polaris_infiniband_device_t)
polaris_infiniband_dev_use(polaris_qfp_t)

kernel_request_load_module(polaris_qfp_t)
allow polaris_qfp_t self:netlink_rdma_socket { bind create setopt };
allow polaris_qfp_t self:capability { ipc_lock net_admin net_raw };
allow polaris_qfp_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_qfp_t self:tun_socket { create relabelfrom relabelto };
corenet_rw_tun.tap_dev(polaris_qfp_t)

# CSR Azure IO model requires read access
gen_require(
    type proc_net_t;
)
allow polaris_qfp_t proc_net_t:file { read };

# manage MLX NIC socket files in /var/tmp/net_mlx5*
type polaris_qfp_var_tmp_t;
files_tmp_file(polaris_qfp_var_tmp_t);
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_var_tmp_t, { sock_file })
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_tmp_t, polaris_qfp_var_tmp_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_xattr_fs(polaris_qfp_t)

# allow create of dir /bootflash/SHARED-IOX on first install of VM
create_dirs_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

polaris_cpld_read(polaris_qfp_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

# tsn needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`tsn_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# blackheart needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`blackheart_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# sparrow needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# Also needs access to cdal-tsn-info.log
ifdef(`sparrow_platform',`
    polaris_qfp_log_manage("cdal-tsn-info.log")
')
polaris_gpio_dev_read_write(polaris_qfp_t)
')

# ucode also needs access to ttyUSB4
ifdef('cabo_platform',
    term_use_usb_ttys(polaris_qfp_t)
')

# qfp starts /usr/binos/bin/net_hotremove-vxe.sh
init_read_script_files(polaris_qfp_t)

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy('polaris_htx_dgram_send(polaris_qfp_t)
')

# net_hotremove-vxe.sh that works with /tmp/iodb
polaris_iodb_tmp_manage(polaris_qfp_t)
# net_hotremove-vxe.sh sends signal to iodbd.sh
gen_require('type polaris_iodb_t;
    allow polaris_qfp_t polaris_iodb_t:process signal;
')
# net_hotremove-vxe.sh reads /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_qfp_t)

# long running helper script iodbd.sh
polaris_process_domain_template(iodbd)

# iodbd.sh started by /etc/init.d/binos that runs under initrc_t
gen_require('type initrc_t;
')
polaris_iodb_domtrans(initrc_t)

polaris_boot_tmp_read(polaris_iodb_t)
polaris_chasfs_manage(polaris_iodb_t)
polaris_cpld_read(polaris_iodb_t)
polaris_rmonbifo_tmp_read(polaris_iodb_t)

auth_use_nsswitch(polaris_iodb_t)
corecmd_exec_bin(polaris_iodb_t)

# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodb_t)
polaris_sysfs_manage(polaris_iodb_t)
# write into sysfs file like /sys/devices/pci0000:00/0000:00:03.2/config
dev_rw_sysfs(polaris_iODBd_t)

# read/write /run/dpdk/rte/config
manage_files_pattern(polaris_iODBd_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# lspci reads /etc/modprobe.d
modutils_read_module_config(polaris_iODBd_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iODBd_t)
files_map_kernel_modules(polaris_iODBd_t)

# runs dmidecode
dmidecode_domtrans(polaris_iODBd_t)
# dmidecode when run in this context needs access initrc stdin/stdout
gen_require(
  type dmidecode_t;
)  
init_rw_stream_sockets(dmidecode_t)

# calls ethtool -i intsvc0
sysnet_domtrans_ifconfig(polaris_iODBd_t)

# reads /etc/rc.d/init.d/binos_functions-pd-iodb
init_read_script_files(polaris_iODBd_t)

# read /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_iODBd_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iODBd_t)

# read /proc/cmdline
kernel_read_system_state(polaris_iODBd_t)

polaris_iODBd_tmp_manage(polaris_iODBd_t)

type polaris_iODBd_tmp_t;
files_tmp_file(polaris_iODBd_tmp_t)

# /tmp/iodb is created by /etc/init.d/binos that runs under initrc_t
gen_require(
  type initrc_t;
)  
files_tmp_filetrans(initrc_t, polaris_iODBd_tmp_t, dir, "iodb")
polaris_iODBd_tmp Manage(initrc_t)

# udev_t can drop entries into /tmp/iodb to process
```

gen_require(''
    type udev_t;
')
polaris_iodb_tmp_manage(udev_t)

# Radium and Thallium need to check rommon version when initializing static
# interface table (access /proc/rmonbifo).
optional_policy(''
    polaris_proc_rmonbifo_read(polaris_qfp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris cpp_ha Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisngwctblmgr, 1.0);

gen_require(''
    type polaris_ngwc_tbl_mgr_t;
')
polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_crft_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_chasfs_manage(polaris_ngwc_tbl_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_tbl_mgr_t)
polaris_tdldb_list_dirs(polaris_ngwc_tbl_mgr_t)
polaris_cpld_read(polaris_ngwc_tbl_mgr_t)
polaris_lua_read(polaris_ngwc_tbl_mgr_t)
```
polaris_flashlib_read(polaris_ngwc_tbl_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_ngwc_tbl_mgr_t)

allow polaris_ngwc_tbl_mgr_t self:capability dac_override;

polaris_dyncfg_tmp_read(polaris_ngwc_tbl_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# # All rights reserved
#

# polarisfmanrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`polaris_ripc_service_server_aux',`dnl polaris_ripc_$2_bind($3)
polaris_ripc($3)
')

define(`polaris_ripc_service_server_full',`dnl polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

define(`polaris_ripc_service_server',`dnl ifelse(ripc_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_type_map_set(ripc_label($1), process_label($2))
')

define(`polaris_ripc_service_client_aux',`dnl polaris_ripc($3)
polaris_ripc_$2_connect($3)
define('polaris_rpc_service_client', dnl
polaris_rpc_service_client_aux(ripc_label($1), ripc_stem($1), process_label($2)) dnl
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_te.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

/usr/bin/os/conf/audit_log.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/usr/bin/os/conf/audit_snapshot.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/tmp/package_biv_sums -- gen_context(system_u:object_r:polaris_kgv_data_t,s0)
/usr/bin/code_sign_verify -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/bin/kgv_update -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)

/dev/sem/sem.updatepcr8d_msg_sem gen_context(system_u:object_r:polaris_code_verify_tmpfs_t,s0)

# /dev/aikido
/dev/aikido -c gen_context(system_u:object_r:polaris_aikido_device_t,s0)

/usr/bin/os/conf/mcp_upgrade_hwprg.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_fpga.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_cpld.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_cmds.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_utils.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/bin/tam_fw_upgrade gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)

/usr/bin/os/conf/mcp_upgrade_rommon.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_cmds.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_helper.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_x86.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)

/dev/scansta -c gen_context(system_u:object_r:polaris_scansta_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

corecmd_exec_bin(polaris_issu_comp_check_t)
corecmd_exec_shell(polaris_issu_comp_check_t)

auth_use_nsswitch(polaris_issu_comp_check_t)

# For reading /sys/devices/platform/cpld/platform_type
polaris_cpld_read(polaris_issu_comp_check_t)

# For reading /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_issu_comp_check_t)

optional_policy(`
polaris_ncd_tmp_read(polaris_issu_comp_check_t)
`)

# work with /tmp files
type polaris_issu_comp_check_tmp_t;
files_tmp_file(polaris_issu_comp_check_tmp_t)
manage_dirs_pattern(polaris_issu_comp_check_t, tmp_t, polaris_issu_comp_check_tmp_t)
manage_files_pattern(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, polaris_issu_comp_check_tmp_t)
files_tmp_filetrans(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, [ file dir ])

# For using push_using_rsync
polaris_chvrf_domtrans(polaris_issu_comp_check_t)

gen_require(`
    type rsync_t;
`)
rsync_entry_domtrans(polaris_issu_comp_check_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_issu_comp_check_t)
rsync inherits issu_comp_check.sh's stdout/stderr fifo files
allow rsync_t polaris_issu_comp_check_t:fifo_file write;

allow polaris_issu_comp_check_t self:capability sys_resource;

# reads /tmp/remote_sw_verinfo.txt
gen_require(
    type rsync_tmp_t;
')
read_files_pattern(polaris_issu_comp_check_t, rsync_tmp_t, rsync_tmp_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_comp_check_t)

# hwutil modifies /sys/bus/i2c/drivers/pca9548/1-0076/reg_control
# TODO: label sysfs so that reg control gets its own label
dev_rw_sysfs(polaris_issu_comp_check_t)

# allow locking of /tmp/sysctrl_i2c.lck
# TODO: this file probably deserves its own label when created by cm_rp
polaris_cm_rp_tmp_manage(polaris_issu_comp_check_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.if
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarispttcd, 1.0);
gen_require(
    type polaris_pttcd_t;
)

polaris_btrace_data_manage(polaris_pttcd_t)
polaris_crft_data_manage(polaris_pttcd_t)
polaris_chasfs_manage(polaris_pttcd_t)
polaris_tdlresolve_read(polaris_pttcd_t)
polaris_tdlldb_list_dirs(polaris_pttcd_t)
polaris_lua_read(polaris_pttcd_t)
polaris_flashlib_read(polaris_pttcd_t)

auth_use_nsswitch(polaris_pttcd_t)
polaris_cpld_read(polaris_pttcd_t)

allow polaris_pttcd_t self:netlink_route_socket r_netlink_socket_perms;

polaris_disk_bootflash_search(polaris_pttcd_t)
polaris_bootflash_manage(polaris_pttcd_t)
polaris_persistent_getattr(polaris_pttcd_t)

type polaris_pttcd_tmp_t;
files_tmp_file(polaris_pttcd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pttcd_tmp_t, dir, "interceptor")
gen_require(
    type polaris_btrace_tmppub_t;
)
manage_dirs_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_lnk_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)

allow polaris_pttcd_t self:tcp_socket create_stream_socket_perms;
allow polaris_pttcd_t self:udp_socket create_socket_perms;

corenets_tcp_bind_generic_node(polaris_pttcd_t)
corenets_tcp_bind_polaris_pttcd_port(polaris_pttcd_t)
corenets_tcp_connect_polaris_pttcd_port(polaris_pttcd_t)
corenets_udp_sendsrecv_polaris_pttcd_port(polaris_pttcd_t)

sysnet_read_config(polaris_pttcd_t)

allow polaris_pttcd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarispttcd.te
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisrrmmgr, 1.0);

gen_require(
    type polaris_rrm_mgr_t;
)

polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfs_manage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdldb_list_dirs(polaris_rrm_mgr_t)
polaris_cpld_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rrm_mgr_t)
polaris_db_tdldb_dir_use(polaris_rrm_mgr_t)

# allow to use setrlimit
allow polaris_rrm_mgr_t self:process setrlimit;
allow polaris_rrm_mgr_t self:capability sys_resource;
allow polaris_rrm_mgr_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rrm_mgr_t)
polaris_socketat_nsfs_read(polaris_rrm_mgr_t)

# allow to open udp socket on port 12134
corenet_udp_bind_polaris_rrm_mgr_port(polaris_rrm_mgr_t)
corenet_udp_bind_generic_node(polaris_rrm_mgr_t)
allow polaris_rrm_mgr_t self:udp_socket { create_socket_perms recv_msg send_msg };

corenet_udp_bind_polaris_rrm_clnt_port(polaris_rrm_mgr_t)
polaris_odm_clnt2svr_mqipc_create(polaris_rrm_mgr_t)

# access "/bootflash/dbpersist"
polaris_tdldbpersist_setup(polaris_rrm_mgr_t)

# access /tmp/rp/tdldb/persistent-config/ dir and files in this dir
polaris_tmp_tdldb_persist_setup(polaris_rrm_mgr_t)
logging_send_syslog_msg(polaris_rrm_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmand label

polaris_process_domain_template(dyncfg)

polaris_btrace_data_manage(polaris_dyncfg_t)
polaris_cpld_read(polaris_dyncfg_t)
polaris_lua_read(polaris_dyncfg_t)
polaris_cpld_dev_use(polaris_dyncfg_t)
polaris_rmonbifo_tmp_read(polaris_dyncfg_t)
polaris_chasfs_read(polaris_dyncfg_t)

# this script works with /tmp/dyncfg files
type polaris_dyncfg_tmp_t;
files_tmp_file(polaris_dyncfg_tmp_t);
files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, file)

manage_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_dirs_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)

corecmd_exec_bin(polaris_dyncfg_t)
corecmd_exec_shell(polaris_dyncfg_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyncfg_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyncfg_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyncfg_t self:process execmem;
# allow objstore access
polaris_disk_objstore_read(polaris_dyncfg_t)

type polaris_dyncfg_log_t;
files_tmp_file(polaris_dyncfg_log_t)

gen_require(`
    attribute polaris_domain;
`)

filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan.log")
filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan_runtime.log")
files_tmp_filetrans(polaris_domain, polaris_dyncfg_log_t, file, "cyan.lock")
manage_files_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t)

polaris_dyncfg_tmp_read(polaris_domain)

# on utah need to get model info
optional_policy(`
    polaris_dash_dev_use(polaris_dyncfg_t)
`)

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_dyncfg_t)
`)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_dyncfg_t)

logging_send_syslog_msg(polaris_dyncfg_t)

# dyncfg needs access to idprom. Idprom is accessed differently depending on
# platform

# on utah idprom is in quack chip: hw_esg_read_midplane_idprom
# on platforms with idprom in quack chip need access to
# quack device as part of hw_esg_read_midplane_idprom call.
ifdef(`crankshaft_family',`
    polaris_quack_dev_use(polaris_dyncfg_t)
`)
ifdef(`starfleet_platform',`
    polaris_quack_dev_use(polaris_dyncfg_t)
`)

# on 1ng idprom is i2c device in sysfs like:
# /sys/devices/pci0000:00/0000:00:1f.3/i2c-0/i2c-1/1-0056/eeprom
# on ultra it is still emulated by i2c driver like:
#/sys/devices/i2c-0/i2c-1/1-0056/eeprom
dev_rw_sysfs(polaris_dyncfg_t)

# on nyquist and 1ng idprom value retrieved by flashlib and needs dac_override
allow polaris_dyncfg_t self:capability dac_override;
polaris_flashlib_read(polaris_dyncfg_t)

# LOOK AT ME on quake even rommon var read operation needs write access
# i.e flashutil -c getvar -N MODEL_NUM does open with O_RDWR
ifdef(`quake_platform',`
  polaris_flashlib_write(polaris_dyncfg_t)
')

# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(`
  gen_require(`
    type polaris_wncmgrd_exec_t;
  ')
  read_files_pattern(polaris_dyncfg_t, bin_t, polaris_wncmgrd_exec_t)
')

# lua/cyan/vwl_chassis_attrs.lua needs to read /bootflash/rommon_vars file on vwlc
ifdef(`wlc_family',`
polaris_bootflash_read(polaris_dyncfg_t)
')

# lua/cyan/vwl_chassis_attrs.lua needs to read /boot/vcpu_template file on vwlc
ifdef(`wlc_family',`
polaris_disk_varied_read(polaris_dyncfg_t)
')

# on macallan passport SUP card idprom is in act2 chip.
# hw_passport_read_midplane_idprom invoked from cyan_init
# reads /dev/act2 device.
ifdef(`ngwc_family',`
polaris_act2_dev_use(polaris_dyncfg_t)
')

ifdef(`passport_platform',`
# open /dev/ttyS0 console in hw_passport_read_midplane_idprom, invoked by
# cyaninit
term_use_unallocated_ttys(polaris_dyncfg_t)
')

# during wlc subpackage install cyan_init.sh called from
# C9800-Wireless_startup_script.sh script and output redirected
# into some install_tmp file
ifdef('ngwc_family,'
polaris_install_tmp_log_write(polaris_dyncfg_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_dyncfg_t)

gen_require(
    type rsync_t;
')

rsync_entry_domtrans(polaris_dyncfg_t, rsync_t)
corennet_tcp_connect_rsync_port(polaris_dyncfg_t)

ifdef('sumatra_platform,'
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
# /dev/mem
polaris_dev_mem_use(polaris_dyncfg_t)
')

# For Cabo, allow for stronger permissions to access env_var
ifdef('cabo_platform,'
polaris_proc_rmonbifo_read(polaris_dyncfg_t)
')

# For Cabo, also allow access to i2c-0
ifdef('cabo_platform',
polaris_i2c_use(polaris_dyncfg_t)
')

# /dev/i2c-0 access
ifdef('petra_platform',
polaris_i2c_use(polaris_dyncfg_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisflashcheck, 1.0);

gen_require(
    type polaris_flashcheck_t;
)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_flashcheck_t)

corecmd_exec_bin(polaris_flashcheck_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_flashcheck_t)

# uses pidof
domain_read_all_domains_state(polaris_flashcheck_t)
dev_read_sysfs(polaris_flashcheck_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_flashcheck_t)

polaris_btrace_data_manage(polaris_flashcheck_t)
polaris_chasfs_manage(polaris_flashcheck_t)
polaris_cpld_read(polaris_flashcheck_t)

polaris_read_debug_conf(polaris_flashcheck_t)
polaris_boot_tmp_read(polaris_flashcheck_t)

logging_send_syslog_msg(polaris_flashcheck_t)

# directly output to /dev/ttyS0
term_use_unallocated_ttys(polaris_flashcheck_t)

polaris_bootflash_read(polaris_flashcheck_t)

allow polaris_flashcheck_t self:capability { sys_resource dac_override };

# pidof needs below
allow polaris_flashcheck_t self:capability sys_ptrace;

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_flashcheck_t)

# access of crashinfo dir for flash_check.sh, it does source of pglobals.sh
# which needs acces to /crashinfo
polaris_disk_crashinfo_getattr(polaris_flashcheck_t)

# this is for NFS access mounted in a dir of ncd context
optional_policy(' 
  polaris_ned_tmp_read(polaris_flashcheck_t) 
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris caf Policy Rules.</summary>

######################################
## <summary>
##      Read /bootflash/iox/ files or harddisk IOX files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_files_read',`
  gen_require(`
    type polaris_iox_files_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type polaris_iox_shared_files_t;
    type polaris_iox_alt_hdd_files_t;
  `)
)

read_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
  allow $1 polaris_iox_files_t:file map;
')

#######################################
## <summary>
##      Manage /bootflash/iox/ files or harddisk IOX files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_iox_files_manage',`
   gen_require(`
      type polaris_iox_files_t;
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type polaris_iox_shared_files_t;
      type polaris_iox_alt_hdd_files_t;
   )

   manage_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
   manage_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
   manage_lnk_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
   allow $1 polaris_iox_files_t:file map;
   )

###########################################################
## <summary>
##      List /bootflash/iox/ dir or hardisk IOX dir
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_iox_dir_list',`
   gen_require(`
      type polaris_iox_files_t;
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type httpd_var_run_t;
      type polaris_caf_var_run_t;
      type polaris_iox_shared_files_t;
      type polaris_iox_alt_hdd_files_t;
   )

   list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t polaris_caf_var_run_t httpd_var_run_t }, polaris_iox_files_t)
polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t
polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, httpd_var_run_t)
    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t
polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_caf_var_run_t)

')

#########################################################################
## <summary>
##      Search /bootflash/iox/ dir or harddisk IOX
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_iox_dir_search',`
    gen_require(
      type polaris_iox_files_t;
      type polaris_iox_shared_files_t;
    )

    search_dirs_pattern($1, polaris_iox_files_t, polaris_iox_files_t)
')

#########################################################################
## <summary>
##      Read files like /guestshell/guestshell_set_netns.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_guestshell_files_read',`
    gen_require(
      type polaris_guestshell_t;
      type polaris_iox_shared_files_t;
    )

    read_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
    read_lnk_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
')

#########################################################################
## <summary>
## Execute files with polaris_guestshell_exec_t type
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_guestshell_exec_files_exec',`
    gen_require(`
        type polaris_guestshell_exec_t;
    `)
    exec_files_pattern($1, polaris_guestshell_exec_t, polaris_guestshell_exec_t)
`)

### <summary>
### Manage /var/run/netns/guestshell files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#
interface(`polaris_guestshell_var_run_files_manage',`
    gen_require(`
        type polaris_guestshell_var_run_t;
        type var_run_t;
    `)
    manage_files_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
    manage_dirs_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
`)

### <summary>
### Read CAF tmp files
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
# interface('polaris_caf_tmp_files_read',
  gen_require(
    type polaris_caf_tmp_files_t;
  
    read_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    read_lnk_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    list_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
  )
)

######################################
## <summary>
##      Manage CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_caf_tmp_files_manage',
  gen_require(
    type polaris_caf_tmp_files_t;
  
    manage_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    manage_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
  )
)

######################################
## <summary>
##      Getattr CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_caf_tmp_files_getattr',
  gen_require(
    type polaris_caf_tmp_files_t;
  
    getattr_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
  )
)

######################################
## <summary>
##      Read CAF files. Typically at /opt/cisco/caf/
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_caf_files_read',
  gen_require(' 
    type polaris_caf_files_t;
  ')
  read_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
  read_lnk_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
  list_dirs_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
')

########################################
## Summary
## Manage ...
guestshell/rootfs_mnt/cisco/cisco_cli/
## This files are used to communicate between guestshell container
## iosd, and shell_exec.sh
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_caf_var_run_files_manage',
  optional_policy(' 
    gen_require(' 
      type polaris_caf_var_run_t;
    ')
    manage_files_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
    manage_dirs_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
  ')
')

########################################
## Summary
## Read /etc/guestshell_rsa_key file
## <summary>
## Domain allowed access.
## </summary>
interface('polaris_guestshell_key_read',
    gen_require(
        type etc_t;
        type polaris_guestshell_ssh_key_t;
    )
)

read_files_pattern($1, etc_t, polaris_guestshell_ssh_key_t)
')

interface('polaris_caf_local_core_files_manage',
    optional_policy(
        type polaris_caf_core_files_t;
    )
)

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
')

interface('polaris_caf_local_core_files_manage',
    optional_policy(
        type polaris_caf_core_files_t;
    )
)

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
')

interface('polaris_caf_local_core_files_manage',
    optional_policy(
        type polaris_caf_core_files_t;
    )
)

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
')


interface('polaris_iox_alt_hdd_manage',
    optional_policy(
        gen_require(
            type polaris_disk_bootflash_t;
            type polaris_disk_harddisk_t;
            type polaris_iox_alt_hdd_files_t;
        )
    )
)
manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
)
)

######################################
## <summary>
##      Getattr alternate harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_alt_hdd_getattr',
    gen_require(
        type polaris_iox_alt_hdd_files_t;
    )
)
allow $1 polaris_iox_alt_hdd_files_t:filesystem getattr;
')

######################################
## <summary>
##      Manage tty device link files. Typically at /dev/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_tty_lnk_manage',
    gen_require(
        type polaris_caf_tty_file_t;
    )
)
create_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
read_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
delete_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
'

######################################
## <summary>
##      Manage tty device chr files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_caf_chr_file_read',
    gen_require(
        type devpts_t;
    ')

    setattr_chr_files_pattern($1, devpts_t, devpts_t)
    read_chr_files_pattern($1, devpts_t, devpts_t)
')

######################################
## <summary>
##	Execute caf in the polaris_caf domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
interface(`polaris_caf_domtrans',
    gen_require(
        type polaris_caf_t, polaris_caf_exec_t;
    ')

domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
')

######################################
## <summary>
##      Provide process signal perms.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
interface(`polaris_caf_proc_signal_perms`,
    gen_require(
        type polaris_caf_t;
    )
    allow $1 polaris_caf_t:process sigkill;
)

interface(`polaris_ioxss_rp_tmp_manage`,
    gen_require(
        type polaris_ioxss_rp_tmp_t;
    )
    manage_files_pattern($1,{polaris_ioxss_rp_tmp_t }, polaris_ioxss_rp_tmp_t)
)

interface(`polaris_iosd_portal_app_lipc_getattr`,
    gen_require(
        type polaris_iosd_portal_app_lipc_t;
    )
    getattr_sock_files_pattern($1, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2016-2019 by Cisco Systems, Inc.  
# All rights reserved  
#  
#/usr/cpp/bin/cpp_cp_svr -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)  
#/usr/cpp/bin/cpp_cp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)  
#/usr/cpp/bin/cpp_cp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)  
#/usr/cpp/bin/cpp_cp_svr_vwl -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)  
#/usr/cpp/bin/cpp_cp_svr_vwlLedp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)  
#/usr/binos/conf/geo_ipv4_db -- gen_context(system_u:object_r:polaris_geodb_files_t,s0)  

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.fc  
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2020 by Cisco Systems, Inc.  
# All rights reserved  
#  
# polarisnifmgr file contexts place holder  

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.fc  
No license file was found, but licenses were detected in source scan.

#  
# November 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2021 by Cisco Systems, Inc.  
# All rights reserved  
#  
policy_module(polarisgnmib, 1.0);  

    gen_require(  
        type polaris_gnmib_t;  
    )  

    polaris_btrace_data_manage(polaris_gnmib_t)  
polaris_crft_data_manage(polaris_gnmib_t)
polaris_chasfs_manage(polaris_gnmib_t)
polaris_tdlresolve_read(polaris_gnmib_t)
polaris_tdlldb_list_dirs(polaris_gnmib_t)
polaris_cpld_read(polaris_gnmib_t)
polaris_lua_read(polaris_gnmib_t)
polaris_flashlib_read(polaris_gnmib_t)
polaris_db_tdlldb_dir_use(polaris_gnmib_t)

optional_policy(''
# deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_gnmib_t)
# and allow read shared schema
polaris_confd_shared_schema_read(polaris_gnmib_t)
# from evconfd_dynamic_load
polaris_confd_shared_schema_watch(polaris_gnmib_t)
# read /proc/confd_pid/exe file
polaris_confd_read(polaris_gnmib_t)
')

allow polaris_gnmib_t self:capability dac_override;

logging_send_syslog_msg(polaris_gnmib_t)

# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_gnmib_t)
polaris_ndbutil_lock_template(polaris_gnmib_t, gnmib, ".l.schema_use.gnmib")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_gnmib_t)

# gnmib uses multiple (configurable) tcp ports for secure and insecure mode
corenet_tcp_bind_generic_port(polaris_gnmib_t)
allow polaris_gnmib_t self:tcp_socket { shutdown };
corenet_tcp_connect_all_ports(polaris_gnmib_t)

# iosp_token_read_from_file reads /tmp/rp/.iosp_gnmib
polaris_gnmib_token_read(polaris_gnmib_t)

# gnmib creates /var/tmp/gnmib.pid
type polaris_gnmib_var_t;
files_tmp_file(polaris_gnmib_var_t);
files_tmp_filertrans(polaris_gnmib_var_t, polaris_gnmib_var_t, file, "gnmib.pid");
manage_files_pattern(polaris_gnmib_var_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_dirs_pattern(polaris_gnmib_var_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_lnk_files_pattern(polaris_gnmib_var_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
# read access to /dev/random
dev_read_rand(polaris_gnmib_t)

kernel_read_net_sysctls(polaris_gnmib_t)

type polaris_gnmib_gnoi_images_t;
files_type(polaris_gnmib_gnoi_images_t);
polaris_bootflash_filetrans(polaris_gnmib_t, polaris_gnmib_gnoi_images_t, file,);
manage_files_pattern(polaris_gnmib_t, polaris_disk_bootflash_t, polaris_gnmib_gnoi_images_t)

# need to execute install engine scripts
polaris_install_engine_domtrans(polaris_gnmib_t)

# need access to shell to execute install scripts
corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

# install script needs rmonbifo
polaris_rmonbifo_tmp_read(polaris_gnmib_t)

# not sure why this is needed
auth_map_passwd(polaris_gnmib_t)

#DB persistence
polaris_tdlpdbpersist_setup(polaris_gnmib_t)
polaris_tmp_tdlpdbPersist_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

# needed to fstat and check space when transferring image for os.proto install rpc
fs_getattr_xattr_fs(polaris_gnmib_t)

# needed by gnmib ui because uipeer heartbeat timer accesses TDL epoch files
polaris_issu_tmp_files_read(polaris_gnmib_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.te
No license file was found, but licenses were detected in source scan.

#
# October 2019, Patrick O'Halloran
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/mcp_crft_request.sh -- gen_context(system_u:object_r:polaris_crft_request_exec_t,s0)
#NGWC - nyquist, edison, bigbang
/mnt/sd3/user/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)

#NGWC - macallan, starfleet
/flash1/user/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/user/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/user/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)

#MCP, QWLC
/vol/harddisk/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)

#VXE, WLC, CRANKSHAFT, MCP
/bootflash/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)

#CRANKSHAFT - blackheart, sparrow
/flash1/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)

#PETRA - petra
# USER is a reserved selinux keyword - escape it like this
/flash10/USE[R]/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash10/USE[R]/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash10/USE[R]/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polariscmm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.fc
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris install Policy Rules.</summary>

### <summary>
##Read polaris_sw_data_t, effectively path to read polaris base image packages
## </summary>
## <param name="domain">
##Domain allowed access.
## </param>
#
interface(`polaris_sw_data_read',
  gen_require(`
    type polaris_sw_data_t;
    type tmp_t;
  ')
  read_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  read_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  list_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
')

### <summary>
##Map polaris_sw_data_t, effectively path to map polaris base image packages
## </summary>
## <param name="domain">
##Domain allowed access.
## </param>
#
interface(`polaris_sw_data_map',
  gen_require(`
    type polaris_sw_data_t;
  ')
  allow $1 polaris_sw_data_t:file map;
### <summary>
### Manage polaris_sw_data_t, effectively path to set up polaris
### base image packages house holding
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_sw_data_manage',`
 gen_require(`
 type polaris_sw_data_t;
 type tmp_t;
```
manage_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
 manage_link_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
 manage_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
 allow $1 polaris_sw_data_t:dir mounton;
```
)

### <summary>
### Read polaris_patch_data_t, effectively path to read polaris
### smu patch or optional packages
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_patch_data_read',`
 gen_require(`
 type polaris_patch_data_t;
 type tmp_t;
```
read_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
 read_link_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
 list_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
```
)
## Manage polaris_patch_data_t, effectively path to set up polaris
## smu patch or optional packages house holding

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_patch_data_manage',
gen_require(''
type polaris_patch_data_t;
    type tmp_t;
')
    manage_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    manage_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
')

#######################################
## Watch patch_data directories
### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface('polaris_patch_data_watch',
gen_require(''
type polaris_patch_data_t;
')
    allow $1 polaris_patch_data_t:dir watch;
')

########################################
## Write into tmp files created by install_show.sh
### <summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </param>
#
interface('polaris_install_show_tmp_write',

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23325
gen_require('type polaris_install_show_tmp_t;
   type tmp_t;
')
   write_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

########################################
## <summary>
##	Read tmp files created by install_show.sh
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_show_tmp_read','
gen_require('type polaris_install_show_tmp_t;
   type tmp_t;
')
   read_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

########################################
## <summary>
##	Manage tmp installer files and directories
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
## </summary>
## </param>
#
interface('polaris_install_show_tmp_manage','
gen_require('type polaris_install_show_tmp_t;
')
   manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
   manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
   manage_lnk_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
')

########################################
## <summary>
##	Manage /bootflash/.issu_loc_lock files
## TODO: provfunc.sh and hman have reference to /bootflash/SISSU_LOCAL_LOCK_FILE.
## For now, I am keeping manage_dirs_pattern for polaris_disk_bootflash_t.
## Need to re-visit so that callers to this macro do not have write-permission
to all of bootflash..
## </summary>
## <param name=”domain”>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_issu_files_manage`,
    gen_require(`
        type polaris_issu_files_t;
        type polaris_disk_bootflash_t;
    `)
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t, file, ".issu_loc_lock")
    manage_files_pattern($1, polaris_issu_files_t, polaris_issu_files_t)
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t)
`)

#######################################################################
## <summary>
## Manage ISSU tmp files, allowing to record and check upgrade progress
## </summary>
## <param name=”domain”>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_issu_tmp_files_manage`,
    gen_require(`
        type polaris_issu_tmp_files_t;
        type tmp_t;
    `)
    manage_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    manage_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
`)

#######################################################################
## <summary>
## Write/read any regular file/directory from /bootflash/install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_disk_install_manage',
    gen_require('  
        type polaris_disk_install_t;
    ')
    manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir watch;
    ')

#######################################
## <summary>
##      Read any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_disk_install_read',
    gen_require('  
        type polaris_disk_install_t;
    ')
    search_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    read_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir {watch read};
    ')

#######################################
## <summary>
##      Get attributes of any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_disk_install_fs_getattr',
    gen_require('  
    ')

type polaris_disk_install_t;
  }
  allow $1 polaris_disk_install_t:filesystem getattr;
  )

###############################################################################
## <summary>
##     Manage /tmp/installer files and directories
## </summary>
## <param name="domain">
##   <summary>
##     Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_install_tmp_manage`,
gen_require(`
type polaris_install_tmp_t;
  )
  manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  )

###############################################################################
## <summary>
##     Read /tmp/installer files and directories
## </summary>
## <param name="domain">
##   <summary>
##     Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_install_tmp_read`,
gen_require(`
type polaris_install_tmp_t;
  )
  list_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  read_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  read_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  allow $1 polaris_install_tmp_t:dir watch;
  allow $1 polaris_install_tmp_t:file map;
  )

###############################################################################
## <summary>
## Execute install related scripts in its own domain.

```c
interface('polaris_install_engine_domtrans',
    gen_require(
        type polaris_install_engine_t, polaris_install_engine_exec_t;
    )
)

domtrans_pattern($1, polaris_install_engine_exec_t, polaris_install_engine_t)
)
```

## Write into tmp log files created by install engine

```c
interface('polaris_install_tmp_log_write',
    gen_require(
        type polaris_install_tmp_log_t;
    )
)
write_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
)
```

## Execute install selinux related scripts in its own domain.

```c
interface('polaris_install_selinux_domtrans',
    gen_require(
        type polaris_install_selinux_t, polaris_install_selinux_exec_t;
    )
)
```
domtrans_pattern($1, polaris_install_selinux_exec_t, polaris_install_selinux_t)
')

###########################################################################
## <summary>
## Execute wireless install related scripts in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_install_wireless_domtrans',
  gen_require(
    type polaris_install_wireless_t, polaris_install_wireless_exec_t;
  ')
)

domtrans_pattern($1, polaris_install_wireless_exec_t, polaris_install_wireless_t)
')

###########################################################################
## <summary>
## Execute install show scripts in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_install_show_domtrans',
  gen_require(
    type polaris_install_show_t, polaris_install_show_exec_t;
  ')
)

domtrans_pattern($1, polaris_install_show_exec_t, polaris_install_show_t)
')

###########################################################################
## Allow the specified domain to manage KGV data files
## I.e under /tmp/pkg_cs_debug created by function verify_pkg
## common scripts file.
## </summary>
## <param name="domain">
## Domain allowed access.
```c
interface('polaris_pkg_cs_debug_manage',
    gen_require(
        type polaris_pkg_cs_debug_t;
    )
    files_tmp_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
    fs_tmpfs_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
    manage_dirs_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
    manage_files_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
)

interface('polaris_i2c_lock_file_manage',
    gen_require(
        type polaris_i2c_lock_file_t;
    )
    manage_dirs_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
    manage_files_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
)

interface('polaris_install_tmp_write',
    gen_require(
        type polaris_install_tmp_t;
    )
    write_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    allow $1 polaris_install_tmp_t:dir watch;
)
```
### <summary>
### Read/Write /images files and directories
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_install_images_manage',
    gen_require(
        type polaris_install_images_t;
    ')
    
    manage_dirs_pattern($1, polaris_install_images_t, polaris_install_images_t)
    manage_files_pattern($1, polaris_install_images_t, polaris_install_images_t)
    ')

```

### <summary>
### Read ISSU tmp files
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_issu_tmp_files_read',
    gen_require(
        type polaris_issu_tmp_files_t;
        type tmp_t;
    ')
    
    list_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    allow $1 polaris_issu_tmp_files_t:file map;
    ')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.if

No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisodm, 1.0);

gen_require(
    type polaris_odm_t;
')

polaris_btrace_data_manage(polaris_odm_t)
polaris_crft_data_manage(polaris_odm_t)
polaris_chasfs_manage(polaris_odm_t)
polaris_tdlresolve_read(polaris_odm_t)
polaris_tdlldb_list_dirs(polaris_odm_t)
polaris_cpld_read(polaris_odm_t)
polaris_lua_read(polaris_odm_t)
polaris_flashlib_read(polaris_odm_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_t)
polaris_db_tdlldb_dir_use(polaris_odm_t)

# allow setrlimit
allow polaris_odm_t self:capability sys_resource;
allow polaris_odm_t self:process setrlimit;
allow polaris_odm_t self:capability dac_override;

# odm_svr2clnt_data uses subdirectory for channels needs explicit rule
# to allow it. ODM elastic value is 2 now, add more if need in the
# future.
gen_require(
    type polaris_odm_server2client_data_mqipc_t;
')
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t)

logging_send_syslog_msg(polaris_odm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisodm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
policy_module(polariscontainer, 1.0);

# polaris_default_container_t type for not labeled container
polaris_container_domain_template(default)

# polaris_utd_container_t type for snort container
polaris_container_domain_template(utd)
polaris_utd_container(polaris_utd_container_t)

# polaris_utdl_container_t type for snort container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(utdl)
polaris_utd_container(polaris_utdl_container_t)

# manage /tmp/xml/{Utld*} dirs
polaris_vman_log_files_manage(polaris_utdl_container_t)
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_utdl_container_t)
)

allow polaris_utdl_container_t ramfs_t:file map;

polaris_iox_container_watch(polaris_utdl_container_t)

# work with memif
optional_policy(
    polaris_qfp_dgram_send(polaris_utdl_container_t)
)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_utdl_container_t)
optional_policy(
    polaris_h_tx_use_client_socket(polaris_utdl_container_t)
)

# allow container to work with /tmp/binos-IOX
optional_policy(
    polaris_qfp_memif_manage(polaris_utdl_container_t)
)

# snort works with /dev/shm/SPO_DAQ_MMAP_OBJ_
fs_exec_tmpfs_files(polaris_utdl_container_t)

# allow container to work with /tmp/xml/* files
optional_policy(
    polaris_vman_tmp_manage(polaris_utdl_container_t)
)

gen_require('''
    type container_file_t;
''')
polaris_disk_type(container_file_t)

# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of ramfs on /tmp/snortlogs
fs_mount_ramfs(polaris_utdl_container_t)
# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_utdl_container_t)
fs_manage_tmpfs_dirs(polaris_utdl_container_t)
fs_manage_tmpfs_files(polaris_utdl_container_t)
fs_manage_tmpfs_symlinks(polaris_utdl_container_t)

# Allow ramfs access to utd container
fs_manage_ramfs_dirs(polaris_utdl_container_t)
fs_manage_ramfs_files(polaris_utdl_container_t)

# Allow link file access from cron to crond
kernel_read_state(polaris_utdl_container_t)

# Allow Snort
allow polaris_utdl_container_t self:packet_socket map;

# polaris_iox_container_t type for generic IOx containers
polaris_container_domain_template(iox)

fs_mount_tmpfs(polaris_iox_container_t)
fs_manage_tmpfs_dirs(polaris_iox_container_t)
fs_manage_tmpfs_files(polaris_iox_container_t)
fs_manage_tmpfs_symlinks(polaris_iox_container_t)
fs_manage_tmpfs_sockets(polaris_iox_container_t)
# fs_manage_tmpfs_fifo_files is missing
gen_require(`
type tmpfs_t;
`)
manage_fifo_files_pattern(polaris_iox_container_t, tmpfs_t, tmpfs_t)
fs_mounton_tmpfs(polaris_iox_container_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_iox_container_t tmpfs_t:file map;

# container reads ip nets identity <pid>
fs_read_nsfs_files(polaris_iox_container_t)

# container systemd does remount of some file systems
gen_require(`
   type svirt_sandbox_file_t;
`)
allow polaris_iox_container_t svirt_sandbox_file_t:filesystem { remount };

polaris_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polaris_caf_local_core_files_manage(polaris_iox_container_t)
allow polaris_iox_container_t self:cap_users { chown dac_override dac_read_search fsetid setgid setpcap setuid sys_admin sys_boot };

gen_require(`
   type devpts_t;
   type polaris_iox_container_t;
   type container_runtime_t;
   class fifo_file { getattr ioctl read write };
   class chr_file { getattr ioctl open read setattr write };
`)

========== polaris_iox_container_t ===========
allow polaris_iox_container_t container_runtime_t:fifo_file { getattr setattr ioctl open read write };
allow polaris_iox_container_t devpts_t:chr_file { getattr ioctl open read setattr write };

# Normally lipc denials are addressed by code that is generated from TDL.
# If process need to access lipc service it just need to be listed as 'client' of proper TDL service.
# If in this case iox_container process does not have its own TDL proc_def entry,
# therefore we use autogenerated polaris_lipc_iosd_portal_app_write macro/interface.
# Marking this policy optional, so that if platform TDL does not have proper service defined
# then polaris_lipc_iosd_portal_app_write won't be generated, but container policy still would compile.
optional_policy(
gen_require(`
type polaris_iosd_t;
}
polaris_lipc_iosd_portal_app_write(polaris_iox_container_t, polaris_iosd_t)
)
docker_exec_lib(polaris_iox_container_t)
fs_exec_hugetlbfs_files(polaris_iox_container_t)
kernel_read_ring_buffer(polaris_iox_container_t)
dev_read_sysfs(polaris_iox_container_t)
polaris_iox_container_watch(polaris_iox_container_t)

# polaris_sdavc_container_t type for SDAVC container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(sdavc)
polaris_utd_container(polaris_sdavc_container_t)

# manage /tmp/xml/{SDAVC*} dirs
polaris_vman_log_files_manage(polaris_sdavc_container_t)

# legacy SDAVC container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_sdavc_container_t)

# container systemd mounton tmpfs_t & tmpfs_st management
fs_mounton_tmpfs(polaris_sdavc_container_t)
fs_manage_tmpfs_dirs(polaris_sdavc_container_t)
fs_manage_tmpfs_files(polaris_sdavc_container_t)
fs_manage_tmpfs_symlinks(polaris_sdavc_container_t)
fs_manage_tmpfs_sockets(polaris_sdavc_container_t)
manage_fifo_files_pattern(polaris_sdavc_container_t, tmpfs_t, tmpfs_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_sdavc_container_t tmpfs_t:file map;
# Add watch on tmpfs_t/container_t dir/files
polaris_iox_container_watch(polaris_sdavc_container_t)

# map/mount/write hugetlbfs files
gen_require(''
    type hugetlbfs_t;
')
allow polaris_sdavc_container_t hugetlbfs_t:filesystem mount;
allow polaris_sdavc_container_t hugetlbfs_t:file map;
fs_manage_hugetlbfs_dirs(polaris_sdavc_container_t)

# Allow syslog_mod operation on kernel_t
kernel_clear_ring_buffer(polaris_sdavc_container_t)
# Allow tcpdump
allow polaris_sdavc_container_t self:packet_socket map;
allow polaris_utdl_container_t self:packet_socket map;

# add in the docker files labels to polaris_disk_type

gen_require('type container_var_lib_t;
    type container_share_t;
    type container_log_t;
')
polaris_disk_type(container_var_lib_t)
polaris_disk_type(container_share_t)
polaris_disk_type(container_log_t)

# polaris_waas_container_t type for WAAS KVM
polaris_kvm_domain_template(waas)

# Allow rw block files access to /dev/lvm_raid
storage_dontaudit_write_fixed_disk(polaris_waas_container_t)
storage_dontaudit_read_fixed_disk(polaris_waas_container_t)

# Manage hugetlbfs files/dirs
fs_manage_hugetlbfs_dirs(polaris_waas_container_t)
manage_files_pattern(polaris_waas_container_t, hugetlbfs_t, hugetlbfs_t)
fs_exec_hugetlbfs_files(polaris_waas_container_t)

# allow access of /dev/kvm device
dev_rw_kvm(polaris_waas_container_t)

# allow domain to search/write to virlogd_t
polaris_vman_virtlog_allow(polaris_waas_container_t)

# Allow for guest-share

gen_require('type polaris_iox_shared_files_t;
')
manage_files_pattern(polaris_iox_container_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
# Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.te
No license file was found, but licenses were detected in source scan.
## <summary>Polaris polarispvp Policy Rules.</summary>

### <summary>
### Execute a domain transition to run pvp.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_pvp_domtrans`,
          gen_require(`
              type polaris_pvp_t, polaris_pvp_exec_t;
          `)
        domtrans_pattern($1, polaris_pvp_exec_t, polaris_pvp_t)
    `)

### <summary>
### Manage pvp temporary files and directories in /tmp.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_pvp_manage_tmp_files`,
          gen_require(`
              type polaris_pvp_tmp_t;
          `)
        manage_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
        manage_dirs_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
        manage_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
    `)

### <summary>
### Manage pvp process_state files and directories in /tmp/[rp|fp|cc]/pvp/process_state.
### </summary>
### <param name="domain">
### </param>

## Domain allowed access.

```c
interface('polaris_pvp_manage_process_state_files',
    gen_require(
        type polaris_process_state_t;
    )
)
manage_files_pattern($1, polaris_process_state_t, polaris_process_state_t)
)
```

## Getattr dirs pvp temporary files and directories in /tmp.

```c
interface('polaris_pvp_getattrs_tmp_dirs',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    )
)
getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
)
```

## Read from pvp stdin. Should be granted to scripts spawned from pvp with domain transition. pvp stdin (0) points to fifo file like /tmp/rp/pvp/work/inot_fifo

```c
interface('polaris_pvp_stdin_read',
    gen_require(
        type polaris_pvp_tmp_t;
    )
)
```
read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

########################################################################
## <summary>
## Read pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_pvp_read_tmp_files',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    )
)

rw_files_pattern($1, { tmp_t polaris_pvp_tmp_t }, polaris_pvp_tmp_t)
')

########################################################################
## <summary>
## Read pvp SAI files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_pvp_read_sai_files',
    gen_require(
        type polaris_pvp_sai_t;
    )
    read_files_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
    list_dirs_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
    allow $1 polaris_pvp_sai_t:dir watch;
')

########################################################################
## <summary>
## Delete pvp SAI dirs and files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">

## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_pvp_delete_sai_files',
    gen_require('type polaris_pvp_sai_t;
    ')
    allow $1 polaris_pvp_sai_t:dir { remove_name rmdir write };
    allow $1 polaris_pvp_sai_t:file unlink;
    ')

#######################################
## <summary>
## Watch pvp process_state directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_process_state_watch',
    gen_require('type polaris_process_state_t;
    ')
    allow $1 polaris_process_state_t:dir watch;
    ')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisrmonbifo, 1.0):

######################################################################
# Polaris Rmonbifo Driver policy
######################################################################
# note polaris.proc_rmonbifo.tmp is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#
#
/bootflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
# polarisodm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#
#
/usr/bin/os/conf/auto_upgrade_client.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_trigger.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
# used by "sh pla so process memory r0 name iosd maps" CLI
/usr/binos/conf/mcp_process_maps.sh -- gen_context(system_u:object_r:polaris_process_maps_exec_t,s0)

# used by "req platform software console attach switch standby R0" CLI
/usr/binos/conf/mcp_console_attach.sh -- gen_context(system_u:object_r:polaris_mcp_console_attach_exec_t,s0)
/usr/binos/bin/ioucon -- gen_context(system_u:object_r:polaris_ioucon_exec_t,s0)

# ngio_module_session.sh used by "hw-module session" CLI
/usr/binos/conf/ngio_module_session.sh -- gen_context(system_u:object_r:polaris_ngio_module_session_exec_t,s0)

#used by "upgrade rom-monitor capsule primary switch 1 R0" CLI
/usr/binos/conf/cat9k-primary-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/usr/binos/conf/cat9k-capsule-upgrade.sh -- gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/mnt/sd3/user/capsule-upgrade.log -- gen_context(system_u:object_r:polaris_capsule_upgrade_log_t,s0)
/usr/binos/conf/mcp_dmesg_service.sh -- gen_context(system_u:object_r:polaris_mcp_dmesg_exec_t,s0)

No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#
### <summary>Polaris wncd Policy Rules.</summary>

### Interface polaris_wlc_ap_images_read

```c
interface(`polaris_wlc_ap_images_read',

gen_require(`
type polaris_wlc_ap_images_t;
```
read_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
read_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
list_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
allow $1 polaris_wlc_ap_images_t:file map;

## <summary>
## Manage files under /mnt/images/...these are related to AccessPoint images
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_wlc_ap_images_manage',
  gen_require(
    type polaris_wlc_ap_images_t;
    type mnt_t;
  )
)
manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
# transition when /mnt/images is created
filetrans_pattern($1, mnt_t, polaris_wlc_ap_images_t, dir, "images")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris esg_tam_cfg Policy Rules.</summary>

#############################################################################
## Getattr dirs pvp temporary directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_tam_getattrs_tmp_dirs',
    gen_require(''
    type tmp_t;
    type polaris_tam_tmp_t;
''
)

getattr_dirs_pattern($1, tmp_t, polaris_tam_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.if
No license file was found, but licenses were detected in source scan.
#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris MQIPC Policy Rules.</summary>

#########################################################################
# Polaris mqipc (infra/mqipc)
#########################################################################

#########################################################################
## <summary>
##      Make specified domain as one of mqipc types.
## </summary>
## <param name="domain">
##      <summary>
##      The domain serving as polaris_mqipc type
##      </summary>
## </param>
#
interface('polaris_mqipc_type',
    gen_require(''
    attribute polaris_mqipc;
''
)
typeattribute $1 polaris_mqipc;
files_type($1)
```c
manage_files_pattern($1, tmpfs_t, $2)
allow $1 $2:file map;
type_transition $1 tmpfs_t : file $2 "mq.-$3";
manage_fifo_files_pattern($1, tmp_t, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)

manage_files_pattern($1, tmpfs_t, $2)
allow $1 $2:file map;
type_transition $1 tmpfs_t : file $2 "mq.-$3";
manage_fifo_files_pattern($1, tmp_t, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)
```

### Manage mqipc shared memory file in /dev/shm directory

#### Domain allowed access.

#### Mqipc file label.

#### Mqipc channel file name stem. It is used to derive set of file names used by MQIPC.

#### Interface

```c
manage_files_pattern($1, tmpfs_t, $2)
allow $1 $2:file map;
type_transition $1 tmpfs_t : file $2 "mq.-$3";
manage_fifo_files_pattern($1, tmp_t, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)
```
## <summary>
## </param>
## <param name="mqipc_label">
## <summary>
## Database file label.
## </summary>
## </param>
## <param name="object">
## <summary>
## Mqipc file name stem. It is used to derive set of file names
## used by MQIPC.
## </summary>
## </param>

```c
interface('polaris_mqipc_create_name_dir',
gen_require(''
type tmpfs_t;
    type tmp_t;
')
manage_files_pattern($1, { tmpfs_t $2 }, $2)
    allow $1 $2:file map;
manage_dirs_pattern($1, tmpfs_t, $2)
    type_transition $1 tmpfs_t : { file dir } $2 "mq.-$3";
manage_fifo_files_pattern($1, { tmp_t $2 }, $2)
    type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
    type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
    fs_getattr_tmpfs($1)
')
```

### <summary>
### Manage mqipc shared memory file in /dev/shm directory
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <param name="mqipc_label">
### <summary>
### Mqipc channel file label.
### </summary>
### </param>

```c
interface('polaris_mqipc_use',
gen_require(''
type tmpfs_t;
')
```
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris issu_stack Policy Rules.</summary>

******************************************
## <summary>
##      Manage tmp files created by issu_stack.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface('polaris_issu_stack_tmp_manage',`
   gen_require(`
      type polaris_issu_stack_tmp_t;
   ')

   manage_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
   manage_link_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarississustack.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris Tmp Boot Policy Rules.</summary>

# /tmp/sw/boot policy

## <summary>
##      Read /tmp/sw/boot files. Does not cover rmonbifo file under
## /tmp/sw/boot/rmonbifo. For those use polaris_rmonbifo_tmp_read interface
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_boot_tmp_read`,
   gen_require(`
type polaris_boot_tmp_t;
`)
   read_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
`)

## <summary>
##      Write /tmp/sw/boot files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_boot_tmp_write`,
   gen_require(`
type polaris_boot_tmp_t;
`)
   write_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
`)

## <summary>
### Map any polaris_boot_tmp_t file, needed during install.

```c
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_boot_tmp_map',`
  gen_require(`
    type polaris_boot_tmp_t;
  `)
  allow $1 polaris_boot_tmp_t:file map;
`)

```

### Manage /tmp/sw/boot files.

```c
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_boot_tmp_manage',`
  gen_require(`
    type polaris_boot_tmp_t;
  `)
  manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
`)
```

### Create an polaris_boot_tmp_t object in tmpfs_t, tmp_t directories.

```c
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <param name="object">
## The object class of the object being created.
## </summary>
## </param>
```
## <param name="name" optional="true">
##	<summary>
##	The name of the object being created.
##	</summary>
## </param>
#
interface('polaris_boot_tmp_filetrans',
    gen_require(
        type polaris_boot_tmp_t;
    )
    fs_tmpfs_filetrans($1, polaris_boot_tmp_t, $2, $3)
    files_tmp_filetrans($1, polaris_boot_tmp_t, $2, $3)
)

########################################
## <summary>
##      Manage partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_rommon_device_manage',
    gen_require(
        type device_t;
        type polaris_rommon_device_t;
    )
    manage_blk_files_pattern($1, device_t, polaris_rommon_device_t)
    manage_chr_files_pattern($1, device_t, polaris_rommon_device_t)
)

########################################
## <summary>
##      Read partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_rommon_device_read',
    gen_require(
        type device_t;
        type polaris_rommon_device_t;
read_blk_files_pattern($1, device_t, polaris_rommon_device_t)
read_chr_files_pattern($1, device_t, polaris_rommon_device_t)

####################################
## <summary>
##      Manage /bootflash/prst_sync/reload_info
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_boot_file_manage',
  gen_require(  
    type polaris_boot_file_t;
  
    manage_files_pattern($1, polaris_boot_file_t, polaris_boot_file_t)
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

colors('polariscedgetanman', 1.0);

# why /usr/binos/conf/cedge-tanman.sh is not described in TDL?
polaris_process_domain_template(cedge_tanman)

polaris_boot_tmp_read(polaris_cedge_tanman_t)
polaris_chasfs_read(polaris_cedge_tanman_t)
polaris_cpld_read(polaris_cedge_tanman_t)
polaris_read_debug_conf(polaris_cedge_tanman_t)
polaris_use_btrace_fifo(polaris_cedge_tanman_t)
corecmd_exec_bin(polaris_cedge_tanman_t)
corecmd_exec_shell(polaris_cedge_tanman_t)
auth_use_nsswitch(polaris_cedge_tanman_t)
# /tmp/tan handling

type polaris_cedge_tanman_tmp_t;
files_tmp_file(polaris_cedge_tanman_tmp_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern(polaris_cedge_tanman_t, tmp_t, polaris_cedge_tanman_tmp_t)
manage_fifo_files_pattern(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
files_tmp_filetrans(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, dir, "tan")

# calls du -sk /tmp/xml/System
fs_getattr_tmpfs(polaris_cedge_tanman_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cedge_tanman_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cedge_tanman_t)
polaris_btrace_tmppub_read(polaris_cedge_tanman_t)

allow polaris_cedge_tanman_t self:capability sys_resource;

# calls nice
allow polaris_cedge_tanman_t self:process setsched;

# runs inotifywait -mrq --format %f: -e moved_to /bootflash/tracelogs
# and removes files in /bootflash/tracelogs
polaris_btrace_persistent_data_manage(polaris_cedge_tanman_t)

# runs ps -eaf
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_tanman_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_tanman_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_tanman_t)

# watch over /bootflash/tracelogs
polaris_btrace_data_watch(polaris_cedge_tanman_t)

# watches over /tmp for /tmp/bootted appearence
gen_require(
    type tmp_t;
')
allow polaris_cedge_tanman_t tmp_t:dir watch;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.te
No license file was found, but licenses were detected in source scan.

#
# Aug 2020, Sridhar
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#

### <summary>Polaris tlscd process Policy Rules.</summary>

### <summary>
## Allow the specified domain to manage UDS socket
## files. I.e /tmp/tlscd/
## </summary>

### <param name="domain">
## Domain allowed access.
## </param>

```
interface(`polaris_tlscd_uds_manage',`
    gen_require(`
        type polaris_tlscd_uds_t;
    `)
    manage_sock_files_pattern($1, polaris_tlscd_uds_t, polaris_tlscd_uds_t)
)`
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlsd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Same as Nyquist
dnl
dnl Nyquist Platform Max Bay Limits
dnl max_bay_map_set(`rp', `per_bay', 0)
dnl max_bay_map_set(`cc', `per_bay', 0)
dnl max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
dnl max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(“cc’, ‘elastic’, BPROC_ODM, 0)
max_elastic_map_set(“fp’, ‘elastic’, BPROC_ODM, 0)
max_elastic_map_set(“rp’, ‘elastic’, BPROC_WNCD, 0)
max_elastic_map_set(“cc’, ‘elastic’, BPROC_WNCD, 0)
max_elastic_map_set(“fp’, ‘elastic’, BPROC_WNCD, 0)
max_elastic_map_set(“fp’, ‘elastic’, BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/msmaps.m4
No license file was found, but licenses were detected in source scan.

# # September 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris polarisunconfined Policy Rules.</summary>

################################################
## # Make the specified type usable
## to be conditionally unconfined.
## </summary>
## <param name="domain">
## Type to be used for conditionally unconfined.
## </param>
#
interface(‘polaris_domain_storage_unconfined_type’);
    gen_require(‘
        attribute polaris_storage_unconfined_type;
    ’);
    typeattribute $1 polaris_storage_unconfined_type;

################################################
## Mark domain unconfined, if polaris_unconfined build
## macro is defined. Or if polaris_unconfined_conditional
## macro is defined make domain unconfined only if
## polaris_unconfined_all SELinux boolean is set on.
## </summary>
## <param name="domain">

###<summary>
###Domain allowed access.
###</summary>
###</param>
#
interface(`polaris_domain_maybe_unconfined',`
   ifdef(`polaris_unconfined',`
       unconfined_domain($1)
   `)
  ifdef(`polaris_unconfined_conditional',`
       polaris_domain_storage_unconfined_type($1)
       tunable_policy(`polaris_unconfined_all',`
           polaris_unconfined_domain($1)
       `)
  `)
#implicitly confined domain being made permissive
 permissive $1;
`)


###<summary>
###Mark iosd domain unconfined, if polaris_iosd_unconfined
### build macro is defined. Or if polaris_iosd_unconfined_conditional
### macro is defined make domain unconfined only if
### polaris_unconfined_iosd SELinux boolean is set on.
###</summary>
### <param name="domain">
###<summary>
###Domain allowed access.
###</summary>
###</param>
#
interface(`polaris_iosd_maybe_unconfined',`
   ifdef(`polaris_iosd_unconfined',`
       unconfined_domain($1)
   `)
  ifdef(`polaris_iosd_unconfined_conditional',`
       polaris_domain_storage_unconfined_type($1)
       tunable_policy(`polaris_unconfined_iosd',`
           polaris_unconfined_domain($1)
       `)
  `)
## <summary>
## Unconfined access to kernel module resources.
## Like kernel_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_kernel_unconfined',
    gen_require(''
        attribute proc_type;
            attribute sysctl_type;
                type kernel_t;
                type unlabeled_t;
                    type proc_kcore_t;
                    type proc_kmsg_t;
    ')

    allow $1 { proc_type - proc_kcore_t - proc_kmsg_t } :{ file } ~entrypoint;
    allow $1 { proc_type - proc_kcore_t - proc_kmsg_t }:{ dir lnk_file } *;

    allow $1 sysctl_type:{ file } ~entrypoint;
    allow $1 sysctl_type:{ dir lnk_file } *;

    allow $1 kernel_t:system *;

    allow $1 unlabeled_t:{ dir lnk_file sock_file fifo_file chr_file blk_file } *;
    allow $1 unlabeled_t:file ~entrypoint;
    allow $1 unlabeled_t:filesystem *;
    allow $1 unlabeled_t:association *;
    allow $1 unlabeled_t:packet *;
    allow $1 unlabeled_t:process ~{ ptrace transition dyntransition execmem execstack execheap }:

# LOOK AT ME
# kernel_load_module($1)
')

## <summary>
## Unconfined access to network objects.
## Like corenet_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##<summary>
The domain allowed access.
</summary>
##</param>
#
interface('polaris_corenet_unconfined',
gen_require(
    attribute node_type;
    attribute netif_type;
    attribute packet_type;
    attribute port_type;
')

allow $1 node_type:node *
allow $1 netif_type:netif *
allow $1 packet_type:packet *
allow $1 port_type:dccp_socket { send_msg recv_msg name_connect }
allow $1 port_type:tcp_socket { send_msg recv_msg name_connect }
allow $1 port_type:udp_socket { send_msg recv_msg }

# Bind to any network address.
allow $1 port_type:{ dccp_socket tcp_socket udp_socket rawip_socket } name_bind;
allow $1 node_type:{ dccp_socket tcp_socket udp_socket rawip_socket } node_bind;
')

########################################

## <summary>
Unconfined access to devices.
Like dev_unconfined but without typeattribute use.
</summary>
##</param>
#
interface('polaris_dev_unconfined',
gen_require(
    attribute device_node;
    type memory_device_t;
    type mtrr_device_t;
')

allow $1 self:capability sys_rawio;
allow $1 { device_node - memory_device_t } :{ blk_file lnk_file } *
allow $1 { device_node - memory_device_t } :{ file chr_file } ~{ execmod entrypoint }
allow $1 mtrr_device_t:file ~{ execmod entrypoint };

---
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23361
dev_getattr_all($1)

')

# Use/sendto/connectto sockets created by any domain.
allow $1 domain:{ socket_class_set socket key_socket } *

allow $1 domain:system all_system_perms;
# Use descriptors and pipes created by any domain.
allow $1 domain:fd use;
allow $1 domain:fifo_file rw_file_perms;
allow $1 $1:dbus send_msg;

# Act upon any other process.
allow $1 domain:process ~{ ptrace transition dyntransition execmem execstack execheap setcurrent };
allow $1 domain:process ptrace;

# Create/access any System V IPC objects.
allow $1 domain:{ sem msgq shm } *
allow $1 domain:msg { send receive };

# For /proc/pid
allow $1 domain:dir list_dir_perms;
allow $1 domain:file rw_file_perms;
allow $1 domain:lnk_file { read_lnk_file_perms ioctl lock };

# act on all domains keys
allow $1 domain:key *;
# pass constraints
# typeattribute $1 can_change_object_identity;
# typeattribute $1 set_curr_context;
# typeattribute $1 process_uncond_exempt;

# mcs_process_set_categories($1)

# userdom_filetrans_home_content($1)
')

#########################################################
## <summary>
##	Unconfined access to files.
## Like files_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_files_unconfined',`
gen_require(`
    attribute file_type;
type shadow_t;
')

# Create/access any file in a labeled filesystem;
allow $1 { file_type - shadow_t }:{ file chr_file }~{ execmod entrypoint relabelto };
allow $1 file_type:{ dir lnk_file sock_file fifo_file blk_file } *;
allow $1 file_type:service *;

    # Mount/unmount any filesystem with the context= option.
    allow $1 file_type:filesystem all_filesystem_perms;
')

#########################################################
## <summary>
##	Unconfined access to filesystems
## Like fs_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_fs_unconfined',`
allow $1 filesystem_type:filesystem all_filesystem_perms;

# Create/access other files. fs_type is to pick up various
# pseudo filesystem types that are applied to both the filesystem
# and its files.
allow $1 filesystem_type: { file } ~entrypoint;
allow $1 filesystem_type: { dir lnk_file sock_file fifo_file chr_file blk_file } *;

########################################
## <summary>
## Unconfined access to the SELinux kernel security server.
## Like selinux_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
# interface(`polaris_selinux_unconfined',`
    gen_require(`
        attribute boolean_type;
        type security_t;
        type secure_mode_policyload_t;
    `)
    # use SELinuxfs
    allow $1 security_t:dir list_dir_perms;
    allow $1 security_t:file rw_file_perms;
    allow $1 boolean_type:file read_file_perms;
    allow $1 [ boolean_type -secure_mode_policyload_t ]:file write_file_perms;

    # Access the security API.
    allow $1 security_t:security ~{ load_policy setenforce setbool setsecparam };

    ifdef(`distro_rhel4',`
        # needed for systems without audit support
        auditallow $1 security_t:security setbool;
    `)
    #selinux_set_all_booleans($1)
    #selinux_load_policy($1)
#selinux_set_parameters($1)
#selinux_set_enforce_mode($1)
')

## <summary>
## Make the specified domain unconfined.
## </summary>
## <param name="domain">
## Domain to make unconfined.
## </param>
#
interface('polaris_unconfined_domain',
gen_require(
class dbus all_dbus_perms;
class nscd all_nscd_perms;
class passwd all_passwd_perms;
')

# Use any Linux capability.
allow $1 self:capability ~{ sys_module };
allow $1 self:capability2 ~{ mac_admin mac_override };
allow $1 self:fifo_file { manage_fifo_file_perms relabelfrom relabelto };

# Transition to myself, to make get_ordered_context_list happy.
allow $1 self:process { dyntransition transition };

# Write access is for setting attributes under /proc/self/attr.
allow $1 self:file rw_file_perms;
allow $1 self:dir rw_dir_perms;

# Userland object managers
allow $1 self:nscd all_nscd_perms;
allow $1 self:dbus all_dbus_perms;
allow $1 self:passwd all_passwd_perms;
allow $1 self:association all_association_perms;
allow $1 self:socket_class_set create_socket_perms;

polaris_kernel_unconfined($1)
polaris_corenet_unconfined($1)
polaris_dev_unconfined($1)
polaris_domain_unconfined($1)
polaris_files_unconfined($1)
polaris_fs_unconfined($1)
polaris_selinux_unconfined($1)

systemd_config_all_services($1)

    # in unconfined_domain_noaudit its under not deny_execmem
    allow $1 self:process execmem;

    #domain_mmap_low($1)
    #
    #ubac_process_exempt($1)
    #
    #optional_policy`
    #auth_unconfined($1)
    #`
    #
    #optional_policy`
    ## Communicate via dbusd.
    #dbus_system_bus_unconfined($1)
    #dbus_unconfined($1)
    #`
    #
    #optional_policy`
    #ipsec_setcontext_default_spd($1)
    #ipsec_match_default_spd($1)
    #`
    #
    #optional_policy`
    #nscd_unconfined($1)
    #`
    #
    #optional_policy`
    #seutil_create_bin_policy($1)
    #seutil_relabelto_bin_policy($1)
    #`
    #
    #optional_policy`
    #storage_unconfined($1)
    #`
    #
    #optional_policy`
    #xserver_unconfined($1)
    #`
    ')'

******************************************************************************

## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
# /tmp/cpp_ifdev_req pipe files.

## <summary>
## <param name="type">
## Domain allowed access.
## </summary>
## </param>

#

interface('polaris_unconfined_service_fifo_file_manage',
    gen_require(`
        type unconfined_service_t;
    `)
)

manage_fifo_files_pattern($1, unconfined_service_t, unconfined_service_t)
`

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.if
No license file was found, but licenses were detected in source scan.

#

# March 2019, Shikhar Dogra
#
# Copyright (c) 2019-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisfmancc, 1.0);

gen_require(`
    type polaris_fman_cc_t;
`)

polaris_btrace_data_manage(polaris_fman_cc_t)
polaris_crft_data_manage(polaris_fman_cc_t)
polaris_chasfs_manage(polaris_fman_cc_t)
polaris_tdlresolve_read(polaris_fman_cc_t)
polaris_tddb_list_dirs(polaris_fman_cc_t)
polaris CPLD_read(polaris_fman_cc_t)
polaris Lua_read(polaris_fman_cc_t)
polaris_flashlib_read(polaris_fman_cc_t)
polaris CPLD_dev_use(polaris_fman_cc_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_cc_t)

# ISR Nightwatch module accesses libraries compiled with icc
polaris ICC_broken_relocations(polaris_fman_cc_t)
# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)

polaris_iosd_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc1)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc2)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc3)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc4)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.te
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2020, Swati Kumari
dnl
dnl Copyright (c) 2018-2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl rpx86 Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 2)

Found in path(s):
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.if
No license file was found, but licenses were detected in source scan.

# September 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
# All rights reserved
#

/tmp/tmppub(/.*)?  gen_context(system_u:object_r:polaris_btrace_tmppub_t,s0)

# btrace utility to rotate logs
/usr/binos/bin/btman_rotate_immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta   -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisnvram, 1.0);

###############################################################################################################
# NVRAM
###############################################################################################################
ifdef('ngwc_family',
# suppose that in edison case nvram is not in partition
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
')

ifdef('blackheart_platform',
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef('sparrow_platform',
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef('aventus_platform',
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef('cabo_platform',
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`petra_platform',`
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# suppose that in edison case nvram is not in partition
gen_require(`
    type polaris_iosd_t;
')
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris cxp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarischasfs, 1.0);

##############################################################################
# Chasfs policy
##############################################################################
gen_require(`
    attribute domain;
')
type polaris_chasfs_t;
files_type(polaris_chasfs_t)

files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chassis")
files_tmp_filetrans(domain, polaris_chasfs_t, lnk_file, "chasfs")
# LOOK AT ME: on ultra /tmp/cc/chasfs is created as directory, but
# on other platforms it is symbolic to /tmp/chassis/local/cc/chasfs
# as it happens for rp and fp. Would it be better to fix ultra
# script(s)?
files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

# cpld-symlink.service, creates /tmp/chassis while /tmp is
# still tmpfs_t, ie before systemd-tmpfiles runs and had a
# chance to set tmp_t label on /tmp
gen_require(
    type initrc_t;
')
fs_tmpfs_filetrans(initrc_t, polaris_chasfs_t, dir, "chassis")

init_script_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

###########################################################
# chasync
###########################################################
polaris_process_domain_template(chasync)

corecmd_exec_bin(polaris_chasync_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_chasync_t)

polaris_btrace_data_manage(polaris_chasync_t)
polaris_chasfs_manage(polaris_chasync_t)
polaris_cpld_read(polaris_chasync_t)
polaris_boot_tmp_read(polaris_chasync_t)
polaris_read_debug_conf(polaris_chasync_t)
polaris_rmonbifo_tmp_read(polaris_chasync_t)
polaris_proc_rmonbifo_read(polaris_chasync_t)
polaris_disk_bootflash_read_lnk(polaris_chasync_t)
polaris_disk_harddisk_read_lnk(polaris_chasync_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_chasync_t)

allow polaris_chasync_t self:capability sys_resource;
allow polaris_chasync_t self:process setpgid;

# access of crashinfo dir for the domain
polaris_disk_crashinfo_getattr(polaris_chasync_t)

# allow access of /tmp/rp/chasync for the polaris chasync_t domain to
# create/write/read dirs/files with domain specific context
  type polaris_chasync_tmp_t;
  files_type(polaris_chasync_tmp_t)
  files_tmp_file(polaris_chasync_tmp_t)
  files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, dir, "chasync")
  manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
  manage_dirs_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
  manage_fifo_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thd-1499428203 etc
  files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, file)
  manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
  fs_getattr_tmpfs(polaris_chasync_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_t)

gen_require(`
  type rsync_t;
  type init_t;
  type rsync_tmp_t;
`)
rsync_entry_domtrans(polaris_chasync_t, rsync_t)
allow rsync_t polaris_chasync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t init_t:unix_stream_socket ioctl;

# upon exec rsync inherits chasync's stdout/stderr fifo files
allow rsync_t polaris_chasync_t:fifo_file { getattr write };
# in chasync_prepost_rsync.sh, CHASYNC_PID_DIR (rsync pid files) is deleted by rsync
  fs_getattr_tmpfs(rsync_t)

# allow file:map for rsync_tmp_t
allow rsync_t rsync_tmp_t:file map;
dev_getattr_generic_blk_files(rsync_t)
dev_getattr_loop_control(rsync_t)
# need access to /usr/bin/mount
mount_entry_type(rsync_t)
# need access to dev/sda1
storage_getattr_fixed_disk_dev(rsync_t)
ifdef(`ngwc_family`,

#Read and write RPC sysctls
kernel_rw_rpc_sysctls(rsync_t)
mount_domtrans(rsync_t)
fstools_domtrans(rsync_t)
#Create/read/write on fixed device disk nodes
storage_manage_fixed_disk(rsync_t)
#stat -f -L -c %T /mnt/usb0
polaris_getattr_removable(rsync_t)
storage_filetrans_all_named_dev(rsync_t)
)
#============= polaris_dyncfg ==============
polaris_dyncfg_tmp_read(rsync_t)

#============= polaris_chasync_t ==============
polaris_btrace_persistent_data_search(polaris_chasync_t)
#chasfs.sh code executes mv command
allow polaris_chasync_t self:process { setfscreate };
#chasasync.sh code executes ping command to check if ping works before trying rsync for the first time
netutils_domtrans_ping(polaris_chasync_t)
#chasfs.sh code in wlc saves logs during cleanup to /var/log/chasasync
type polaris_chasync_log_t;
logging_log_file(polaris_chasync_log_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
logging_log_filetrans(polaris_chasync_t, polaris_chasync_log_t, dir, "chasasync")

#chasfs_boottime script
polaris_process_domain_template(chasfs_boottime)
unconfined_domain(polaris_chasfs_boottime_t)

# chasfs_boottime.sh starts cman_fp or cmand with -C option; allow its
# transition to fman_fp_t type
optional_policy(`
polaris_cm_rp_domtrans(polaris_chasfs_boottime_t)
`)
optional_policy(`
polaris_cm_fp_domtrans(polaris_chasfs_boottime_t)
`)
optional_policy('  
polaris_cm_cc_domtrans(polaris_chasync_boottime_t) 
')

ifdef('ngwc_family',`

# Allow iox_polaris.conf read  
polaris_caf_files_read(polaris_chasync_t)

# Allow losetup in helper script  
fstools_domtrans(polaris_chasync_t)

# Manage alternate hdd files  
polaris_iox_alt_hdd_manage(polaris_chasync_t)

# Allow console logging  
term_open_unallocated_tty$s(polaris_chasync_t)

# Allow logger which is used for syslog message  
allow polaris_chasync_t self:unix_dgram_socket { connect create };  
logging_send_syslog_msg(polaris_chasync_t)

# logger needs to run pidof  
dev_read_sysfs(polaris_chasync_t)  
domain_read_all_domains_state(polaris_chasync_t)
``

type polaris_chasync_files_t;  
files_type(polaris_chasync_files_t)  
polaris_pfile_type(polaris_chasync_files_t)

optional_policy('  
gen_require('  
    type polaris_disk_harddisk_t;  
    type polaris_disk_bootflash_t;  
')

filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "sys_report")  
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "fp_cc_crash")  
filetrans_pattern(polaris_chasync_t, polaris_disk_bootflash_t, polaris_chasync_files_t, file,  
"user_input_custom.xml")

# chasync can manage files inside of its own polaris_disk_chasync_t directories  
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)  
manage_files_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
allow polaris_chasync_t polaris_chasync_files_t:dir watch;
polaris_install_disk_read(polaris_chasync_t)
')

optional_policy('  # chansync invoked sys_report does ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_chasync_t)
')

# chasync moves inv files from /tftp/inv to chasfs directory
allow polaris_chasync_t self:capability { chown fowner fsetid };
gen_require('  type brctl_t;
'}

# pd_iox.sh invokes brctl which needs access to chasfs
polaris_chasfs_read(brctl_t)

#allow  chasync to unmount flash partition
mount_domtrans(polaris_chasync_t)
sysnet_domtrans_ifconfig(polaris_chasync_t)

# chasync.sh needs read access to /bootflash/.installer/install_issu_state
polaris_disk_install_read(polaris_chasync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscpp, 1.0);

########################################################################
# Polaris cpp (ultra)
########################################################################

type polaris_cpp_device_t;
dev_node(polaris_cpp_device_t)

# deals with /dev/shm files semaphors, etc
type polaris_cpp_tmpfs_t;
files_tmpfs_file(polaris_cpp_tmpfs_t)
attribute polaris_cpp_domain;
fs_tmpfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
polaris_cpp_tmpfs_manage(polaris_cpp_domain)
polaris_cerr_shm_manage(polaris_cpp_domain)

# on TSN ucode_dram lives in hugetlbfs
fs_hugetlbfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
gen_require("
    type hugetlbfs_t;
"
)manage_files_pattern(polaris_cpp_domain, hugetlbfs_t, polaris_cpp_tmpfs_t)

deals with cpp /tmp files
type polaris_cpp_tmp_t;
files_tmp_file(polaris_cpp_tmp_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, fifo_file, "cpp_ifdev_req")
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
fs_getattr_tmpfs(polaris_cpp_domain)

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library
optional_policy(['
polaris_cpp_cavium_dma_map(polaris_cpp_domain)
'])
type polaris_i95_device_t;
dev_node(polaris_i95_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

# some platforms have /usr/binos/bin/fman_fp as hardlink to
# /usr/binos/bin/fman_fp_image
/usr/binos/bin/fman_fp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_us_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
### <summary>Polaris ngiolite Policy Rules. </summary>

########################################
## <summary>
##      Execute mcp_smartctl_cmds.sh in the polaris_smartctl domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_smartctl_domtrans',`
   gen_require(`
      type polaris_smartctl_t, polaris_smartctl_exec_t;
   `)
   corecmd_search_bin($1)
   domtrans_pattern($1, polaris_smartctl_exec_t, polaris_smartctl_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.if
No license file was found, but licenses were detected in source scan.

#
# February 2018, Manohar Hungund
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved


/dev/act2 -c gen_context(system_u:object_r:polaris_act2_device_t,s0)
/tmp/hw_entropys -- gen_context(system_u:object_r:polaris_hw_entropy_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscmcc, 1.0);

gen_require('  
    type polaris_cm_cc_t;
')

polaris_btrace_data_manage(polaris_cm_cc_t)
polaris_crft_data_manage(polaris_cm_cc_t)
polaris_chasfs_manage(polaris_cm_cc_t)
polaris_tldresolve_read(polaris_cm_cc_t)
polaris_tdldb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polaris_lua_read(polaris_cm_cc_t)
polaris_flashlib_read(polaris_cm_cc_t)

polaris_cpld_dev_use(polaris_cm_cc_t)
polaris_proc_rmonbifo_read(polaris_cm_cc_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_cc_t)

optional_policy('  
    # access to /dev/iocp0
    polaris_spa_dev_use(polaris_cm_cc_t)
')

optional_policy('  
    # access to /dev/htdb[0-9]*
    polaris_htdp_dev_use(polaris_cm_cc_t)
')

# read /proc/cmdline
kernel_read_system_state(polaris_cm_cc_t)
# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_cc_t)
polaris_obfl_data_read(polaris_cm_cc_t)
# cmcc module as part of init calls cmem_obfl_write_voltage_log(),
# which writes to obfl device.
polaris_obfl_data_manage(polaris_cm_cc_t)
# on vxe platform /obfl is symlink to /varied
ifdef(`vxe_family',`
polaris_disk_varied_list(polaris_cm_cc_t)
`
)

# on Ing works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)

polaris_i2c_use(polaris_cm_cc_t)
dev_rw_sysfs(polaris_cm_cc_t)

ifdef(`crankshaft_family',`
# read,getattr, map access to /firmware/ files for Switzer-CC
polaris_firmware_read(polaris_cm_cc_t)
polaris_firmware_getattr(polaris_cm_cc_t)
polaris_firmware_map(polaris_cm_cc_t)
`
)

# allow objstore access
polaris_disk_objstore_read(polaris_cm_cc_t)

# get interface address cmlib_if_config_addr at cman/lib/cmlib_msgs/src/cmlib_eobc.c
allow polaris_cm_cc_t self:udp_socket { create ioctl);

# on utah need to get model info
optional_policy(`
    polaris_dash_dev_use(polaris_cm_cc_t)
`)

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_cm_cc_t)
`)

#access to /dev/nutella_fpga device on nutella platform
optional_policy(`
    polaris_nutella_fpga_dev_use(polaris_cm_cc_t)
`)

# handle /tmp/pci files on utah
type polaris_pci_tmp_t;
files_tmp_file(polaris_pci_tmp_t)
# /tmp/pci/bus, /tmp/pci/vendor, /tmp/pic/device created by systemd unit
gen_require(
    type initrc_t;
    type unconfined_service_t;
    type tmp_t;
  )
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_pci_tmp_t, dir, "pci")
manage_dirs_pattern(initrc_t, tmp_t, polaris_pci_tmp_t)
manage_files_pattern(initrc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
manage_files_pattern(polaris_cm_cc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
logging_send_syslog_msg(polaris_cm_cc_t)

# cmcc module creates the PCI rescan shm mutex.
# /dev/shm/rescan_shm file.
type polaris_cm_cc_tmpfs_t;
files_tmpfs_file(polaris_cm_cc_tmpfs_t)
fs_tmpfs_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, file)
manage_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
dev_read_sysfs(polaris_cm_cc_t)
dev_getattr_sysfs_fs(polaris_cm_cc_t)
fs_getattr_tmpfs(polaris_cm_cc_t)

# /tmp/udev-cc should it not be polaris_udev_tmp_t
type polaris_cm_cc_tmpfs_t;
files_tmpfs_file(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t)
files_tmpfs_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, dir, "udev-cc")
manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
gen_require(
    type tmp_t;
  )
manage_dirs_pattern(polaris_cm_cc_t, { tmp_t polaris_cm_cc_tmpfs_t }, polaris_cm_cc_tmpfs_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
    polaris_mokafpga_dev_use(polaris_cm_cc_t)
  )
optional_policy(
    # betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_cc_t)
  )

# on macallan need access to /dev/quack
optional_policy(
    polaris_quack_dev_use(polaris_cm_cc_t)
  )
polaris_cpld_write(polaris_cm_cc_t)

optional_policy('n
  # on starfleet access gettysburg_fpga
  polaris_gettysburg_fpga_dev_use(polaris_cm_cc_t)
')

# /dev/epactrlN on qwlc
optional_policy('n
polaris_epa_dev_use(polaris_cm_cc_t)
')

# /dev/luna_fpga on qwlc
optional_policy('n
polaris_luna_mbfpga_dev_use(polaris_cm_cc_t)
')

# /dev/astro on qwlc
optional_policy('n
polaris_astro_dev_use(polaris_cm_cc_t)
')

# /dev/huron_fpga on Sumatra
optional_policy('n
polaris_huron_dev_use(polaris_cm_cc_t)
')


type polaris_nim_xxd_tmp_t;
files_tmp_file(polaris_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t)
ifdef('starfleet_platform',
  # In cman_cc
  # cmcc_starfleet_act2_authentication_udi in cman/cc/src/cmcc_starfleet.c
  # cmcc_starfleet_cpuboard_act2_authentication_udi cman/cc/src/cmcc_starfleet.c
  # tam_lib_device_open infra/act2/tam_act2/tam_lib/src/tam_lib_device.c:
  polaris_act2_dev_use(polaris_cm_cc_t)
')

ifdef('crankshaft_family',
  # modprobe sm_nim_adpt.ko for Switzer-CC
  modutils_domtrans_insmod(polaris_cm_cc_t)
  # /dev/sm_nim_adpt device files for Switzer-CC
  polaris_sm_nim_adpt_dev_use(polaris_cm_cc_t)
')

# Mapping permission for /dev/shm/<name>
ifdef('crankshaft_family',
    gen_require(
        type systemd_tmpfiles_t;
    )
)mmap_files_pattern(systemd_tmpfiles_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

# on ngwc cmcc needs to access /dev/chdrvmmap for asic memory mapping
optional_policy(
    polaris_chdrvmmap_dev_use(polaris_cm_cc_t)
')

ifdef('vxe_family',
    # bind to BMC_AGENT_CLIENT_PORT port from cman_tlv_init
corenet_tcp_bind_polaris_bmc_agent_client_port(polaris_cm_cc_t)
')

# allow /usr/binos/bin/cmcc to access /tmp/hd_sz
gen_require(
    type udev_tmp_t;
')
read_files_pattern(polaris_cm_cc_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_cc_t)

# using existing interface "polaris_cm_rp_tmp_manage" for polaris_cm_cc_t
# to access /tmp/cmlib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manage(polaris_cm_cc_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_cc_t)
dev_nvme_blk_files_manage(polaris_cm_cc_t)

# access to /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris polarissortfiles Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

## <summary>Polaris Storage Policy Rules.</summary>

# Persistent storage policy

# Make the specified type usable as default type for files
# in a Polaris persistent (bootflash, hardisk, etc) filesystem.

## <summary>
## Type to be used for files.
##</summary>

interface(`polaris_disk_type',
  files_type($1)
  gen_require(`
  attribute polaris_disk;
}
Make the specified type usable for files in a Polaris persistent (bootflash, hardisk, etc) filesystem.

## <summary>
Type to be used for files.

## </summary>

## <param name="type">
Type to be used for files.

## </param>

# interface('polaris_pfile_type',
    files_type($1)
    gen_require(
        attribute polaris_disk;
    )
    typeattribute $1 polaris_disk;
)

Read any regular file/directory from persistent storage.

## <summary>
Domain allowed access.

## </summary>

## <param name="domain">
Domain allowed access.

## </param>

# interface('polaris_persistent_read',
    gen_require(
        attribute polaris_disk;
    )
    read_files_pattern($1, polaris_disk, polaris_disk)
    read_lnk_files_pattern($1, polaris_disk, polaris_disk)
    list_dirs_pattern($1, polaris_disk, polaris_disk)
)

Getattr of any regular file/directory from persistent storage.

## <summary>

## </summary>

## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_persistent_getattr',
    gen_require(
        attribute polaris_disk;
    )
    list_dirs_pattern($1, polaris_disk, polaris_disk)
    getattr_files_pattern($1, polaris_disk, polaris_disk)
    getattr_lnk_files_pattern($1, polaris_disk, polaris_disk)
')

#######################################
## <summary>
## Listdir of any regular directory from persistent storage.
## </summary>
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_persistent_list_dirs',
    gen_require(
        attribute polaris_disk;
    )
    list_dirs_pattern($1, polaris_disk, polaris_disk)
')

#######################################
## <summary>
## Write/read any regular file/directory from persistent storage.
## </summary>
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_persistent_manage',
    gen_require(
        attribute polaris_disk;
    )
    manage_files_pattern($1, polaris_disk, polaris_disk)
    manage_dirs_pattern($1, polaris_disk, polaris_disk)
manage_lnk_files_pattern($1, polaris_disk, polaris_disk)
')

### <summary>
### Map any regular file/directory from persistent storage.
### </summary>
### <param name="domain">
###    Domain allowed access.
### </param>
#
interface('polaris_persistent_map',
    gen_require('attribute polaris_disk;
    allow $1 polaris_disk:file map;
')

### debug.conf

### <summary>
### Read debug.conf from persistent storage.
### </summary>
### <param name="domain">
###    Domain allowed access.
### </param>
#
interface('polaris_read_debug_conf',
    gen_require('type polaris_debug_conf_t;
type polaris_disk_bootflash_t;
type polaris_disk_harddisk_t;
type tmp_t;
')
read_files_pattern($1, polaris_disk_bootflash_t, polaris_debug_conf_t)
read_files_pattern($1, polaris_disk_harddisk_t, polaris_debug_conf_t)
read_files_pattern($1, tmp_t, polaris_debug_conf_t)
read_lnk_files_pattern($1, tmp_t, polaris_debug_conf_t)
polaris_disk_bootflash_read_lnk($1)
')
# packages.conf

### <summary>
### Read packages.conf from persistent storage.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```
interface(`polaris_read_packages_conf',
    gen_require(`
        type polaris_packages_conf_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
    `)
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
    read_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
')
```

### <summary>
### Manage packages.conf in persistent storage.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```
interface(`polaris_manage_packages_conf',
    gen_require(`
        type polaris_packages_conf_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
    `)
    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
    manage_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
')
```

### <summary>
### Write/read any regular file/directory from /varied
### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_varied_manage',`
  gen_require(`
    type polaris_disk_varied_t;
  `)
  manage_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
`)

########################################################################
## <summary>
##      read any regular file/directory from /varied
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_varied_read',`
  gen_require(`
    type polaris_disk_varied_t;
  `)
  read_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
  list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
`)

########################################################################
## <summary>
##      Search /varied directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_varied_search',`
  gen_require(`
    type polaris_disk_varied_t;
  `)
  search_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
`)

### List/read /varied directory

#### <summary>
List/read /varied directory
#### </summary>

#### <param name="domain">
Domain allowed access.
#### </param>

```c
interface('polaris_disk_varied_list',
    gen_require(
        type polaris_disk_varied_t;
    )
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)
```

### Write/read/remove polaris_core_file_t file/directory from persistent storage.

#### <summary>
Write/read/remove polaris_core_file_t file/directory from persistent storage.
#### </summary>

#### <param name="domain">
Domain allowed access.
#### </param>

```c
interface('polaris_core_file_manage',
    gen_require(
        type polaris_core_file_t;
    )
    allow $1 polaris_core_file_t:dir rmdir;
    manage_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
)
```

### Search polaris_core_file_t dir

#### <summary>
Search polaris_core_file_t dir
#### </summary>

#### <param name="domain">
Domain allowed access.
#### </param>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_core_file_read',
    gen_require(
        type polaris_core_file_t;
    ')
    allow $1 polaris_core_file_t:dir read;
    getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
')


## <summary>
## Get attrib of bootflash fifo file.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_bootflash_fifo_file_getattr',
    gen_require(
        type polaris_disk_bootflash_t;
    ')
    getattr_fifo_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')


## <summary>
## Get attrib of bootflash sock file.
```c
interface('polaris_disk_bootflash_sock_file_getattr',
    gen_require(
        type polaris_diskbootflash_t;
    )
    getattr_sock_files_pattern($1, polaris_diskbootflash_t, polaris_diskbootflash_t)
)

interface('polaris_disk_bootflash_read_lnk',
    gen_require(
        type polaris_diskbootflash_t;
    )
    read_lnk_files_pattern($1, polaris_diskbootflash_t, polaris_diskbootflash_t)
)

interface('polaris_disk_bootflash_search',
    gen_require(
        type polaris_diskbootflash_t;
    )
    search_dirs_pattern($1, polaris_diskbootflash_t, polaris_diskbootflash_t)
)```
interface(`polaris_disk_csl_manage',
    gen_require(
        type polaris_disk_csl_p_t;
        type polaris_disk_csl_s_t;
    )
) manage_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
manage_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
)

interface(`polaris_disk_csl_read',
    gen_require(
        type polaris_disk_csl_p_t;
        type polaris_disk_csl_s_t;
    )
) read_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
)
## Write/read any regular file/directory under /objstore,
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_disk_objstore_manage',
      gen_require(
      type polaris_disk_objstore_t;
      )
    manage_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
    read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
    )

interface('polaris_disk_objstore_read',
      gen_require(
      type polaris_disk_objstore_t;
      )
    read_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
    list_dirs_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
    )

####################################################################
## <summary>
## Read links of polaris_disk_harddisk_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_disk_harddisk_read_lnk',
      gen_require(
      type polaris_disk_harddisk_t;
      )
    read_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    )

####################################################################
## <summary>
## Read harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
### <summary>
### Read bootflash files
### </summary>
### </param>###
# interface('polaris_bootflash_read',`
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    read_link_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
`)

### <summary>
### Manage bootflash files
### </summary>
### </param>###
# interface('polaris_bootflash_manage',`
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    manage_link_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
### <summary>
Create an object in the polaris_disk_bootflash_t directories, with a private type using a type transition.
</summary>

### <param name="domain">
Domain allowed access.
</param>

### <param name="private type">
The type of the object to be created.
</param>

### <param name="object">
The object class of the object being created.
</param>

### <param name="name" optional="true">
The name of the object being created.
</param>

#
interface('polaris_bootflash_filetrans',
gen_require(`
type polaris_disk_bootflash_t;
`)
filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
')

### <summary>
Manage bootflash files
</summary>

### <param name="domain">
Domain allowed access.
</param>

#
interface('polaris_harddisk_manage',
gen_require(`
type polaris_disk_harddisk_t;
')
manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_link_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

########################################
## <summary>
##	Create an object in the polaris_disk_harddisk_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
## <param name="private type">
##<summary>
##	The type of the object to be created.
##</summary>
## </param>
## <param name="object">
##<summary>
##	The object class of the object being created.
##</summary>
## </param>
## <param name="name" optional="true">
##<summary>
##
The name of the object being created.
##</summary>
## </param>
#
interface(`polaris_harddisk_filetrans`,

gen_require(`
type polaris_disk_harddisk_t;
`)

filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
')

########################################
## <summary>
##	Getattr of polaris_disk_crashinfo_t (typically /crashinfo
## symbolic link and real disk it points to)
## </summary>
## <param name="domain">

## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_disk_crashinfo_getattr',
  gen_require(`
    type polaris_disk_crashinfo_t;
  `)
read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
`)

#######################################
## <summary>
## Manage polaris_disk_crashinfo_t (typically /crashinfo symbolic link and real disk it points to)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_crashinfo_manage',
  gen_require(`
    type polaris_disk_crashinfo_t;
  `)
manage_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
`)

#######################################
## <summary>
## Read links of polaris_disk_crashinfo_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_crashinfo_read_lnk',
  gen_require(`
type polaris_disk_crashinfo_t;

');
read_link_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
');

##########################################################
## <summary>
## Write/read polaris_disk_crashinfo_t files/directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_disk_crashinfo_manage',
    gen_require(
        type polaris_disk_license_t;
    ')
manage_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
manage_link_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
allow $1 polaris_disk_license_t:file map;
')

##########################################################
## <summary>
## Read polaris_disk_license_t files/directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_disk_license_read',
    gen_require(
        type polaris_disk_license_t;
    ')
read_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
read_link_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
')

##########################################################
## Get the attributes of an removable filesystem.
## <param name="domain">

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23399
```plaintext
allow $1 removable_t:filesystem getattr;
allow $1 removable_t:dir        getattr;
')

manage_files_pattern($1, removable_t, removable_t)
manage_dirs_pattern($1, removable_t, removable_t)
')

read_files_pattern($1, removable_t, removable_t)
```
list_dirs_pattern($1, removable_t, removable_t)
read_link_files_pattern($1, removable_t, removable_t)
')

####################################################################
## <summary>
## Get the attributes of silent roll partition
## filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_getattr_filesystem_disk_ucode',
  gen_require(`
    type polaris_disk_ucode_t;
  ')
  allow $1 polaris_disk_ucode_t:filesystem getattr;
')

####################################################################
## <summary>
## Get the attributes of an bootflash filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_getattr_bootflash',
  gen_require(`
    type polaris_disk_bootflash_t;
  ')
  allow $1 polaris_disk_bootflash_t:filesystem getattr;
')

####################################################################
## <summary>
## Get the attributes of an harddisk filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_getattr_harddisk',
  gen_require(`
    type polaris_disk_harddisk_t;
  ')
)
allow $1 polaris_disk_harddisk_t:filesystem getattr;
')

########################################
## <summary>
## Get the attributes of an harddisk file.
## </summary>
## <param name="domain">
##Domain allowed access.
## </param>
#
interface(`polaris_getattr_file_harddisk',
  gen_require(`
    type polaris_disk_harddisk_t;
  ')
  getattr_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

#######################################
## <summary>
## Watch persistent file or directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_persistent_watch',
  gen_require(`
    attribute polaris_disk;
  ')
  allow $1 polaris_disk: {dir file } watch;
')
### <summary>
### Create an object in the polaris_disk_crashinfo_t directories,
### with a private type using a type transition.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <param name="private type">
### <summary>
### The type of the object to be created.
### </summary>
### </param>
### <param name="object">
### <summary>
### The object class of the object being created.
### </summary>
### </param>
### <param name="name" optional="true">
### <summary>
### The name of the object being created.
### </summary>
### </param>
#
interface(`polaris_crashinfo_filetrans`,
  gen_require(`
    type polaris_disk_crashinfo_t;
  `)
)
filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
`

### <summary>
### Get the attributes of an polaris_disk_config_t
### file or directory.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_getattr_disk_config`,
  gen_require(`
type polaris_disk_config_t;
')
    getattr_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
    getattr_dirs_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
')

################################################
## <summary>
## Create an object in the polaris_disk_config_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="private type">
## The type of the object to be created.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface('polaris_disk_config_filetrans',
    gen_require(
        type polaris_disk_config_t;
    )

filetrans_pattern($1, polaris_disk_config_t, $2, $3, $4)
')

################################################
## <summary>
## Manage bootflash files mmap
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>

#

interface('polaris_bootflash_files_mmap',
    gen_require('`
        type polaris_disk_bootflash_t;
    `')

    mmap_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.if
No license file was found, but licenses were detected in source scan.

#
# March 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisjvm, 1.0);

    gen_require('`
        type polaris_jvm_t;
    `)

    gen_require('
        type polaris_jvm_home_t;
    ')

    filetrans_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
    manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t)
    manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

    gen_require('
        type user_home_dir_t;
    `)

    manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
    manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

    # handling /tmp/hsperfdata_root
    type polaris_jvm_tmp_t;
files_type(polaris_jvm_tmp_t)
gen_require(
    type tmp_t;
')
files_tmp_filetrans(polaris_jvm_t, polaris_jvm_tmp_t, dir, "hsperfdata_root")
manage_dirs_pattern(polaris_jvm_t, tmp_t, polaris_jvm_tmp_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
mmap_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)

# listen on 9093 websocket tcp port
coreneth_tcp_bind_polaris_poljvm_websocket_port(polaris_jvm_t)
coreneth_tcp_bind_generic_node(polaris_jvm_t)
allow polaris_jvm_t self:tcp_socket create_stream_socket_perms;

# java uses jit and needs executable anonymous mapping
allow polaris_jvm_t self:process execmem;

# Allow JDK access to read cpu and memory utilization data on start up
gen_require(
    type proc_t;
')

allow polaris_jvm_t proc_t:file { getattr open read };
fs_read_cgroup_files(polaris_jvm_t)
fs_search_cgroup_dirs(polaris_jvm_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris plogd Policy Rules.</summary>

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvmplogd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
## <summary>Polaris hm Policy Rules.</summary>

### <summary>Write into fifo file created by hman, typical case when hman starts script under popen.</summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </summary>

### </param>

### <rolecap/>

#

```
interface('polaris_hman_use_fifo',
    gen_require(
        type polaris_hm_t;
    ',

    write_fifo_files_pattern($1, polaris_hm_t, polaris_hm_t)
    ')
)
```

### <summary>Read tmp files created by hman. Le /tmp/hostname.</summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </summary>

### </param>

### <rolecap/>

#

```
interface('polaris_hm_tmp_read',
    gen_require(
        type polaris_hm_tmp_t;
    ',

    read_files_pattern($1, polaris_hm_tmp_t, polaris_hm_tmp_t)
    ')
)
```

### <summary>Execute pkg_summary.sh in its own domain</summary>

### <param name="domain">

### </summary>
## Domain allowed access.

### Execute pkg_to_tree.sh in its own domain

```c
interface('polaris_pkg_to_tree_domtrans',
    gen_require(
        type polaris_pkg_to_tree_t;
        type polaris_pkg_to_tree_exec_t;
    )
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_pkg_to_tree_exec_t, polaris_pkg_to_tree_t)
')
```

### Execute hman in the polaris_cli_fs_cmds domain.

```c
interface('polaris_cli_fs_cmds_domtrans',
    gen_require(
        type polaris_cli_fs_cmds_t;
        type polaris_cli_fs_cmds_exec_t;
    )
    corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
')
```
gen_require(
  type polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
')

#########################################################
## <summary>
##      Read file /tmp/pkg_summary.txt file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pkg_summary_tmp_read',
  gen_require(
    type polaris_pkg_summary_tmp_t;
  ')
  read_files_pattern($1, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)
')

#########################################################
## <summary>
##      read the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_show_provision_tmp_read',
  gen_require(
    type polaris_show_provision_tmp_t;
  ')
  read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
')

#########################################################
## <summary>
##      manage the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      </summary>
## Domain allowed access.

```c
interface('polaris_show_provision_temp_manage',
    gen_require('polaris_show_provision_tmp_t;
    )
    manage_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    manage_link_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    manage_dirs_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    files_tmp_filetrans($1, polaris_show_provision_tmp_t, { file dir })
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/O/selinux-tar/selinux/polarishm.if

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky

# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved

```
policy_module(polarispsvp, 1.0);

polaris_process_domain_template(psvp)

# transition to pman domain, once pman is invoked by psvp
polaris_pman_domtrans(polaris_psvp_t)

# transition to pvp domain, once pvp is invoked by psvp
polaris_pvp_domtrans(polaris_psvp_t)

corecmd_exec_bin(polaris_psvp_t)
corecmd_exec_shell(polaris_psvp_t)

# can execute process in polaris domain
polaris_exec(polaris_psvp_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. I.e it need quite a bit of priviledges
domain_read_all_domains_state(polaris_psvp_t)

# another issue of running busybox start-stop-daemon under
# psvp_t label
```
# type=AVC msg=audit(1480527500.482:46): avc: denied { sys_ptrace } for pid=14853 comm="start-stop-daem" capability=19 scontext=system_u:system_r:polaris_psvp_t:s0 tcontext=system_u:system_r:polaris_psvp_t:s0 tclass=capability
allow polaris_psvp_t self:capability sys_ptrace;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_psvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_psvp_t)

# work with /tmp files
type polaris_psvp_tmp_t;
files_tmp_file(polaris_psvp_tmp_t)
manage_dirs_pattern(polaris_psvp_tmp_t, tmp_t, polaris_psvp_tmp_t)
manage_files_pattern(polaris_psvp_tmp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
manage_fifo_files_pattern(polaris_psvp_tmp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
files_tmp_filetrans(polaris_psvp_tmp_t, polaris_psvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_psvp_tmp_t, dir, "psvp")

ifdef(`ngwc_family`,
# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)
`)
)

# note split entry another psvp capability listed above
allow polaris_psvp_t self:capability sys_resource;
polaris_pvp_getattrs_tmp_dirs(polaris_psvp_t)
dmidecode_domtrans(polaris_psvp_t)
polaris_btrace_data_manage(polaris_psvp_t)
polaris_chasfs_manage(polaris_psvp_t)
polaris_cpld_read(polaris_psvp_t)
polaris_cpld_write(polaris_psvp_t)
polaris_rmonbifo_tmp_read(polaris_psvp_t)
polaris_tlddb_list_dirs(polaris_psvp_t)
polaris_boot_tmp_read(polaris_psvp_t)
polaris_disk_crashinfo_getattr(polaris_psvp_t)
polaris_flashlib_read(polaris_psvp_t)
polaris_read_debug_conf(polaris_psvp_t)
allow polaris_psvp_t self:capability dac_override;

# watch /tmp/sai/psvp
allow polaris_psvp_t polaris_psvp_tmp_t:dir watch;

# creates /tmp/sai/pvp/rp/run_stg2
polaris_pvp_manage_tmp_files(polaris_psvp_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)
')
')

# permissions during shutdown
polaris_pvp_manage_tmp_files(polaris_psvp_t);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.te
No license file was found, but licenses were detected in source scan.

#
# October 2019, Patrick O'Halloran
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscrft, 1.0);

#########################################################################
# CRFT policy
#########################################################################
gen_require(`
    attribute domain;
    attribute polaris_extended_domain;
')

# persistent CRFT files stored under crft_data
type polaris_crft_data_t;
files_type(polaris_crft_data_t)

# allow crft data file reside on persistent storage
polaris_pfile_type(polaris_crft_data_t)

attribute polaris_crft_data_domain;
typeattribute polaris_crft_data_t polaris_crft_data_domain;

# Start of mcp_crft_request context elements
polaris_utility_domain_template(crft_request)

# smand calls the mcp_crft_request.sh in bexec context
polaris_bexecute_domtrans(polaris_crft_request_t)
polaris_bexecute_domain(polaris_crft_request_t, polaris_crft_request_exec_t)

# read the cpld information
polaris_cpld_read(polaris_crft_request_t)

# dev/pty access as part of bexec operations
telnet_use_ptys(polaris_crft_request_t)

# filesystem attributes for df /
fs_getattr_xattr_fs(polaris_crft_request_t)

# btrace used in script uses these
polaris_btrace_tmppub_manage(polaris_crft_request_t)
polaris_use_btrace_fifo(polaris_crft_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_crft_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_manage(polaris_crft_request_t)

# ufs information captured by the chasfs utils
ifdef(`ngwc_family',`
optional_policy(`
polaris_ncd_tmp_manage(polaris_crft_request_t)
`')
`')
# scripts read /proc/cmdline
kernel_read_system_state(polaris_crft_request_t)

# ping the vrf
netutils_domtrans_ping(polaris_crft_request_t)
sysnet_domtrans_ifconfig(polaris_crft_request_t)

# rsync operations for members and standby rps
gen_require(`
    type rsync_exec_t;
    type rsync_port_t;
`')
allow polaris_crft_request_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_crft_request_t rsync_port_t:tcp_socket name_connect;
# access to /etc/hosts for rp/members information

gen_require(
    'type net_conf_t;
')

files_etc_filetrans(polaris_crft_request_t, net_conf_t, file, "hosts")
auth_use_nsswitch(polaris_crft_request_t)

# execute the bash script
corecmd_exec_bin(polaris_crft_request_t)

# net namespace filesystem
fs_read_nsfs_files(polaris_crft_request_t)
polaris_chasfs_manage(polaris_crft_request_t)

# script also accesses the persistent files from crft
polaris_persistent_manage(polaris_crft_request_t)
polaris_crft_data_manage_all(polaris_crft_request_t)

# ping operations via ip netns
gen_require(
    'type ifconfig_t;
')
netutils_domtrans_ping(ifconfig_t)

# Curl accesses from IoT boxes like petra/sparrow

gen_require(
    'type polaris_curl_t;
    type polaris_iosd_t;
')
allow polaris_curl_t polaris_crft_request_t;process sigchld;

# handle mktemp creation and cleanup
files_manage_generic_tmp_dirs(polaris_crft_request_t)
allow polaris_crft_request_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polaristamdpr, 1.0);
gen_require(
    type polaris_tamd_rp_t;
  )

polaris_btrace_data_manage(polaris_tamd_rp_t)
polaris_crft_data_manage(polaris_tamd_rp_t)
polaris_chasfs_managet(polaris_tamd_rp_t)
polaris_tdlresolve_read(polaris_tamd_rp_t)
polaris_tdldb_list_dirs(polaris_tamd_rp_t)
polaris_flashlib_read(polaris_tamd_rp_t)
logging_send_syslog_msg(polaris_tamd_rp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tamd_rp_t)

polaris_cpld_read(polaris_tamd_rp_t)
polaris_cpld_write(polaris_tamd_rp_t)

polaris_quack_dev_use(polaris_tamd_rp_t)

# tmp file for udi authentication
type polaris_tamd_rp_tmp_t;
files_tmp_file(polaris_tamd_rp_tmp_t);
files_tmp_filetrans(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, file, "tam_uid_validation")
manage_files_pattern(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t)
polaris_cm_rp_tmp_manage(polaris_tamd_rp_t)

# hybrid tam needs access to /objstore/.swtam
gen_require(
    type polaris_disk_objstore_t;
    type root_t;
  )
filetrans_pattern(polaris_tamd_rp_t, root_t, polaris_disk_objstore_t, dir, "objstore")
manage_dirs_pattern(polaris_tamd_rp_t, polaris_disk_objstore_t, polaris_disk_objstore_t)
polaris_disk_objstore_manage(polaris_tamd_rp_t)

# need access to dash fpga to read/write TAM
optional_policy(
    polaris_dash_dev_use(polaris_tamd_rp_t)
  )

#access to /dev/dash_fpga device on fugazi platform
ifdef(‘fugazi_platform’,
    polaris_dash_dev_mcp_use(polaris_tamd_rp_t)
  )

allow polaris_tamd_rp_t self:capability net_admin;
# LOOK AT ME tamd_rp needs shell access to do something like this
# sh -c "echo 0x04 > /sys/devices/platform/cpld/reg_rp_reset_control"
# need to rework into simple open,write,close
corecmd_exec_shell(polaris_tamd_rp_t)

# LOOK AT ME access should be restricted after /flash/dummy_check is removed,
# which is tracked under CSCvh68866. Allow access to bootflash till then.
polaris_bootflash_read(polaris_tamd_rp_t)

optional_policy(
  # Allow /dev/dmammap access
  polaris_dmammap_dev_use(polaris_tamd_rp_t)
 )

# LOOK AT ME: /dev/mem access restriction
polaris_dev_mem_use(polaris_tamd_rp_t)

optional_policy(
  polaris_ngwc_shm_manage(polaris_tamd_rp_t)
 )

optional_policy(
  polaris_remap_mem_dev_use(polaris_tamd_rp_t)
 )

polaris_cpld_dev_use(polaris_tamd_rp_t)

optional_policy(
  # allow access to /sys/devices/virtual/misc/gpio/gpio_out Assert
  polaris_ggpio_dev_read_write(polaris_tamd_rp_t)
 )

optional_policy(
    polaris_quake_i2c_manage(polaris_tamd_rp_t)
 )

#/dev/aikido access
polaris_aikido_dev_use(polaris_tamd_rp_t)

#/tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_tamd_rp_t)

# tam gpio sysfs access
optional_policy(
    dev_rw_sysfs(polaris_tamd_rp_t)
 )
ifdef('petra_platform',
  #allow access to /dev/i2c-0 for hash value
  polaris_i2c_use(polaris_tamd_rp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/sort_files_by_inode.sh -- gen_context(system_u:object_r:polaris_sort_files_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
# Copyright (c) 2020-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polariscedgestart, 1.0);

  gen_require(
    type polaris_cedge_start_t;
  )

  polaris_chasfs_manage(polaris_cedge_start_t)
polaris_boot_tmp_read(polaris_cedge_start_t)
polaris_bootflashmanage(polaris_cedge_start_t)
polaris_cpld_read(polaris_cedge_start_t)
polaris_flashlib_read(polaris_cedge_start_t)
polaris_rmonbifo_tmp_read(polaris_cedge_start_t)
polaris_btrace_tmppub_read(polaris_cedge_start_t)

  # needed by install_util.sh
  polaris_read_packages_conf(polaris_cedge_start_t)

  corecmd_exec_bin(polaris_cedge_start_t)
corecmd_exec_shell(polaris_cedge_start_t)
auth_use_nsswitch(polaris_cedge_start_t)

polaris_dmi_ports_fetch_domtrans(polaris_cedge_start_t)

# runs ps -C cfmgmr -o pid=
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_start_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_start_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_start_t)

# runs vip-confd-startup.sh needs transition into polaris_confd_t domain
polaris_confd_domtrans(polaris_cedge_start_t)

# runs systemctl start logrotate.service
systemd_exec_systemctl(polaris_cedge_start_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_cedge_start_t)

# runs install_assist.sh
polaris_install_engine_domtrans(polaris_cedge_start_t)

# write /bootflash/installer/images/pkg_boot_17.3.01/version
polaris_disk_install_manage(polaris_cedge_start_t)
gen_require(''
      type polaris_disk_install_t;
')
# du -s /bootflash/installer/images/pkg_boot_17.3.01/confd0/cdb
allow polaris_cedge_start_t polaris_disk_install_t:filesystem getattr;

# chown -R binos /bootflash/sdwan
fs_getattr_xattr_fs(polaris_cedge_start_t)

allow polaris_cedge_start_t self:capability { chown fowner net_admin };

# PLEASE LOOK AT ME cedge_start.sh modifies set of directories that
# are supposed to be read only, like usr_t, etc_t, root_t
files_rw_usr_dirs(polaris_cedge_start_t)
gen_require(''
      type usr_t;
')
manage_lnk_files_pattern(polaris_cedge_start_t, usr_t, usr_t)
libs_manage_lib_dirs(polaris_cedge_start_t)
gen_require(''
      type lib_t;
')
manage_lnk_files_pattern(polaris_cedge_start_t, lib_t, lib_t)
files_manage_etc_symlinks(polaris_cedge_start_t)
files_manage_var_symlinks(polaris_cedge_start_t)
# creates /home directory in root
gen_require(' type root_t;
')
manage_dirs_pattern(polaris_cedge_start_t, root_t, root_t)
manage_lnk_files_pattern(polaris_cedge_start_t, root_t, root_t)
# creates /var/log/sdwan
gen_require(' type var_log_t;
')
manage_dirs_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
manage_lnk_files_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
corecmd_manage_bin_files(polaris_cedge_start_t)
# PLEASE LOOK AT ME copy unit files into /lib/systemd/system
# cp /tmp/sw/rp/0/0/rp_daemons/mount/lib/systemd/system/logrotate.service /lib/systemd/system
gen_require(' type systemd_unit_file_t;
')
read_lnk_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)
# PLEASE LOOK AT ME need to have separate label for logrotate.service
# allow only to start if, do it once copy of logrotate.service is fixed
systemd_config_generic_services(polaris_cedge_start_t)
init_start(polaris_cedge_start_t)
# creates /var/log/confd
polaris_confd_var_log_manage(polaris_cedge_start_t)
# executes touch /etc/resolv.conf for case when it is missing
# check create_etc_resolv_conf make sure that it becomes net_conf_t
gen_require(' type net_conf_t;
')
files_etc_filetrans(polaris_cedge_start_t, net_conf_t, file, "resolv.conf")
sysnet_create_config(polaris_cedge_start_t)
sysnet_write_config(polaris_cedge_start_t)
# creates /var/confd0 when box boots with startup config disabled
polaris_confd_var_filetrans(polaris_cedge_start_t, dir, "confd0")
polaris_confd_var_dir_manage(polaris_cedge_start_t)

###################################################################
# During controller-mode enablement/bringup,
# viptela scripts are not loaded as part of the base packages.
# viptela-start.sh script takes care of creating these references.
# It creates softlink copies them as below to desired location depending on the packaging (mono vs subpackage).
# "cp $PKG_PATH/lib/systemd/system/logrotate.service /lib/systemd/system"
# Below policy statement allow copy access needed for viptela-logrotate.sh
# for updating /lib/systemd/system and /usr/binos/conf path
write_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# While creating soflink as below
# "ln -sf $PKG_PATH/usr/binos/conf/viptela-logrotate.sh /usr/binos/conf/viptela-logrotate.sh"
# As the ln command tries to create the new link, it removes the already existing link.
# If ln can't get rid of the conflicting path name, it does not attempt to establish the new link.
# If ln successfully removes the conflicting path name, it then establishes the link.
# delete file permissions are hence needed for ln command to perform unlinking previous link
files_delete_etc_files(polaris_cedge_start_t)

################################################################################
# During cEdge upgrade, viptela-start.sh needs permissions to maintain the
# state of roll back timer in /bootflash/.rollback_timer/*
polaris_rbtimer_bootflash_manage(polaris_cedge_start_t)

#Nutella-XE - Vedge image install
# /bin/bash /tmp/sw/rp/0/0/rp_security/mount/usr/binos/conf/viptela-start.sh
mount_domtrans(polaris_cedge_start_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.te

1.360 perl-threads-shared 1.58-2.el8
1.360.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* shared.xs
 *  *
* Copyright (c) 2001-2002, 2006 Larry Wall
*  *
* You may distribute under the terms of either the GNU General Public
* License or the Artistic License, as specified in the README file.
*  *
* "Hand any two wizards a piece of rope and they would instinctively pull in
* opposite directions."
*  --Sourcery
*  *
* Contributed by Artur Bergman <sky AT crucially DOT net>
* Pulled in the (an)other direction by Nick Ing-Simmons
*      <nick AT ing-simmons DOT net>
* CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
---------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

---------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus     accept C++ comments
--quiet         don't output anything except fatal errors
--nodiag        don't show diagnostics
--nohints       don't show hints
--nochanges     don't suggest changes
--nofilter      don't filter input files
--strip         strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=file

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=suffix

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.
=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip
Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C\texttt{DPPP_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is C\texttt{DPPP_}.

=back

The good thing is that most of the above can be checked by running \texttt{ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether \texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, \texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

\begin{verbatim}
 perl ppport.h
\end{verbatim}

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.
Please include the following information:

- Item 1.
  The complete output from running "perl -V"

- Item 2.
  This file.

- Item 3.
  The name and version of the module you were trying to build.

- Item 4.
  A full log of the build that failed.

- Item 5.
  Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[[w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '\[ [\t\]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\.';  
my $cce = '\*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/i, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.

} if ($opt{version}) {
    print "This is $0 $VERSION\n"
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: \"$opt{'compat-version'}\"\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^\(([^|]*)([^|]*)|([^|]*)\)/ ? ( $1 => { ($2 ? ( base => $2 ) : ()), ($3 ? ( todo => $3 ) : ()), (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()), (index($4, 'p') >= 0 ? ( provided => 1 ) : ()), (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()) } : die "invalid spec: $_" } qw(
  AvFILL|p5.004050|p
  AvFILL||
  CLASS||||
  CPERLscope|5.005000|p
  CX_CURPAD_SAVE|||
  CX_CURPAD_SV|||
  CopFILEAV|5.006000|p
  CopFILEGV_set|5.006000|p
  CopFILEGV|5.006000|p
  CopFILEGV_set|5.006000|p
  CopFILE_set|5.006000|p
  CopFILE|5.006000|p
  CopSTASHPV_set|5.006000|p
  CopSTASHPV|5.006000|p
  CopSTASH_eq|5.006000|p
  CopSTASH_set|5.006000|p
  CopSTASH|5.006000|p
  CopyD|5.009002|p
  Copy||
  CvPADLIST|||
  CvSTASH|||
  CvWEAKOUTSIDE|||
  DEFSV_set|5.011000|p
  DEFSV|5.004050|p
  END_EXTERN_C|5.005000|p
)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23430
ENTRY
ERRSV 5.004050
EXTEND
EXTERN_C 5.005000
F0convert
FREETMPS
GIMME_V 5.004000
GIMME
GROK_NUMERIC_RADIX 5.007002
G_ARRAY
G_DISCARD
G_EVAL
G_METHOD 5.006001
G_NOARGS
G_SCALAR
G VOID 5.004000
GetVars
GvSVn 5.009003
GvSV
Gv_AMupdate
HEf_SVKEY 5.004000
HeHASH 5.004000
HeKEY 5.004000
HeKLEN 5.004000
HePV 5.004000
HeSVKEY_force 5.004000
HeSVKEY_set 5.004000
HeSVKEY 5.004000
HeUTF8 5.011000
HeVAL 5.004000
HvNAMELEN_get 5.009003
HvNAME_get 5.009003
HvNAME
INT2PTR 5.006000
IN_LOCALE_COMPILETIME 5.007002
IN_LOCALE_RUNTIME 5.007002
IN_LOCALE 5.007002
IN_PERL_COMPILETIME 5.008001
IS_NUMBER_GREATER_THAN_UV_MAX 5.007002
IS_NUMBER_INFINITY 5.007002
IS_NUMBER_IN_UV 5.007002
IS_NUMBER_NAN 5.007003
IS_NUMBER_NEG 5.007002
IS_NUMBER_NOT_INT 5.007002
IVSIZE 5.006000
IVTYPE 5.006000
IVdf 5.006000
LEAVE
croak_nocontext
croak_xs_usage

csighandler

custom_op_desc

custom_op_name

cv_ckptproto_len

cv_clone

cv_const_sv

cv_dump

cv_undef

cx_dump

cx_dup

cxinc

dAXMARK

dAX

dITEMS

dMARK

dMULTICALL

dMY_CXT_SV

dMY_CXT

dNOOP

dORIGMARK

dSP

dTHR

dTHXR

dTHXa

dTHXoa

dTHX

dUNDERBAR

dVAR

dXCPT

dxSARGS

dxSI32

dxSTAR

deb_curcv

deb_nocontext

deb_stack_all

deb_stack_n

debop

debprof

debstackptrs

debstack

dbug_start_match

deb

del_sv
dumpunit

dup_attrlist

emulate_cop_io

eval_pv[5.006000]
eval_sv[5.006000]
exec_failed

expect_number

fbm_compile[5.005000]
fbm_instr[5.005000]
feature_is_enabled

fetch_cop_label[5.011000]
filter_add

filter_del

filter_gets

filter_read

find_and_forget_pmops

find_array_subscript

find_beginning

find_byclass

find_hash_subscript

find_in_my_stash

find_runcv[5.008001]
find_rundefsvoffset[5.009002]
find_script

find_uninit_var

first_symbol

fold_constants

forbid_setid

force_ident

force_list

force_next

force_version

force_word

forget_pmop

form_nocontext

form[5.004000]
fp_dup

fprintf_nocontext

free_global_struct

free_tied_hv_pool

free_tmps

gen_constant_list

get_arena

get_aux_mg

gc_get_av[5.006000]
gc_get_context[5.006000]
gc_get_cvn_flags[5.009005]
gc_get_cv[5.006000]
get_db_sub
get_debug_opts
get_hash_seed
get_hash[5.006000]p
get_hash
get_mstats
get_no_modify
get_num
get_op_descs[5.005000]
gt_op_names[5.005000]
gt_opargs
get_ppaddr[5.006000]
gt_re_arg
get_sv[5.006000]p
get_vtbl[5.005030]
gtcwd_sv[5.007002]
genenv_len
glob_2number
glob_assign_glob
glob_assign_ref
gp_dup
gp_free
gp_ref
grok_bin[5.007003]p
grok_hex[5.007003]p
grok_number[5.007002]p
grok_numeric_radix[5.007002]p
grok_oct[5.007003]p
group_end
gv_AVadd
gv_HVadd
gv_IOadd
gv_SVadd
gv_autoload4[5.004000]
gv_check
gv_const_sv[5.009003]
gv_dump[5.006000]
gv_efullname3[5.004000]
gv_efullname4[5.006001]
gv_efullname
gv_ename
gv_fetchfile_flags[5.009005]
gv_fetchfile
gv_fetchmeth_autoload[5.007003]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod_flags[5.011000]
gv_fetchmethod
gv_fetchmethod
gv_fetchpvn_flags|5.009002||p
gv_fetchpvs|5.009004||p
gv_fetchpvn||
gv_fetchs|5.009002|
gv_fullname3|5.004000|
gv_fullname4|5.006001|
gv_fullname||
gv_get_super_pkg||
gv_handler|5.007001|
gv_init_sv||
gv_init||
gv_name_set|5.009004|
gv_stashpvn|5.004000||p
gv_stashpvs|5.009003||p
gv_stashpvn||
gv_stashsv||
he_dup||
hek_dup||
hfreeentries||
hsplit||
hv_assert|5.011000|
hv_auxinit||n
hv_backreferences_p||
hv_clear_placeholders|5.009001|
hv_clear||
hv_common_key_len|5.010000|
hv_common|5.010000|
hv_copy_hints_hv||
hv_delayfree_ent|5.004000|
hv_delete_common||
hv_delete_ent|5.004000|
hv_delete||
hv_eiter_p|5.009003|
hv_eiter_set|5.009003|
hv_exists_ent|5.004000|
hv_exists||
hv_fetch_ent|5.004000|
hv_fetchs|5.009003||p
hv_fetch||
hv_free_ent|5.004000|
hv_iterinit||
hv_iterkeys|5.004000|
hv_iterkey||
hv_iternext_flags|5.008000|
hv_iternextsv||
hv_iternext||
hv_itervall||
hv_kill_backrefs||
is_utf8_char_slow
is_utf8_char[5.006000]
is_utf8_centril[5.006000]
is_utf8_common[]
is_utf8_digit[5.006000]
is_utf8_graph[5.006000]
is_utf8_idcont[5.008000]
is_utf8_idfirst[5.006000]
is_utf8_lower[5.006000]
is_utf8_mark[5.006000]
is_utf8_print[5.006000]
is_utf8_punct[5.006000]
is_utf8_space[5.006000]
is_utf8_string_atlen[5.009003]
is_utf8_string_len[5.008001]
is_utf8_string[5.006001]
is_utf8_upper[5.006000]
is_utf8_xdigit[5.006000]
isa_lookup[]
items[]
in
ix[]
jmaybe[]
join_exact[]
keyword[]
leave_scope[]
lex_end[]
lex_start[]
linklist[]
listkids[]
list[]
load_module_nocentext[]
load_module[5.006000][p]
localize[]
looks_like_bool[]
looks_like_number[]
lop[]
mPUSHi[5.009002][p]
mPUSHn[5.009002][p]
mPUSHp[5.009002][p]
mPUSHs[5.011000][p]
mPUSHu[5.009002][p]
xPUSHi[5.009002][p]
xPUSHn[5.009002][p]
xPUSHp[5.009002][p]
xPUSHs[5.011000][p]
xPUSHu[5.009002][p]
mad_free[]
madlex[]
mro_meta_dup
mro_meta_init
mro_method_changed_in|5.009005|
mro_register|5.011000|
mro_set_mro|5.011000|
mro_set_private_data|5.011000|
mul128
mulexp10
my_atof2|5.007002|
my_atof|5.006000|
my_atrsl
my_bcopy
my_betoh16
my_betoh32
my_betoh64
my_betohi
my_betohl
my_betohs
my_bzero
my_chsize
my_clearenv
my_cxt_index
my_cxt_init
my_dirfd|5.009005|
my_exit_jump
my_exit
my_failure_exit|5.004000|
my_fflush_all|5.006000|
my_fork|5.007003|
my_htobe16
my_htobe64
my_htobe32
my_htobei
my_htobe
my_htobes
my_htole16
my_htole64
my_htole32
my_htolei
my_htole
my_htoles
my_htonl
my_kid
my_letoh16
my_letoh32
my_letoh64
my_letohi
my_letohl
my_letohes
my_letonl
my_kid
my_letoh16
my_letoh32
my_letoh64
my_letohl
my_letohes
my_letonl
my_kid
my_letoh16
my_letoh32
my_letoh64
my_letohl
my_letohes
my_letonl
my_kid
my_letoh16
my_letoh32
my_letoh64
my_letohl
my_letohes
my_letonl
my_kid
my_letoh16
my_letoh32
my_letoh64
my_letohl
my_letohes
my_letonl
ptr_table_fetch||5.009005|
ptr_table_find||n
ptr_table_free||5.009005|
ptr_table_new||5.009005|
ptr_table_split||5.009005|
ptr_table_store||5.009005|
push_scope|||
put_byte|||
pv_display||5.006000||p
pv_escape||5.009004||p
pv_pretty||5.009004||p
pv_uni_display||5.007003|
qerror|||
qsortsvu|||
re_compile||5.009005|
re_croak2|||
re_dup_guts|||
re_intuit_start||5.009005|
re_intuit_string||5.006000|
readpipe_override|||
realloc||5.007002
reentrant_free|||
reentrant_init|||
reentrant_retry|||vn
reentrant_size|||
ref_array_or_hash|||
refcounted_he_chain_2hv|||
refcounted_he_fetch|||
refcounted_he_free|||
refcounted_he_new_common|||
refcounted_he_new|||
refcounted_he_value|||
refkids|||
refto|||
ref||5.011000|
reg_check_named_buff_matched|||
reg_named_buff_all||5.009005|
reg_named_buff_exists||5.009005|
reg_named_buff_fetch||5.009005|
reg_named_buff_firstkey||5.009005|
reg_named_buff_iter|||
reg_named_buff_nextkey||5.009005|
reg_named_buff_scalar||5.009005|
reg_named_buff|||
reg_namedseq|||
reg_node|||
reg_numbered_buff_fetch|||
reg_numbered_buff_length|||
run_body||
run_user_filter||
rpvp_dup||
rxres_free||
rxres_restore||
rxres_save||
safesyscalloc[5.006000]|n
safesysfree[5.006000]|n
safesysmalloc[5.006000]|n
safesysreallocate[5.006000]|n
same_dirent||
save_116[5.004000]|
save_132||
save_18[5.006000]|
save_adelete[5.011000]|
save_aelem[5.004050]|
save_alloc[5.006000]|
save_aptr||
save_ary||
save_bool[5.008001]|
save_clearsv||
save_delete||
save Destructor_x[5.006000]|
save Destructor[5.006000]|
save_freeop||
save_freepv||
save_freesv||
save_generic_pvref[5.006001]|
save_generic_svref[5.005030]|
save_gp[5.004000]|
save_hash||
save_hpek_flags||n
save_helem_flags[5.011000]|
save_helem[5.004050]|
save_hints||
save_hptr||
save_int||
save_item||
save_iv[5.005000]|
save_lines||
save_list||
save_long||
save_magic||
save_mortalizesv[5.007001]|
save_nogv||
save_op||
save_padsv_and_mortalize\[5.011000\]
save_pptr\[
save_pushi32ptr\[
save_pushptri32ptr\[
save_pushptrptr\[
save_pushptr\[5.011000\]
save_re_context\[5.006000\]
save_scalar_at\[
save_scalar\[
save_set_svflags\[5.009000\]
save_shared_pvref\[5.007003\]
save_sptr\[
save_svref\[
save_vptr\[5.006000\]
savepvn\[
savepvs\[5.009003\]
savepv\[
savesharedpvn\[5.009005\]
savesharedpv\[5.007003\]
savestack_grow_cnt\[5.008001\]
savestack_grow\[
savesvpv\[5.009002\]
sawparens\[
scalar_mod_type\[ln\]
scalarboolean\[
scalarkids\[
sclararseq\[
sclararvoid\[
sclarar\[
scan_bin\[5.006000\]
scan_commit\[
scan_const\[
scan_formline\[
scan_heredoc\[
scan_hex\[
scan_ident\[
scan_inputsymbol\[
scan_num\[5.007001\]
scan_oct\[
scan_pat\[
scan_str\[
scan_subst\[
scan_trans\[
scan_version\[5.009001\]
scan_vstring\[5.009005\]
scan_word\[
scope\[
screaminstr\[5.005000\]

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23464
sv_pvbyten_force|5.006000|
sv_pvbyten|5.006000|
sv_pvbyte|5.006000|
sv_pvn_force|5.007002|p
sv_pvn_force|
sv_pvn_nomg|5.007003|5.005000|p
sv_pvn|5.005000|
sv_pvutf8n_force|5.006000|
sv_pvutf8n|5.006000|
sv_pvutf8|5.006000|
sv_pv|5.006000|
sv_recode_to_utf8|5.007003|
sv_reftype|
sv_release_COW|
sv_replace|
sv_report_used|
sv_reset|
sv_rvweaken|5.006000|
sv_setiv_mg|5.004050|p
sv_setiv|
sv_setnv_mg|5.006000|p
sv_setnv|
sv_setpv_mg|5.004050|p
sv_setpvf_mg|5.006000|5.004000|pv
sv_setpvf_mg|5.006000|5.004000|pv
sv_setpvf_nocontext|v
sv_setpvf_nocontext|vn
sv_setpvf|5.004000|v
sv_setpviv_mg|5.008001|
sv_setpviv|5.008001|
sv_setpvn_mg|5.004050|p
sv_setpvn|
sv_setpvs|5.009004|p
sv_setpvs|
sv_setref_iv|
sv_setref_nv|
sv_setref_pvn|
sv_setref_pv|
sv_setref_uv|5.007001|
sv_setsv_cow|
sv_setsv_flags|5.007002|
sv_setsv_mg|5.004050|p
sv_setsv_nomg|5.007002|p
sv_setsv|
sv_setsuv_mg|5.004050|p
sv_setsuv|5.004000|p
sv_tainted|5.004000|
sv_tainted|5.005000|
sv_unglob
sv_uni_display[5.007003]
sv_unmagic
sv_unref_flags[5.007001]
sv_unref
sv_untaint[5.004000]
sv_upgrade
sv_usepvn_flags[5.009004]
sv_usepvn_mg[5.004050]
p
sv_usepvn
sv_utf8_decode[5.006000]
sv_utf8_downgrade[5.006000]
sv_utf8_encode[5.006000]
sv_utf8_upgrade_flags_grow[5.011000]
sv_utf8_upgrade_flags[5.007002]
sv_utf8_upgrade_nomg[5.007002]
sv_utf8_upgrade[5.007001]
sv_uv[5.005000]
p
sv_vcatpvf_mg[5.006000, 5.004000]
p
sv_vcatpvfn[5.004000]
sv_vcatpvf[5.006000, 5.004000]
p
sv_vsetpvf_mg[5.006000, 5.004000]
p
sv_vsetpvfn[5.004000]
sv_vsetpvf[5.006000, 5.004000]
p
sv_xmlpeek
svtype
swallow_bom
swap_match_buff
swash_fetch[5.007002]
swash_get
swash_init[5.006000]
sys_init3[5.010000]
sys_init[5.010000]
n
sys_intern_clear
sys_intern_dup
sys_intern_init
sys_term[5.010000]
ntaint_env
ntaint_proper
tmps_grow[5.006000]
toLOWER
ntoUPPER
to_byte_substr
to_uni_fold[5.007003]
to_uni_lower[5.006000]
to_uni_lower_lc[5.007003]
to_uni_title[5.006000]
to_uni_title_lc[5.007003]
if (exists $opt{list-unsupported}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", ","x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23472


if (exists $API{$function->[0]}) {
    my @n = find_api($function->[1]);
    push @{$depends{$function->[0]}}, @n if @n
} else {
    $function->[1] .= $_;
}

$function = [$1, ] if m{^DPPP\((my_\(\w+\))\)};

$replace    = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+rccce\s*\$};
$replace{$2} = $1 if $replace and m{^\s*$\#s*define\s+(\w+)(?:\(\[^\)]*\))?=\s+\(\w+\)\s+Rcccs\s+Replace\s+\$rccce\s*\$};
$replace{$1} = $2 if m{^\s*$rcccs\s+Replace \(\w+\) with \(\w+\)\s+\$rccce\s*\$};

if (m{^\s*$rcccs\s+\(\w+\s*,\w+\w+\s*,\w+\w+\)\s+depends\s+\(\w+\s*,\w+\w+\s*,\w+\w+\)\s+\$rccce\s*\$}) { my @deps = map { s/\s++//g; S_ } split /, /, $3; my $d; for $d (map { s/\s++//g; S_ } split /, /, $1) { push @{$depends{$d}}, @deps; } }

$need{$1} = 1 if m{^\#if\s+defined\(\$NEED_\(\w+\)\)\$rcce\s*\$};
}

for (values %depends) {
    my %s;
    $_= [sort grep !s{$_}++, @$_];
}

if (exists $opt{‘api-info’}) {
    my $f;
    my $count = 0;
    my $match = $opt{‘api-info’} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{‘api-info’}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n== $f ==\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {

    Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23473
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo.
";
print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ":\n" if exists $depends{$f};
print "\nHints for $f: \n" if exists $hints{$f};
print "\nWarnings for $f: \n" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching 'opt{api-info}'\n";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{provided};
   my @flags;
   push @flags, 'explicit' if exists $need{$f};
   push @flags, 'depend' if exists $depends{$f};
   push @flags, 'hint' if exists $hints{$f};
   push @flags, 'warning' if exists $warnings{$f};
   my $flags = @flags ? ['\['.join(', ', @flags).']' : "";
   print "$f$flags\n";
} exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join ' ', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
   if (-e) {
      if (-f) {
         push @files, $_ unless $seen{$_}++;
      } else { warn "$_ is not a file.\n" }
   } else {
      my @new = grep { -f } glob $_
      or warn "$_ does not exist.\n"
      push @files, grep { !$seen{$_}++ } @new;
   }
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23475


# Temporarily remove C/XS comments and strings from the code

my @ccom;

$c = s{  
  (^SHS*#SHS*include\{[^r\n]+\b(?:QSppport|E|XSUB|\b)[^r\n]\}*  
  | (^SHS*#SHS*:\?define|elif|if(?:\?def)?)\b[^r\n]\}*  )  
  | (^SHS*#SHS*:  
    ["[^\]\](?:[^\]\]\*[\]\[^r\n]]{0,6}  
    | /[^/]+\*[\]\[^r\n]]  
    | /\[^/]+\*+\b[^/]+\*+\b[^/]+\*+\b[^/]+\*/  
  )  
} { defined $2 and push @ccom, $2;  
  defined $1 ? "$ccs$#ccom$cce" } mgsex;

$file{com} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^SHS*#SHS*include[^r\n]+\bQSppport|E|XSUB|\b[^r\n]*/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /Ab(?:Perl)\?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /Perl_$func/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
            if ($file{needs}{$_} = 'static' if exists $need{$_};
            
          }
          for ($func, @deps) {  
            $file{needs}{$_} = 'static' if exists $need{$_};
          }
        }
      }
    }
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /$func/) {
      $file{uses_todo}{$func}++;
    }
  }
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23477


my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(?!aTHX_\()\s*\)\s*}}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    %file{changes} += $changes;
}
}
else {
    warning("Uses Perl_$func instead of $func");
    %file{changes} += ($c =~ s{\bPerl_$func\(\s*)(?!aTHX_?)\s*} {$func$1(}g);
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    %file{changes} += ($c =~ s{\b$func\s*} {$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if (%file{uses} {$func}) {
        if (exists %file{uses_deps} {$func}) {
            diag("Uses $func, which depends on ", join(',', @%file{uses_deps} {$func}));
        }
        else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func} {todo}), ", even with \$ppport\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists %file{uses} {$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists %file{needs} {$func} & & %file{needs} {$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }

if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}[$func]) {
        if ($file{needs}[$func] eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}[$func] eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_${type}"}[$func]) {
            if ($type eq 'global') {
                diag("Files [@{\$global{needs}[$func]}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "";
        $file{changes}++;
    }
}
unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp = qq(#include "$ppport"
    )
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
        || ($c =~ s/^($HS*#$HS*include.*Q$ppportE)/$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s+?)^/$1$pp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            }
error("'$newfile' already exists, refusing to write copy of '$filename'");
}
else {
    local *F;
    if (open F, "$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
    }
    else {
        error("Cannot open '$newfile' for writing: $!");
    }
}
else {
    if (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, "$opt{patch}") {
                    $patch_opened = 1;
                }
            }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
            mydiff($PATCH, $filename, $c);
        }
        else {
            fallback:
            info("Suggested changes:");
            mydiff($STDOUT, $filename, $c);
        }
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}
sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!$defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<'HEADER' . $diff;
            --- $file
            +++ $file.patched
        HEADER
    }

    if (!$defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!$defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!$defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = '';
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";
if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/Q$Stmp\E/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }

    unlink $tmp;
    }
else {  
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend {
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{ $seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;

    if ($ver =~ /^(\d+).(\d+).(\d+)/) {
        return ($1, $2, $3);
    }  
elsif ($ver !~ /=\d+/\d+/\d+)/} {  
    die "cannot parse version '$ver"un";  
}

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;
$v = int $v;
$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
if ($s % 10) {
die "cannot parse version '$ver'\n";
}
}
return ($r, $v, $s);
}
sub format_version
{
my $ver = shift;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;
$v = int $v;
$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
if ($s % 10) {
die "invalid version '$ver'\n";
}
$s /= 10;
$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;
return $ver;
}
return sprintf "%d.%d.%d", $r, $v, $s;
}
sub info
{
$opt{quiet} and return;
print @_, "\n";
}
sub diag
{
$opt{quiet} and return;

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23484


$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23485


ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23486


exit 0;
}

DATA
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
expand-archive-r04CR9IQ/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-
1.58/ppport.h
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
expand-archive-r04CR9IQ/perl-threads-shared.spec
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2017 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
expand-archive-r04CR9IQ/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-
1.58/examples/class.pl
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.58

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => ['foo' => 'bar baz']});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [] ]); 

{ lock(%hash); ... } 

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module. This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write
modules that will work in both threaded and non-threaded environments.
=head1 FUNCTIONS
=over 4
=item share VARIABLE
C<share> takes a variable and marks it as shared:
my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);
C<share> will return the shared rvalue, but always as a reference.
Variables can also be marked as shared at compile time by using the
C<:shared> attribute:
my ($var, %hash, @array) :shared;
Shared variables can only store scalars, refs of shared variables, or
refs of shared data (discussed in next section):
my ($var, %hash, @array) :shared;
my $bork;
# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;
# Storing shared refs
$var = \%hash;
$hash{'ary'} = \@array;
$array[1] = \$var;
# The following are errors:
# $var = \$bork;
# ref of non-shared variable
# $hash{'bork'} = [];
# non-shared array ref
# push(@array, { 'x' => 1 });
# non-shared hash ref
=item shared_clone REF
C<shared_clone> takes a reference, and returns a shared version of its
argument, performing a deep copy on any non-shared elements. Any shared
elements in the argument are used as is (i.e., they are not cloned).

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23489


my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});

Object status (i.e., the class an object is blessed into) is also cloned.

my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");  # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share({});   # Same as $var = shared_clone({});

Not all Perl data types can be cloned (e.g., globs, code refs). By default, `shared_clone` will L<croak[Carp]> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

$threads::shared::clone_warn = 0;

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to C<refaddr()> (see L<Scalar::Util>). Otherwise, returns C<undef>.

if (is_shared($var)) {
  print("$var is shared\n");
} else {
  print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
  print("%hash is shared\n");
}
$hash[\text{\textquote{elem}}] = 1;
if (is\_shared($hash[\text{\textquote{elem}}])) {
    \text{\textquote{print}}("$hash[\text{\textquote{elem}}] \text{ is in a shared hash}\n");
}

=\text{\textquote{item}} lock \text{\textquote{VARIABLE}}

\text{\textquote{lock}} places a \text{\textquote{advisory}} lock on a variable until the lock goes out of
scope. If the variable is locked by another thread, the \text{\textquote{lock}} call will
block until it’s available. Multiple calls to \text{\textquote{lock}} by the same thread from
within dynamically nested scopes are safe -- the variable will remain locked
until the outermost lock on the variable goes out of scope.

\text{\textquote{lock}} follows references exactly \text{\textquote{one}} level:

my \%hash :shared;
my $ref = \%hash;
lock($ref); \quad \# \text{\textquote{This is equivalent to}} \text{\textquote{lock}}(\%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the
lock to go out of scope. This is most easily accomplished by locking the
variable inside a block.

my $var :shared;
{
    lock($var);
    \# $var is locked from here to the end of the block
    ...
}
\# $var is now unlocked

As locks are advisory, they do not prevent data access or modification by
another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

my \%hash :shared;
$hash['foo'] = 'bar';
#lock($hash['foo']); \quad \# \text{\textquote{Error}}
lock(\%hash); \quad \# \text{\textquote{Works}}

If you need more fine-grained control over shared variable access, see
\text{\textquote{L}}<\text{\textquote{Thread}}::\text{\textquote{Semaphore}}>. 

=\text{\textquote{item}} cond\_wait \text{\textquote{VARIABLE}}

=\text{\textquote{item}} cond\_wait CONDVAR, LOCKVAR
The \texttt{C<cond\_wait>} function takes a \texttt{B<locked>} variable as a parameter, unlocks the variable, and blocks until another thread does a \texttt{C<cond\_signal>} or \texttt{C<cond\_broadcast>} for that same locked variable. The variable that \texttt{C<cond\_wait>} blocked on is re-locked after the \texttt{C<cond\_wait>} is satisfied. If there are multiple threads \texttt{C<cond\_wait>}ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using \texttt{C<cond\_wait>} for synchronization, give up the lock as soon as possible).

The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, \texttt{C<cond\_wait>} takes a shared, \texttt{B<unlocked>} variable followed by a shared, \texttt{B<locked>} variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread \texttt{C<cond\_signal>} or \texttt{C<cond\_broadcast>} on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

\begin{verbatim}
{ lock($counter); cond\_wait($counter) until $counter == 0; }
\end{verbatim}

\texttt{C<cond\_timedwait>} takes a \texttt{B<locked>} variable and an absolute timeout in I<epoch> seconds (see \texttt{L<time>} in \texttt{perlfunc/perlfunc/time} for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like \texttt{C<cond\_wait>}, this function may take a shared, \texttt{B<locked>} variable as an additional parameter; in this case the first parameter is an \texttt{B<unlocked>} condition variable protected by a distinct lock variable.

Again like \texttt{C<cond\_wait>}, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

\begin{verbatim}
lock($var);
my $abs = time() + 15;
until ($ok = desired\_condition($var)) {
\end{verbatim}
last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

{ no warnings 'threads'; cond_signal($foo); }

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that L<blessings> propagate across threads.

# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;
# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    # bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
    bless($obj, 'Yang');
    $foo->{'bar'} = $obj;
})->join();

print(ref($foo),       "\n");  # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");  # Prints 'Yang'
print(ref($bar),       "\n");   # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 WARNINGS

=over 4

=item cond_broadcast() called on unlocked variable

=item cond_signal() called on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo); # Contents are now wiped out
print("ERROR: $foo is empty\n") if (! exists($foo->{'data'}));

Therefore, populate such variables B<after> declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does not propagate the blessing to the shared reference:

my $foo = &share({});
my $bar = &share({});
$bar->{foo} = $foo;
bless($foo, 'baz'); # $foo is now of class 'baz',
# but $bar->{foo} is unblessed.

Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been written to support sharing. For example, a shared object's destructor may get called multiple times, once for each thread's scope exit, or may not get called at all if it is embedded inside another shared object. Another issue is that the contents of hash-based objects will be lost due to the above mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not autovivify the elements, and neither does slicing a shared array/hash over non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and C<< share($arrayref->[idx]) >> without giving any error message. But the
C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another thread.

Using C<refaddr()> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for circular references). Use L<is_shared()|"is_shared VARIABLE">, instead:

```perl
use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}
```

L<each()|perlfunc/"each HASH"> does not work properly on shared references embedded in shared structures. For example:

```perl
my %foo :shared;
$foo{ 'bar' } = shared_clone({ 'a' => 'x', 'b' => 'y', 'c' => 'z' });

while (my ($key, $val) = each(%{$foo{'bar'}})) {
    ...
}
```

Either of the following will work instead:

```perl
my $ref = $foo{ 'bar' };
while (my ($key, $val) = each(%{$ref})) {
    ...
}
```

```perl
foreach my $key (keys(%{$foo{'bar'}})) {
    my $val = $foo{'bar'}{$key};
    ...
}
```

This module supports dual-valued variables created using C<dualvar()> from L<Scalar::Util>. However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:
my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc. to:
L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=head1 LICENSE

threads::shared is released under the same license as Perl.

=cut

Found in path(s):

No license file was found, but licenses were detected in source scan.

---

abstract: 'Perl extension for sharing data structures between threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Scalar::Util: '0'
  Test::More: '0'
  XSLoader: '0'
  strict: '0'
  threads: '1.73'
  warnings: '0'
  version: '1.58'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

1.361 expat 2.2.5 4.el8

1.361.1 Available under license:

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2017 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.362 ruby 2.5.9-
107.module_el8.4.0+847+ee687b6c
1.362.1 Available under license:

libffi - Copyright (c) 1996-2014 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

test-unit is copyrighted free software by Kouhei Sutou <kou@cozmixng.org>, Ryan Davis <ryand-ruby@zenspider.com> and Nathaniel Talbott <nathaniel@talbott.ws>.

You can redistribute it and/or modify it under either the terms of the GPL version 2 (see the file GPL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

   b) use the modified software only within your corporation or organization.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

   a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

   b) accompany the distribution with the machine-readable source of the software.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.

Exceptions
----------

* lib/test/unit/diff.rb: This license, PSF license and/or LGPLv2.1 or later

* lib/test-unit.rb: This license and/or LGPLv2.1 or later

LEGAL NOTICE INFORMATION
------------------------

All the files in this distribution are written by the author.
Copyright (c) Jim Weirich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your
patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)
  * committer

AKIYOSHI, Masamichi (akiyoshi)
  * committer
  * He had maintained the VMS support on 2003-2004.

Muhammad Ali
* wrote rdoc for Fiber

Minero Aoki (aamine)
* committer
* He is the maintainer of:
  * fileutils
  * net/http, net/https
  * net/pop
  * net/smtmp
  * racc
  * ripper
  * strscan

Wakou Aoyama (wakou)
* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev
* Added IO#pread and IO#pwrite.

== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

David Black (dblack)
* committer
* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.

Oliver M. Bolzer
* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

Evan Brodie
* a patch for documentation of Float#round

Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)
* committer
* He wrote and is the maintainer of miniunit

Guy Decoux (ts)
* committer

Zach Dennis

Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* patches for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)
* committer
* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S.Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

David Flanagan (davidflanagan)
* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

Tadayoshi Funaba (tafd)
* committer
* He wrote and is the maintainer of
date
* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.
David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
  * benchmark.rb
  * open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

Phil Hagelberg
* patch for ruby-mode.el's documentation.

Kirk Haines (wyhaines)
* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
* POP3S support

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
  * rdoc
  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex.m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J
Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, decimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of decimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.
Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafontune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c
Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the “patch monster”
* He wrote and is the maintainer of:
  * optparse
* stringio
* io/wait
* iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputil

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation
Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U
UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hiroyuki (eban)
* committer
* He is the maintainer of
* ftools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c
William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.
Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop

Copyright (c) 2008 Engine Yard, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (C) 2014-2017 Kazuki Tsujimoto, All rights reserved.

You can redistribute it and/or modify it under either the terms of the 2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
   b) use the modified software only within your corporation or organization.
   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
   d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:
   a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
   b) accompany the distribution with the machine-readable source of the software.
   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
   d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as
output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

LEGAL NOTICE INFORMATION
------------------------

All the files in this distribution are covered under either the Ruby's license (see the file COPYING) or public-domain except some files mentioned below.

ccan/build_assert/build_assert.h
ccan/check_type/check_type.h
ccan/container_of/container_of.h
ccan/str/str.h

These files are licensed under the CC0.

https://creativecommons.org/choose/zero/

ccan/list/list.h

This file is licensed under the MIT License.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

include/ruby/onigmo.h:
include/ruby/oniguruma.h:
regcomp.c:
regenc.[ch]:
regerror.c:
regexec.c:
regint.h:
regparse.[ch]:
enc/ascii.c
cenc/big5.c
cenc/cp949.c
cenc/emacs_mule.c
cenc/encdb.c
cenc/euc_jp.c
cenc/euc_kr.c
cenc/euc_tw.c
cenc/gb18030.c
cenc/gb2312.c
cenc/gbk.c
cenc/iso_8859_1.c
cenc/iso_8859_10.c
cenc/iso_8859_11.c
cenc/iso_8859_13.c
cenc/iso_8859_14.c
cenc/iso_8859_15.c
cenc/iso_8859_16.c
cenc/iso_8859_2.c
cenc/iso_8859_3.c
cenc/iso_8859_4.c
cenc/iso_8859_5.c
cenc/iso_8859_6.c
cenc/iso_8859_7.c
cenc/iso_8859_8.c
cenc/iso_8859_9.c
cenc/koi8_r.c
cenc/koi8_u.c
cenc/shift_jis.c
cenc/unicode.c
cenc/us_ascii.c
cenc/utf_16be.c
cenc/utf_16le.c
cenc/utf_32be.c
cenc/utf_32le.c
cenc/utf_8.c
cenc/windows_1251.c

Onigmo (Oniguruma-mod) LICENSE
---------------------------------
/*-
* Copyright (c) 2002-2009 K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
* Copyright (c) 2011-2014 K.Takata  <kentkt AT csc DOT jp>
* All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Oniguruma LICENSE

-------------

/*-
* Copyright (c) 2002-2009 K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
* All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  SUCH DAMAGE.
*/

https://github.com/k-takata/Onigmo/
https://github.com/kkos/oniguruma
https://svnweb.freebsd.org/ports/head/devel/oniguruma/

When this software is partly used or it is distributed with Ruby,
this of Ruby follows the license of Ruby.

enc/trans/GB/GB12345%UCS.src:
enc/trans/GB/UCS%GB12345.src:
enc/trans/GB/GB2312%UCS.src:
enc/trans/GB/UCS%GB2312.src:

This mapping data was created from files provided by Unicode, Inc.
(The Unicode Consortium). The files were used to create a product supporting
Unicode, as explicitly permitted in the files' copyright notices.
Please note that Unicode, Inc. never made any claims as to fitness of these
files for any particular purpose, and has ceased to publish the files many
years ago.

enc/trans/JIS/JISX0201-KANA%UCS.src:
enc/trans/JIS/JISX0208@1990%UCS.src:
enc/trans/JIS/JISX0212%UCS.src:
enc/trans/JIS/JISX0201-KANA.src:
enc/trans/JIS/JISX0208@1990.src:
enc/trans/JIS/JISX0212.src:

2015 Unicode, Inc.
For terms of use, see http://www.unicode.org/terms_of_use.html

enc/trans/JIS/JISX0213-1%UCS@BMP.src:
enc/trans/JIS/JISX0213-1%UCS@SIP.src:
enc/trans/JIS/JISX0213-2%UCS@BMP.src:
enc/trans/JIS/JISX0213-2%UCS@SIP.src:

Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
Copyright (C) 2001 I'O, All Rights Reserved.
Copyright (C) 2006 Project X0213, All Rights Reserved.
You can use, modify, distribute this table freely.
configure:

This file is free software.

Copyright (C) 1992, 93, 94, 95, 96 Free Software Foundation, Inc.

This configure script is free software; the Free Software Foundation gives unlimited permission to copy, distribute and modify it.

tool/config.guess:
tool/config.sub:

As long as you distribute these files with the file configure, they are covered under the Ruby's license.


This file is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

As a special exception to the GNU General Public License, if you distribute this file as part of a program that contains a configuration script generated by Autoconf, you may include it under the same distribution terms that you use for the rest of that program.

parse.c:
This file is licensed under the GPL, but is incorporated into Ruby and redistributed under the terms of the Ruby license, as permitted by the exception to the GPL below.


This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

/* As a special exception, you may create a larger work that contains part or all of the Bison parser skeleton and distribute that work under terms of your choice, so long as that work isn't itself a parser generator using the skeleton or a modified version thereof as a parser skeleton. Alternatively, if you modify or redistribute the parser skeleton itself, you may (at your option) remove this special exception, which will cause the skeleton and the resulting Bison output files to be licensed under the GNU General Public License without this special exception.

This special exception was added by the Free Software Foundation in version 2.2 of Bison. */

util.c (partly):

Copyright (c) 1991, 2000, 2001 by Lucent Technologies.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

win32/win32.[ch]:

You can apply the Artistic License to these files. (or GPL, alternatively)

Copyright (c) 1993, Intergraph Corporation

You may distribute under the terms of either the GNU General Public License or the Artistic License, as specified in the perl README file.

util.c (partly):

Copyright (c) 2004-2008 David Schultz <das@FreeBSD.ORG>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

random.c

This file is under the new-style BSD license.

A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. The names of its contributors may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

The Wayback Machine url:

vm_dump.c:procstat_vm

This file is under the new-style BSD license.

Copyright (c) 2007 Robert N. M. Watson
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb $

vsnprintf.c:

This file is under the old-style BSD license. Note that the paragraph 3 below is now null and void.

Copyright (c) 1990, 1993
The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by Chris Torek.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

IMPORTANT NOTE:

--------------
paragraph 3 above is now null and void.

st.c:
strftime.c:
include/ruby/st.h:
missing/acosh.c:
missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.[ch]:
ext/sdbm/_sdbm.c:
ext/sdbm/sdbm.h:

These files are all under public domain.

missing/crypt.c:

This file is under the old-style BSD license. Note that the paragraph 3 below is now null and void.

Copyright (c) 1989, 1993
The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

missing/setproctitle.c

This file is under the old-style BSD license. Note that the paragraph 3 below is now null and void.

Copyright 2003 Damien Miller
Copyright (c) 1983, 1995-1997 Eric P. Allman
Copyright (c) 1988, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

missing/strcat.c
missing/strncpy.c

These files are under an ISC-style license.

Copyright (c) 1998, 2015 Todd C. Miller <Todd.Miller@courtesan.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

missing/langinfo.c

This file is from http://www.cl.cam.ac.uk/~mgk25/ucs/langinfo.c.
Ruby uses a modified version. The file contains the following
author/copyright notice:

Markus.Kuhn@cl.cam.ac.uk -- 2002-03-11
Permission to use, copy, modify, and distribute this software
for any purpose and without fee is hereby granted. The author
disclaims all warranties with regard to this software.

ext/digest/md5/md5.[ch]:

These files are under the following license. Ruby uses modified
versions of them.

Copyright (C) 1999, 2000 Aladdin Enterprises. All rights reserved.
This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

L. Peter Deutsch
ghost@aladdin.com

ext/digest/rmd160/rmd160.[ch]:

These files have the following copyright information, and by the author we are allowed to use it under the new-style BSD license.

AUTHOR: Antoon Bosselaers, ESAT-COSIC
        (Arranged for libc by Todd C. Miller)
DATE:  1 March 1996

Copyright (c) Katholieke Universiteit Leuven
1996, All Rights Reserved

ext/digest/sha2/sha2.[ch]:

These files are under the new-style BSD license.

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors may be used to endorse or promote products derived from this software.
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ext/json/generator/generator.c:

Copyright 2001-2004 Unicode, Inc.

Disclaimer

This source code is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.

Limitations on Rights to Redistribute This Code

Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.

ext/nkf/nkf-utf8/config.h:
ex/nkf/nkf-utf8/nkf.c:
ex/nkf/nkf-utf8/utf8tbl.c:

These files are under the following license. So to speak, it is copyrighted semi-public-domain software.

Copyright (C) 1987, Fujitsu LTD. (Itaru ICHIKAWA)

Everyone is permitted to do anything on this program including copying, modifying, improving, as long as you don't try to pretend that you wrote it. i.e., the above copyright notice has to appear in all copies.
Binary distribution requires original version messages.
You don't have to ask before copying, redistribution or publishing.
THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE.

ext/psych:
test/psych:

Copyright 2009 Aaron Patterson, et al.

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the 'Software'), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

ext/psych/yaml:

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
These files are under the new-style BSD license.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You can apply the Artistic License to this file. (or GPL, alternatively)

(c) 1995 Microsoft Corporation. All rights reserved.
Developed by ActiveWare Internet Corp., http://www.ActiveWare.com

Other modifications Copyright (c) 1997, 1998 by Gurusamy Sarathy <gsar@umich.edu> and Jan Dubois <jan.dubois@ibm.net>

You may distribute under the terms of either the GNU General Public License or the Artistic License, as specified in the README file of the Perl distribution.
lib/rdoc/generator/template/darkfish/css/fonts.css:

This file is licensed under the SIL Open Font License.

http://scripts.sil.org/OFL

spec/mspec:
spec/ruby:

Copyright (c) 2008 Engine Yard, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

lib/rubygems.rb:
lib/rubygems:
test/rubygems:

RubyGems is copyrighted free software by Chad Fowler, Rich Kilmer, Jim Weirich and others. You can redistribute it and/or modify it under either the terms of the MIT license (see the file MIT.txt), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

a. place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

b. use the modified software only within your corporation or organization.

c. give non-standard executables non-standard names, with instructions on where to get the original software distribution.

d. make other distribution arrangements with the author.

3. You may distribute the software in object code or executable form, provided that you do at least ONE of the following:

a. distribute the executables and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

b. accompany the distribution with the machine-readable source of the software.

c. give non-standard executables non-standard names, with instructions on where to get the original software distribution.

d. make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial).

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Copyright (c) 2014-2016 Yuki Nishijima

MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>. You can redistribute it and/or modify it under either the terms of the 2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

   b) use the modified software only within your corporation or organization.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

   a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
b) accompany the distribution with the machine-readable source of the software.

c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library ‘Frob’ (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

2-clause BSDL

2-clause BSDL BSDL

1.

2.

(a)

(b)

(c)

(d)

3.

(a)

(b)

(c)

(d)

4.

LEGAL

5.
6. Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

- the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
- moral rights retained by the original author(s) and/or performer(s);
- publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
- rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
- rights protecting the extraction, dissemination, use and reuse of data in a Work;
- database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
- other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of
3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.

You can redistribute it and/or modify it under either the terms of the 2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

   b) use the modified software only within your corporation or organization.
c) give non-standard binaries non-standard names, with
   instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form,
   provided that you do at least ONE of the following:

   a) distribute the binaries and library files of the software,
      together with instructions (in the manual page or equivalent)
      on where to get the original distribution.

   b) accompany the distribution with the machine-readable source of
      the software.

   c) give non-standard binaries non-standard names, with
      instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other
   software (possibly commercial). But some files in the distribution
   are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the
   file LEGAL.

5. The scripts and library files supplied as input to or produced as
   output from the software do not automatically fall under the
   copyright of the software, but belong to whomever generated them,
   and may be sold commercially, and may be aggregated with this
   software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
   IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
   PURPOSE.

1.363 cpp 8.4.1-1.el8
1.363.1 Available under license :
GNU GENERAL PUBLIC LICENSE
   Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.364 rootfiles 8.1-22.el8

1.364.1 Available under license:

No license file was found, but licenses were detected in source scan.

License: Public Domain

Found in path(s):
1.365 libstoragemgmt 1.8.7-1.el8
1.365.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute.

^L
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.366 libsgutils 1.44-5.el8
1.366.1 Available under license:

Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>, Bruce Allen <ballen at gravity dot phys dot uwm dot edu>, Peter Allworth <linsol at zeta dot org dot au>, James Bottomley <jejb at parisc-linux dot org>, Lars Marowsky-Bree <lmb at suse dot de>, Kurt Garloff <garloff at suse dot de>, Grant Grundler <grundler at parisc-linux dot org>, Christophe Varoqui <christophe dot varoqui at free dot fr>, Michael Weller <eowmob at exp-math dot uni-essen dot de>, Eric Youngdale <eric at andante dot org>
Copyright:

This software is copyright(c) 1994-2012 by the authors

Most of the code in this package is covered by a BSD license.
On Debian systems, the complete text of the BSD License
may be found in `/usr/share/common-licenses/BSD'. All the code
in the library (usually called libgutils) is covered by a
BSD license.

Some of the older utilities are covered by the GPL. More precisely:
You are free to distribute this software under the terms of the
GNU General Public License either version 2, or (at your option)
any later version. On Debian systems, the complete text of the GNU
General Public License can be found in `/usr/share/common-licenses/GPL-2'
file. The later GPL-3 is found in `/usr/share/common-licenses/GPL-3'
file but no code in this package refers to that license.

Douglas Gilbert
10th April 2012

Copyright (c) 1999-2018, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code, and that you show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a
consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-
free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only
way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the
section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest
validity of any such claims; this section has the sole purpose of protecting the integrity of the free software
distribution system, which is implemented by public license practices. Many people have made generous
contributions to the wide range of software distributed through that system in reliance on consistent application of
that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other
system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted
interfaces, the original copyright holder who places the Program under this License may add an explicit
geographical distribution limitation excluding those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this
License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time
to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new
problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License
which applies to it and "any later version", you have the option of following the terms and conditions either of that
version or of any later version published by the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are
different, write to the author to ask for permission. For software which is copyrighted by the Free Software
Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be
guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the
sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE
PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM
"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
1.368 lxml 4.2.3

1.368.1 Available under license:
Zope Public License (ZPL) Version 2.0
-----------------------------------------------

This software is Copyright (c) Zope Corporation (tm) and Contributors. All rights reserved.

This license has been certified as open source. It has also been designated as GPL compatible by the Free Software Foundation (FSF).

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source code must retain the above copyright notice, this list of conditions, and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name Zope Corporation (tm) must not be used to endorse or promote products derived from this software without prior written permission from Zope Corporation.

4. The right to distribute this software or to use it for any purpose does not give you the right to use Servicemarks (sm) or Trademarks (tm) of Zope Corporation. Use of them is covered in a separate agreement (see http://www.zope.com/Marks).

5. If any files are modified, you must cause the modified
files to carry prominent notices stating that you changed
the files and the date of any change.

Disclaimer

THIS SOFTWARE IS PROVIDED BY ZOPE CORPORATION ``AS IS''
AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL ZOPE CORPORATION OR ITS CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

This software consists of contributions made by Zope
Corporation and many individuals on behalf of Zope
Corporation. Specific attributions are listed in the
accompanying credits file.

GNU GENERAL PUBLIC LICENSE

   Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
   59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The ElementTree / XML Toys Library is

Copyright (c) 1999-2003 by Secret Labs AB
Copyright (c) 1999-2003 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its associated documentation, you agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its associated documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies, and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Secret Labs AB or the author not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

lxml is copyright Infrae and distributed under the BSD license (see
doc/licenses/BSD.txt), with the following exceptions:

Some code, such as selftest.py, selftest2.py and
src/lxml/elementpath.py are derived from ElementTree and
cElementTree. See doc/licenses/elementtree.txt for the license text.

lxml.cssselect and lxml.html are copyright Ian Bicking and distributed
under the BSD license (see doc/licenses/BSD.txt).

test.py, the test-runner script, is GPL and copyright Shuttleworth
Foundation. See doc/licenses/GPL.txt. It is believed the unchanged
inclusion of test.py to run the unit test suite falls under the
"aggregation" clause of the GPL and thus does not affect the license
of the rest of the package.

The isoschematron implementation uses several XSL and RelaxNG resources:
* The (XML syntax) RelaxNG schema for schematron, copyright International
  Organization for Standardization (see
  src/lxml/isoschematron/resources/rng/iso-schematron.rng for the license
text)
* The skeleton iso-schematron-xslt1 pure-xslt schematron implementation
  xsl stylesheets, copyright Rick Jelliffe and Academia Sinica Computing
  Center, Taiwan (see the xsl files here for the license text:
  src/lxml/isoschematron/resources/xsl/iso-schematron-xslt1/)
* The xsd/rng schema schematron extraction xsl transformations are unlicensed
  and copyright the respective authors as noted (see
  src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl and
  src/lxml/isoschematron/resources/xsl/XSD2Schtrn.xsl)
Copyright (c) 2004 Infrae. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
distribution.
3. Neither the name of Infrae nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INFRAE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.369 ctags 5.8-22.el8
1.369.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69. Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.370 libsolve 0.7.16-2.el8

1.370.1 Available under license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of Novell nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
All files for the Windows compatibility layer are taken from musl,
except for unistd.h and fnmemopen.c.

MUSL

musl as a whole is licensed under the following standard MIT license:

----------------------------------------------------------------------

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
----------------------------------------------------------------------

TRE (tre.h, tre-mem.c)

The TRE regular expression implementation (reg* and
tre*) is Copyright  2001-2008 Ville Laurikari and licensed
under a 2-clause BSD license (license text in the source files). The
included version has been heavily modified by Rich Felker in 2012, in
the interests of size, simplicity, and namespace cleanliness.
This is the license, copyright notice, and disclaimer for TRE, a regex matching package (library and tools) with support for approximate matching.

Copyright (c) 2001-2009 Ville Laurikari <vl@iki.fi>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS `AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.371 python-rpm-macros 3-41.el8

1.371.1 Available under license:
No license file was found, but licenses were detected in source scan.

License: MIT

Found in path(s):
* /opt/cola/permits/1176900349_1624978789.12/0/python-rpm-macros-3-41.el8-1.src.rpm-cosi-expand-archive-CUmMpDG3/python-rpm-macros.spec

1.372 perl-file-temp 0.230.600 1.el8
1.372.1 Available under license:

This software is copyright (c) 2018 by Tim Jenness and the UK Particle Physics and Astronomy Research Council.

This is free software; you can redistribute it and/or modify it under the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2018 by Tim Jenness and the UK Particle Physics and Astronomy Research Council.

This is free software, licensed under:

The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that
you changed the files and the date of any change; and

b) cause the whole or any part of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special
exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 2018 by Tim Jenness and the UK Particle Physics and Astronomy Research Council.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package
may be copied, such that the Copyright Holder maintains some semblance of
artistic control over the development of the package, while giving the users of
the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.373 efi-rpm-macros 3-3.el8
1.373.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor’s "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.374 pyyaml 3.12 12.el8
1.374.1 Available under license :
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.375 pip 9.0.3
1.375.1 Available under license :
Copyright (c) 2008-2016 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
1.376 perl-storable 3.11-3.el8

1.376.1 Available under license:

No license file was found, but licenses were detected in source scan.

/*
   _________________________________________________________________

   ppport.h -- Perl/Pollution/Portability Version 3.40

   Automatically created by Devel::PPPort running under perl 5.028000.

   Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
   includes in parts/inc/ instead.

   Use 'perldoc ppport.h' to view the documentation below.

   _________________________________________________________________

   SKIP

   =pod

   =head1 NAME

   ppport.h - Perl/Pollution/Portability version 3.40

   =head1 SYNOPSIS

   perl ppport.h [options] [source files]

   Searches current directory for files if no [source files] are given

   --help                   show short help
   --version                show version
   --patch=file             write one patch file with changes
   --copy=suffix            write changed copies with suffix
   --diff=program           use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus             accept C++ comments

--quiet                  don't output anything except fatal errors
--nodiag                 don't show diagnostics
--nohints                don't show hints
--nochanges              don't suggest changes
--nofilter               don't filter input files

--strip                  strip all script and doc functionality
                         from ppport.h

--list-provided          list provided API
--list-unsupported       list unsupported API
--api-info=name          show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<pport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<pport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<pport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<pport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip
Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided


to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can’t be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn’t have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>SvRX()</td>
<td>NEED_SvRX</td>
<td>NEED_SvRX_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>croak_xs_usage()</td>
<td>NEED_croak_xs_usage</td>
<td>NEED_croak_xs_usage_GLOBAL</td>
</tr>
<tr>
<td>die_sv()</td>
<td>NEED_die_sv</td>
<td>NEED_die_sv_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES
To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/
```
to display information for all known API elements.

=head1 BUGS

If this version of <fppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If <fppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
send a bug report to L<perlbug@perl.org|mailto:perlbug@perl.org>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.40;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23636


if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.
"
}

if ($opt{version}) {
print "This is $0 $VERSION
";
exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
die "Invalid version number format: '$opt{'compat-version'}\n"
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|[^|]*\|[^|]*\|[^]*$/ ? ( $1 => {
  ($2 ? ( base => $2 ) : ()),
  ($3 ? ( todo => $3 ) : ()),
  (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
  (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
  (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
} ) : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001\nAvFILLp|5.004050||p
BhkDISABLE||5.024000|
BhkENABLE||5.024000|
BhkENTRY_set||5.024000|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23637
PERL_MAGIC_bml|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.024000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.024000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.024000||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.024000||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV.Escape_QUOTE|5.009004||p
PERL_PV.Escape_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
SV_COW_DROP_PV|5.008001||p
SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_INVLIST|5.019002|
SVt_IV|||SVt_NULL|||SVt_NV|||SVt_PVAV|||SVt_PVCV|||SVt_PVFM|||SVt_PVGV|||SVt_PVHV|||SVt_PVIO|||SVt_PTVV|||SVt_PVLV|||SVt_PVMG|||SVt_PVNV|||SVt_PV|||SVt_REGEXP|5.011000|
Safefree|||Slab_Alloc|||Slab_Free|||Slab_to_ro|||Slab_to_rw|||StructCopy|||SvCUR_set|||SvCUR|||SvEND|||SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050||p
SvGROW|||SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off|||SvIOK_only_UV|5.006000|
SvIOK_only|||SvIOK_on|||SvIOKp|||SvIOK||
SvPV\_force\|p
SvPV\_mutable|5.009003|p
SvPV\_nolen\_const|5.009003|p
SvPV\_nolen|5.006000|p
SvPV\_nomg\_const\_nolen|5.009003|p
SvPV\_nomg\_const|5.009003|p
SvPV\_nomg\_nolen|5.013007|p
SvPV\_nomg|5.007002|p
SvPV\_renew|5.009003|p
SvPV\_set|p
SvPVbyte\_force|5.009002|
SvPVbyte\_nolen|5.006000|
SvPVbyte\_force|5.006000|
SvPVbyte\_ex|5.006000|
SvPVbyte|5.006000|p
SvPVutf8\_force|5.006000|
SvPVutf8\_nolen|5.006000|
SvPVutf8\_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx|p
SvPV|p
SvREFCNT\_dec\_NN|5.017007|
SvREFCNT\_dec|p
SvREFCNT\_inc\_NN|5.009004|p
SvREFCNT\_inc\_simple\_NN|5.009004|p
SvREFCNT\_inc\_simple\_void\_NN|5.009004|p
SvREFCNT\_inc\_simple\_void|5.009004|p
SvREFCNT\_inc\_simple|5.009004|p
SvREFCNT\_inc\_void\_NN|5.009004|p
SvREFCNT\_inc\_void|5.009004|p
SvREFCNT\_inc|p
SvREFCNT|p
SvROK\_off|p
SvROK\_on|p
SvROK|p
SvRV\_set|5.009003|p
SvRV|p
SvRXOK|5.009005|p
SvRX|5.009005|p
SvSETMAGIC|p
SvSHARED\_HASH|5.009003|p
SvSHARE|5.007003|
SvSTASH\_set|5.009003|p
SvSTASH|p
SvSetMagicSV\_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV\_nosteal|5.004000|
XSRETURN_NV
XSRETURN_PV
XSRETURN_UNDEF
XSRETURN_UV[5.008001]
XSRETURN_YES

XST_mIV
XST_mNO
XST_mNV
XST_mPV
XST_mUNDEF
XST_mUV[5.008001]
XST_mYES

XS_APIVERSION_BOOTCHECK[5.024000]
XS_EXTERNAL[5.024000]
XS_INTERNAL[5.024000]
XS_VERSION_BOOTCHECK[5.024000]
XS_VERSION

XSprePUSH[5.006000]
XS

XopDISABLE[5.024000]
XopENABLE[5.024000]
XopENTRYCUSTOM[5.024000]
XopENTRY_set[5.024000]
XopENTRY[5.024000]
XopFLAGS[5.013007]
ZeroD[5.009002]
Zero
_aMY_CXT[5.007003]
_add_range_to_invlist
_append_range_to_invlist
_core_swash_init
_get_encoding
_get_regclass_nonbitmap_data
_get_swash_invlist
_invlistEQ
_invlist_array_init
_invlist_contains_cp
_invlist_dump
_invlist_intersection_maybe_complement_2nd
_invlist_intersection
_invlist_invert
_invlist_len
_invlist_populate_swatch
_invlist_search
_invlist_subtract
_invlist_union_maybe_complement_2nd
_invlist_union
cntrl_to_mnemonic
compute_EXACTish
construct_ahocorasick_from_trie
cop_fetch_label[5.015001]
cop_free

cop_hints_2hv[5.013007]
cop_hints_fetch_pvn[5.013007]
cop_hints_fetch_pvs[5.013007]
cop_hints_fetch_pv[5.013007]
cop_hints_fetch_sv[5.013007]
cop_store_label[5.015001]
cophh_2hv[5.013007]
cophh_copy[5.013007]
cophh_delete_pvn[5.013007]
cophh_delete_pvs[5.013007]
cophh_delete_pv[5.013007]
cophh_delete_sv[5.013007]
cophh_fetch_pvn[5.013007]
cophh_fetch_pvs[5.013007]
cophh_fetch_pv[5.013007]
cophh_fetch_sv[5.013007]
cophh_free[5.013007]
cophh_new_empty[5.024000]
cophh_store_pvn[5.013007]
cophh_store_pvs[5.013007]
cophh_store_pv[5.013007]
cophh_store_sv[5.013007]
core_prototype
coresub_op

cr_textfilter
create_eval_scope

croak_memory_wrap[5.019003]
croak_no_mem

croak_no_mod[5.013003]
croak_noc[5.013007]
croak_popstack

croak_sv[5.013001]
croak_x[5.010001]
croak

csighandler[5.009003]
current_re_engine

curse

custom_op_desc[5.007003]
custom_op_get_field

custom_op_name[5.007003]
custom_op_register[5.013007]
custom_op_xop[5.013007]
cv_ckpt[5.013007]
do_hv_dump||5.006000|
do_ipcct||
do_ipcget||
do_join||
do_magic_dump||5.006000|
do_msgrcv||
do_msgsnd||
doncmp||
do_oddball||
do_op_dump||5.006000|
do_open6||
do_open9||5.006000|
do_open_raw||
do_openn||5.007001|
do_open||5.003070|
do_pmop_dump||5.006000|
do_print||
do_readline||
do_seek||
do_semop||
do_shmio||
do_smartmatch||
do_spawn_nowait||
do_spawn||
do_sprintf||
do_sv_dump||5.006000|
do_sysseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop||
docatch||
doeval_compile||
dofile||
dofindlabel||
doform||
doopen_pm||
doopen_pm||
doparseform||
dopoptoeval||
dopoptogivenfor

dopoptolabel

dopoptoloop

dopoptosub_at

dopoptowhen

doref[5.009003]
downwind

dowantarray

drand48_init_r

drand48_r

dtrace_probe_call

dtrace_probe_load

dtrace_probe_op

dtrace_probe_phase

dump_all_perl

dump_all[5.006000]
dump_c_backtrace

dump_eval[5.006000]
dump_exec_pos

dump_form[5.006000]
dump_indent[5.006000]
dump_mstats

dump_packsubs_perl

dump_packsubs[5.006000]
dump_sub_perl

dump_sub[5.006000]
dump_sv_child

dump_trie_interim_list

dump_trie_interim_table

dump_trie

dump_vindent[5.006000]
dumpuntil

dup_attrlist

edit_distance

evaluate_cop_io

eval_pv[5.006000]
eval_sv[5.006000]
exec_failed

expect_number

fbm_compile[5.005000]
fbm_instr[5.005000]
feature_is_enabled

filter_add

filter_del

filter_gets

filter_read

finalize_optree

finalize_op
get_cvn_flags
get_cv[5.011000][p
get_cv[5.006000][p
get-db_sub
get-debug_opts
get-hash_seed
get-hv[5.006000][p
get-invlist_iter_addr[n
get-invlist_offset_addr[n
get-invlist_previous_index_addr[n
get-mstats
get-no_modify
get-num
get-op_descs[5.005000]
get-op_names[5.005000]
get-opargs
get-ppaddr[5.006000]
get-re_arg
get-sv[5.006000][p
get-vtbl[5.005030]
getcwd-sv[5.007002]
getenv_len
glob-2number
glob-assign_glob
gp_dup
gp_free
gp_ref
grok_atoUV[n
grok_bin[5.007003][p
grok-bslash_N]
grok-bslash_c]
grok-bslash_0]
grok-bslash_x]
grok-hex[5.007003][p
grok-infnan[5.0210004
grok-number_flags[5.021002
grok-number[5.007002][p
grok-numeric_radix[5.007002][p
grok-oct[5.007003][p
group_end]
gv-AVadd]
gv-HVadd]
gv-IOadd]
gv-SVadd]
gv-add-by-type[5.011000]
gv-autoload4[5.004000]
gv-autoload_pvn[5.015004]
gv-autoload_pv[5.015004]
gv_try_downgrade||
handle_named_backref||
handle_possible_posix||
handle_regex_sets||
he_dup||
hek_dup||
hfree_next_entry||
hsplit||
hv_assert||
hv_auxinit_internal||
hv_auxinit||
hv_backreferences_p||
hv_clear_placeholders[5.009001]
hv_clear||
hv_common_key_len[5.010000]
hv_common[5.010000]
hv_copy_hints_hv[5.009004]
hv_delayfree_ent[5.004000]
hv_delete_common||
hv_delete_ent[5.003070]
hv_delete||
hv_eiter_p[5.009003]
hv_eiter_set[5.009003]
hv_ename_add||
hv_ename_delete||
hv_exists_ent[5.003070]
hv_exists||
hv_fetch_ent[5.003070]
hv_fetchs[5.009003]|p
hv_fetch||
hv_fill[5.013002]
hv_free_ent_ret||
hv_free_entries||
hv_free_ent[5.004000]
hv_iterinit||
hv_iterkeys[5.003070]
hv_iterkey||
hv_iternext_flags[5.008000]
hv_iternexts||
hv_iternextsv||
hv_iternext||
hv_iteration||
hv_kill_backrefs||
hv_ksplit[5.003070]
hv_magic_check||
hv_magic||
hv_name_set[5.009003]
hv_notallowed||
hv_placeholders_get[5.009003]
mXPUSHp|5.009002||p
mXPUSHs|5.010001||p
mXPUSHu|5.009002||p
magic_clear_all_env||
magic_cleararylen_p||
magic_clearenv||
magic_clearhints||
magic_clearhint||
magic_clearisa||
magic_clearpack||
magic_clearsig||
magic_copycallchecker||
magic_dump|5.006000|
magic_existspack||
magic_freearylen_p||
magic_freeovrd||
magic_getarylen||
magic_getdebugvar||
magic_getdefelem||
magic_getnkeys||
magic_getpack||
magic_getpos||
magic_getsig||
magic_getsubstr||
magic_gettaint||
magic_getuvar||
magic_getvec||
magic_get||
magic_killbackrefs||
magic_methcall1||
magic_methcall||
magic_methpack||
magic_methcall1||v
magic_regdata_cnt||
magic_regdatum_get||
magic_regdatum_set||
magic_scalarpack||
magic_set_all_env||
magic_setarylen||
magic_setcolxfrm||
magic_setdbline||
magic_setdebugvar||
magic_setdefelem||
magic_setenv||
magic_sethint||
magic_setisa||
magic_setlvref||
magic_setmglob||
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setsig
magic_setsubstr
magic_settaint
magic_setutf8
magic_setuvar
magic_setvec
magic_sets
magic_sizepack
magic_wipepack
make_matcher
make_tric
malloc_good_size
malloced_size
malloc[5.007002]
markstack_grow[5.021001]
matcher_matches_sv
maybe_multimagic_gv
mayberelocate
measure_struct
memEQs[5.009005]
memEQ[5.004000]
memNEs[5.009005]
memNE[5.004000]
mem_collxfrm
mem_log_alloc
mem_log_common
mem_log_free
mess_alloc
mess_nocontext
mess_sv[5.013001]
mess[5.006000]
mfree[5.007002]
mg_clear
mg_copy
mg_dup
mg_find_mglob
mg_findext[5.013008]
mg_find[5.013006]
mg_free_type[5.013006]
mg_free
mg_get
mg_length[5.005000]
mg_localize
mg_magical
mg_set
mg_size[5.005000]
mini_mktime[5.007002]
minus_v
missingterm
mode_from_discipline
modkids
more_bodies
more_sv
moreswitches
move_proto_attr
mro_clean_isarev
mro_gather_and_rename
mro_get_from_name[5.010001]
mro_get_linear_isa_dfs
mro_get_linear_isa[5.009005]
mro_get_private_data[5.010001]
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in[5.009005]
mro_package_moved
mro_register[5.010001]
mro_set_mro[5.010001]
mro_set_private_data[5.010001]
mul128
mulexp10
multideref_stringify
my_atof2[5.007002]
my_atof[5.006000]
my_attrs
my_bcopy[5.004050]
my_bytes_to_utf8
my_bzero
my_chsize
my_clearenv
my_cxt_index
my_cxt_init
my_dirfd[5.009005]
my_exit_jump
my_exit
my_failure_exit[5.004000]
my_fflush_all[5.006000]
my_fork[5.007003]
my_kid
my_lstat_flags
my_lstat[5.024000]
my_memcmp
my_memset
my_pclose[5.003070]
my_popen_list[5.007001]
my_popen[5.003070]
my_setenv
my_setlocale
my_snprintf[5.009004]|pvn
my_socketpair[5.007003]|n
my_sprintf[5.009003]|pvn
my_stat_flags
my_stat[5.024000]
my_strerror[5.021001]
my_strftime
my_strlcat[5.009004]|pn
my_strlcpy[5.009004]|pn
my_unexec
my_vsnprintf[5.009004]|n
need_utf8
newANONATTRSUB[5.006000]
newANONHASH
newANONLIST
newANONSUB
newASSIGNOP
newATTRSUB_x
newATTRSUB[5.006000]
newAVREF
newAV
newBINOP
newCONDOP
newCONSTSUB_flags[5.015006]
newCONSTSUB[5.004050]|p
newCVREF
newDEFSVOP[5.021006]
newFORM
newFOROP[5.013007]
newGIVENOP[5.009003]
newGIVWHENOP
newGP
newGVREF
newGVOP
newHVREF
newHVhv[5.005000]
newHV
newIO
newLISTOP
newLOGOP
newLOOPEX
newLOOPOP
newMETHOP_internal
newMETHOP_named
newMETHOP
newMYSUB
newNULLLIST
newOP
newPADNAMELIST
newPADNAMEouter
newPADNAMEpvn
newPADOP
newPMOP
newPROG
newPVOP
newRANGE
newRV_inc
newRV_noinc
newRV
newSLICEOP
newSTATEOP
newSTUB
newSUB
newSVOP
newSVREF
newSV_type
newSVavdefelem
newSVhek
newSViv
newSVnv
newSVpadname
newSVp_v_share
newSVp_vf_nocontext
newSVp_vf
newSVp_vf_flags
newSVpvn_flags
newSVpvn_share
newSVpvn_utf8
newSVpvn
newSVpvs_flags
newSVpvs_share
newSVpvs
newSVpvr
newSVrv
newSVsv
newSVuv
newSV
newUNOP_AUX
reghop4
reghopmaybe3
reginclass
reginitcolors[5.006000]
reginsert
regmatch
regnext[5.005000]
regnode_guts
regpiece
regprop
regrepeat
regtail_study
regtail
regtry
reg
repeatcpy
report_evil_fh
report_redefined_cv
report_uninit
report_wrongway_fh
require_pv[5.006000]
require_tie_mod
restore_magic
minstr
rpeep
rsignal_restore
rsignal_save
rsignal_state[5.004000]
rsignal[5.004000]
run_body
run_user_filter
runops_debug[5.005000]
runops_standard[5.005000]
rv2cv_op_cv[5.013006]
rvpv_dup
rxres_free
rxres_restore
rxres_save
safesyscalloc[5.006000]
safesysfree[5.006000]
safesysmalloc[5.006000]
safesysrealloc[5.006000]
same_dirent
save_116[5.004000]
save_132
save_18[5.006000]
save_adelete[5.011000]
save_aelem_flags[5.011000]
sv_cmpLocaleFlags[5.013006]
sv_cmpLocale[5.004000]
sv_cmp[]
sv_collxfrmFlags[5.013006]
sv_collxfrm[]
sv_copypvFlags[5.017002]
sv_copypv_nomg[5.017002]
sv_copypv[]
sv_dec_nomg[5.013002]
sv_dec[]
sv_del_backref[]
sv_derived_from_pvn[5.015004]
sv_derived_from_pv[5.015004]
sv_derived_from_svn[5.015004]
sv_derived_from[5.004000]
sv_destroyable[5.010000]
sv_display[]
sv_does_pvn[5.015004]
sv_does_pv[5.015004]
sv_does_svn[5.015004]
sv_does[5.009004]
sv_dump[]
sv_dup_common[]
sv_dup_inc_multiple[]
sv_dup_inc[]
sv_dup[]
sv_eqFlags[5.013006]
sv_eq[]
sv_exp_grow[]
sv_force_normalFlags[5.007001]
sv_force_normal[5.006000]
sv_free2[]
sv_free_arenas[]
sv_free[]
sv_get_backrefs[5.021008]
sv_gets[5.003070]
sv_grow[]
sv_i_nncmp[]
sv_inc_nomg[5.013002]
sv_inc[]
sv_insert_flags[5.010001]
sv_insert[]
sv_isa[]
sv_isobject[]
sv_iv[5.005000]
sv_kill_backrefs[]
sv_len_utf8_nomg[]
sv_len_utf8[5.006000]
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn_flags||5.017002|
sv_vcatpvfn|5.004000|
sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn|5.004000|
sv_vsetpvf|5.006000|5.004000|p
svtype||
swallow_bom||
swash_fetch|5.007002|
swash_init|5.006000|
swash_scan_list_line||
swatch_get||
sync_locale|5.021004|
sys_init3|5.010000|n
sys_init|5.010000|n
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
sys_term|5.010000|n
taint_env||
taint_proper||
tied_method||v
tmps_grow_p||
toFOLD_utf8|5.019001|
toFOLD_uvchr|5.023009|
toFOLD|5.019001|
toLOWER_L1|5.019001|
toLOWER_LC|5.004000|
toLOWER_utf8|5.015007|
toLOWER_uvchr|5.023009|
toLOWER||
toTITLE_utf8|5.015007|
toTITLE_uvchr|5.023009|
toTITLE|5.019001|
toUPPER_utf8|5.015007|
toUPPER_uvchr|5.023009|
toUPPER||
to_byte_substr||
to_lower_latin1||n
to_uni_fold|5.007003|
to_uni_lower_Lc|5.006000|
to_uni_lower|5.007003|
to_uni_title_Lc|5.006000|
to_uni_title|5.007003|
to_uni_upper_Lc|5.006000|
to_uni_upper|5.007003|
to_utf8_case|5.007003|
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23689


$define = [$1, $2] if m{^\s*#s*define\s+\(\w+(?:\[\^\]\]*))\s*\+\(\w+\ moderators\(\w+\))\s+.*};

if ($function) {
  if (/^}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  } else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP_\(my_\((\w+)\))};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\w+)+\s+\+\s*$};
$replace{$2} = $1 if $replace and m{^\s*#s*define\s+(\w+(?:\[\^\]\]*))\s*\+\(\w+\)\s*$};
$replace{$2} = $1 if m{^\s*#s*define\s+(\w+)(?:\[\^\]\]*)\s*\+\(\w+\)\s*\+\s*$};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace\s+(\w+) with \(\w+\)\s*\+\s*$};

if (m{^\s*$rccs\s+\(\w+\s*\(\w+\s*\)\s*\)\s+\+\s*\+\(\w+\s*\(\w+\s*\)\s*\)\s+\s*$}) {  # need dependency
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^\s*$rccs\s+defined\(\_GLOBAL\)\s*\*\s*$};

for (values %depends) {
  my %s;
 )$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{‘api-info’}) {
  my $f;
  $count = 0;
  my $match = $opt{‘api-info’} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{‘api-info’}\E\$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    if ($match =~ /$f/) {
      my $depends = sub {
        return 1 if defined($f);
        return 0 if exists $API{$f} && exists $depends{$f};
        return 0;
      };

      push @{$depends{$f}}, @n if @n;
    }
  }
}
next unless $f =~ /$match/;
print "\n=== $f ===\n\\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
  my $base = format_version($API{$f}{base} || $API{$f}{todo});
  print "Supported at least starting from perl-$base.\n";
  $info++;
}
if ($API{$f}{provided}) {
  my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
  print "Support by $ppport provided back to perl-$todo.\n";
  print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
  print "Depends on: ", join(’,’ , @$depends{$f}), ",.\n" if exists $depends{$f};
  print "\n\n\nWARNING:\\n$warnings{$f}" if exists $warnings{$f};
  $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching \'$opt{'api-info'}\'.\n";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? ' ['.join(', ', @flags).'] : "';
    print "$f$flags\n";
  }
  exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {

if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23692


next;
}

info("Scanning $filename ... ");

my $c = do { local $/; <IN> }
; close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
  ( ^\$HS*\$HS*include\b[^\r\n]+\b(?:\$QSpport\b|SUB\b)[^\r\n]*
  | ^\$HS*\$HS*\$:(?:define|elif|if(?:def)?)\b[^\r\n]*
  | ( ^\$HS*[^\r\n]*
    | ^[^\r\n]*
    | "[^"\\]*(?:\\."[^"\\]*)*
    | '[^'\\]*(?:\\.'[^'\\]*)*
    | / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)*) / | //[^\r\n]*
  )
} { defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = @{$ccom};
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$HS*\$HS*include[^\r\n]+\b\$QSpport\b\b[^\r\n]*
  | ^\$HS*\$:(?:define|elif|if(?:def)?)\b[^\r\n]*
  | ( ^\$HS[^\r\n]*
    | ^[^\r\n]*
    | "[^"\\]*(?:\\."[^"\\]*)*
    | '[^'\\]*(?:\\.'[^'\\]*)*
    | / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)*) / | //[^\r\n]*
  )
} { defined $2 and push @ccom, $2;
    defined $1 ? "$ccs$#ccom$cce" }mgsex;

$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$HS*\$HS*include[^\r\n]+\b\$QSpport\b\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ ~/\b?Perl\b/ ?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\$Perl\b/m;
  }
  if (exists $API{$func}{provided}) {
    $file{uses_provided}{$func}++;
    if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
      $file{uses}{$func}++;
      my @deps = rec_depend($func);
      if (@deps) {
        $file{uses_deps}{$func} = @{$deps};
        for (@deps) {
          $file{uses}{'$_'} = 0 unless exists $file{uses}{'$_'};
        }
      }
      for ($func, @deps) {
        $file{needs}{'$_'} = 'static' if exists $need{'$_'};
      }
    }
  }
}
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23694


my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func} {varargs}) {
        unless ($API{$func} {nothxarg}) {
            my $changes = ($c =~ s{\b(Perl_$func\$*?)(?!aTHX_?)([^\$]*)})
                { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\$*?\(.*aTHX_?\)?\$*}
                {$func$1(}g);
        }
    } else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\$*?\(.*aTHX_?\)?\$*}
            {$func$1(}g);
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses} {$func}) {
            if (exists $file{uses_deps} {$func}) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps} {$func}}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            print "*** WARNING: Uses $func, which may not be portable below perl ",
                format_version($API{$func} {todo}), ", even with \$ppport\n";
            $warnings++;
        }
    }
}
for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files @ {$global{needs}{$func}} need $func, adding global request");
            } else {

    Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23696
diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++; 
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
    || ($c =~ s/^($HS*#$HS*include.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
    || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ";
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");
if ($file{changes}) {
if (exists $opt{copy}) {
my $newfile = "$filename$opt{copy}";
if (-e $newfile) {
error("'$newfile' already exists, refusing to write copy of '$filename'");
}
else {
local *F;
if (open F, ">$newfile") {
info("Writing copy of '$filename' with changes to '$newfile'");
print F $c;
close F;
}
else {
error("Cannot open '$newfile' for writing: $!");
}
}
}
elsif (exists $opt{patch} || $opt{changes}) {
if (exists $opt{patch}) {
unless ($patch_opened) {
if (open PATCH, ">$opt{patch}") {
$patch_opened = 1;
}
else {
error("Cannot open '$opt{patch}' for writing: $!");
delete $opt{patch};
$opt{changes} = 1;
goto fallback;
}
}
mydiff(\*PATCH, $filename, $c);
}
else {
fallback:
info("Suggested changes:");
mydiff(\*STDOUT, $filename, $c);
}
}
else {
my $s = $file{changes} == 1 ? '' : 's';
info("$file{changes} potentially required change$s detected");
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23698


else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
    eval "use @_; return $@ eq "
}

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
my($prog, $file, $str) = @_; 
my $tmp = 'dppptemp';
my $suf = 'aaa';
my $diff = '';
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/Q$tmpE/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }
    unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen ||= {}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;

    if ($ver =~ /^\d+\.\d+\.\d+$/) {

return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]+$/) {
    die "cannot parse version '$ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\d{3}/;

$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver\n";
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver\n";
        }
        $s /= 10;

        $ver = sprintf "%.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "_.%02d", $s;
    }

    return $ver;
}

return sprintf "%.%.%.d", $r, $v, $s;
sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;

sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func
", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
        my $hint = $hints{$func};
        $hint =~ s/^/   /mg;
        print "   --- hint for $func ---\n", $hint;
    }
    $rv;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)(?=-*)=*=*ms;
    my %M = ( 'I' => '*' );
    
}
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' )

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23703


open OUT, ">$0" or die "cannot strip $0: $!
; print OUT "$pl$c
; exit 0;
}

__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

Storable 3.05c
  Copyright (c) 1995-2000, Raphael Manfredi
  Copyright (c) 2001-2004, Larry Wall
  Copyright (c) 2016,2017 cPanel Inc

________________________________________________________________________

This program is free software; you can redistribute it and/or modify
it under the same terms as Perl 5 itself.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
Perl 5 License schemes for more details.
________________________________________________________________________

+=======================================================================
| Storable is distributed as a module, but is also part of the official
| Perl core distribution, as of perl 5.8.
| Maintenance is partially done by the perl5-porters, and for cperl by cPanel.
| We thank Raphael Manfredi for providing us with this very useful module.
+=======================================================================

The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how
complex and circular it is, provided it contains only SCALAR, ARRAY,
HASH (possibly tied) and references (possibly blessed) to those items.
At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.

To compile this extension, run:

perl Makefile.PL [PERL_SRC=...where you put perl sources...]  
make  
make install

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by cperl, https://github.com/rurban/Storable/  
Note that p5p still ships an old broken version, without stack overflow protection and large object support. As long as you don't store overlarge objects, they are compatible.

Please e-mail us with problems, bug fixes, comments and complaints, although if you have complements you should send them to Raphael. Please don't e-mail Raphael with problems, as he no longer works on Storable, and your message will be delayed while he forwards it to us.

------------------------------------------------------------------------
Thanks to (in chronological order):

Jarkko Hietaniemi <jhi@iki.fi>
Ulrich Pfeifer <pfeifer@charly.informatik.uni-dortmund.de>
Benjamin A. Holzman <bholzman@earthlink.net>
Andrew Ford <A.Ford@ford-mason.co.uk>
Gisle Aas <gisle@aas.no>
Jeff Gresham <gresham_jeffrey@jpmorgan.com>
Murray Nesbitt <murray@activestate.com>
Albert N. Micheev <Albert.N.Micheev@f80.n5049.z2.fidonet.org>
Marc Lehmann <pcg@opengroup.org>
Justin Banks <justinb@wamnet.com>
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)
Todd Rinaldo <toddr@cpanel.net> and JD Lightsey <jd@cpanel.net>
for optional disabling tie and bless for increased security.
Reini Urban <rurban@cpanel.net> for the 3.0x >2G support and rewrite
JD Lightsey <jd@cpanel.net>

for their contributions.

A Japanese translation of this man page is available at the Japanized Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

------------------------------------------------------------------------

The perl5-porters would like to thank

    Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped bring you this Storable release:

    Abhijit Menon-Sen <ams@wiw.org>
    Andreas J. Koenig <andreas.koenig@anima.de>
    Archer Sully <archer@meer.net>
    Craig A. Berry <craig.berry@psinetcs.com>
    Dan Kogai <dankogai@dan.co.jp>
    Doug MacEachern <dougm@covalent.net>
    Gurusamy Sarathy <gsar@ActiveState.com>
    H.Merijn Brand <h.m.brand@xs4all.nl>
    Jarkko Hietaniemi <jhi@iki.fi>
    Mark Bixby
    Michael Stevens <michael@etla.org>
    Mike Guy <mjtg@cam.ac.uk>
    Nicholas Clark <nick@unfortu.net>
    Peter J. Farley III <pjfarley@banet.net>
    Peter Prymmer <pvhp@forte.com>
    Philip Newton <pne@cpan.org>
    Raphael Manfredi <Raphael_Manfredi@pobox.com>
    Robin Barker <rmb1@cise.npl.co.uk>
    Radu Greab <radu@netsoft.ro>
    Tim Bunce <Tim.Bunce@pobox.com>
    VMSperlers
    Yitzchak Scott-Thoennes <sthoenna@efn.org>

Found in path(s):

No license file was found, but licenses were detected in source scan.

---

abstract: 'persistence for Perl data structures'
author:
- 'Perl 5 Porters'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Storable
no_index:
directory:
  - t
  - inc
provides:
  Storable:
    file: __Storable__.pm
    version: '3.11'
requires:
  XSLoader: '0'
resources:
  bugtracker: http://rt.perl.org/perlbug/
  version: '3.11'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1154957947_1618910848.21/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-Z0gadf7l/perl-Storable.spec
No license file was found, but licenses were detected in source scan.

# (C) Copyright 1997, Universitat Dortmund, all rights reserved.

Found in path(s):
* /opt/cola/permits/1154957947_1618910848.21/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-Z0gadf7l/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-ye52jB7o/Storable-3.11/t/forgive.t
1.377.1 Available under license:
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaT\TeX{} input
format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.
You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.
You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements."

@item COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.
You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION
You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Document.
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is `eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
```
If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with @dots{} Texts." line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
The files in this directory provide example uses of GNU M4. The following copyright notice applies to each of these description files.

Copyright (C) 2006, 2010-2012 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation gives unlimited permission to copy and/or distribute it, with or without modifications, as long as this notice is preserved.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium.
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.
Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version”.

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.
THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<!-- Example notice -->

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.378 nspr 4.25.0 2.el8_2
1.378.1 Available under license:
Mozilla Public License Version 2.0
==================================
1. Definitions
-----------
1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
   in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
   version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered
Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form" means the form of the work preferred for making modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.
2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software;

or

(b) for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"      *
*  basis, without warranty of any kind, either expressed, implied, or *
*  statutory, including, without limitation, warranties that the      *
*  Covered Software is free of defects, merchantable, fit for a       *
*  particular purpose or non-infringing. The entire risk as to the    *
*  quality and performance of the Covered Software is with You.       *
*  Should any Covered Software prove defective in any respect, You    *
*  (not any Contributor) assume the cost of any necessary servicing, *
*  repair, or correction. This disclaimer of warranty constitutes an *
*  essential part of this License. No use of any Covered Software is *
*  authorized under this License except under this disclaimer.        *
*                                                                      *
************************************************************************
************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any          *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of *
*  goodwill, work stoppage, computer failure or malfunction, or any   *
*  and all other commercial damages or losses, even if such party       *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party’s negligence to the      *
*
8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------------------------

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
-------------------------------------------------------------

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.
Copyright 2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

1.379 libxml 2.9.7-9.el8_4.2
1.379.1 Available under license :

Except where otherwise noted in the source code (e.g. the files hash.c,
list.c and the trio files, which are covered by a similar licence but
with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.380 pkgconf 1.4.2 1.el8
1.380.1 Available under license :
pkgconf authors (see AUTHORS file in source directory).

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

This software is provided 'as is' and without any warranty, express or implied. In no event shall the authors be liable for any damages arising from the use of this software.

1.381 libxcursor 1.1.15 3.el8
1.381.1 Available under license :
Copyright 2002 Keith Packard

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Keith Packard not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Keith Packard makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.
KEITH PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL KEITH PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.382 rpm 4.14.3-14.el8_4

1.382.1 Available under license:
RPM is covered under two separate licenses.

The entire code base may be distributed under the terms of the GNU General Public License (GPL), which appears immediately below. Alternatively, all of the source code in the lib and rpmino subdirectories of the RPM source code distribution as well as any code derived from that code may instead be distributed under the GNU Library General Public License (LGPL), at the choice of the distributor. The complete text of the LGPL appears at the bottom of this file.

This alternative is provided to enable applications to be linked against the RPM library (commonly called librpm) without forcing such applications to be distributed under the GPL.

Any questions regarding the licensing of RPM should be addressed to rpm-maint@lists.rpm.org

---------------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term “modification”.) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

---------------------------------------------------------------------------

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.383 date 3.1.1
1.383.1 Available under license:
The MIT License (MIT)

Copyright (c) 2015 Jens Segers

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.384 xz 5.2.4 3.el8
1.384.1 Available under license :

XZ Utils Licensing
==================

Different licenses apply to different files in this package. Here
is a rough summary of which licenses apply to which parts of this
package (but check the individual files to be sure!):

- liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public
domain unless GNU getopt_long had to be compiled and linked
in from the lib directory. The getopt_long code is under
GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been
adapted from gzip. These scripts and their documentation are
under GNU GPLv2+.

- All the documentation in the doc directory and most of the
XZ Utils specific documentation files in other directories
are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that
are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
in the binaries being built.
- Test files and test code in the tests directory, and debugging utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files that are under various free software licenses.

You can do whatever you want with the files that have been put into the public domain. If you find public domain legally problematic, take the previous sentence as a license grant. If you still find the lack of copyright legally problematic, you have too many lawyers.

As usual, this software is provided "as is", without any warranty.

If you copy significant amounts of public domain code from XZ Utils into your project, acknowledging this somewhere in your software is polite (especially if it is proprietary, non-free software), but naturally it is not legally required. Here is an example of a good notice to put into "about box" or into documentation:

This software includes code from XZ Utils <https://tukaani.org/xz/>.

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code pieces that are copyrighted. Thus, it is possible that e.g. liblzma binary wouldn't actually be in the public domain in its entirety even though it contains no copyrighted code from the XZ Utils source package.

If you have questions, don't hesitate to ask the author(s) for more information.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERSMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
   it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
   released under this License and any conditions added under section
   7. This requirement modifies the requirement in section 4 to
   "keep intact all notices".

c) You must license the entire work, as a whole, under this
   License to anyone who comes into possession of a copy. This
   License will therefore apply, along with any applicable section 7
   additional terms, to the whole of the work, and all its parts,
   regardless of how they are packaged. This License gives no
   permission to license the work in any other way, but it does not
   invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
   Appropriate Legal Notices; however, if the Program has interactive
   interfaces that do not display Appropriate Legal Notices, your
   work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.


You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
1.385.1 Available under license:

Redistribution terms

Automated Testing Framework

===========================================================================

License

*******

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright 2011, 2012 Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors
may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Relicensed code
***************

The following code snippets have been taken from other projects. Even though they were not originally licensed under the terms above, the original authors have agreed to relicense their work so that this project can be distributed under a single license. This section is put here just to clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
# Copyright (c) 2004-2017 by Internet Systems Consortium, Inc. ("ISC")
# Copyright (c) 1995-2003 by Internet Software Consortium
#
# Permission to use, copy, modify, and distribute this software for any
# purpose with or without fee is hereby granted, provided that the above
# copyright notice and this permission notice appear in all copies.
#
# THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
# WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
# ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
#
# Internet Systems Consortium, Inc.
# 950 Charter Street
# Redwood City, CA 94063
# <info@isc.org>
# https://www.isc.org/

See the specific source files for any additional copyright or
license statements.

<!-- $Id$ -->
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (C) 2004-2017 Internet Systems Consortium, Inc. ("ISC")
Copyright (C) 1996-2003 Internet Software Consortium.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Portions of this code release fall under one or more of the following Copyright notices. Please see individual source files for details.

For binary releases also see: OpenSSL-LICENSE.

Copyright (C) 1996-2001 Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-------------------------------------------------------------------
Copyright (C) 1995-2000 by Network Associates, Inc.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------------------------------------

Copyright (C) 2002 Stichting NL.net, Netherlands, stichting@nlnet.nl.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND STICHTING NLNET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL STICHTING NLNET BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ROB BUTLER DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ROB BUTLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 1987, 1990, 1993, 1994
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) The Internet Society 2005. This version of this module is part of RFC 4178; see the RFC itself for full legal notices.

(The above copyright notice is per RFC 3978 5.6 (a), q.v.)

Copyright (c) 2004 Masarykova universita
(Masaryk University, Brno, Czech Republic)
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------

Copyright (c) 1997 - 2003 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23790
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------------------------

Copyright (c) 1998 Doug Rabson
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------------------------

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided
with the distribution.

* Neither the name of Rice University (RICE) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is" basis, without any representations or warranties of any kind, express or implied including, but not limited to, representations or warranties of non-infringement, merchantability or fitness for a particular purpose. In no event shall RICE or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

----------------------------------------------------------------------------

Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------------------------------------

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

--------------------------------------------------------------------------------

Copyright (c) 1998 Doug Rabson.
Copyright (c) 2001 Jake Burkholder.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

--------------------------------------------------------------------------------
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

----------------------------------------------------------------------------

Copyright (c) 1999-2000 by Nortel Networks Corporation

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NORTEL NETWORKS DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NORTEL NETWORKS
BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

----------------------------------------------------------------------------

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.
By using this file, you agree to the terms and conditions set forth below.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different license is obtained from Japan Network Information Center ("JPNIC"), a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda, Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any modified or derived work) in source and/or binary forms is permitted under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice, this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language:
"Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

-----------------------------------------------------------------------------

Copyright (C) 2004 Nominet, Ltd.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND NOMINET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------------------------------------------

Portions Copyright RSA Security Inc.

License to copy and use this software is granted provided that it is identified as "RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing this software.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing the derived work.

RSA Security Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

-----------------------------------------------------------------------------------

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------------------------------------------

Copyright (c) 2000-2001 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

3. All advertising materials mentioning features or use of this
software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
endorse or promote products derived from this software without
prior written permission. For written permission, please contact
licensing@OpenSSL.org.

5. Products derived from this software may not be called "OpenSSL"
nor may "OpenSSL" appear in their names without prior written
permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following
acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT \"AS IS\" AND ANY
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------

Copyright (c) 1995, 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2005 - 2008, Holger Zuleger HZnet. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Holger Zuleger HZnet nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth below.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different license is obtained from Japan Network Information Center ("JPNIC"), a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda, Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any modified or derived work) in source and/or binary forms is permitted under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice, this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language: "Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
No license file was found, but licenses were detected in source scan.

From: Petr Písa <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>

---
Changes | 14 ++++++
Dumper.pm | 47 +++++++++++++--
Dumper.xs | 167 +++++++++++++++++++++++++++++++++++++++++++++---------------
t/bugs.t | 37 +++++++
t/deparse.t | 22 ++++
5 files changed, 207 insertions(+), 80 deletions(-)

diff --git a/Changes b/Changes
index f9ea53f..a5430d5 100644
--- a/Changes
+++ b/Changes
@@ -6,6 +6,20 @@ Changes - public release history for Data::Dumper

=over 8

+=item 2.166 (Nov 29 2016)
+
+Reduce memory usage by not importing from Carp
+Reduce memory usage by removing unused overload require.
+
+=item 2.165 (Nov 20 2016)
+
+Remove impediment to compiling under C++11.
+
+=item 2.164 (Nov 12 2016)
+
+The XS implementation now handles the C<Deparse> option, so using it no
+longer forces use of the pure-Perl version.
+
=item 2.161 (Jul 11 2016)

Perl 5.12 fix/workaround until fixed PPPort release.
diff --git a/Dumper.pm b/Dumper.pm
package Data::Dumper;
BEGIN {
    $VERSION = '2.167'; # Don't forget to set version and release
    $#S = 1;

    use 5.006_001;
    require Exporter;
    -require overload;

    -use Carp;
    +use Carp ();

    BEGIN {
        @ISA = qw(Exporter);
        -@ @ -70,7 +69,7 @@ $Maxrecurse = 1000
        unless defined $Maxrecurse;
        sub new {
            my($c, $v, $n) = @_;
            -croak "Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
            +Carp::croak("Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])")
            unless (defined($v) && (ref($v) eq 'ARRAY'));
            $n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));

            -@ @ -170,11 +169,11 @@ sub Seen {
            $s->{seen}{$id} = [$k, $v];
            }
            else {
                -carp "Only refs supported, ignoring non-ref item \$\$k";
                +Carp::carp("Only refs supported, ignoring non-ref item \$\$k");
                }
            } else {
                -carp "Value of ref must be defined; ignoring undefined item \$\$k";
                +Carp::carp("Value of ref must be defined; ignoring undefined item \$\$k");
                }
            return $s;
            }
else {
    croak "Argument to Values, if provided, must be array ref";
} } 

else { 
@@ -214,7 +213,7 @@ sub Names { 
    return $s;
 }
 } 
-
+carp::croak("Argument to Names, if provided, must be array ref"); 
} } 
-
+croak "Argument to Names, if provided, must be array ref";
+
+Carp::croak("Argument to Names, if provided, must be array ref"); 
}
}

else { 
@@ -227,7 +226,6 @@ sub DESTROY {} 

sub Dump { 
return &Dumpxs 
} 

-
+carp::croak("Argument to Names, if provided, must be array ref"); 
} } 
-
+croak "Argument to Names, if provided, must be array ref";
+
+Carp::croak("Argument to Names, if provided, must be array ref"); 
}
}

else { 
@@ -439,7 +437,7 @@ sub _dump { 
    if (ref($s->sortkeys) eq 'CODE') { 
        $keys = $s->sortkeys($val); 
        unless (ref($keys) eq 'ARRAY') { 
-
+carp "Sortkeys subroutine did not return ARRAYREF";
+
+Carp::carp("Sortkeys subroutine did not return ARRAYREF"); 
        $keys = []; 
    } 
} 

@@ -487,16 +485,16 @@ sub _dump { 
        require B::Deparse; 
        my $sub = 'sub ' . (B::Deparse->new)->coderef2text($val); 
        $pad = $s->sep . $s->pad . $s->apad . $s->xpad x ($s->level - 1); 
-        $sub =~ s/
/$pad/gse;
+        $sub =~ s/
/$pad/gs;
        $out .= $sub;
    } 
} 
-
+carp "Encountered CODE ref, using dummy placeholder" if $s->purity;
+
+Carp::carp("Encountered CODE ref, using dummy placeholder") if $s->purity;
} } 
-
+croak "Can't handle 'Srealttype' type";
Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
-will be used to get the source of the code reference. Using this option
-will force using the Perl implementation of the dumper, since the fast
-XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.
-
-SCALAR objects have the weirdest looking C<bless> workaround.

@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.

Gurusamy Sarathy        gsar@activestate.com

-Copyright (c) 1996-2016 Gurusamy Sarathy. All rights reserved.
+COPYRIGHT (C) 1996-2017 Gurusamy Sarathy. All rights reserved.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 VERSION
diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
    I32 useqq;
    int use_sparse_seen_hash;
    int trailingcomma;
+   int deparse;
 } Style;

 static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
      UV k;

      if (do_utf8
-     && ! isASCII(*(U8*)s))
+     && ! isASCII(*s))
          /* Exclude non-ASCII low ordinal controls. This should be
           * optimized out by the compiler on ASCII platforms; if not
           * could wrap it in a #ifdef EBCDIC, but better to avoid
@@ -387,11 +388,11 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
               increment = (k == 0 && *s != '\0') ? UTF8SKIP(s);

 #if PERL_VERSION < 10
-      sprintf(r, "%x{\"\%"UVxf\"}\", k);
+      sprintf(r, "%x{\"\%" UVxf\"}\", k);
      r += strlen(r);
      /* my_sprintf is not supported by ppport.h */
#else
      r = r + my_sprintf(r, "%x{\"\%"UVxf\"}\", k);
+     r = r + my_sprintf(r, "%x{\"\%" UVxf\"}\", k);
#endif
      continue;
    }
@@ -505,6 +506,53 @@ sv_x(pTHX_ SV *sv, const char *str, STRLEN len, I32 n)
         return sv;
    }

+static SV *
+deparsed_output(pTHX_ SV *val)
+{
+    SV *text;
int n;
dSP;

/* This is passed to load_module(), which decrements its ref count and
 * modifies it (so we also can't reuse it below) */
SV *pkg = newSVpvs("B::Deparse");

load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);

SAVETMPS;

PUSHMARK(SP);

mXPUSHs(newSVpvs("B::Deparse"));

PUTBACK;

n = call_method("new", G_SCALAR);

SPAGAIN;

if (n != 1) {
    croak("B::Deparse->new returned %d items, but expected exactly 1", n);
}

PUSHMARK(SP - n);

XPUSHs(val);

PUTBACK;

n = call_method("coderef2text", G_SCALAR);

SPAGAIN;

if (n != 1) {
    croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
}

text = POPs;

SvREFCNT_inc(text); /* the caller will mortalise this */

FREETMPS;

PUTBACK;

return text;

/*
 * This ought to be split into smaller functions. (it is one long function since
 * it exactly parallels the perl version, which was one long thing for
 */

@@ -565,14 +613,14 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23805  

---
i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
SPAGAIN;
if (SvTRUE(ERRSV))
-warn("WARNING(Freezer method call failed): %"SVf", ERRSV);
+warn("WARNING(Freezer method call failed): %" SVf, ERRSV);
    PUTBACK; FREETMPS; LEAVE;
}
ival = SvRV(val);
realtpe = SvTYPE(ival);
#ifdef DD_USE_OLD_ID_FORMAT
    idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(ival));
#else
    id_buffer = PTR2UV(ival);
idlen = sizeof(id_buffer);
#endif
@@ -630,7 +678,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    *seenhv,
#ifdef DD_USE_OLD_ID_FORMAT
    warn("ref name not found for %s", id);
#else
    - warn("ref name not found for 0x"UVxf, PTR2UV(ival));
+    warn("ref name not found for 0x" UVxf, PTR2UV(ival));
#endif
    return 0;
}
@@ -848,10 +896,10 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    *seenhv,
ilen = inamelen;
    sv_setiv(ixsv, ix);
#ifdef PERL_VERSION < 10
    - (void) sprintf(iname+ilen, "%"IVdf, (IV)ix);
+    (void) sprintf(iname+ilen, "%" IVdf, (IV)ix);
#else
    ilen = strlen(iname);
#endif
iname[ilen++] = ']; iname[ilen] = '0';
@@ -886,7 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    *seenhv,
    SV *sname;
    HE *entry = NULL;
    char *key;
-    STRLEN klen;
    SV *hval;
    AV *keys = NULL;

if (do_utf8 || style->useqq) {
    nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
    nkey = SvPVX(retval) + ocur;
} else {
    if (style->quotekeys || key_needs_quote(key,keylen)) {
        if (do_utf8 || style->useqq) {
            STRLEN ocur = SvCUR(retval);
            - nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
            + klen = nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
            nkey = SvPVX(retval) + ocur;
        }
        else {
            ...
    }
}
else if (realtype == SVt_PVCV) {
    - sv_catpvs(retval, "sub { "DUMMY" }");
    - if (style->purity)
        -warn("Encountered CODE ref, using dummy placeholder");
    + if (style->deparse) {
        + SV *deparsed = sv_2mortal(deparsed_output(aTHX_ val));
        + SV *fullpad = sv_2mortal(newSVsv(style->sep));
        + const char *p;
        + STRLEN plen;
        + 132 i;
        +
        + sv_catsv(fullpad, style->pad);
        + sv_catsv(fullpad, apad);
        + for (i = 0; i < level; i++) {
            + sv_catsv(fullpad, style->xpad);
        }
        +
        + sv_catpvs(retval, "sub ");
        + p = SvPV(deparsed, plen);
        + while (plen > 0) {
            + const char *nl = (const char *) memchr(p, '\n', plen);
            + if (!nl) {
                + sv_catpvn(retval, p, plen);
                + break;
            }
        }
+            else {
+                sv_catpvs(retval, "sub { "DUMMY" }" );
+                if (style->purity)
+                    warn("Encountered CODE ref, using dummy placeholder");
+            }
+        }
+    }
+    else {
+        warn("cannot handle ref type %d", (int)realtype);
+        return;
+    }
+
+    #ifdef DD_USE_OLD_ID_FORMAT
+    - idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(val));
+    + idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(val));
+    #else
+    id_buffer = PTR2UV(val);
+    idlen = sizeof(id_buffer);
+    @ @ -1184.9 +1264.9 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,

    if (namelen) {
        #ifndef DD_USE_OLD_ID_FORMAT
        - idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(val));
        + idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(val));
        #else
        id_buffer = PTR2UV(val);
        idlen = sizeof(id_buffer);
        @ @ -1144.7 +1224.7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,

        if (name) {
            if (DD_is_integer(val)) {
                STRLEN len;
                if (SvIsUV(val))
                    len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%d", SvIV(val));
                else
                    len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%d", SvIV(val));
                if (SvPOK(val)) {
                    /* Need to check to see if this is a string such as " 0".
                     * I'm assuming from sprintf isn't going to clash with utf8. */
                    @ @ -1412.53 +1492.55 @@ Data_DumperDumpxs(href, ...)
                    && (hv = (HV*)SvRV((SV*)href))
                    && SvTYPE(hv) == SVt_PVHV)

                    -if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
                    +if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp))
                    seenhv = (HV*)SvRV(*svp);
else
    style.use_sparse_seen_hash = 1;
-if ((svp = hv_fetch(hv, "noseen", 6, FALSE)))
+if ((svp = hv_fetchs(hv, "noseen", FALSE)))
    style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
-if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "todump", FALSE)) && SvROK(*svp))
    todumpav = (AV*)SvRV(*svp);
-if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "names", FALSE)) && SvROK(*svp))
    namesav = (AV*)SvRV(*svp);
-if ((svp = hv_fetch(hv, "indent", 6, FALSE))
+if ((svp = hv_fetchs(hv, "indent", FALSE)))
    style.indent = SvIV(*svp);
-if ((svp = hv_fetch(hv, "purity", 6, FALSE)))
+if ((svp = hv_fetchs(hv, "purity", FALSE)))
    style.purity = SvIV(*svp);
-if ((svp = hv_fetch(hv, "terse", 5, FALSE))
+if ((svp = hv_fetchs(hv, "terse", FALSE))
    terse = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "useqq", 5, FALSE))
+if ((svp = hv_fetchs(hv, "useqq", FALSE))
    style.useqq = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "pad", 3, FALSE))
+if ((svp = hv_fetchs(hv, "pad", FALSE))
    style.pad = *svp;
-if ((svp = hv_fetch(hv, "xpad", 4, FALSE))
+if ((svp = hv_fetchs(hv, "xpad", FALSE))
    style.xpad = *svp;
-if ((svp = hv_fetch(hv, "apad", 4, FALSE))
+if ((svp = hv_fetchs(hv, "apad", FALSE))
    apad = *svp;
-if ((svp = hv_fetch(hv, "sep", 3, FALSE))
+if ((svp = hv_fetchs(hv, "sep", FALSE))
    style.sep = *svp;
-if ((svp = hv_fetch(hv, "pair", 4, FALSE))
+if ((svp = hv_fetchs(hv, "pair", FALSE))
    style.pair = *svp;
-if ((svp = hv_fetch(hv, "varname", 7, FALSE))
+if ((svp = hv_fetchs(hv, "varname", FALSE))
    varname = *svp;
-if ((svp = hv_fetch(hv, "freezer", 7, FALSE))
+if ((svp = hv_fetchs(hv, "freezer", FALSE))
    style.freezer = *svp;
-if ((svp = hv_fetch(hv, "toaster", 7, FALSE))
+if ((svp = hv_fetchs(hv, "toaster", FALSE))
    style.toaster = *svp;
-if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
    style.deepcopy = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
    style.quotekeys = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+    if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
        style.trailingcomma = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
+                if ((svp = hv_fetchs(hv, "deparse", FALSE)))
+                    style.deparse = SvTRUE(*svp);
+if ((svp = hv_fetchs(hv, "bless", FALSE)))
    style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+if ((svp = hv_fetch(hv, "maxdepth", FALSE)))
    style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+if ((svp = hv_fetch(hv, "maxrecurse", FALSE)))
    style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE)))
+    if ((svp = hv_fetchs(hv, "sortkeys", FALSE)))
        SV *sv = *svp;
            if (! SvTRUE(sv))
                style.sortkeys = NULL;
@@ -1525,9 +1607,10 @@ Data_Dumper_Dumpxs(href, ...)
                 }
               else {
               STRLEN nchars;
-               sv_setpvn(name, "$", 1);
+               sv_setpvs(name, "$");
               sv_catsv(name, varname);
-               nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, (IV)(i+1));
+               nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf,
+                               (IV)(i+1));
               sv_catpvn(name, tmpbuf, nchars);
               }
@@ -1575,7 +1658,7 @@ Data_Dumper_Dumpxs(href, ...) sv_catpvs(retval, ";");
                sv_catsv(retval, style.sep);
             }
-              sv_setpvn(valstr, "", 0);
+              SvPVCLEAR(valstr);
                  if (gimme == G_ARRAY) {
                  XPUSHs(sv_2mortal(retval));
                if (i < imax)* not the last time thro ? */
diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
use strict;
-use Test::More tests => 15;
+use Test::More tests => 24;
use Data::Dumper;

{
@@ -144,4 +144,39 @@ SKIP: {
    my $want;
    my $runtime = "runtime";
    my $requires = "requires";
-utf8::upgrade(my $runtime = $runtime);
+utf8::upgrade(my $requires = $requires);
+for my $run ($runtime, $runtime) {
+    for my $req ($requires, $requires) {
+        my $data = { $run => { $req => { foo => "bar" } } };
+        local $Data::Dumper::Useperl = 1;
+        # we want them all the same
+        defined $want or $want = Dumper($data);
+        is(Dumper( $data ), $want, "utf-8 indents");
+        SKIP:
+            { # https://rt.perl.org/Ticket/Display.html?id=128524
+                defined &Data::Dumper::Dumpxs
+                  or skip "No XS available", 1;
+                local $Data::Dumper::Useperl = 0;
+                is(Dumper( $data ), $want, "utf8-indents");
+            }
+        }
+    }
+}
+}
}
+}
+
+# RT#130487 - stack management bug in XS deparse
+SKIP: {
+    skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
+    sub rt130487_args { 0 + @_ }
+    my $code = sub { ];
+    local $Data::Dumper::Useperl = 0;
+    local $Data::Dumper::Deparse = 1;
+    my $got = rt130487_args( Dumper($code) );
+    is($got, 1, "stack management in XS deparse works, rt 130487");
diff --git a/t/deparse.t b/t/deparse.t
index c281fce..cddde8c 100644
--- a/t/deparse.t
+++ b/t/deparse.t
@@ -15,7 +15,7 @@ BEGIN {
    use strict;

    use Data::Dumper;
   -use Test::More tests =>  8;
   +use Test::More tests =>  16;
    use lib qw( ./t/lib  );
    use Testing qw( _dumptostr );

@@ -24,7 +24,9 @@ use Testing qw( _dumptostr );

 note("\$Data::Dumper::Deparse and Deparse()" );

-{
+for my $useperl (0, 1) {
+  local $Data::Dumper::Useperl = $useperl;
+  my ($obj, %dumps, $deparse, $starting);
+  use strict;
+  my $struct = { foo => "bar\nbaz", quux => sub { "fleem" } };
@@ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()" );
    $dumps{ 'objzero' } = _dumptostr($obj);

    is($dumps{ 'noprev' }, $dumps{ 'dddzero' },
- "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent" );
+ "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)" );
    is($dumps{ 'noprev' }, $dumps{ 'objempty' },
- "No previous setting and Deparse() are equivalent" );
+ "No previous setting and Deparse() are equivalent (useperl=$useperl)" );
    is($dumps{ 'noprev' }, $dumps{ 'objzero' },
- "No previous setting and Deparse(0) are equivalent" );
+ "No previous setting and Deparse(0) are equivalent (useperl=$useperl)" );

    local $Data::Dumper::Deparse = 1;
    $obj = Data::Dumper-\>new( [ $struct ] );
@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse and Deparse()" );
    $dumps{ 'objone' } = _dumptostr($obj);

    is($dumps{ 'dddtrue' }, $dumps{ 'objone' },
- "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent" );
+ "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)" );
isn't($dumps{'dddzero'}, $dumps{'dddtrue'},
- "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1");
+ "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)";

like($dumps{'dddzero'},
    qr/quux.*?sub.*?DUMMY/s,
- "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef");
+ "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)";
unlike($dumps{'dddtrue'},
    qr/quux.*?sub.*?DUMMY/s,
- "\$Data::Dumper::Deparse = 1 does not report DUMMY");
+ "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)";
like($dumps{'dddtrue'},
    qr/quux.*?use\sstrict.*?fleem/s,
- "\$Data::Dumper::Deparse = 1 deparses coderef");
+ "\$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)";
}
resources:
MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
bugtracker: http://rt.perl.org/perlbug/
repository: 'git://perl5.git.perl.org/perl.git perl-git'
version: '2.161'

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.31

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

-----------------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus             accept C++ comments

--quiet                  don't output anything except fatal errors
--nodiag                 don't show diagnostics
--nohints                don't show hints
--nochanges              don't suggest changes
--nofilter               don't filter input files

--strip                  strip all script and doc functionality from
                         ppport.h

--list-provided          list provided API
--list-unsupported       list unsupported API
--api-info=name          show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automatically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip
Strip all script and documentation functionality from `ppport.h`. This reduces the size of `ppport.h` dramatically and may be useful if you want to include `ppport.h` in smaller modules without increasing their distribution size too much.

The stripped `ppport.h` will have a `--unstrip` option that allows you to undo the stripping, but only if an appropriate `Devel::PPPort` module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by `ppport.h`. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by `ppport.h` and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching `I<name>`. If `I<name>` is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn’t been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by `ppport.h`.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<script>es in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parse</td>
<td>NEED_PL_parse</td>
<td>NEED_PL_parse_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>mg_findext()</td>
<td>NEED_mg_findext</td>
<td>NEED_mg_findext_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
</tbody>
</table>
my_sprintf()  NEED_my_sprintf  NEED_my_sprintf_GLOBAL
my_strlcat()  NEED_my_strlcat  NEED_my_strlcat_GLOBAL
my_strlcpy()  NEED_my_strlcpy  NEED_my_strlcpy_GLOBAL
newCONSTSUB()  NEED_newCONSTSUB  NEED_newCONSTSUB_GLOBAL
newRV_noinc()  NEED_newRV_noinc  NEED_newRV_noinc_GLOBAL
newSV_type()  NEED_newSV_type  NEED_newSV_type_GLOBAL
newSVpvn_flags()  NEED_newSVpvn_flags  NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()  NEED_newSVpvn_share  NEED_newSVpvn_share_GLOBAL
pv_display()  NEED_pv_display  NEED_pv_display_GLOBAL
pv_escape()  NEED_pv_escape  NEED_pv_escape_GLOBAL
pv_pretty()  NEED_pv_pretty  NEED_pv_pretty_GLOBAL
sv_2pv_flags()  NEED_sv_2pv_flags  NEED_sv_2pv_flags_GLOBAL
sv_2pvbyte()  NEED_sv_2pvbyte  NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()  NEED_sv_catpvf_mg  NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()  NEED_sv_pvn_force_flags  NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()  NEED_sv_setpvf_mg  NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
sv_unmagicext()  NEED_sv_unmagicext  NEED_sv_unmagicext_GLOBAL
vload_module()  NEED_vload_module  NEED_vload_module_GLOBAL
vnewSVpvnf()  NEED_vnewSVpvnf  NEED_vnewSVpvnf_GLOBAL
warner()  NEED_warner  NEED_warner_GLOBAL

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```perl
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```perl
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```perl
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.
If \texttt{F<ppport.h>} was generated using the latest version of \texttt{C<Devel::PPPort>} and is causing failure of this module, please file a bug report here: \texttt{L<https://github.com/mhx/Devel-PPPort/issues/>}

Please include the following information:

\begin{itemize}
  \item[1.] The complete output from running "\texttt{perl -V}"
  \item[2.] This file.
  \item[3.] The name and version of the module you were trying to build.
  \item[4.] A full log of the build that failed.
  \item[5.] Any other information that you think could be relevant.
\end{itemize}

For the latest version of this code, please get the \texttt{C<Devel::PPPort>} module from CPAN.

\section*{COPYRIGHT}

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

\section*{SEE ALSO}

See \texttt{L<Devel::PPPort>}. 
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '\${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 & & $] <= 5.009005 };

my $VERSION = 3.31;

my %opt = (
quiet => 0,
diag  => 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip  => 0,
version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "\[ \t\];"           # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rcce = quotemeta $cce;
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
require Getopt::Long;
Getopt::Long::GetOptions(%opt, qw( 
 help quiet diag! filter! hints! changes! cplusplus strip version 
 patch=s copy=s diff=s compat-version=s 
 list-provided list-unsupported api-info=s 
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n"
;
}

if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: "$opt{'compat-version'}\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^\(\w+\)|\([^|]*\)|\([^|]*\)|\(\w*\)$/
  ? ($1 => { ($2 ? ( base => $2 ) : ()),
           ($3 ? ( todo => $3 ) : ()),
           (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
           (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
           (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())}
    )
  : die "invalid spec: $_" } qw(
ASCII_TO_NEED\|5.007001|n
AvFILLp\|5.004050||p
AvFILL||
BhkDISABLE\|5.021008|
BhkENABLE\|5.021008|
BhkENTRY_set\|5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERLscope\|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV\|5.006000||p
CopFILEGV_set\|5.006000||p
CopFILEGV\|5.006000||p
CopFILE_set\|5.006000||p
CopFILE\|5.006000||p
CopSTASHPV_set\|5.006000||p
CopSTASHPV\|5.006000||p

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23823
PL_laststatval|5.005000||p
PL_lex_state|5.021008||p
PL_lex_stuff|5.021008||p
PL_linestr|5.021008||p
PL_modglobal|5.005000||n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|5.011008||n
PL_opfreehook|5.011000||n
PL_parser|5.009005||p
PL_peepp|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppadd|5.006000||p
PL_rpeepp|5.013005||n
PL_rsfp_filters|5.021008||p
PL_rsfp|5.021008||p
PL_rs|5.011008||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.021008||p
POP_MULTICALL|5.021008|
POPi||n
POPi||n
POPn||n
POPbytes|5.007001||n
POPPx|5.005030||n
POPPp||n
POPs|5.007001||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK||
PUSH_MULTICALL|5.021008|
PUSHi||
PUSHmortal|5.009002||p
SvPVx||
SvPV||
SvREFCNT_dec_NN||5.017007|
SvREFCNT_dec||
SvREFCNT_inc_NN||5.009004||p
SvREFCNT_inc_simple_NN||5.009004||p
SvREFCNT_inc_simple_void_NN||5.009004||p
SvREFCNT_inc_simple_void||5.009004||p
SvREFCNT_inc_void_NN||5.009004||p
SvREFCNT_inc_void||5.009004||p
SvREFCNT_inc||p
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
SvRV_set||5.009003||p
SvRV||
SvRXOK||5.009005|
SvRX||5.009005|
SvSETMAGIC||
SvSHARED_HASH||5.009003||p
SvSHARE||5.007003|
SvSTASH_set||5.009003||p
SvSTASH||
SvSetMagicSV_nosteal||5.004000|
SvSetMagicSV||5.004000|
SvSetSV_nosteal||5.004000|
SvSetSV||
SvTAINTED_off||5.004000|
SvTAINTED_on||5.004000|
SvTAINTED||5.004000|
SvTAINT||
SvTHINKFIRST||
SvTRUE_nomg||5.013006|
SvTRUE||
SvTYPE||
SvUNLOCK||5.007003|
SvUOK||5.007001||5.006000||p
SvUPGRADE||
SvUTF8_off||5.006000|
SvUTF8_on||5.006000|
SvUTF8||5.006000|
SvUVXx||5.004000||p
SvUVX||5.004000||p
SvUV_nomg||5.009001||p
SvUV_set||5.009003||p
SvUVx||5.004000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||p
WARN_VOID|5.006000||p
WIDEST_UTYPE|5.015004||p
XCPT_CATCH|5.009002||p
XCPT_RETHROW|5.009002||p
XCPT_TRY_END|5.009002||p
XCPT_TRY_START|5.009002||p
XPUSHi||
XPUSHmortal|5.009002||p
XPUSHn||
XPUSHp||
XPUSHs||
XPUSHu|5.004000||p
XSPROTO|5.010000||p
XSRETURN_EMPTY||
XSRETURN_IV||
XSRETURN_NO||
XSRETURN_NV||
XSRETURN_PV||
XSRETURN_UNDEF||
XSRETURN_UV|5.008001||p
XSRETURN_YES||
XSRETURN||p
XST_mIV||
XST_mNO||
XST_mNV||
XST_mPV||
XST_mUNDEF||
XST_mUV|5.008001||p
XST_mYES||
XS_APIVERSION_BOOTCHECK|5.021008|
XS_EXTERNAL|5.021008|
XS_INTERNAL|5.021008|
XS_VERSION_BOOTCHECK|5.021008|
XS_VERSION||
XSprePUSH|5.006000||p
XS||
XopDISABLE|5.021008|
XopENABLE|5.021008|
av_create_and_unshift_one||5.009005|
av_delete||5.006000|
av_exists||5.006000|
av_extend_guts||
av_extend||
av_fetch||
av_fill||
av_iter_p||5.011000|
av_len||
av_make||
av_pop||
av_push||
av_reify||
av_shift||
av_store||
av_tindex||5.017009|
av_top_index||5.017009|
av_undef||
av_unshift||
ax]|n
backup_one_SB||
backup_one_WB||
bad_type_gv||
bad_type_pv||
bind_match||
block_end||5.004000|
block_gimme||5.004000|
block_start||5.004000|
blockhook_register||5.013003|
boolSV||5.004000|p
boot_core_PerlIO||
boot_core_UNIVERSAL||
boot_core_mro||
bytes_cmp_utf8||5.013007|
bytes_from_utf8||5.007001|
bytes_to_utf8||5.006001|
call_argv||5.006000|p
call_atexit||5.006000|
call_list||5.004000|
call_method||5.006000|p
call_pv||5.006000|p
call_sv||5.006000|p
caller_cx||5.013005|5.006000|p
calloc||5.007002|n
cando||
cast_i32||5.006000|n
cast_iv||5.006000|n
cast_ulong||5.006000|n
do_execfree
  do_exec
  do_gv_dump[5.006000]
  do_gvgv_dump[5.006000]
  do_hv_dump[5.006000]
  do_ipcctl
  do_ipcget
  do_join
  do_magic_dump[5.006000]
  do_msrerv
  do_mgsnd
  doncmp
  do_oddball
  do_op_dump[5.006000]
  do_open6
  do_open9[5.006000]
  do_open_raw
  do_opena[5.007001]
  do_open[5.003070]
  do_pemop_dump[5.006000]
  do_print
  do_readline
  do_seek
  do_semop
  do_shmio
  do_smartmatch
  do_spawn_nowait
  do_spawn
  do_sprintf
  do_sv_dump[5.006000]
  do_sysseek
  do_tell
  do_trans_complex_utf8
  do_trans_complex
  do_trans_count_utf8
  do_trans_count
  do_trans_simple_utf8
  do_trans_simple
  do_trans
  do_vecget
  do_vecset
  do_vop
  docatch
  doeval
dofile
dofindlabel
doform
doing_taint[5.008001]n
gv_try_downgrade
handle_regex_sets
he_dup
hek_dup
hfree_next_entry
hfreeentries
hsplit
hv_assert
hv_auxinit_internal
hv_auxinit
hv_backreferences_p
hv_clear_placeholders
hv_clear
hv_common_key_len
hv_common
hv_copy_hints_hv
hv_delayfree_ent
hv_delete_common
hv_delete_ent
hv_delete
hv_eiter_p
hv_eiter_set
hv_ename_add
hv_ename_delete
hv_exists_ent
hv_exists
hv_fetch_ent
hv_fetchs
hv_fetch
hv_fill
hv_free_ent_ret
hv_free_ent
hv_iterinit
hv_iterkeysv
hv_iterkey
hv_iternext_flags
hv_iternextsv
hv_iternext
hv_iterval
hv_kill_backrefs
hv_ksplit
hv_magic_check
hv_magic
hv_name_set
hv_notallowed
hv_placeholders_get
hv_placeholders_p
hv_placeholders_set
hv_rand_set|5.018000|
hv_riter_p|5.009003|
hv_riter_set|5.009003|
hv_scalar|5.009001|
hv_store_ent|5.003070|
hv_store_flags|5.008000|
hv_stores|5.009004|
hv_store||
hv_undef_flags||
hv_undef||
ibcmp_locale|5.004000|
ibcmp_utf8|5.007003|
ibcmp||
incline||
incpush_if_exists||
incpush_use_sep||
incpush||
ingroup||
init_argv_symbols||
init_constants||
init_dbargs||
init_debugger||
init_global_struct||
init_i18n10n|5.006000|
init_i18n14n|5.006000|
init_ids||
init_interp||
init_main_stash||
init_perlib||
init_postdump_symbols||
init_predump_symbols||
init_stacks|5.005000|
init_tm|5.007002|
inplace_aassign||
intr||
intro_my|5.004000|
intuit_method||
intuit_more||
invert||
inlist_array||
inlist_clone||
inlist_extend||
inlist_highest||
inlist_is_iterating||
inlist_iterfinish||
inlist_iterinit||
inlist_iternext||
inlist_max||
is_utf8_xdigit
is_utf8_xidcont
is_utf8_xidfirst
isa_lookup
isinfnanv
isinfnan
items
ix
jmaybe
join_exact
keyword_plugin_standard
keyword
leave_common
leave_scope
lex_bufutf8
lex_discard_to
lex_grow_linestr
lex_next_chunk
lex_peak_unichar
lex_read_space
lex_read_to
lex_read_unichar
lex_start
lex_stuff_pvn
lex_stuff_pvs
lex_stuff_pv
lex_stuff_sv
lex_unstuff
listkids
list
load_module_nocontext
load_module
localize
looks_like_bool
looks_like_number
lop
mPUSHi
mPUSHn
mPUSHp
mPUSHs
mPUSHu
mXPUSHi
mXPUSHn
mXPUSHp
mXPUSHs
magic_clear_all_env
magic_cleararylen_p
my_socketpair[5.007003]
my_sprintf[5.009003][pvn
my_stat_flags[]
my_stat[5.021008]
my_strerror[5.021001]
my_strerror[5.007002]
my_strlcpy[5.009004][p
my_strlcpy[5.009004][p
my_unexec[]
my_vsnprintf[5.009004][n
need_utf8[]][n
newANONATTRSUB[5.006000]
newANONHASH[]
newANONLIST[]
newANONSUB[]
newASSIGNOP[]
newATTRSUB_x[]
newATTRSUB[5.006000]
newAVREF[]
newAV[]
newBINOP[]
newCONDOP[]
newCONSTSUB_flags[5.015006]
newCONSTSUB[5.004050][p
newCVREF[]
newDEFSVOP[5.021006]
newFORM[]
newFOROP[5.013007]
newGIVENOP[5.009003]
newGIVWHENOP[]
newGP[]
newGVOP[]
newGVREF[]
newGVgen_flags[5.015004]
newGVgen[]
newHVREF[]
newHVhv[5.005000]
newHV[]
newIO[]
newLISTOP[]
newLOGOP[]
newLOOPEX[]
newLOOPOP[]
newMETHOP_internal[]
newMETHOP_named[5.021005]
newMETHOP[5.021005]
newMYSUB[5.017004]
newNULLLIST[]
padnamelist_free
padnamelist_store
parse_arithexpr
parse_barestmt
parse_block
parse_body
parse_fullexpr
parse_fullstmt
parse gv_stash_name
parse_ident
parse_label
parse_listexpr
parse_lparen_question_flags
parse_stmtseq
parse_subsignature
parse_termexpr
parse_unicode_opts
parser_dup
parser_free_nexttoke_ops
parser_free
path_is_searchable
peep
pending_ident
perl_alloc_using
perl_alloc
perl_clone_using
perl_clone
perl_construct
perl_destroy
perl_free
perl_parse
perl_run
pidgone
pm_description
pmop_dump
pmruntime
pop_scope
populate_ANYOF_from_invlist
populate_isa
pregcomp
pregexec
pregfree2
pregfree
prescan_version
printbuf
printf_nocontext
process_nocontext
process_special_blocks
ptr_hash
ptr_table_clear[5.009005]
ptr_table_fetch[5.009005]
ptr_table_find
ptr_table_free[5.009005]
ptr_table_new[5.009005]
ptr_table_split[5.009005]
ptr_table_store[5.009005]
push_scope
put_charclass_bitmap_innards
put_code_point
put_range
pv_display[5.006000]
pv_escape[5.009004]
pv_pretty[5.009004]
pv_uni_display[5.007003]
qerror
qsortsvu
quadmath_format_needed
quadmath_format_single
re_compile[5.009005]
re_croak2
re_dup_guts
re_intuit_start[5.019001]
re_intuit_string[5.006000]
re_op_compile
realloc[5.007002]
reentrant_free[5.021008]
reentrant_init[5.021008]
reentrant_retry[5.021008]
reentrant_size[5.021008]
ref_array_or_hash
refcounted_he_chain_2hv
refcounted_he_fetch_pvn
refcounted_he_fetch_pvs
refcounted_he_fetch_pv
refcounted_he_fetch_sv
refcounted_he_free
refcounted_he_inc
refcounted_he_new_pvn
refcounted_he_new_pvs
refcounted_he_new_pv
refcounted_he_new_sv
refcounted_he_value
refkids
refto
ref[5.021008]
reg2Lanode
reg_check_named_buff_matched
reg_named_buff_all[5.009005]
reg_named_buff_exists[5.009005]
reg_named_buff_fetch[5.009005]
reg_named_buff_firstkey[5.009005]
reg_named_buff_iter
reg_named_buff_nextkey[5.009005]
reg_named_buff_scalar[5.009005]
reg_named_buff
reg_node
reg_numbered_buff_fetch
reg_numbered_buff_length
reg_numbered_buff_store
reg_qr_package
reg_recode
reg_scan_name
reg_skipcomment
reg_temp_copy
regnodule
regatom
regbranch
regclass_swash[5.009004]
regclass
regcppop
regcpppush
regcurly
regdump_extflags
regdump_intflags
regdump[5.005000]
regdupe_internal
regexec_flags[5.005000]
regfree_internal[5.005000]
reginclass
reginitcolors[5.006000]
reginsert
regmatch
regnext[5.005000]
regnodel guts
regpatws
regpiece
regpposixcc
regprop
regrepeat
regtail_study
regtail
regtry||
reg||
repeatcpy||n
report_evil_fh||
report_redefined_cv||
report_uninit||
report_wrongway_fh||
require_pv[5.006000]
require_tie_mod||
restore_magic||
minstr||n
rpeep||
signal_restore||
signal_save||
signal_state[5.004000]
signal[5.004000]
run_body||
run_user_filter||
runcall[5.005000]
runcall_standard[5.005000]
rv2cv_op_cv[5.013006]
rpv_dup||
rxres_free||
rxres_restore||
rxres_save||
safesyscall[5.006000]
safesysfree[5.006000]
safesysmalloc[5.006000]
safesysrealloc[5.006000]
same_dirent||
save_116[5.004000]
save_132||
save_18[5.006000]
save_aedele[5.011000]
save_aelem_flags[5.011000]
save_aelem[5.006000]
save_aliased_sv||
save_alloc[5.006000]
save_aptr||
save_ary||
save_bool[5.008001]
save_clearsv||
save_delete||
save_destructor_x[5.006000]
save_destructor[5.006000]
save_freeop||
save_freedx||
save_freev||
save_generic_pvref[5.006001]
save_generic_svref[5.005030]
save_gp[5.004000]
save_hash[
save_hdelete[5.011000]
save_hek_flags][n
save_helem_flags[5.011000]
save_helem[5.004050]
save_hints[5.010001]
save_hptr[
save_int[
save_item[
save_iv[5.005000]
save_lines[
save_long[
save_magic_flags[
save_mortalizesv[5.007001]
save_nogv[
save_op[5.005000]
save_padsv_and_mortalize[5.010001]
save_pptr[
save_pushi32ptr[5.010001]
save_pushptr32ptr[
save_pushptrptr[5.010001]
save_pushptr[5.010001]
save_re_context[5.006000]
save_scalar_at[
save_scalar[
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr[
save_strlen[
save_svrref[
save_vptr[5.006000]
savevpvn[
savepvsv[5.009003]
savepvv[
savesharedpvvn[5.009005]
savesharedpvsv[5.013006]
savesharedpvy[5.007003]
savesharedsvpvy[5.013006]
savestack_grow_cnt[5.008001]
savestack_grow[
savesvpvv[5.009002]
sawparens[
scalar_mod_type][n
scalarboolean[n]
sv_only_taint_gmagic
sv_or_pv_pos_u2b
sv.peek[5.005000]
sv_pos_b2u_flags[5.019003]
sv_pos_b2u_midway
sv_pos_b2u[5.006000]
sv_pos_u2b_cached
sv_pos_u2b_flags[5.011005]
sv_pos_u2b_forwards
sv_pos_u2b_midway
sv_pos_u2b[5.006000]
sv_pvbyten_force[5.006000]
sv_pvbyte[5.006000]
sv_pvn_force_flags[5.007002]
sv_pvn_force
sv_pvn_nomg[5.007003][5.005000]
sv_pvn[5.005000]
sv_pvutf8n_force[5.006000]
sv_pvutf8n[5.006000]
sv_pvutf8[5.006000]
sv_pv[5.006000]
sv_recode_to_utf8[5.007003]
sv_reftype
sv_ref
sv_release_COW
sv_replace
sv_report_used
sv_resettvn
sv_setv
sv_rvweaken[5.006000]
sv_sethek
sv_setiv_mg[5.004050]
sv_setiv
sv_setnv_mg[5.006000]
sv_setnv
sv_setpvn_mg[5.004050]
sv_setpvn
sv_setpvs_mg[5.013006]
sv_setpvs
sv_setpv[5.006000]
sv_setpvf_mg_nocontext[pvn]
sv_setpvf_mg[5.006000][5.004000][pv]
sv_setpvf_nocontext[pvn]
sv_setpvf[5.004000][v]
sv_setpviv_mg[5.008001]
sv_setpviv[5.008001]
sv_setpvn_mg[5.004050][p]
sv_setpvn
sv_setpvs_mg[5.013006]
sv_setpvs
sv_setpv
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", "."x(40-length($f)), " ", format_version($API{$f}{todo}), ",u";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23874


undef $function;
}
else {
 $function->[1] = ";
}
}

$function = [1,""] if m{^DPPP\(\(my\(_\w+\)\))\};

$replace = $1 if m{^s*$rccs\s+Replace:\s+(\d+)\s+\$rccs\s+\$};
$replace{$2} = $1 if $replace and m{^s*$\#define\s+(\w+)\s+(\w+)\s+\$rccs\s+\$rccs\s+\$};
$replace{$1} = $2 if m{^s*$rccs\s+Replace (\w+) with (\w+) with \$rccs\s+\$};

if (m{^s*$rccs\s+(\w+\s+(\w+\s+\w+)*)\s+\$rccs\s+\$})

    my @deps = map { s/\s+//g; $_ } split \/, \$3;
    my $d;
    for $d (map { s/\s+//g; $_ } split \/, \$1) {
        push @{$depends{$d}}, @deps;
    }

$need{$1} = 1 if m{^#if\s+defined\(\(\w+\)\)\(\w+\)\$};

for (values %depends) {
    my %s;
    $s_ = [sort grep !s{$_.}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print \nSupported at least starting from perl-$base.
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print \nSupport by $ppport provided back to perl-$todo.
            print \nSupport needs to be explicitly requested by NEED_$f if exists $need{$f};
            print \nDepends on: \, join(', ', @{$depends{$f}}), \".
            if exists $depends{$f};
print "unShints$f" if exists Shints$f;
print "\nWARNING:unSwarnings$f\n" if exists $warnings$f;
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching 'opt{\'api-info\'}'.\n";
print \n;
exit 0;
}
if (exists $opt{list-provided}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API$f{provided};
  my @flags;
  push @flags, 'explicit' if exists $need$f;
  push @flags, 'depend' if exists $depends$f;
  push @flags, 'hint' if exists $hints$f;
  push @flags, 'warning' if exists $warnings$f;
  my $flags = @flags ? '[join(', ', @flags).']' : "";
  print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc);
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      } else {
        warn "$_. is not a file.\n" }
    } else {
      my @new = grep { -f } glob $_
      or warn "$_ does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}
else {

eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23877


my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab(?!\:Perl_)\?$match/) {
        $file{uses_replace}{$func}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /\b$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /\bdefine\b/) {
    if (exists $need{$_}) {
        $file{needs}{$_} = 'static' if exists $need{$_};
    }
}

while ($c =~ /\bdefine\b/) {
    if (exists $need{$_}) {
        $file{needs}{$_} = 'static' if exists $need{$_};
    }
}

while ($c =~ /\bdefine\b/) {
    if (exists $need{$_}) {
        $file{needs}{$_} = 'static' if exists $need{$_};
    }
}

while ($c =~ /\bdefine\b/) {
    if (exists $need{$_}) {
        $file{needs}{$_} = 'static' if exists $need{$_};
    }
}

while ($c =~ /\bdefine\b/) {
    if (exists $need{$_}) {
        $file{needs}{$_} = 'static' if exists $need{$_};
    }
}
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23879


$file{changes} += $changes;
}
}
}
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)/(\s*aTHX_-?)?\s*}{\b$func$1(\s*)/g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/b$func(bสม)/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ", format_version($API{$func}{todo}), ", even with 'ppport''un";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}
for $func (sort keys %{$file{needed_global}}) {  
  my $message = ";  
  if (not exists $global{uses}{$func}) {  
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";  
  } elsif (exists $file{needs}{$func}) {  
    if ($file{needs}{$func} eq 'extern') {  
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";  
    } elsif ($file{needs}{$func} eq 'static') {  
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";  
    }  
  }  
  if ($message) {  
    diag($message);  
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);  
  }  
}  

$file{needs_inc_ppport} = keys %{$file{uses}};  

if ($file{needs_inc_ppport}) {  
  my $pp = ";  
  for $func (sort keys %{$file{needs}}) {  
    my $type = $file{needs}{$func};  
    next if $type eq 'extern';  
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';  
    unless (exists $file{"needed_$type"}{$func}) {  
      if ($type eq 'global') {  
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");  
      } else {  
        diag("File needs $func, adding static request");  
      }  
      $pp .= "#define NEED_${func$suffix}n";  
    }  
  }  
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {  
    $pp = ";  
    $file{changes}++;  
  }  
  unless ($file{has_inc_ppport}) {  
    diag("Needs to include '$ppport'"};
$pp .= qq(#include "$ppport"
)
}

if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/^($HS*#$HS*include.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)/$1$pp/m)
    || ($c =~ s/^/$pp/);
} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
if (open F, ">$newfile") {
    info("Writing copy of '$filename' with changes to '$newfile'");
    print F $c;
    close F;
} else {
    error("Cannot open '$newfile' for writing: $!");
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(
            PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(
            STDOUT, $filename, $c);
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
} else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq " }
sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if ('!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<<HEADER . $diff;
        --- $file
        +++ $file.patched
HEADER
    }

    if ('!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if ('!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if ('!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;
    }
if (open F, "$prog $file $tmp |") {
    while (<F>) {
        s/\Q$\tmp\E/$file.patched/;
        $diff.= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{ }}};
    return () if $seen->{$func}++; 
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;

    if ($ver =~ /^\d+\./) { 
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\./) { 
        die "cannot parse version '$ver\"n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+\./;($3)/;

    $v = int $v;
    $s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version \'$ver\\n\';
    }
}

return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /(\d+)/.(\d\d\d)/(\d\d\d)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version \'$ver\\n\';
        }
        $s /= 10;

        $ver = sprintf "%d.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "_.%02d", $s;

        return $ver;
    }

    return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23887


sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> }
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\w*\(\w*\)\=\w+/ms;
    $copy =~ s/^(?=$HS+)/    /gms;
    $self =~ s/$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }
        \$@ and die "Cannot require Devel::PPPort, please install.
        if (eval \$Devel::PPPort::VERSION < $VERSION) {
            die "$0 was originally generated with Devel::PPPort $VERSION.
            if ($ARGV[0] eq '--unstrip') {
                Devel::PPPort::WriteFile($0);
                exit 0;
            }
            print <<END;
            Sorry, but this is a stripped version of $0.
            To be able to use its original script and doc functionality,
            please try to regenerate this file using:
            END
            /ms;
            my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
            $c =~ s{[^
]+}/ (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
\]*/ | ^\S+) }{ defined $2 ? $1 : ($1 || '') }gsex;
            $c =~ s!\s+$!!mg;
            $c =~ s!^$LF!!mg;
            $c =~ s!^\s*#!#!mg;
            $c =~ s!^!mg;
            open OUT, ">$0" or die "$0: $!";
            print OUT "$pl \$c
            END
            /ms;
            my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
            $c =~ s{[^
]+}/ (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
\]*/ | ^\S+) }{ defined $2 ? $1 : ($1 || '') }gsex;
            $c =~ s!\s+$!!mg;
            $c =~ s!^$LF!!mg;
            $c =~ s!^\s*#!#!mg;
            $c =~ s!^!mg;
            open OUT, ">$0" or die "cannot strip $0: $!
            print OUT "$pl $c"
            exit 0;
        }
        __DATA__
=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

use Data::Dumper;

    # simple procedural interface
    print Dumper($foo, $bar);

    # extended usage with names
    print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

    # configuration variables
    {
        local $Data::Dumper::Purity = 1;
        eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
    }

    # OO usage
    $d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
    ...
    print $d->Dump;
    ...
    $d->Purity(1)->Terse(1)->Deepcopy(1);
    eval $d->Dump;

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval’ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named


C<$VAR>I<n>$ (where I<n> is a numeric suffix), and other duplicate references to substructures within C<$VAR>I<n>$ will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>I<n>$ will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>->new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<* > to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural
interdependencies in the original set of values. Structure traversal is
depth-first, and proceeds in order from the first supplied value to
the last.

=item $OBJ->Dump  $PACKAGE->Dump(ARRAYREF [>, ARRAYREF])

Returns the stringified form of the values stored in the object (preserving
the order in which they were supplied to $new), subject to the
configuration options below. In a list context, it returns a list
of strings corresponding to the supplied values.

The second form, for convenience, simply calls the $new method on its
arguments before dumping the object immediately.

=item $OBJ->Seen([HASHREF])

Queries or adds to the internal table of already encountered references.
You must use $Reset to explicitly clear the table if needed. Such
references are not dumped; instead, their names are inserted wherever they
are encountered subsequently. This is useful especially for properly
dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names
as in $new. If no argument is supplied, will return the "seen" list of
name => value pairs, in a list context. Otherwise, returns the object
itself.

=item $OBJ->Values(ARRAYREF)

Queries or replaces the internal array of values that will be dumped. When
called without arguments, returns the values as a list. When called with a
reference to an array of replacement values, returns the object itself. When
called with any other type of argument, dies.

=item $OBJ->Names(ARRAYREF)

Queries or replaces the internal array of user supplied names for the values
that will be dumped. When called without arguments, returns the names. When
called with an array of replacement names, returns the object itself. If the
number of replacement names exceeds the number of values to be named, the
excess names will not be used. If the number of replacement names falls short
of the number of values to be named, the list of replacement names will be
exhausted and remaining values will not be renamed. When
called with any other type of argument, dies.

=item $OBJ->Reset

Clears the internal table of "seen" references and returns the object
itself.

=head2 Functions

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named C<$VAR>I<n> in the output, where I<n> is a numeric suffix. Will return a list of strings in a list context.

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually C<localized> in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=item *

$Data::Dumper::Indent  I<or>  I<$OBJ>->Indent(I<NEWVAL>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.
$Data::Dumper::Trailingcomma I<or> I<$OBJ>-Trailingcomma(I<NEWVAL>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

$Data::Dumper::Purity I<or> I<$OBJ>-Purity(I<NEWVAL>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

$Data::Dumper::Pad I<or> I<$OBJ>-Pad(I<NEWVAL>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.

$Data::Dumper::Varname I<or> I<$OBJ>-Varname(I<NEWVAL>)

Contains the prefix to use for tagging variable names in the output. The default is "VAR".

$Data::Dumper::Useqq I<or> I<$OBJ>-Useqq(I<NEWVAL>)

When set, enables the use of double quotes for representing string values. Whitespace other than space will be represented as C<\[\n\t\r\]>, "unsafe" characters will be backslashed, and unprintable characters will be output as quoted octal integers. The default is 0.

$Data::Dumper::Terse I<or> I<$OBJ>-Terse(I<NEWVAL>)

When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the C<$VAR>I<n> names
will be avoided where possible, but be advised that such output may not always be parseable by C<eval>.

=item *
$Data::Dumper::Freezer I<or> $I<OBJ>-Freezer(I<[NEWVAL]>)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will invoke that method via the object before attempting to stringify it. This method can alter the contents of the object (if, for instance, it contains data allocated from C), and even re bless it in a different package. The client is responsible for making sure the specified method can be called via the object, and that the object ends up containing only perl data types after the method has been called. Defaults to an empty string.

If an object does not support the method specified (determined using UNIVERSAL::can()) then the call will be skipped. If the method dies a warning will be generated.

=item *
$Data::Dumper::Toaster I<or> $I<OBJ>-Toaster(I<[NEWVAL]>)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax C<bless(DATA, CLASS)-E<gt>METHOD()>. Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *
$Data::Dumper::Deepcopy I<or> $I<OBJ>-Deepcopy(I<[NEWVAL]>)

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.

=item *
$Data::Dumper::Quotekeys I<or> $I<OBJ>-Quotekeys(I<[NEWVAL]>)

Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.
=item *

$Data::Dumper::Bless  I<or>  $I<OBJ>->Bless(I<[NEWVAL]>)

Can be set to a string that specifies an alternative to the C<bless> builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is C<bless>.

=item *

$Data::Dumper::Pair  I<or>  $I<OBJ>->Pair(I<[NEWVAL]>)

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: C<$Data::Dumper::Pair = ' : ';>}. Implementing C<bless> in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin.

Default is: C< =E<gt> >.

=item *

$Data::Dumper::Maxdepth  I<or>  $I<OBJ>->Maxdepth(I<[NEWVAL]>)

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when C<$Data::Dumper::Purity> is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

=item *

$Data::Dumper::Maxrecurse  I<or>  $I<OBJ>->Maxrecurse(I<[NEWVAL]>)

Can be set to a positive integer that specifies the depth beyond which recursion into a structure will throw an exception. This is intended as a security measure to prevent perl running out of stack space when dumping an excessively deep structure. Can be set to 0 to remove the limit. Default is 1000.

=item *

$Data::Dumper::Useperl  I<or>  $I<OBJ>->Useperl(I<[NEWVAL]>)

Can be set to a boolean value which controls whether the pure Perl
implementation of \texttt{C<Data::Dumper>} is used. The \texttt{C<Data::Dumper>} module is a dual implementation, with almost all functionality written in both pure Perl and also in XS (`C`). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

\texttt{$Data::Dumper::Sortkeys \textasciitilde \ OBJ \rightarrow \texttt{Sortkeys(NEWVAL)}}

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case \texttt{C<Data::Dumper>} will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *

\texttt{$Data::Dumper::Deparse \textasciitilde \ OBJ \rightarrow \texttt{Deparse(NEWVAL)}}

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, \texttt{C<B::Deparse>} will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.

Caution: use this option only if you know that your coderefs will be properly reconstructed by \texttt{C<B::Deparse>}.

=item *

\texttt{$Data::Dumper::Sparseseen \textasciitilde \ OBJ \rightarrow \texttt{Sparseseen(NEWVAL)}}

By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the \texttt{C<Seen()>> call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash,
then you can set the C<Sparseseen> option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on C<Sparseseen>, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back
=over 4
=item Dumper
=back
=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;
sub new {bless {'a' => 1, 'b' => sub { return 'foo' }}, $_[0]};

package Fuz;                       # a weird REF-REF-SCALAR object
sub new {bless \$_ = \ 'fu\'z'), $_[0]};

package main;
$foo = Foo->new;
$fu = Fuz->new;
$boo = [ 1, [], "abcd", *foo,
        { 1 => 'a', 023 => 'b', 0x45 => 'c'},
        \"p\q\'r", $foo, $fu];

#######
# simple usage
#######

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar);  # pretty print (no array indices)

$Data::Dumper::Terse = 1;  # don't output names where feasible
$Data::Dumper::Indent = 0;  # turn off all pretty print
print Dumper($boo), "\n";

$Data::Dumper::Indent = 1;  # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3;  # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1;  # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = " : ";  # specify hash key/value separator
print Dumper($boo);

########
# recursive structures
########

@c = ('c');
$c = \@c;
$bc = \$c;
$ba = \{ \}
$ba->{a} = $ba;
$ba->{b} = $ba->{a}->{1};
$ba->{c} = $ba->{a}->{2};
print Data::Dumper->Dump([$a,$b,$c], [qw(a b c)]);

$Data::Dumper::Purity = 1;  # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]);  # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);  # print as %b

$Data::Dumper::Deepcopy = 1;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 23899

########

$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b };  
$d = [ $c ];
$e = [ 'd' => $d ];
$f = [ 'e' => $e ];
print Data::Dumper->Dump([[$f]], [qw(f)]);

$Data::Dumper::Maxdepth = 3;  # no deeper than 3 refs down
print Data::Dumper->Dump([[$f]], [qw(f)]);


########

# object-oriented usage


########

$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen({'*c' => $c});  # stash a ref without printing it
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);  # empty the seen cache
print join "----
", $d->Dump;


########

# persistence


########

package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
    my $s = shift;
    print STDERR "preparing to sleep\n";
    $s->{state} = 'asleep';
    return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {
    my $s = shift;
    print STDERR "waking up\n";
    $s->{state} = 'awake';
    return bless $s, 'Foo';
}

package main;

use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a],['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d],['d']);

########
# symbol substitution (useful for recreating CODE refs)
########
sub foo { print "foo speaking\n" }
*other = &foo;
$bar = [ &other ];
$d = Data::Dumper->new([&other,$bar],['other','bar']);
$d->Seen({ 'foo' => &foo });
print $d->Dump;

########
# sorting and filtering hash keys
########
$Data::Dumper::Sortkeys = &my_filter;
my $foo = { map { (ord, "$_$_$_") } 'I'..'Q' };  
my $bar = { %$foo };  
my $baz = { reverse %$foo };  
print Dumper [ $foo, $bar, $baz ];

sub my_filter {
    my ($hash) = @_;  
    # return an array ref containing the hash keys to dump  
    # in the order that you want them to be dumped  
    return [  
        # Sort the keys of %$foo in reverse numeric order  
        $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :  
        # Only dump the odd number keys of %$bar  
        $hash eq $bar ? (grep {$_ % 2} keys %$hash) :  
        # Sort keys in default order for all other hashes  
        (sort keys %$hash)  
    ];  
}

=head1 BUGS
Due to limitations of Perl subroutine call semantics, you cannot pass an array or hash. Prepend it with a C<<\>> to pass its reference instead. This will be remedied in time, now that Perl has subroutine prototypes. For now, you need to use the extended usage form, and prepend the name with a C<<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references. If a code reference is encountered in the structure being processed (and if you haven't set the C<Deparse> flag), an anonymous subroutine that contains the string "DUMMY" will be inserted in its place, and a warning will be printed if C<Purity> is set. You can C<eval> the result, but bear in mind that the anonymous sub that gets created is just a placeholder. Someday, perl will have a switch to cache-on-demand the string representation of a compiled piece of code, I hope. If you have prior knowledge of all the code refs that your data structures are likely to have, you can use the C<Seen> method to pre-seed the internal reference table and make the dumped output point to them, instead. See L</EXAMPLES> above.

The C<Deparse> flag makes Dump() run slower, since the XSUB implementation does not support it.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different ordering of hash keys. The change was done for greater security, see L<perlsec/"Algorithmic Complexity Attacks">. This means that different runs of Perl will have different Data::Dumper outputs if the data contains hashes. If you need to have identical Data::Dumper outputs from different runs of Perl, use the environment variable PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores the old (platform-specific) ordering: an even prettier solution might be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

Gurusamy Sarathy  gsar@activestate.com

Copyright (c) 1996-2016 Gurusamy Sarathy. All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
=head1 VERSION

Version 2.161 (July 11 2016)

=head1 SEE ALSO

perl(1)

cut

Found in path(s):

No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548090_1591903283.05/0/perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/perl-Data-Dumper.spec

1.387 linux-kernel 4.18.0-305.12.1.el8_4

1.387.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.388 google-uuid v1.1.1

1.388.1 Available under license:

Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza

Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.389 make 4.2.1 10.el8

1.389.1 Available under license:

@c The GNU Free Documentation License.
center Version 1.3, 3 November 2008

c This file is intended to be included within another document,
c hence no sectioning command or @node.

display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
display

@enumerate 0
@item PREAMBLE

The purpose of this License is to make a manual, textbook, or other

This License is a kind of `copyleft`, which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

**APPLICABILITY AND DEFINITIONS**

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The `Document`, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as `you`. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A `Modified Version` of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A `Secondary Section` is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.
The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.
A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.
If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements."

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'',
``Dedications'', or ``History'', the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.
Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License “or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RE LICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.
An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```
@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with@dots{}Texts." line with this:

```
@smallexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.390 perl-srpm-macros 1-25.el8

1.390.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.
For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”.

“Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options,
such as a menu, a prominent item in the list meets this criterion.


The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support
service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.
A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM
AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c` for details.

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an “about box”.

You should also get your employer (if you work as a programmer) or school, if any, to sign a “copyright disclaimer” for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/licenses/why-not-lgpl.html>.

---

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large.
"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.
d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
1.391 cups 2.2.6-38.el8

1.391.1 Available under license:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved. This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it, subject to the following restrictions:

1. The author is not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

   CUPS License Agreement

   Copyright 2007-2016 by Apple Inc.
   1 Infinite Loop
   Cupertino, CA 95014 USA

   WWW: http://www.cups.org/

INTRODUCTION

CUPS(tm) is provided under the GNU General Public License ("GPL") and GNU Library General Public License ("LGPL"), Version 2, with an exception for Apple operating systems. A copy of the exception and licenses follow this introduction.

The GNU LGPL applies to the CUPS and CUPS Imaging libraries located in the "cups" and "filter" subdirectories of the CUPS source distribution and the files in the "test" subdirectory. The GNU GPL applies to the remainder of the CUPS distribution.

For those not familiar with the GNU GPL, the license basically allows you to:
- Use the CUPS software at no charge.
- Distribute verbatim copies of the software in source or binary form.
- Sell verbatim copies of the software for a media fee, or sell support for the software.

What this license *does not* allow you to do is make changes or add features to CUPS and then sell a binary distribution without source code. You must provide source for any changes or additions to the software, and all code must be provided under the GPL or LGPL as appropriate. The only exceptions to this are the portions of the CUPS software covered by the Apple operating system license exceptions outlined later in this license agreement.

The GNU LGPL relaxes the "link-to" restriction, allowing you to develop applications that use the CUPS and CUPS Imaging libraries under other licenses and/or conditions as appropriate for your application, driver, or filter.

LICENSE EXCEPTIONS

In addition, as the copyright holder of CUPS, Apple Inc. grants the following special exception:

1. Apple Operating System Development License Exception:

   a. Software that is developed by any person or entity for an Apple Operating System ("Apple OS-Developed Software"), including but not limited to Apple and third party printer drivers, filters, and backends for an Apple Operating System, that is linked to the CUPS imaging library or based on any sample filters or backends provided with CUPS shall not be considered to be a derivative work or collective work based on the CUPS program and is exempt from the mandatory source code release clauses of the GNU GPL. You may therefore distribute linked combinations of the CUPS imaging library with Apple OS-Developed Software without releasing the source code of the Apple OS-Developed Software. You may also use sample filters and backends provided with CUPS to develop Apple OS-Developed Software without releasing the source code of the Apple OS-Developed Software.

   b. An Apple Operating System means any operating system software developed and/or marketed by Apple Inc.,
including but not limited to all existing releases and versions of Apple's Darwin, iOS, macOS, macOS Server, and tvOS products and all follow-on releases and future versions thereof.

c. This exception is only available for Apple OS-Developed Software and does not apply to software that is distributed for use on other operating systems.

d. All CUPS software that falls under this license exception have the following text at the top of each source file:

   This file is subject to the Apple OS-Developed Software exception.

No developer is required to provide this exception in a derived work.

KERBEROS SUPPORT CODE

The Kerberos support code ("KSC") is copyright 2006 by Jelmer Vernooij and is provided 'as-is', without any express or implied warranty. In no event will the author or Apple Inc. be held liable for any damages arising from the use of the KSC.

Sources files containing KSC have the following text at the top of each source file:

   This file contains Kerberos support code, copyright 2006 by Jelmer Vernooij.

The KSC copyright and license apply only to Kerberos-related feature code in CUPS. Such code is typically conditionally compiled based on the present of the HAVE_GSSAPI preprocessor definition.

Permission is granted to anyone to use the KSC for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of the KSC must not be misrepresented; you must not claim that you wrote the original software. If you use the KSC in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

TRADEMARKS

CUPS and the CUPS logo (the "CUPS Marks") are trademarks of Apple Inc. Apple grants you a non-exclusive and non-transferable right to use the CUPS Marks in any direct port or binary distribution incorporating CUPS software and in any promotional material therefor. You agree that your products will meet the highest levels of quality and integrity for similar goods, not be unlawful, and be developed, manufactured, and distributed in compliance with this license. You will not interfere with Apple's rights in the CUPS Marks, and all use of the CUPS Marks shall inure to the benefit of Apple. This license does not apply to use of the CUPS Marks in a derivative products, which requires prior written permission from Apple Inc.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it...
if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
      stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in
      whole or in part contains or is derived from the Program or any
      part thereof, to be licensed as a whole at no charge to all third
      parties under the terms of this License.

   c) If the modified program normally reads commands interactively
      when run, you must cause it, when started running for such
      interactive use in the most ordinary way, to print or display an
      announcement including an appropriate copyright notice and a
      notice that there is no warranty (or else, saying that you provide
      a warranty) and that users may redistribute the program under
      these conditions, and telling the user how to view a copy of this
      License. (Exception: if the Program itself is interactive but
      does not normally print such an announcement, your work based on
      the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any 
other libraries whose authors decide to use it. You can use it for 
your libraries, too.

When we speak of free software, we are referring to freedom, not 
price. Our General Public Licenses are designed to make sure that you 
have the freedom to distribute copies of free software (and charge for 
this service if you wish), that you receive source code or can get it 
if you want it, that you can change the software or use pieces of it 
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid 
anyone to deny you these rights or to ask you to surrender the rights. 
These restrictions translate to certain responsibilities for you if 
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis 
or for a fee, you must give the recipients all the rights that we gave 
you. You must make sure that they, too, receive or can get the source 
code. If you link a program with the library, you must provide 
complete object files to the recipients so that they can relink them 
with the library, after making changes to the library and recompiling 
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright 
the library, and (2) offer you this license which gives you legal 
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain 
that everyone understands that there is no warranty for this free 
library. If the library is modified by someone else and passed on, we 
want its recipients to know that what they have is not the original 
version, so that any problems introduced by others will not reflect on 
the original authors' reputations.

Finally, any free program is threatened constantly by software 
patents. We wish to avoid the danger that companies distributing free 
software will individually obtain patent licenses, thus in effect 
transforming the program into proprietary software. To prevent this, 
we have made it clear that any patent must be licensed for everyone's 
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary 
GNU General Public License, which was designed for utility programs. This 
license, the GNU Library General Public License, applies to certain 
designated libraries. This license is quite different from the ordinary 
one; be sure to read it in full, and don't assume that anything in it is 
the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.392 html5lib 0.999999999
1.392.1 Available under license :
Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2006-2013 James Graham, Geoffrey Sneddon, and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.393 openjdk-jre 1.8.0.302.b08-0.el8_4

1.393.1 Available under license:

Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some files are under GNU GPL v3 or any later version
- doc/example/pexec_demo.c
- the files in src/spy/
- the files in UnitaryTests/

Copyright (C) 2003-2014  Ludovic Rousseau

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Files src/auth.c and src/auth.h are:
* Copyright (C) 2013 Red Hat
* All rights reserved.
* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* 
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS 
* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT 
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS 
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE 
* COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, 
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, 
* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS 
* OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED 
* AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, 
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF 
* THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH 
* DAMAGE. 
* 
* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>

Files src/simclist.c and src/simclist.h are:
* Copyright (c) 2007,2008,2009,2010,2011 Mij <mij@bitchx.it>
* 
* Permission to use, copy, modify, and distribute this software for any 
* purpose with or without fee is hereby granted, provided that the above 
* copyright notice and this permission notice appear in all copies. 
* 
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES 
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF 
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR 
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES 
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN 
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF 
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy 
of this software and associated documentation files (the "Software"), to deal 
in the Software without restriction, including without limitation the rights 
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell 
copies of the Software, and to permit persons to whom the Software is 
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in 
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR 
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, 
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE 
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER 
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Within this directory, each of the file listed below is licensed under
the terms given in the file LICENSE-MPL, also in this directory.

PRIMES
Copyright (c) %YEARS%, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.
Permission is hereby granted to use, copy, modify, and distribute this software, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are derived from libpng-1.0.6, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux  
Eric S. Raymond  
Mans Rullgard  
Cosmin Truta  
Gilles Vollant  
James Yu  
Mandar Sahastrabuddhe  
Google Inc.  
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.
libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

Within this directory, each of the file listed below is licensed under the terms given in the file LICENSE-MPL, also in this directory.

- basecvt.pod
- gcd.pod
- invmod.pod
- isprime.pod
- lap.pod
- mpi-test.pod
- prime.txt
- prng.pod

This is the copyright file

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify,
 sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are subject to the following clarification and special exception to the GPL, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

NSS is available under the Mozilla Public License, version 2, a copy of which is below.

Note on GPL Compatibility
--------------------------

The MPL 2, section 3.3, permits you to combine NSS with code under the GNU General Public License (GPL) version 2, or any later version of that
license, to make a Larger Work, and distribute the result under the GPL. The only condition is that you must also make NSS, and any changes you have made to it, available to recipients under the terms of the MPL 2 also.

Anyone who receives the combined code from you does not have to continue to dual licence in this way, and may, if they wish, distribute under the terms of either of the two licences - either the MPL alone or the GPL alone. However, we discourage people from distributing copies of NSS under the GPL alone, because it means that any improvements they make cannot be reincorporated into the main version of NSS. There is never a need to do this for license compatibility reasons.

Note on LGPL Compatibility
----------------------------

The above also applies to combining MPLed code in a single library with code under the GNU Lesser General Public License (LGPL) version 2.1, or any later version of that license. If the LGPLed code and the MPLed code are not in the same library, then the copyleft coverage of the two licences does not overlap, so no issues arise.

Mozilla Public License Version 2.0
==================================

1. Definitions
---------------

1.1. "Contributor"  
means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"  
means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"  
means Covered Software of a particular Contributor.

1.4. "Covered Software"  
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"  
means
(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.
1.14. "You" (or "Your") means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.
4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is"
* basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

*************************************************************************
*************************************************************************

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

*************************************************************************

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

-------------
This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforcable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.
Copyright 2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- Neither the name of Oracle nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Mozilla Public License Version 2.0

==================================
1. Definitions
--------------

1.1. "Contributor"
means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:
(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form" means the form of the work preferred for making modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary
3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or *
*  statutory, including, without limitation, warranties that the      *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the    *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,  *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.        *
*                                                                      *
************************************************************************
************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any          *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character     *
*  including, without limitation, damages for lost profits, loss of   *
*  goodwill, work stoppage, computer failure or malfunction, or any   *
*
* and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
-----------------

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.
10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 only, as published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 2 for more details (a copy is included in the LICENSE file that accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation, 
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA 
or visit www.oracle.com if you need additional information or have any 
questions.

Copyright (c) %YEARS%, Oracle and/or its affiliates. All rights reserved. 
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it 
under the terms of the GNU General Public License version 2 only, as 
published by the Free Software Foundation. Oracle designates this 
particular file as subject to the "Classpath" exception as provided 
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT 
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or 
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License 
version 2 for more details (a copy is included in the LICENSE file that 
accompanied this code).

You should have received a copy of the GNU General Public License version 
2 along with this work; if not, write to the Free Software Foundation, 
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA 
or visit www.oracle.com if you need additional information or have any 
questions.

SAX COPYRIGHT STATUS

Version 1.0 of the Simple API for XML (SAX), created collectively by 
the membership of the XML-DEV mailing list, is hereby released into 
the public domain.

No one owns SAX: you may use it freely in both commercial and 
non-commercial applications, bundle it with your software 
distribution, include it on a CD-ROM, list the source code in a book, 
mirror the documentation at your own web site, or use it in any other 
way you see fit.

NO WARRANTY

Because SAX is released to the public domain, there is no warranty for 
the design or for the software implementation, to the extent permitted 
by applicable law. Except when otherwise stated in writing the 
copyright holders and/or other parties provide SAX "as is" without 
warranty of any kind, either expressed or implied, including, but not
limited to, the implied warranties of merchantability and fitness for
a particular purpose. The entire risk as to the quality and
performance of SAX is with you. Should SAX prove defective, you
assume the cost of all necessary servicing, repair or correction.

In no event unless required by applicable law or agreed to in writing
will any copyright holder, or any other party who may modify and/or
redistribute SAX, be liable to you for damages, including any general,
special, incidental or consequential damages arising out of the use or
inability to use SAX (including but not limited to loss of data or
data being rendered inaccurate or losses sustained by you or third
parties or a failure of the SAX to operate with any other programs),
even if such holder or other party has been advised of the possibility
of such damages.

David Megginson <sax@megginson.com>
1998-05-11
***** BEGIN LICENSE BLOCK *****
Version: MPL 1.1/GPL 2.0/LGPL 2.1

The contents of this file are subject to the Mozilla Public License Version
1.1 (the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
http://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations under the
License.

The Original Code is the Netscape security libraries.

The Initial Developer of the Original Code is Netscape
Communications Corporation. Portions created by Netscape are
Copyright (C) 1994-2000 Netscape Communications Corporation. All
Rights Reserved.

Contributor(s):

Alternatively, the contents of this file may be used under the terms of
either the GNU General Public License Version 2 or later (the "GPL"), or
the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
in which case the provisions of the GPL or the LGPL are applicable instead
of those above. If you wish to allow use of your version of this file only
under the terms of either the GPL or the LGPL, and not to allow others to
use your version of this file under the terms of the MPL, indicate your
decision by deleting the provisions above and replace them with the notice
and other provisions required by the GPL or the LGPL. If you do not delete
the provisions above, a recipient may use your version of this file under
the terms of any one of the MPL, the GPL or the LGPL.

****** END LICENSE BLOCK *****

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/, and
http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF online
code charts under the directory http://www.unicode.org/Public/. Software
includes any source code published in the Unicode Standard or under the

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING,
INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA
FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO
BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT
AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR
SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2012 Unicode, Inc. All rights reserved. Distributed under the
Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of
the Unicode data files and any associated documentation (the "Data Files") or
Unicode software and any associated documentation (the "Software") to deal in
the Data Files or Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, and/or sell copies
of the Data Files or Software, and to permit persons to whom the Data Files or
Software are furnished to do so, provided that (a) the above copyright notice(s)
and this permission notice appear with all copies of the Data Files or
Software, (b) both the above copyright notice(s) and this permission notice
appear in associated documentation, and (c) there is clear notice in each
modified Data File or in the Software as well as in the documentation
associated with the Data File(s) or Software that the data or software has been
modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD
PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN
THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.
Copyright 2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.

***** BEGIN LICENSE BLOCK *****
Version: MPL 1.1/GPL 2.0/LGPL 2.1

The contents of this package are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this package except in compliance with the License. You may obtain a copy of the License at http://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is the Netscape Portable Runtime (NSPR).

The Initial Developer of the Original Code is Netscape Communications Corporation.
Portions created by the Initial Developer are Copyright (C) 1998-2000 the Initial Developer. All Rights Reserved.

Contributor(s):

Alternatively, the contents of this file may be used under the terms of either the GNU General Public License Version 2 or later (the "GPL"), or the GNU Lesser General Public License Version 2.1 or later (the "LGPL"), in which case the provisions of the GPL or the LGPL are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of either the GPL or the LGPL, and not to allow others to use your version of this file under the terms of the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL or the LGPL. If you do not delete the provisions above, a recipient may use your version of this file under the terms of any one of the MPL, the GPL or the LGPL.

***** END LICENSE BLOCK *****
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.
1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

   A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

   B. Any new file that contains any part of the Original Software or previous Modification; or

   C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.
2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made
available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.
The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients. rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient.s rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.
Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.
4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.
When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE
(CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To
prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute
the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on
the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and
every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather,
the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on
the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable
form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under
      the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more
      than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding
      source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software
      interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This
      alternative is allowed only for noncommercial distribution and only if you received the program in object code or
      executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable
work, complete source code means all the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is normally distributed (in either source or
binary form) with the major components (compiler, kernel, and so on) of the operating system on which the
executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering
equivalent access to copy the source code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License.
Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically
terminate your rights under this License. However, parties who have received copies, or rights, from you under this
License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you
permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do
not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program),
you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or
modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE
PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM
"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY
COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL,
SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY
TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER
PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to
achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to
most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public
License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later
version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General
Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the
Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 only, as published by the Free Software Foundation. Oracle designates this
particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 2 for more details (a copy is included in the LICENSE file that accompanied this code).

You should have received a copy of the GNU General Public License version 2 along with this work; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA or visit www.oracle.com if you need additional information or have any questions.
SAX IS FREE

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson
david@megginson.com
2000-01-14

1.394 gir1.2-gdkpixbuf-2.0 2.36.12 5.el8
1.394.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.395 io-console 0.5.9
1.395.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.396 perl-uri 1.73-3.el8
1.396.1 Available under license :
This software is copyright (c) 1998 by Gisle Aas.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
   Software Foundation; either version 1, or (at your option) any
   later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 1998 by Gisle Aas.

This is free software, licensed under:

The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation’s software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based
on the Program” means either the Program or any work containing the
Program or a portion of it, either verbatim or with modifications. Each
licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
General Public License and to the absence of any warranty; and give any
other recipients of the Program a copy of this General Public License
along with the Program. You may charge a fee for the physical act of
transferring a copy.

2. You may modify your copy or copies of the Program or any portion of
it, and copy and distribute such modifications under the terms of Paragraph
1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that
      you changed the files and the date of any change; and

   b) cause the whole of any work that you distribute or publish, that
      in whole or in part contains the Program or any part thereof, either
      with or without modifications, to be licensed at no charge to all
      third parties under the terms of this General Public License (except
      that you may choose to grant warranty protection to some or all
      third parties, at your option).

   c) If the modified program normally reads commands interactively when
      run, you must cause it, when started running for such interactive use
      in the simplest and most usual way, to print or display an
      announcement including an appropriate copyright notice and a notice
      that there is no warranty (or else, saying that you provide a
      warranty) and that users may redistribute the program under these
      conditions, and telling the user how to view a copy of this General
      Public License.

   d) You may charge a fee for the physical act of transferring a
      copy, and you may at your option offer warranty protection in
      exchange for a fee.

Mere aggregation of another independent work with the Program (or its
derivative) on a volume of a storage or distribution medium does not bring
the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of
it, under Paragraph 2) in object code or executable form under the terms of
Paragraphs 1 and 2 above provided that you also do one of the following:
a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 1998 by Gisle Aas.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold
commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.397 shadow-utils 4.6-12.el8

1.397.1 Available under license :

No license file was found, but licenses were detected in source scan.

# This program is the proprietary software of Broadcom Corporation
# all reasonable efforts to protect the confidentiality thereof,

Found in path(s):
*/opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/Makefile
No license file was found, but licenses were detected in source scan.

/*
* $Id: port.c 1.11 Broadcom SDK $
* $Copyright: Copyright 2012 Broadcom Corporation.
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an ”Authorized License”). Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software
* and all intellectual property rights therein. IF YOU HAVE
* NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
* IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof,
* and to use this information only in connection with your use of
* Broadcom integrated circuit products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
* PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
* BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
* INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
* ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
* TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
* THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
* WHICHERSOEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
* File:        port.c
* Purpose:     Manages untagged priority setting for port
*/

Found in path(s):
* /opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/port.c

1.398 procsps 3.3.15-6.el8
1.398.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program’s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but
these requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANDABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
    Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.399 libdnf 0.55.0-7.el8

1.399.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at runtime a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.400 libjpeg-turbo 1.5.3 10.el8
1.400.1 Available under license :

libjpeg-turbo Licenses

libjpeg-turbo is covered by three compatible BSD-style open source licenses:

- The IJG (Independent JPEG Group) License, which is listed in [README.ijg](README.ijg)

This license applies to the libjpeg API library and associated programs (any code inherited from libjpeg, and any modifications to that code.)

- The Modified (3-clause) BSD License, which is listed below

This license covers the TurboJPEG API library and associated programs.

- The zlib License, which is listed below

This license is a subset of the other two, and it covers the libjpeg-turbo SIMD extensions.

Complying with the libjpeg-turbo Licenses

This section provides a roll-up of the libjpeg-turbo licensing terms, to the best of our understanding.
1. If you are distributing a modified version of the libjpeg-turbo source, then:

1. You cannot alter or remove any existing copyright or license notices from the source.

**Origin**
- Clause 1 of the IJG License
- Clause 1 of the Modified BSD License
- Clauses 1 and 3 of the zlib License

2. You must add your own copyright notice to the header of each source file you modified, so others can tell that you modified that file (if there is not an existing copyright header in that file, then you can simply add a notice stating that you modified the file.)

**Origin**
- Clause 1 of the IJG License
- Clause 2 of the zlib License

3. You must include the IJG README file, and you must not alter any of the copyright or license text in that file.

**Origin**
- Clause 1 of the IJG License

2. If you are distributing only libjpeg-turbo binaries without the source, or if you are distributing an application that statically links with libjpeg-turbo, then:

1. Your product documentation must include a message stating:

This software is based in part on the work of the Independent JPEG Group.

**Origin**
- Clause 2 of the IJG license

2. If your binary distribution includes or uses the TurboJPEG API, then your product documentation must include the text of the Modified BSD License.

**Origin**
- Clause 2 of the Modified BSD License

3. You cannot use the name of the IJG or The libjpeg-turbo Project or the contributors thereof in advertising, publicity, etc.
4. The IJG and The libjpeg-turbo Project do not warrant libjpeg-turbo to be free of defects, nor do we accept any liability for undesirable consequences resulting from your use of the software.

The Modified (3-clause) BSD License
=====================================

Copyright (C)<YEAR> <AUTHOR>. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The zlib License
================
Copyright (C) <YEAR>, <AUTHOR>.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

1.401 device-mapper-multipath 0.8.4-10.el8

1.401.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it:
responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users’ freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”.

“Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.
To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license
otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright
are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.
If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material
governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with
reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24080
that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.
Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an “about box”.

You should also get your employer (if you work as a programmer) or school, if any, to sign a “copyright disclaimer” for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/licenses/why-not-lgpl.html>.

---

1.402 stringio 3.0.0

1.402.1 Available under license:

No license file was found, but licenses were detected in source scan.

```
/***************************/

stringio.c -

$Author$
$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp $
created at: Tue Feb 19 04:10:38 JST 2002

All the files in this distribution are covered under the Ruby's
license (see the file COPYING).

/******************************/

Found in path(s):
* /opt/cola/permits/1192562010_1629239750.26/0/stringio-3-0-0-gem/data-tar-gz/ext/stringio/stringio.c
No license file was found, but licenses were detected in source scan.

# StringIO

![ubuntu](https://github.com/ruby/stringio/workflows/ubuntu/badge.svg?branch=master&event=push)
Pseudo `IO` class from/to `String`.

This library is based on MoonWolf version written in Ruby. Thanks a lot.

## Differences to `IO`

* `fileno` raises `NotImplementedError`.
* encoding conversion is not implemented, and ignored silently.

## Installation

Add this line to your application's Gemfile:

```ruby
'io'
gem 'stringio'
```

And then execute:

```bash
$ bundle
```

Or install it yourself as:

```bash
$ gem install stringio
```

## Development

After checking out the repo, run `bin/setup` to install dependencies. Then, run `rake test` to run the tests. You can also run `bin/console` for an interactive prompt that will allow you to experiment.

To install this gem onto your local machine, run `bundle exec rake install`. To release a new version, update the version number in `version.rb`, and then run `bundle exec rake release`, which will create a git tag for the version, push git commits and tags, and push the `.gem` file to [rubygems.org](https://rubygems.org).

## Contributing

Bug reports and pull requests are welcome on GitHub at https://github.com/ruby/stringio.

## License

The gem is available as open source under the terms of the [2-Clause BSD License](https://opensource.org/licenses/BSD-2-Clause).

Found in path(s):

* /opt/cola/permits/1192562010_1629239750.26/0/stringio-3-0-0-gem/data-tar-gz/README.md
1.403 rust-srpm-macros 5-2.el8

1.403.1 Available under license:

MIT License

Copyright (c) 2017 Igor Gnatenko

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.404 perl-digest 1.17-395.el8

1.404.1 Available under license:

No license file was found, but licenses were detected in source scan.

This is just a simple frontend module for autoloading of various Digest:: modules. It also provide documentation of the interface that all Digest:: modules should provide.

You will need perl version 5.004 or better to install this module.

Copyright 1998-2006 Gisle Aas.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1178584724_1625692385.64/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-DqGAureV/Digest-1.17.tar.gz-cosi-expand-archive-dGj02A0m/Digest-1.17/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5  = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/ixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

The digest can be delivered in three formats:

=over 8

=item I<binary>
This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I<base64>

A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

use Digest::MD5 qw(md5);
$digest = md5($message);

There are also versions of the functions with "_hex" or "_base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

=over 4

=item $ctx = Digest->XXX($arg,...)

=item $ctx = Digest->new(XXX => $arg,...)

=item $ctx = Digest::XXX->new($arg,...)

The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl
identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

=item $other_ctx = $ctx->clone

The clone method creates a copy of the digest state object and returns a reference to the copy.

=item $ctx->reset

This is just an alias for $ctx->new.

=item $ctx->add( $data )

=item $ctx->add( $chunk1, $chunk2, ... )

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

$ctx->add("a"); $ctx->add("b"); $ctx->add("c");
$ctx->add("a")->add("b")->add("c");
$ctx->add("a", "b", "c");
$ctx->add("abc");

Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with ordinal number above 255.

=item $ctx->addfile( $io_handle )

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard
or reset the $ctx object if this occurs.

In most cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

=item $ctx->add_bits( $data, $nbits )

=item $ctx->add_bits( $bitstring )

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order C<< $nbits % 8 >> bits are used. If $nbits is greater than C<< length($data) * 8 >>, then this method would do the same as C<< $ctx->add($data) >>.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for C<< $ctx->add_bits(pack("B*", $bitstring), length($bitstring)) >>.

The return value is the $ctx object itself.

This example shows two calls that should have the same effect:

$ctx->add_bits("111100001010");
$ctx->add_bits("\xF0\xA0", 12);

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest

Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.
Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>Haval-256</td>
<td>256</td>
<td>Digest::Haval256 v1.0.4</td>
<td>41.3</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA2 v1.1.0</td>
<td>39.8</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.6</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>Whirlpool</td>
<td>512</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
</tr>
<tr>
<td>MD2</td>
<td>128</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
</tr>
<tr>
<td>Adler-32</td>
<td>32</td>
<td>Digest::Adler32 v0.03</td>
<td>1.3</td>
</tr>
<tr>
<td>CRC-16</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>CRC-32</td>
<td>32</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::Perl::MD5 v1.5</td>
<td>1.0</td>
</tr>
<tr>
<td>CRC-CCITT</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
</tr>
</tbody>
</table>

These numbers was achieved Apr 2004 with ActivePerl-5.8.3 running under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being pure perl implementations of the algorithms, which explains why they are so slow.

=head1 SEE ALSO

L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>, L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>, L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.
The C<Digest::> interface is based on the interface originally developed by Neil Winton for his C<MD5> module.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Copyright 1998-2006 Gisle Aas.

License:      GPL+ or Artistic

License file was not found, but licenses were detected in source scan.

License: perl

License file was not found, but licenses were detected in source scan.

1.405 libthai 0.1.27 2.el8
1.405.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.406 cockpit 238.2-1.el8

1.406.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cockpit
Source: https://github.com/cockpit-project/cockpit
Comment:
This does not directly cover the files in dist/*. These are "minified" and
compressed JavaScript/HTML files built from pkg/* and node_modules/* with
node, npm, and webpack. Their copyrights and licenses are described below.
Rebuilding these requires internet access as that process needs to download
additional npm modules from the Internet, thus upstream ships the pre-minified
webpacks as part of the upstream release tarball so that the package can be
built without internet access and lots of extra unpackaged build dependencies.

Files: *
Copyright: 2013-2016 Red Hat, Inc.
License: LGPL-2.1

Files: src/common/cockpitunixsignal.c
Copyright: Copyright (c) 1988, 1993, 1994 The Regents of the University of California
Portions Copyright (C) 2014 Red Hat, Inc.
Copyright (C) 2014 Sami Kerola <kerolasa@iki.fi>
Copyright (C) 2014 Karel Zak <kzak@redhat.com>
License: BSD-4-clause

Files: src/common/cockpitbase64.[hc]
Copyright: Copyright (c) 1996, 1998 by Internet Software Consortium
Portions Copyright (c) 1995 by International Business Machines, Inc.
License: MIT-IBM-immunity

Files: src/common/cockpitknownhosts.c
Copyright: Copyright (C) 2016 Red Hat, Inc.
Copyright (c) 2000 Markus Friedl
License: LGPL-2.1

Files: src/common/mock-io-stream.c
Copyright: Copyright © 2008-2010 Red Hat, Inc.
Copyright © 2011 Nokia Corporation
License: LGPL-2.1

Files: src/reauthorize/mock-reauthorize.c
src/reauthorize/test-reauthorize.c
src/retest/retest.h
src/retest/retest.c
Copyright: Copyright (c) 2013 - 2014 Red Hat Inc.
License: BSD-3-clause

Files: src/base1/test-utf8.js
Copyright: Copyright 2014 Joshua Bell. All rights reserved
License: Apache-2.0

Files: src/bridge/cockpitpcpmetrics.c
Copyright: Copyright (c) 2014 Red Hat.
Copyright (c) 1995 Silicon Graphics, Inc.
License: LGPL-2.1

Files: src/bridge/mock-pmda.c
test/selenium/selenium_start.sh
Copyright: Copyright (c) 2014 - 2016 Red Hat
Copyright (c) 1995,2004 Silicon Graphics, Inc. All Rights Reserved.
License: GPL-2+

Files: src/ssh/mock-sshd.c
Copyright: Copyright 2003-2011 Aris Adamantiadis
License: public-domain
You are free to copy this file, modify it in any way, consider it being public domain.

Files: tools/install-sh
Copyright: Copyright (C) 1994 X Consortium
License: MIT/X11
Files: pkg/*/*.metainfo.xml
Copyright: Copyright (C) 2018 Red Hat, Inc.
License: CC0-1.0
On Debian systems, the complete text of the Creative Commons Zero v1.0 Universal Public License is in "/usr/share/common-licenses/LGPL-2.1".

Files: dist/machines/*
Copyright: (Copyright 2009 Matt McInerney)
Copyright (C) 1996 by Jef Poskanzer <jef@acme.com>. All rights reserved
Copyright (C) 1999 AT&T Laboratories Cambridge. All Rights Reserved
Copyright (C) 2014-2016 by Vitaly Puzrin
Copyright (C) 2018 The noVNC Authors
Copyright (C) 2019 The noVNC Authors
Copyright (C) 2020 The noVNC Authors
Copyright (C) 1996 Widget Workshop, Inc. All Rights Reserved
Copyright (c) 2014 Forbes Lindesay
Copyright (c) 2014 Taylor Hakes
noVNC is Copyright (C) 2019 The noVNC Authors
License: MPL-2.0

Files: dist/machines/*
Copyright: @copyright 2009-2013 Jeremy Ashkenas, DocumentCloud Inc.
@copyright 2014-2015 Jon Schlinkert
Copyright (c) 2013-present, Facebook, Inc.
Copyright (c) 2014-present, Facebook, Inc.
Copyright (c) 2015 Denis Pushkarev
Copyright 2015-present Facebook. All Rights Reserved
License: MIT

Files: dist/storaged/*
Copyright: @copyright Chen, Yi-Cyuan 2014-2017
Copyright 2014-2017 Chen, Yi-Cyuan
License: MIT

Files: dist/machines/*
Copyright: Andrew Clark
License: MIT

Files: dist/systemd/*
Copyright: Andrew Rowls
License: Apache-2.0

Files: dist/machines/*
dist/networkmanager/*
dist/playground/*
dist/shell/*
Copyright: Copyright (C) 1989, 1991 Free Software Foundation, Inc.
dist/metrics/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/selinux/*
dist/shell/*
dist/storaged/*
dist/systemd/*
dist/tuned/*
dist/users/*

Copyright: Copyright (C) 2012-2013 Yusuke Suzuki (twitter: @Constellation) and other contributors
Copyright (C) 2012-2014 Yusuke Suzuki <utatane.tea@gmail.com>
Copyright (C) 2012-2018 by various contributors (see AUTHORS)
Copyright (C) 2013 Alex Seville <hi@alexanderseville.com>
Copyright (C) 2014 Thiago de Arruda <tpadilha84@gmail.com>
Copyright (C) 2015 Yusuke Suzuki <utatane.tea@gmail.com>
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*

Copyright: Copyright (C) 2013 Jordan Harband
License: MIT

Files: dist/base1/*
dist/machines/*
dist/networkmanager/*
dist/playground/*
dist/shell/*
dist/storaged/*
dist/systemd/*

Copyright: Copyright (C) 2013-2015 bootstrap-select
Copyright (c) 2013-2015 bootstrap-select
Copyright (c) 2017 Kyle Kemp, Rohit Kalkur, and contributors
Copyright (c) 2019 Red Hat, Inc.
Copyright 2011-2019 Twitter, Inc.
Copyright 2013-2017 bootstrap-select
Copyright Dave Gandy 2016. All rights reserved
Modifications to Bootstrap are copyright 2019 Red Hat, Inc.
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (C) 2014 Jordan Harband
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (C) 2015 Jordan Harband
License: MIT

Files: dist/machines/*
Copyright: Copyright (C) Federico Zivolo 2020
Copyright (c) 2016 Federico Zivolo and contributors
License: MIT

Files: dist/networkmanager/*
dist/playground/*
dist/shell/*
dist/systemd/*
Copyright: Copyright (c) 2009 Chris Wanstrath (Ruby)
Copyright (c) 2010 Jan Lehnardt (JavaScript)
Copyright (c) 2010-2014 Jan Lehnardt (JavaScript)
Copyright (c) 2010-2015 The mustache.js community
License: MIT

Files: dist/machines/*
Copyright: Copyright (c) 2010-2016 Robert Kieffer and other contributors
Copyright (c) 2017 Amir Fefer
Copyright 2011, Sebastian Tschan
Version 2.2 Copyright (C) Paul Johnston 1999 - 2009
License: MIT

Files: dist/machines/*
Copyright: Copyright (c) 2010-2016 Robert Kieffer and other contributors
Copyright (c) 2019 Red Hat, Inc.
Copyright 2011, Sebastian Tschan
Version 2.2 Copyright (C) Paul Johnston 1999 - 2009
License: MIT
Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (c) 2013 James Halliday
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (c) 2013 Julian Gruber &lt;julian@juliangruber.com&gt;
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (c) 2013 Julian Gruber &lt;julian@juliangruber.com&gt;
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (c) 2013 Manuel Stofer
License: MIT

Files: dist/machines/*
Copyright: Copyright (c) 2013 Marc J. Schmidt
License: MIT

Files: dist/machines/*
Copyright: Copyright (c) 2013 Masayuki Tanaka
Copyright 2013 Twitter, Inc.
RequireJS 2.1.11 Copyright (c) 2010-2014, The Dojo Foundation All Rights Reserved
Copyright: Copyright (c) 2019 Inspect JS
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/storaged/*
dist/systemd/*
dist/users/*

Copyright: Copyright (c) 2019 Jordan Harband
License: MIT

Files: dist/machines/*
dist/metrics/*
dist/networkmanager/*
dist/packagekit/*
dist/selinux/*
dist/shell/*
dist/storaged/*
dist/systemd/*

Copyright: Copyright (c) 2019 Red Hat, Inc.
Copyright (c) Microsoft Corporation
License: MIT

Files: dist/apps/*
dist/kdump/*
dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/selinux/*
dist/shell/*
dist/storaged/*
dist/systemd/*
dist/tuned/*
dist/users/*

Copyright: Copyright (c) 2019 Red Hat, Inc.
License: MIT

Files: dist/machines/*
dist/networkmanager/*
dist/packagekit/*
dist/storaged/*
dist/systemd/*
dist/tuned/*
dist/users/*
Copyright: Copyright (c) Facebook, Inc. and its affiliates
License: MIT

Files: dist/machines/*
Copyright: Copyright (c) Isaac Z. Schlueter
License: ISC

Files: dist/machines/*
Copyright: Copyright (c) Isaac Z. Schlueter
License: MIT

Files: dist/base1/*
dist/machines/*
dist/metrics/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/selinux/*
dist/storaged/*
dist/systemd/*
dist/users/*
Copyright: Copyright (c) JS Foundation and other contributors
License: MIT

Files: dist/apps/*
dist/kdump/*
dist/machines/*
dist/metrics/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/selinux/*
dist/shell/*
dist/storaged/*
dist/systemd/*
dist/tuned/*
dist/users/*
Copyright: Copyright (c) Microsoft Corporation
License: 0BSD

Files: dist/apps/*
dist/kdump/*
dist/machines/*
dist/metrics/*
dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/selinux/*
dist/shell/*
dist/storaged/*
dist/systemd/*
dist/tuned/*
dist/users/*

Copyright: Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
License: MIT

Files: dist/base1/*
dist/kdump/*
dist/networkmanager/*
dist/shell/*
dist/storaged/*

Copyright: Copyright 2006 Google Inc.
Copyright 2014 Forbes Lindesay
Copyright 2014 Taylor Hakes
License: MIT

Files: dist/base1/*
dist/kdump/*
dist/networkmanager/*
dist/shell/*
dist/storaged/*

Copyright: Copyright © 2012 J. Ryan Stinnett <jryans@gmail.com>
License: MIT

Files: dist/machines/*
Copyright: Copyright © 2016 [Eli Grey][1]
License: MIT

Files: dist/networkmanager/*
dist/packagekit/*
dist/playground/*
dist/shell/*
dist/sosreport/*
dist/storaged/*
dist/systemd/*
dist/tuned/*

Copyright: JS Foundation and other contributors
License: MIT

Files: dist/storaged/*
Copyright: James Halliday
License: MIT
Files: dist/machines/
Copyright: Jamie Kyle
License: MIT

Files: dist/machines/
  dist/metrics/
  dist/networkmanager/
  dist/packagekit/
  dist/selinux/
  dist/shell/
  dist/storaged/
  dist/systemd/
Copyright: John-David Dalton
License: MIT

Files: dist/apps/
  dist/base1/
  dist/kdump/
  dist/machines/
  dist/metrics/
  dist/networkmanager/
  dist/packagekit/
  dist/playground/
  dist/selinux/
  dist/shell/
  dist/sosreport/
  dist/static/
  dist/storaged/
  dist/systemd/
  dist/tuned/
  dist/users/
Copyright: Tobias Koppers @sokra
License: MIT

License: LGPL-2.1
This package is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

On Debian systems, the complete text of the GNU Lesser General Public License can be found in "/usr/share/common-licenses/LGPL-2.1".

License: GPL-2+
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

On Debian systems, the complete text of the GNU General Public License can be found in "/usr/share/common-licenses/GPL-2".

License: LGPL-3.0-or-later
This package is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

This package is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

On Debian systems, the complete text of the GNU Lesser General Public License can be found in "/usr/share/common-licenses/LGPL-3".

License: BSD-3-clause
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* The names of contributors to this software may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: BSD-4-clause
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment:
   This product includes software developed by the University of California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: 0BSD
Permission to use, copy, modify, and/or distribute this software for any
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License: MIT/X11
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consortium.

License: MIT-IBM-immunity
International Business Machines, Inc. (hereinafter called IBM) grants permission under its copyrights to use, copy, modify, and distribute this Software with or without fee, provided that the above copyright notice and all paragraphs of this notice appear in all copies, and that the name of IBM not be used in connection with the marketing of any product incorporating the Software or modifications thereof, without specific, written prior permission.

To the extent it has a right to do so, IBM grants an immunity from suit under its patents, if any, for the use, sale or manufacture of products to the extent that such products are used for performing Domain Name System dynamic updates in TCP/IP networks by means of the Software. No immunity is granted for any product per se or for any other function of any product.

THE SOFTWARE IS PROVIDED "AS IS", AND IBM DISCLAIMS ALL WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL IBM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE, EVEN IF IBM IS APPRISED OF THE POSSIBILITY OF SUCH DAMAGES.

License: Apache-2.0
Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

License: MPL-2.0
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0.

On Debian systems, the complete text of the Mozilla Public License can be found in "/usr/share/common-licenses/MPL-2.0".

License: ISC
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

+[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

b) use the modified software only within your corporation or organization.

c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

   a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

   b) accompany the distribution with the machine-readable source of the software.

   c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
This Font Software is licensed under the SIL Open Font License, Version 1.1. This license is copied below, and is also available with a FAQ at: http://scripts.sil.org/OFL

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical
writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Font Software, to use, study, copy, merge, embed, modify,
redistribute, and sell modified and unmodified copies of the Font
Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components,
in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled,
redistributed and/or sold with any software, provided that each copy
contains the above copyright notice and this license. These can be
included either as stand-alone text files, human-readable headers or
in the appropriate machine-readable metadata fields within text or
binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font
Name(s) unless explicit written permission is granted by the corresponding
Copyright Holder. This restriction only applies to the primary font name as
presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font
Software shall not be used to promote, endorse or advertise any
Modified Version, except to acknowledge the contribution(s) of the
Copyright Holder(s) and the Author(s) or with their explicit written
permission.

5) The Font Software, modified or unmodified, in part or in whole,
must be distributed entirely under this license, and must not be
distributed under any other license. The requirement for fonts to
remain under this license does not apply to any document created
using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE
COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM
OTHER DEALINGS IN THE FONT SOFTWARE.
StartChar: copyright
Encoding: 169 169 102
GlfName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 510 508 541 494 c 1
526 452 l 1
499 462 473 466 450 466 c 0
371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 156 231 138 c 0
276 94 347 58 430 58 c 0
513 58 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
530 674 618 630 673 576 c 0
729 522 776 436 776 333 c 0
776 231 730 146 674 92 c 0
618 38 532 -7 430 -7 c 0
327 -7 242 38 186 92 c 0
130 146 83 230 83 333 c 0
83 435 129 521 185 575 c 0
240 629 327 674 428 674 c 0
EndSplineSet
Fore
SplineSet
70 344 m 3
70 561 215 706 432 706 c 3
648 706 792 560 792 344 c 3
792 134 645 -10 432 -10 c 3
216 -10 70 131 70 344 c 3
156 348 m 3
1.409 go-srpm-macos 2-17.el8

1.409.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and
change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS
0. Definitions.
“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.
To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.
All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.
No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.
You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program
has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature
extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a
volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright
are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit.
Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also
convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium),
accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software
interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium),
accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or
customer support for that product model, to give anyone who possesses the object code either (1) a copy of the
Corresponding Source for all the software in the product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no more than your reasonable cost of physically
performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no
charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source.
This alternative is allowed only occasionally and noncommercially, and only if you received the object code with
such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent
access to the Corresponding Source in the same way through the same place at no further charge. You need not
require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code
is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that
supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to
find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to
ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code
and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System
Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally
used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling.
In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a
particular product received by a particular user, “normally used” refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way in which the particular user actually uses, or
expects or is expected to use, the product. A product is a consumer product regardless of whether the product has
substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use
of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other
information required to install and execute modified versions of a covered work in that User Product from a
modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning
of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.
“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material
governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.
You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.
Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For
example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.
A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor’s “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to
infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.
Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.
The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.
THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL,
INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.
If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.
Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an “about box”.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24152
You should also get your employer (if you work as a programmer) or school, if any, to sign a “copyright disclaimer” for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/licenses/why-not-lgpl.html>.

1.410 keyutils 1.5.10 6.el8

1.410.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.411 perl-error 0.17025-2.el8
1.411.1 Available under license :
Terms of Perl itself

a) the GNU General Public License as published by the Free
   Software Foundation; either version 1, or (at your option) any
   later version, or
b) the "Artistic License"

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

-----------------------------------------------------------------------------
The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.
9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.412 dbus-glib 0.110 2.el8

1.412.1 Available under license:

The D-Bus glib bindings are licensed to you under your choice of the Academic Free License version 2.1, or the GNU General Public License version 2. Both licenses are included here. Some of the standalone binaries are under the GPL only; in particular, but not limited to, tests/decode-gcov.c. Each source code file is marked with the proper copyright information.

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license to do the following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original Work;

c) to distribute copies of the Original Work and Derivative Works to the public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.
3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately proceeding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is
expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--

END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses.
* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice, but the BSD, MIT and UoI/NCSA licenses do not.

--

START OF GNU GENERAL PUBLIC LICENSE
--

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term “modification”.) Each licensee is addressed as “you”.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
The D-Bus GLib main loop bindings are licensed to you under your choice
of the Academic Free License version 2.1, or the GNU General Public
License version 2. Both licenses are included here. Each source code
file is marked with the proper copyright information.

------------------------------------------------------------------------

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose
owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original
Work:
Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license to do the following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original Work;

c) to distribute copies of the Original Work and Derivative Works to the public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from
licensing under different terms from this License any Original Work
that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any
Derivative Works that You create, all copyright, patent or trademark
notices from the Source Code of the Original Work, as well as any
notices of licensing and any descriptive text identified therein as an
"Attribution Notice." You must cause the Source Code for any
Derivative Works that You create to carry a prominent Attribution
Notice reasonably calculated to inform recipients that You have
modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor
warrants that the copyright in and to the Original Work and the patent
rights granted herein by Licensor are owned by the Licensor or are
sublicensed to You under the terms of this License with the permission
of the contributor(s) of those copyrights and patent rights. Except as
expressly stated in the immediately proceeding sentence, the Original
Work is provided under this License on an "AS IS" BASIS and WITHOUT
WARRANTY, either express or implied, including, without limitation,
the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A
PARTicular PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL
WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential
part of this License. No license to Original Work is granted hereunder
except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal
theory, whether in tort (including negligence), contract, or
otherwise, shall the Licensor be liable to any person for any direct,
indirect, special, incidental, or consequential damages of any
character arising as a result of this License or the use of the
Original Work including, without limitation, damages for loss of
goodwill, work stoppage, computer failure or malfunction, or any and
all other commercial damages or losses. This limitation of liability
shall not apply to liability for death or personal injury resulting
from Licensor's negligence to the extent applicable law prohibits such
limitation. Some jurisdictions do not allow the exclusion or
limitation of incidental or consequential damages, so this exclusion
and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the
Original Work or a Derivative Work, You must make a reasonable effort
under the circumstances to obtain the express assent of recipients to
the terms of this License. Nothing else but this License (or another
written agreement between Licensor and You) grants You permission to
create Derivative Works based upon the Original Work or to exercise
any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--

END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses:

* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice.
but the BSD, MIT and UoI/NCSA licenses do not.

------------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

  c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.413 perl-xml-parser 2.44-11.el8

1.413.1 Available under license:

No license file was found, but licenses were detected in source scan.

# All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1155039107_1618918818.31/0/perl-XML-Parser-2.44-11.el8-1.src.rpm-cosi-expand-archive-6gBK1xm3/XML-Parser-2.44.tar.gz-cosi-expand-archive-CcUQf6ld/XML-Parser-2.44/samples/canonical
* /opt/cola/permits/1155039107_1618918818.31/0/perl-XML-Parser-2.44-11.el8-1.src.rpm-cosi-expand-archive-6gBK1xm3/XML-Parser-2.44.tar.gz-cosi-expand-archive-CcUQf6ld/XML-Parser-2.44/Parser.pm

No license file was found, but licenses were detected in source scan.

XML::Parser Version 2.40

Copyright (c) 1998-2000 Larry Wall and Clark Cooper.
All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This is a Perl extension interface to James Clark's XML parser, expat.
It requires at least version 5.004 of perl and it requires that you have release 1.95.0 or greater of expat installed. You can download expat from http://sourceforge.net/projects/expat/

Best way is to install expat development package with your OS package manager.
Debian/Ubuntu/similar: libexpat1-dev (old versions: expat-dev)

After that run `cpan XML::Parser`.

You can install this module from OS package too, but CPAN has most fresh version.
CentOS/RHEL/Fedora: perl-XML-Parser
Debian/Ubuntu/similar: should be already installed
XML::Parser installation requires gcc, so on MacOS X you need to download and run Xcode from Mac app store (~1.5 GB)

The documentation for this extension can be found in pod format at the end of the files Parser.pm and Expat/Expat.pm. The perldoc program, provided with the perl distribution, can be used to view this documentation.

This was modified from the original XML::Parser created by Larry Wall.

---------

To manually install this module, cd to the directory that contains this README file and type the following:

perl Makefile.PL

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl

Then to build you run make.

make

You can then test the module by typing:

make test

There are some sample utilities in the samples directory along with an xml form of the XML specification to test them on. You may need to change the '#!' line at the top of these utilities to what is appropriate for your system. If you're going to play around with them prior to installing the module, you would need to add the blib paths to your perl search path, like this (assuming your current directory is samples):

perl -I../blib/lib -I../blib/arch xmlcomments REC-xml-19980210.xml

or set your PERLLIB environment variable.

If you have write access to the installation directories, you may then install by typing:

make install

Discussion on features and bugs of this software and general discussion on topics relating to perl and XML takes place on the perl-xml mailing
list, to which you can subscribe by sending mail to:

subscribe-perl-xml@lyris.activestate.com

Differences from Version 2.30
=================================

Version 2.31 is a minor bugfix release to allow XML::Parser to work under the forthcoming Perl 5.8.0 release. There are no functional changes.

Differences from Version 2.29
=================================

Expat is no longer included with this package. It must now be already installed on your system as a library. You may download the library version of expat from http://sourceforge.net/projects/expat/. After downloading, expat must be configured (an automatic script does this), built and installed.

A workaround has been provided for those people who couldn't compile Expat.xs with a perl 5.6.0 with USE_5005THREADS on.

A bug that prevented IO::Handler from being read by the parse method has been fixed.

Fixed a bug in reading external entities with incremental parsing.

Clark Cooper
coopercc@netheaven.com

Found in path(s):
* /opt/cola/permits/1155039107_1618918818.31/0/perl-XML-Parser-2.44-11.el8-1.src.rpm-cosi-expand-archive-6gBK1xm3/XML-Parser-2.44.tar.gz-cosi-expand-archive-CcUQf6Id/XML-Parser-2.44/README
No license file was found, but licenses were detected in source scan.

/***************************************************************************/
/** encoding.h
**
/** Copyright 1998 Clark Cooper
** All rights reserved.
**
/** This program is free software; you can redistribute it and/or
** modify it under the same terms as Perl itself.
*/
--

abstract: 'A perl module for parsing XML documents'
author:
- 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
  Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: XML-Parser
no_index:
directory:
  - t
  - inc
requires:
  LWP::UserAgent: '0'
  perl: '5.00405'
resources:
  repository: http://github.com/toddr/XML-Parser
  version: '2.44'

---

# LWPExternEnt.pl
#
# Copyright (c) 2000 Clark Cooper
# All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.

package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;
##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##
sub lwp_ext_ent_handler {
my ($xp, $base, $sys) = @_; # We don't use public id
my $uri;
if (defined $base) {
# Base may have been set by parsefile, which is agnostic about
# whether its a file or URI.
my $base_uri = new URI($base);
unless (defined $base_uri->scheme) {
$base_uri = URI->new_abs($base_uri, URI::file->cwd);
}
$uri = URI->new_abs($sys, $base_uri);
}
else {
$uri = new URI($sys);
unless (defined $uri->scheme) {
$uri = URI->new_abs($uri, URI::file->cwd);
}
}
my $ua = $xp->{_lwpagent};
unless (defined $ua) {
$ua = $xp->{_lwpagent} = new LWP::UserAgent();
$ua->env_proxy();
}
my $req = new HTTP::Request('GET', $uri);
my $res = $ua->request($req);
if ($res->is_error) {
$xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
return undef;
}
$xp->{_BaseStack} ||= [];
push(@{$xp->{_BaseStack}}, $base);

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24206


$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
    my ($xp) = @_;

    $xp->base(pop @{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup

1;

Found in path(s):
* /opt/cola/permits/1155039107_1618918818.31/0/perl-XML-Parser-2.44-11.el8-1.src.rpm-cosi-expand-archive-6gBK1xm3/XML-Parser-2.44.tar.gz-cosi-expand-archive-CcUQf6Id/XML-Parser-2.44/Parser/LWPExternEnt.pl
No license file was found, but licenses were detected in source scan.

<![CDATA[<!ENTITY % pub "©ditions Gallimard" >
<!ENTITY   rights "All rights reserved" >
<!ENTITY   book "La Peste: Albert Camus, &rights; 1947 %pub;. &rights;" ]]>}

Found in path(s):
* /opt/cola/permits/1155039107_1618918818.31/0/perl-XML-Parser-2.44-11.el8-1.src.rpm-cosi-expand-archive-6gBK1xm3/XML-Parser-2.44.tar.gz-cosi-expand-archive-CcUQf6Id/XML-Parser-2.44/samples/REC-xml-19980210.xml
No license file was found, but licenses were detected in source scan.

/*******************************************************************************/
** Expat.xs
**
** Copyright 1998 Larry Wall and Clark Cooper
** All rights reserved.
**
** This program is free software; you can redistribute it and/or
** modify it under the same terms as Perl itself.
**
*/

Found in path(s):
* /opt/cola/permits/1155039107_1618918818.31/0/perl-XML-Parser-2.44-11.el8-1.src.rpm-cosi-expand-archive-6gBK1xm3/XML-Parser-2.44.tar.gz-cosi-expand-archive-CcUQf6Id/XML-Parser-2.44/Expat/Expat.xs
No license file was found, but licenses were detected in source scan.

License:      GPL+ or Artistic

Found in path(s):
1.414 libdb 5.3.28-40.el8

1.414.1 Available under license:

No license file was found, but licenses were detected in source scan.

"!DOCTYPE refentry PUBLIC "/OASIS//DTD DocBook V4.1//EN">
<!--
  Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
  Copyright (C) 2001  Internet Software Consortium.
  -
  - Permission to use, copy, modify, and distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
  -
  - THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
    REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
    AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
    INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
    LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
    OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
    PERFORMANCE OF THIS SOFTWARE.
-->

<!-- $Id: lwres_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
  <refentryinfo>
    <date>Oct 18, 2000</date>
  </refentryinfo>
  <refmeta>
    <refentrytitle>lwres_getrrsetbyname</refentrytitle>
    <manvolnum>3</manvolnum>
    <refmiscinfo>BIND9</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>lwres_getrrsetbyname</refname>
    <refname>lwres_freerrset</refname>
    <refpurpose>retrieve DNS records</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
  </refsynopsisdiv>
  <funcsynopsis>
    #include &lt;lwres/netdb.h&gt;
  </funcsynopsis>
</refentry>
The following structures are used:

```c
struct rdatainfo {
    unsigned int rdi_length; /* length of data */
    unsigned char *rdi_data;  /* record data */
};

struct rrsetinfo {
    unsigned int rri_flags;  /* RRSET_VALIDATED... */
    unsigned int rri_rdclass; /* class number */
    unsigned int rri_rdtype;  /* RR type number */
    unsigned int rri_ttl;     /* time to live */
    unsigned int rri_nrdatas; /* size of rdata array */
    unsigned int rri_nsigs;   /* size of sigs array */
    char *rri_name;           /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs; /* individual signatures */
};
```

The function `lwres_getrrsetbyname()` gets a set of resource records associated with a `hostname`,
<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter> is

a pointer to a null-terminated string. The

<parameter>flags</parameter> field is currently unused and must be zero.
</para>
</para>

After a successful call to

<function>lwres_getrsetbyname()</function>,

<parameter>*res</parameter> is a pointer to an

<type>rrsetinfo</type> structure, containing a list of one or more

<type>rdatainfo</type> structures containing resource records and potentially another list of

<type>rdatainfo</type> structures containing SIG resource records associated with those records.

The members

<constant>rr_i_rdcld</constant>

and

<constant>rr_i_rdtype</constant>

are copied from the parameters.

<constant>rr_i_ttl</constant>

and

<constant>rr_i_name</constant>

are properties of the obtained rset.

The resource records contained in

<constant>rr_i_rdatas</constant>

and

<constant>rr_i_sigs</constant>

are in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rr_i_flags</constant>

bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.
</para>
</para>

All of the information returned by

<function>lwres_getrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>
and<br>structures,<br>and the canonical host name strings pointed to by the<br><constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by a successful call to<br><function>lwres_getrrsetbyname()</function> is released by<br><function>lwres_freerrset()</function>.

<parameter>rrset</parameter> is a pointer to a<br><type>struct rrset</type> created by a call to<br><function>lwres_getrrsetbyname()</function>.

</para><para></para><para></para></refsect1><refsect1><title>RETURN VALUES</title><para><function>lwres_getrrsetbyname()</function> returns zero on success, and one of the following error codes if an error occurred:<br><variablelist><varlistentry><term><constant>ERRSET_NONAME</constant></term><listitem><para>the name does not exist</para></listitem></varlistentry><varlistentry><term><constant>ERRSET_NODATA</constant></term><listitem><para>the name exists, but does not have data of the desired type</para></listitem></varlistentry><varlistentry><term><constant>ERRSET_NOMEMORY</constant></term><listitem><para>memory could not be allocated</para></listitem></varlistentry><varlistentry><term><constant>ERRSET_INVAL</constant></term><listitem><para>a parameter is invalid</para></listitem></varlistentry></variablelist>
<para>other failure</para>
</varlistentry>
</listitem>
</varlistentry>
</listitem>
</listitem>
</para>
</refsect1>

<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.</para>
</refsect1>
</refentry>

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.docbook
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1999 by Internet Software Consortium, Inc.
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
*/
* Copyright (c) 1988, 1993
* The Regents of the University of California. All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

No license file was found, but licenses were detected in source scan.

"$Id: eventlib.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $

Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")

Permission to use, copy, modify, and distribute this software for any
Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* Purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
* /

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/eventlib.mdoc
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1997,1999 by Internet Software Consortium.
* Purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/bsd/utimes.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/memcluster.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/heap.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/list.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/cygwin/include/ansi_realloc.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/memcluster.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/assertions.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
*
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/tkey.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/rt_21.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/string.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/rdata.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/afsdb_18.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/db.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/print.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/px_26.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/xfrin.h
No license file was found, but licenses were detected in source scan.

"$Id: logging.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $"
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The following six UNCOMMENTED lines are required.
Os OPERATING_SYSTEM [version/release]
Dt DOCUMENT_TITLE [section number] [volume]
The following requests should be uncommented and
used where appropriate. This next request is
for sections 2 and 3 function return values only.
This next request is for sections 1, 6, 7 & 8 only
.Sh ENVIRONMENT
.Sh EXAMPLES
This next request is for sections 1, 6, 7 & 8 only
(command return values (to shell) and
fprintf/stdout type diagnostics)
.Sh DIAGNOSTICS
The next request is for sections 2 and 3 error
and signal handling only.
.Sh STANDARDS
.Sh HISTORY
.Sh BUGS

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/logging.mdoc
No license file was found, but licenses were detected in source scan.

Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
Copyright (C) 2001 Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

$Id: lwres_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gethostent.3
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Portions Copyright (c) 1996-1999 by Internet Software Consortium.
 * 
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * 
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/tree.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1996 by Internet Software Consortium.
 * 
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * 
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h
No license file was found, but licenses were detected in source scan.
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1987, 1993, 1994
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
   must display the following acknowledgement:
   This product includes software developed by the University of
   California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Found in path(s):
/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/gen-win32.h
No license file was found, but licenses were detected in source scan.

<!-- $Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>

<refentryinfo>
</refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>
<refentrytitle>lwres_resutil</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;</funcsynopsis>
</funcsynopsis>

<funcdef>
lwres_result_t

lwres_string_parse
</funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded
string starting the current pointer of lightweight resolver buffer
<parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the
encoded string is returned via <parameter>*c</parameter> and the
length of that string is given by <parameter>*len</parameter>. The
buffer's current pointer is advanced to point at the character
following the string length, the encoded string, and the trailing
<type>NULL</type> character.
</para>
lwres_addr_parse() extracts an address from the buffer b. The buffer's current pointer b->current is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to addr->address and addr->length indicates the size in bytes of the address that was copied. b->current is advanced to point at the next byte of available data in the buffer following the encoded address.

lwres_getaddrsbyname() and lwres_getnamebyaddr() use the lwres_gnbaresponse_t structure defined below:

```c
typedef struct {
 lwres_uint32_t          flags;
 lwres_uint16_t          naliases;
 lwres_uint16_t          naddrs;
 char                   *realname;
 char                  **aliases;
 lwres_uint16_t          realnamelen;
 lwres_uint16_t         *aliaslen;
 lwres_addrlist_t        addrs;
 void                   *base;
 size_t                  baselen;
} lwres_gabnresponse_t;
```

The contents of this structure are not manipulated directly but they are controlled through the lwres_gabn() functions.

The lightweight resolver uses lwres_getaddrsbyname() to perform forward lookups. Hostname name is looked up using the resolver context ctx for memory allocation.
<parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are <type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and <type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.

<para>

<function>lwres_getnamebyaddr()</function> performs reverse lookups. Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by <parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or <type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>.
</para>

<refsect1>
<title>RETURN VALUES</title>
<para>
Successful calls to <function>lwres_string_parse()</function> and <function>lwres_addr_parse()</function> return <errorcode>LWRES_R_SUCCESS.</errorcode> Both functions return <errorcode>LWRES_R_FAILURE</errorcode> if the buffer is corrupt or <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer has less space than expected for the components of the encoded string or address.
</para>

<para>
<function>lwres_getaddrsbyname()</function> returns <errorcode>LWRES_R_SUCCESS</errorcode> on success and it returns <errorcode>LWRES_R_NOTFOUND</errorcode> if the hostname <parameter>name</parameter> could not be found.
</para>

<errorcode>LWRES_R_SUCCESS</errorcode> is returned by a successful call to
Both \texttt{lwres\_getaddrsbyname()} and \texttt{lwres\_getnamebyaddr()} return \texttt{LWRES\_R\_NOMEMORY} when memory allocation requests fail and \texttt{LWRES\_R\_UNEXPECTEDEND} if the buffers used for sending queries and receiving replies are too small.

\section*{SEE ALSO}

\begin{itemize}
  \item \texttt{lwres\_buffer}\texttt{(3)}
  \item \texttt{lwres\_gabn}\texttt{(3)}
\end{itemize}

Found in path(s):

* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_resutil.docbook

No license file was found, but licenses were detected in source scan.

\vspace{1cm}

\textcopyright\ 2004 Internet Systems Consortium, Inc. ("ISC")
\textcopyright\ 2000, 2001 Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

\textcopyright\ THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE...
/* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 */ PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (C) 2001-2003  Internet Software Consortium.
* Portions Copyright (C) 2001  Nominum, Inc.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NOMINUM DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.3
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1998-2003  Internet Software Consortium.
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
*/
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/lex.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/gen.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdata.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/result.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/sockaddr.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rcode.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/task.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/name.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/socket.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/result.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/name.c

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000-2002  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */
/*
 * Portions Copyright (c) 1987, 1993
 * The Regents of the University of California. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 */
* This product includes software developed by the University of
  California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/file.c

No license file was found, but licenses were detected in source scan.

`" Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
`" Copyright (C) 2000, 2001  Internet Software Consortium.
`"
`" Permission to use, copy, modify, and distribute this software for any
`" purpose with or without fee is hereby granted, provided that the above
`" copyright notice and this permission notice appear in all copies.
`"
`" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
`" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
`" AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
`" INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
`" LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
`" OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
`" PERFORMANCE OF THIS SOFTWARE.
`"
`" $Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
`"

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_resutil.3

No license file was found, but licenses were detected in source scan.

`/

* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1999 by Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

**Found in path(s):**
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_debug.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_findzonecut.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/irp.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/nameset/ns_date.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/irpmarshall.h

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1991, 1993
 * The Regents of the University of California. All rights reserved.
 *
 * This code is derived from software contributed to Berkeley by
 * Berkeley Software Design, Inc.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 * This product includes software developed by the University of
 * California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES,
 * INCLUDING, BUT NOT LIMITED TO, THE
The `lwres_getaddrinfo` function is used to obtain a list of address structures that match a given host and service name.

```c
int lwres_getaddrinfo(const char *hostname, const char *servname, const struct addrinfo *hints, struct addrinfo **res);
```

The `lwres_freeaddrinfo` function is used to free the address structures obtained by `lwres_getaddrinfo`.

```c
void lwres_freeaddrinfo(struct addrinfo *ai);
```

If the operating system does not provide a `struct addrinfo`, the following structure is used:

```c
struct addrinfo {
    int ai_flags; /* AI_PASSIVE, AI_CANONNAME */
    int ai_family; /* PF_xxx */
    int ai_socktype; /* SOCK_xxx */
    int ai_protocol; /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t ai_addrlen; /* length of ai_addr */
    char *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
```
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_getaddrinfo()</function>
is used to get a list of IP addresses and port numbers for host
<parameter>hostname</parameter>
and service
<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of
<function>getaddrinfo()</function>
as defined in RFC2133.
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are pointers to null-terminated
strings or
<type>NULL</type>.

<parameter>hostname</parameter>
is either a host name or a numeric host address string: a dotted decimal
IPv4 address or an IPv6 address.
<parameter>servname</parameter>
is either a decimal port number or a service name as listed in
<filename>/etc/services</filename>.
</para>

<para>
<parameter>hints</parameter>
is an optional pointer to a
<type>struct addrinfo</type>.
This structure can be used to provide hints concerning the type of socket
that the caller supports or wishes to use.
The caller can supply the following structure elements in
<parameter>*hints</parameter>:

<variablelist>
<varlistentry><term><constant>ai_family</constant></term>
<liplistem>
<para>The protocol family that should be used.
When
<constant>ai_family</constant>
is set to
<type>PF_UNSPEC</type>,
it means the caller will accept any protocol family supported by the
operating system.
</para></liplistem></varlistentry>
<varlistentry><term><constant>ai_socktype</constant></term>
<liplistem>
</varlistentry>
</variablelist>
denotes the type of socket — SOCK_STREAM, SOCK_DGRAM or SOCK_RAW — that is wanted. When ai_socktype is zero the caller will accept any socket type.

When ai_socktype is zero the caller will accept any socket type. When ai_socktype is zero the caller will accept any socket type.

indicates which transport protocol is wanted: IPPROTO_UDP or IPPROTO_TCP. If ai_protocol is zero the caller will accept any protocol. If ai_protocol is zero the caller will accept any protocol.

Flag bits. If the AI_CANONNAME bit is set, a successful call to lwres_getaddrinfo() will return a null-terminated string containing the canonical name of the specified hostname in the first addrinfo structure returned. Setting the AI_PASSIVE bit indicates that the returned socket address structure is intended for use in a call to bind.

In this case, if the hostname argument is a
pointer, then the IP address portion of the socket address structure will be set to
<type>INADDR_ANY</type> for an IPv4 address or
<type>IN6ADDR_ANY_INIT</type> for an IPv6 address.
</para>
<para>
When
<constant>ai_flags</constant>
do not set the
<type>AI_PASSIVE</type> bit, the returned socket address structure will be ready for use in a call to
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</cite>
for a connection-oriented protocol or
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>,
<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>,
<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</cite>
if a connectionless protocol was chosen.
The IP address portion of the socket address structure will be set to the loopback address if
<parameter>hostname</parameter> is a
<type>NULL</type> pointer and
<type>AI_PASSIVE</type> is not set in
<constant>ai_flags</constant>.
</para>
<para>
If
<constant>ai_flags</constant> is set to
it indicates that <parameter>hostname</parameter> should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai_family</constant> set to <constant>PF_UNSPEC</constant>.

After a successful call to <function>lwres_getaddrinfo()</function>, <parameter>*res</parameter> is a pointer to a linked list of one or more <type>addrinfo</type> structures. Each <type>struct addrinfo</type> in this list can be processed by following the <constant>ai_next</constant> pointer, until a <type>NULL</type> pointer is encountered. The three members <constant>ai_family</constant>, <constant>ai_socktype</constant>, and <constant>ai_protocol</constant> in each returned <type>addrinfo</type> structure contain the corresponding arguments for a call to
For each `addrinfo` structure in the list, the `ai_addr` member points to a filled-in socket address structure of length `ai_addrlen`.

All of the information returned by `lwres_getaddrinfo()` is dynamically allocated: the `addrinfo` structures, and the socket address structures and canonical host name strings pointed to by the `addrinfo` structures. Memory allocated for the dynamically allocated structures created by a successful call to `lwres_getaddrinfo()` is released by `lwres_freeaddrinfo()`.

`ai` is a pointer to a `struct addrinfo` created by a call to `lwres_getaddrinfo()`.

`lwres_getaddrinfo()` returns zero on success or one of the error codes listed in `gai_strerror()` if an error occurs. If both `hostname` and `servname` are `NULL` `lwres_getaddrinfo()` returns
<errorcode>EAI_NONAME</errorcode>.

</para>
</refsect1>

<title>SEE ALSO</title>

<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>,
<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2003  Internet Software Consortium.
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1985, 1993
 * The Regents of the University of California. All rights reserved.
 */
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/bsd/strpbrk.c

No license file was found, but licenses were detected in source scan.

<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<!--
- Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
- Copyright (C) 2001, 2003  Internet Software Consortium.
- Permission to use, copy, modify, and distribute this software for any
- purpose with or without fee is hereby granted, provided that the above
- copyright notice and this permission notice appear in all copies.
- THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
- REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
- AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
- INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
- LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
-->

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24238
<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_getipnode</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_getipnodebyname</refname>
<refname>lwres_getipnodebyaddr</refname>
<refname>lwres_freehostent</refname>
<refpurpose>lightweight resolver nodename / address translation API</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;
</funcsynopsisinfo>
<funcprototype>
struct hostent *

<function>lwres_getipnodebyname</function>

<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
struct hostent *

<function>lwres_getipnodebyaddr</function>

<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct  hostent {
    char    *h_name;        /* official name of host */
    char    **h_aliases;    /* alias list */
    int     h_addrtype;     /* host address type */
    int     h_length;       /* length of address */
    char    **h_addr_list;  /* list of addresses from name server */
};
#define h_addr  h_addr_list[0]  /* address, for backward compatibility */
</programlisting>
</para>

<para>
The members of this structure are:
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
</listitem>
</varlistentry>
<para>
The official (canonical) name of the host.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_aliases</constant></term>
</listitem>
</varlistentry>
<para>
A NULL-terminated array of alternate names (nicknames) for the host.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_addrtype</constant></term>
</listitem>
</varlistentry>
The type of address being returned - usually
\texttt{PF_INET} or \texttt{PF_INET6}.

The length of the address in bytes.

A \texttt{NULL} terminated array of network addresses for the host. Host addresses are returned in network byte order.

for the hostname

The \texttt{flags} parameter contains ORed flag bits to specify the types of addresses that are searched for, and the types of addresses that are returned. The flag bits are:

This is used with an \texttt{af} of \texttt{AF_INET6}, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.
This is used with an
<parameter>af</parameter>
of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.
If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped
IPv6 addresses.

Only return an IPv6 or IPv4 address if there is an active network
interface of that type. This is not currently implemented
in the BIND 9 lightweight resolver, and the flag is ignored.
This default sets the
<constant>AI_V4MAPPED</constant>
and
<constant>AI_ADDRCONFIG</constant>
flag bits.

<function>lwres_getipnodebyaddr()</function>
performs a reverse lookup
of address
<parameter>src</parameter>
which is
<parameter>len</parameter>
bytes long.
<parameter>af</parameter>
denotes the protocol family, typically
<type>PF_INET</type>
or
<type>PF_INET6</type>.
<function>lwres_freehostent()</function> releases all the memory associated with the <type>struct hostent</type> pointer <parameter>he</parameter>.

Any memory allocated for the <constant>h_name</constant>, <constant>h_addr_list</constant> and <constant>h_aliases</constant> is freed, as is the memory for the <type>hostent</type> structure itself.

If an error occurs, <function>lwres_getipnodebyname()</function> and <function>lwres_getipnodebyaddr()</function> set <parameter>*error_num</parameter> to an appropriate error code and the function returns a <type>NULL</type> pointer. The error codes and their meanings are defined in <filename>&lt;lwres/netdb.h&gt;</filename>:

<varlistentry><term><constant>HOST_NOT_FOUND</constant></term><listitem><para>No such host is known.</para></listitem></varlistentry>
<varlistentry><term><constant>NO_ADDRESS</constant></term><listitem><para>The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.</para></listitem></varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.

An unexpected failure occurred, and retrying the request is pointless.

translates these error codes to suitable error messages.
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getipnode.docbook
No license file was found, but licenses were detected in source scan.

- Permission to use, copy, modify, and distribute this software for any
- purpose with or without fee is hereby granted, provided that the above
- copyright notice and this permission notice appear in all copies.

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gnba.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gnba.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getipnode.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_hstrerror.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_noop.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwresPacket.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_buffer.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getipnode.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_noop.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_packet.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gai_strerror.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gai_strerror.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_inetntop.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_resutil.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_buffer.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_config.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_packet.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_context.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gabn.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getrsetbyhostname.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.html
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_inetntop.html

No license file was found, but licenses were detected in source scan.

" Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
" Copyright (C) 2000, 2001 Internet Software Consortium.
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
"copyright notice and this permission notice appear in all copies.

"THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THIS SOFTWARE.

"$Id: lwres_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getnameinfo.3
No license file was found, but licenses were detected in source scan.

<!-- $Id: lwres_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<!--
- Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
- Copyright (C) 2001  Internet Software Consortium.
-
- Permission to use, copy, modify, and distribute this software for any
- purpose with or without fee is hereby granted, provided that the above
- copyright notice and this permission notice appear in all copies.
-
- THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
- REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
- AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
- INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
- LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
- OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
- PERFORMANCE OF THIS SOFTWARE.
-->

<!-- $Id: lwres_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refentryinfo>
<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsis>

<funcprototype>
void
<function>lwres_conf_init</function>
<paramdef>lwres_context_t *ctx</paramdef>

void
<function>lwres_conf_clear</function>
<paramdef>lwres_context_t *ctx</paramdef>

lwres_result_t
<function>lwres_conf_parse</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>

lwres_result_t
<function>lwres_conf_print</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>

lwres_conf_t *
<function>lwres_conf_get</function>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function>
frees up all the internal memory used by
that
<type>lwres_conf_t</type>
structure in resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function>
opens the file
<parameter>filename</parameter>
and parses it to initialise the resolver context
<parameter>ctx</parameter>’s
<type>lwres_conf_t</type>
structure.
</para>
<para>
<function>lwres_conf_print()</function>
prints the
<type>lwres_conf_t</type>
structure for resolver context
<parameter>ctx</parameter>
to the
<type>FILE</type>
<parameter>fp</parameter>.
</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_conf_parse()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
if it successfully read and parsed
<parameter>filename</parameter>.
It returns
<errorcode>LWRES_R_FAILURE</errorcode>
if
<parameter>filename</parameter>
could not be opened or contained incorrect resolver statements.
</para>
<para>
<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</para>
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_config.docbook
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000, 2001  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.

```
*/
```

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/md5.c

No license file was found, but licenses were detected in source scan.

```
/*
 * Portions Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */
```

```
/*
 * Copyright (c) 1983, 1990, 1993
 * The Regents of the University of California.  All rights reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
```
Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by the University of California, Berkeley and its contributors.

Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Found in path(s):

/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwinetaton.c
No license file was found, but licenses were detected in source scan.

```
" Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
" Copyright (C) 2000, 2001  Internet Software Consortium.
"
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
"
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
" AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
" INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
" LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
" OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
" PERFORMANCE OF THIS SOFTWARE.
"
" $Id: lwres_gabn.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gabn.3
No license file was found, but licenses were detected in source scan.
```

<!DOCTYPE refentry PUBLIC "-/OASIS//DTD DocBook V4.1//EN">
<!-- $Id: lwres_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
</refentry>
<refentryinfo>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_gethostent</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_gethostbyname</refname>
<refname>lwres_gethostbyname2</refname>
<refname>lwres_gethostbyaddr</refname>
<refname>lwres_gethostent</refname>
<refname>lwres_sethostent</refname>
<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;
</funcsynopsis>

<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function>
<paramdef>const char *name</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname2</function>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>

</funcprototype>
</funcdef>
</funcprototype>
</funcprototype>
</funcprototype>
</funcdef>
</funcprototype>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard \textit{gethostent} functions provided by most operating systems. They use a \textit{struct hostent} which is usually defined in \texttt{<namedb.h>}. The members of this structure are:

\begin{verbatim}
struct hostent {
    char *h_name;  /* official name of host */
    char **h_aliases;  /* alias list */
    int h_addrtype;  /* host address type */
    int h_length;  /* length of address */
    char **h_addr_list;  /* list of addresses from name server */
};
#define h_addr h_addr_list[0]  /* address, for backward compatibility */
\end{verbatim}

The official (canonical) name of the host.
A NULL-terminated array of alternate names (nicknames) for the host.

The type of address being returned — `PF_INET` or `PF_INET6`.

The length of the address in bytes.

A `NULL` terminated array of network addresses for the host. Host addresses are returned in network byte order.

For backward compatibility with very old software, `lwres_gethostent()`, `lwres_sethostent()`, `lwres_endhostent()`, `lwres_gethostent_r()`, `lwres_sethostent_r()` and `lwres_endhostent_r()` provide iteration over the known host entries on systems that
provide such functionality through facilities like 
<filename>/etc/hosts</filename>
or NIS. The lightweight resolver does not currently implement 
these functions; it only provides them as stub functions that always 
return failure.
</para>

<para>
<function>lwres_gethostbyname()</function> and 
<function>lwres_gethostbyname2()</function> look up the hostname 
<parameter>name</parameter>. 
<function>lwres_gethostbyname()</function> always looks for an IPv4 
address while <function>lwres_gethostbyname2()</function> looks for an 
address of protocol family <parameter>af</parameter>: either 
<type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPv6 
addresses respectively. Successful calls of the functions return a 
<type>struct hostent</type> for the name that was looked up. 
<type>NULL</type> is returned if the lookups by 
<function>lwres_gethostbyname()</function> or 
<function>lwres_gethostbyname2()</function> fail.
</para>

<para>
Reverse lookups of addresses are performed by 
<function>lwres_gethostbyaddr()</function>. 
<parameter>addr</parameter> is an address of length 
<parameter>len</parameter> bytes and protocol family 
<parameter>type</parameter> &mdash; <type>PF_INET</type> or 
<type>PF_INET6</type>. 
<function>lwres_gethostbyname_r()</function> is a thread-safe function 
for forward lookups. If an error occurs, an error code is returned in 
<parameter>*error</parameter>. 
<parameter>resbuf</parameter> is a pointer to a <type>struct 
hostent</type> which is initialised by a successful call to 
<function>lwres_gethostbyname_r()</function>. 
<parameter>buf</parameter> is a buffer of length 
<parameter>len</parameter> bytes which is used to store the 
<constant>h_name</constant>, <constant>h_aliases</constant>, and 
<constant>h_addr_list</constant> elements of the <type>struct 
hostent</type> returned in <parameter>resbuf</parameter>. 
Successful calls to <function>lwres_gethostbyname_r()</function> 
return <parameter>resbuf</parameter>, 
which is a pointer to the <type>struct hostent</type> it created.
</para>

<para>
<function>lwres_gethostbyaddr_r()</function> is a thread-safe function 
that performs a reverse lookup of address <parameter>addr</parameter>
which is \texttt{len} bytes long and is of protocol family \texttt{PF_INET} or \texttt{PF_INET6}. If an error occurs, the error code is returned in \texttt{error}. The other function parameters are identical to those in \texttt{lwres_gethostbyname_r()}. \texttt{resbuf} is a pointer to a \texttt{struct hostent} which is initialised by a successful call to \texttt{lwres_gethostbyaddr_r()}. \texttt{buf} is a buffer of length \texttt{len} bytes which is used to store the \texttt{h_name}, \texttt{h_aliases}, and \texttt{h_addr_list} elements of the \texttt{struct hostent} returned in \texttt{resbuf}. Successful calls to \texttt{lwres_gethostbyaddr_r()} return \texttt{resbuf}, which is a pointer to the \texttt{struct hostent} it created.

\textbf{RETURN VALUES}

The functions \texttt{lwres_gethostbyname()}, \texttt{lwres_gethostbyname2()}, \texttt{lwres_gethostbyaddr()}, and \texttt{lwres_gethostent()} return NULL to indicate an error. In this case the global variable \texttt{lwres_h_errno} will contain one of the following error codes defined in \texttt{lwres/netdb.h}:

\begin{variablelist}
\begin{varlistentry}
\term{HOST_NOT_FOUND}\par
The host or address was not found.
\end{varlistentry}
\begin{varlistentry}
\term{TRY_AGAIN}\par
A recoverable error occurred, e.g., a timeout. Retrying the lookup may succeed.
\end{varlistentry}
\end{variablelist}
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</varlistentry>

A non-recoverable error occurred.
</para>
</listitem></varlistentry>

<varlistentry><term><constant>NO_DATA</constant></term>
</varlistentry>

The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.
</para>
</listitem></varlistentry>
</variablelist>

<para>
<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
translates these error codes to suitable error messages.
</para>

<para>
<function>lwres_gethostent()</function> and <function>lwres_gethostent_r()</function> always return <type>NULL</type>.
</para>

<para>
Successful calls to <function>lwres_gethostbyname_r()</function> and <function>lwres_gethostbyaddr_r()</function> return <parameter>resbuf</parameter>, a pointer to the <type>struct hostent</type> that was initialised by these functions. They return <type>NULL</type> if the lookups fail or if <parameter>buf</parameter> was too small to hold the list of addresses and names referenced by the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type>. If <parameter>buf</parameter> was too small, both <function>lwres_gethostbyname_r()</function> and <function>lwres_gethostbyaddr_r()</function> set the global variable <type>errno</type> to <errorcode>ERANGE</errorcode>. 
SEE ALSO

gethostent(), lwres_getipnode(), lwres_hstrerror()

BUGS

lwres_gethostbyname(), lwres_gethostbyname2(), lwres_gethostbyaddr()
and lwres_endhostent() are not thread safe; they return pointers to static data and provide error codes through a global variable. Thread-safe versions for name and address lookup are provided by lwres_gethostbyname_r() and lwres_gethostbyaddr_r() respectively.

The resolver daemon does not currently support any non-DNS name services such as /etc/hosts or NIS, consequently the above functions don't, either.
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gethostent.docbook
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1998-2001 Internet Software Consortium.
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mb_7.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/cond/condition.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/time.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/include/isc/thread.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/win32/condition.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/win32/version.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mr_9.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2001, 2002 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/parseint.h
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1987, 1993
 * The Regents of the University of California. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    This product includes software developed by the University of
 *    California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Portions Copyright (c) 1996-1999 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/herror.c
No license file was found, but licenses were detected in source scan.

/*
* Portions Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

/*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the project nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS `´AS IS´ AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24264
/*
/* Copyright (c) 1987, 1993
/* The Regents of the University of California. All rights reserved.
/*
/* Redistribution and use in source and binary forms, with or without
/* modification, are permitted provided that the following conditions
/* are met:
/* 1. Redistributions of source code must retain the above copyright
/* notice, this list of conditions and the following disclaimer.
/* 2. Redistributions in binary form must reproduce the above copyright
/* notice, this list of conditions and the following disclaimer in the
/* documentation and/or other materials provided with the distribution.
/* 3. All advertising materials mentioning features or use of this software
/* must display the following acknowledgement:
/* This product includes software developed by the University of
/* California, Berkeley and its contributors.
/* 4. Neither the name of the University nor the names of its contributors
/* may be used to endorse or promote products derived from this software
/* without specific prior written permission.
/*
/* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
/* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
/* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
/* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
/* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
/* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
/* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
/* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
/* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
/* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
/* SUCH DAMAGE.
/* /

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/herror.c
No license file was found, but licenses were detected in source scan.

"$Id: bitncmp.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
" Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
" Copyright (c) 1996,1999 by Internet Software Consortium.
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
"WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

*/

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_pr.c
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_pw.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1996 by Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_pr.c
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_pw.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1995-1999 by Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/inet/inet_data.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/resolv/res_data.c
No license file was found, but licenses were detected in source scan.

<!-- $Id: lwres_context.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
  <refentryinfo>
    <manvolnum>3</manvolnum>
    </refentryinfo>
    </refentry
#include <lwres/lwres.h>

lwres_result_t
lwres_context_create(lwres_context_t **contextp, void *arg, lwres_malloc_t malloc_function, lwres_free_t free_function);

lwres_result_t
lwres_context_destroy(lwres_context_t **contextp);

void
lwres_context_initserial(lwres_context_t *ctx, lwres_uint32_t serial);

lwres_uint32_t
lwres_context_nextserial(lwres_context_t *ctx);

void
lwres_context_freemem(lwres_context_t *ctx, void *mem, size_t len);

void
lwres_context_allocmem(lwres_context_t *ctx, size_t len);
void *
<function>lwres_context_sendrecv</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function> creates a  
<type>lwres_context_t</type> structure for use in lightweight resolver operations. It holds a socket and other data needed for communicating with a resolver daemon. The new  
<type>lwres_context_t</type> is returned through  
<parameter>contextp</parameter>, a pointer to a  
<type>lwres_context_t</type> pointer. This  
<type>lwres_context_t</type> pointer must initially be NULL, and is modified to point to the newly created  
<type>lwres_context_t</type>.
</para>
<para>
When the lightweight resolver needs to perform dynamic memory allocation, it will call  
<parameter>malloc_function</parameter> to allocate memory and  
<parameter>free_function</parameter> to free it. If  
<parameter>malloc_function</parameter> and  
<parameter>free_function</parameter> are NULL, memory is allocated using
It is not permitted to have a NULL <parameter>malloc_function</parameter>
and a non-NULL <parameter>free_function</parameter>
or vice versa. <parameter>arg</parameter>
is passed as the first parameter to the memory allocation functions.
If <parameter>malloc_function</parameter>
and <parameter>free_function</parameter>
are NULL, <parameter>arg</parameter>
is unused and should be passed as NULL.

Once memory for the structure has been allocated, it is initialized using
<parameter>*</parameter><type>lwres_context_t</type>,
and returned via <parameter>*contextp</parameter>.

<function>lwres_context_destroy()</function> destroys a <type>lwres_context_t</type>,
closing its socket. <parameter>contextp</parameter>
is a pointer to a pointer to the context that is to be destroyed. The pointer will be set to NULL when the context has been destroyed.

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests. This serial number is controlled using
<function>lwres_context_initserial()</function> and <function>lwres_context_nextserial()</function>. <function>lwres_context_initserial()</function> sets the serial number for context <parameter>*ctx</parameter> to <parameter>serial</parameter>.<function>lwres_context_nextserial()</function> increments the serial number and returns the previous value.

Memory for a lightweight resolver context is allocated and freed using <function>lwres_context_allocmem()</function> and <function>lwres_context_freemem()</function>. These use whatever allocations were defined when the context was created with <function>lwres_context_create()</function>. <function>lwres_context_allocmem()</function> allocates <parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage. <function>lwres_context_freemem()</function> frees <parameter>len</parameter> bytes of space starting at location <parameter>mem</parameter>.

<function>lwres_context_sendrecv()</function> performs I/O for the context <parameter>ctx</parameter>.

Data are read and written from the context's socket. It writes data from <parameter>sendbase</parameter> &mdash; typically a lightweight resolver query packet &mdash; and waits for a reply which is copied to the receive buffer at <parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in <parameter>*recvd_len</parameter>.
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_context_create()</function> returns
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the
<type>struct lwres_context</type> could not be allocated,
<errorcode>LWRES_R_SUCCESS</errorcode> otherwise.
</para>
<para>
Successful calls to the memory allocator
<function>lwres_context_allocmem()</function> return a pointer to the start of the allocated space. It returns NULL if memory could not be allocated.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned when
<function>lwres_context_sendrecv()</function> completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode> is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode> is returned if
<function>lwres_context_sendrecv()</function> times out waiting for a response.
</para>
</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
* Copyright (C) 2000-2002 Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/
/*
* Get the response to 'request' by filling in 'message'.
*
* 'options' is passed to dns_message_parse(). See dns_message_parse()
* for more details.
*
* Requires:
*
* 'request' is a valid request for which the caller has received the
* completion event.
*
The result code of the completion event was ISC_R_SUCCESS.
*
* Returns:
*
*ISC_R_SUCCESS
*
*Any result that dns_message_parse() can return.
*/

No license file was found, but licenses were detected in source scan.

/*
* Portions Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (C) 1999-2003 Internet Software Consortium.
* Portions Copyright (C) 1995-2000 by Network Associates, Inc.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/openssl_link.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/dst_api.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000, 2001  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/ondestroy.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/keytable.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/stats.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

/*
 * SHA-1 in C
 * By Steve Reid <steve@edmweb.com>
 * 100% Public Domain
 *
 * Test Vectors (from FIPS PUB 180-1)
 * "abc"
 * A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
 * "abcdcedefefghifghijhijklijlmlmnmnopnop0q" 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
 * A million repetitions of "a" 34AA973C D4C4DAA4 F61E6B2B DBAD2731 6534016F
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1999-2003  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */
/*
 * We're going to become the least open
 * version.
 */

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rbtdb.c

No license file was found, but licenses were detected in source scan.

" $Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
"
" Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
" Copyright (c) 1995-1999 by Internet Software Consortium
"
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
"
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
" WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
" MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
" ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
" WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
" ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
" OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
"
" The following six UNCOMMENTED lines are required.
" Os OPERATING_SYSTEM [version/release]
" Dt DOCUMENT_TITLE [section number] [volume]
" This next request is for sections 1, 6, 7 & 8 only
This next request is for sections 1, 6, 7 & 8 only
(command return values (to shell) and
fprintf(stderr type diagnostics)

The next request is for sections 2 and 3 error
and signal handling only.

STANDARDS
HISTORY
BUGS

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/memcluster.mdoc
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2003 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

"UH Universal Hashing Library"

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
with the distribution.

* Neither the name of Rice University (RICE) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is" basis, without any representations or warranties of any kind, express or implied including, but not limited to, representations or warranties of non-infringement, merchantability or fitness for a particular purpose. In no event shall RICE or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/hash.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1997-1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/assertions.h
No license file was found, but licenses were detected in source scan.

# Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
# Copyright (C) 2001  Internet Software Consortium.
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $

Search for machine-generated header files in the build tree, and for normal headers in the source tree (${top_srcdir}). We only need to look in OS-specific subdirectories for the latter case, because there are no machine-generated OS-specific headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/isc \
   -I${top_srcdir}/lib/isc/include \
   -I${top_srcdir}/lib/isc/unix/include \
   -I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/dns/include \
   -I${top_srcdir}/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/lwres/include

TEST_INCLUDES = \
   -I${top_srcdir}/lib/tests/include

Found in path(s):
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/make/includes.in
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 2001-2003 Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/check.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/parseint.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/syslog.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 2003 Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

/*
* Copyright (c) 1990, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer.
*/
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/strtoul.c
No license file was found, but licenses were detected in source scan.

; Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
; Copyright (C) 2001 Internet Software Consortium.
;
; Permission to use, copy, modify, and distribute this software for any
; purpose with or without fee is hereby granted, provided that the above
; copyright notice and this permission notice appear in all copies.
;
; THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
; REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
; AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
; INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
; LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
; OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
; PERFORMANCE OF THIS SOFTWARE.

; $Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp $

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)
OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1
.

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1
.

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
%1
.

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/bindevt/bindevt.mc

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2002  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */
No license file was found, but licenses were detected in source scan.

\" Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
\" Copyright (C) 2000, 2001  Internet Software Consortium.
\"
\" Permission to use, copy, modify, and distribute this software for any
\" purpose with or without fee is hereby granted, provided that the above
\" copyright notice and this permission notice appear in all copies.
\"
\" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
\" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
\" AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
\" INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
\" LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
\" OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
\" PERFORMANCE OF THIS SOFTWARE.
\"
\$Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1997-2001 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/assertions.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/assertions.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/heap.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/mem.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/heap.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/list.h

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 1996-2001  Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwinetpton.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/symtab.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/inet_ntop.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/symtab.h

No license file was found, but licenses were detected in source scan.

/*
* Portions Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (C) 2001  Internet Software Consortium.
* Portions Copyright (C) 2001  Nominum, Inc.
*
* Permission to use, copy, modify, and distribute this software for any
  * purpose with or without fee is hereby granted, provided that the above
  * copyright notice and this permission notice appear in all copies.
  *
  * THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NOMINUM DISCLAIMS ALL
  * WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
  * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY
  * SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
  * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
  * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
  * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
  */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/cc.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/types.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/base64.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/base64.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/alist.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/util.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/events.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/lib.c
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/ccmsg.c
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/lib.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/seexpr.c
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/alist.c
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/symtype.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/symtab.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/seexpr.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/ccmsg.h
* /opt/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/symtab.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* 
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* 
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/rwlock.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/rwlock.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/result.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/base64.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1996-1999 by Internet Software Consortium.
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

/*
 * Portions Copyright (c) 1995 by International Business Machines, Inc.
 * International Business Machines, Inc. (hereinafter called IBM) grants
 * permission under its copyrights to use, copy, modify, and distribute this
 * Software with or without fee, provided that the above copyright notice and
 * all paragraphs of this notice appear in all copies, and that the name of IBM
 * not be used in connection with the marketing of any product incorporating
 * the Software or modifications thereof, without specific, written prior
 * permission.
 * To the extent it has a right to do so, IBM grants an immunity from suit
 * under its patents, if any, for the use, sale or manufacture of products to
 * the extent that such products are used for performing Domain Name System
 * dynamic updates in TCP/IP networks by means of the Software. No immunity is
 * granted for any product per se or for any other function of any product.
 * THE SOFTWARE IS PROVIDED "AS IS", AND IBM DISCLAIMS ALL WARRANTIES,
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1998,1999 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1996, 1998 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24292
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_ng.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp.c

No license file was found, but licenses were detected in source scan.

*/
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by WIDE Project and
* its contributors.
* 4. Neither the name of the project nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnameinfo.c

No license file was found, but licenses were detected in source scan.

/*
* Portions Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (C) 2001, 2003 Internet Software Consortium.
* Portions Copyright (C) 2001 Nominum, Inc.
* Permission to use, copy, modify, and distribute this software for any
  purpose with or without fee is hereby granted, provided that the above
  copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NOMINUM DISCLAIMS ALL
  WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
  OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY
  SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
  WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
  ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
  OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/result.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/result.h
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1996-1999 by Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
  purpose with or without fee is hereby granted, provided that the above
  copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
  WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
  MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
  ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
  WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
  ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
  OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/nsap_addr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/ntop.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/lcl_ng.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/dns.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/dns_gr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/irs/ntop.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/lcl_ng.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/dns_gr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/irs/ntop.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/irs/irs/ntop.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/resolv/res_update.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/getgrent.c

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24294
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000, 2001  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

#ifndef LWRES_PLATFORM_H
#define LWRES_PLATFORM_H 1

*****
***** Platform-dependent defines.
*****/

/***
 *** Network.
 ***/

/*
 * Define if this system needs the <netinet/in6.h> header file for IPv6.
 */

#ifndef LWRES_PLATFORM_NEEDNETINETIN6H
#define LWRES_PLATFORM_NEEDNETINETIN6H

/*
 * Define if this system needs the <netinet6/in6.h> header file for IPv6.
 */
/*
@LWRES_PLATFORM_NEEDINET6IN6H@
*/

/*
* If sockaddr on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in_addr6, rather than in6_addr,
* LWRES_PLATFORM_HAVEINADDR6 will be defined.
*/
@LWRES_PLATFORM_HAVEINADDR6@

/*
* Defined if unistd.h does not cause fd_set to be declared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@LWRES_PLATFORM_USEDECLSPEC@

/*
* Defined this system needs vsnprintf() and snprintf().
*/
@LWRES_PLATFORM_NEEDVSNPRINTF@
/*
* If this system need a modern sprintf() that returns (int) not (char*).
*@
*/

@ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
@ifndef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
@endif
@endif
@endif

# ifndef LWRES_PLATFORM_H */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/platform.h.in
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 1996-2003  Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/inet_pton.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 2000, 2001  Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* The software is provided "as is" and ISC disclaims all warranties with
* regard to this software including all implied warranties of merchantability
* and fitness. In no event shall ISC be liable for any special, direct,
* indirect, or consequential damages or any damages whatsoever resulting from
* loss of use, data or profits, whether in an action of contract, negligence
* or other tortious action, arising out of or in connection with the use or
* performance of this software.
*/
/
* SHA-1 in C
* By Steve Reid <steve@edmweb.com>
* 100% Public Domain
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/sha1.h
No license file was found, but licenses were detected in source scan.

/*/Portions Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
Portions Copyright (C) 1999-2002 Internet Software Consortium.
Portions Copyright (C) 1995-2000 by Network Associates, Inc.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* The software is provided "as is" and ISC and Network Associates disclaims
* all warranties with regard to this software including all implied
* warranties of merchantability and fitness. In no event shall ISC be liable
* for any special, direct, indirect, or consequential damages or any damages
* whatsoever resulting from loss of use, data or profits, whether in an
* action of contract, negligence or other tortious action, arising out of or
* in connection with the use or performance of this software.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/openssl-sa_link.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/openssldh_link.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/dst_parse.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/hmac_link.c
No license file was found, but licenses were detected in source scan.

/*/Copyright (c) 1983, 1993
*The Regents of the University of California. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:
   This product includes software developed by the University of California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Found in path(s):

* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/inet/inet_lnaof.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/inet/inet_network.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/inet/inet_ntoa.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/inet/inet_makeaddr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/inet/inet_netof.c

No license file was found, but licenses were detected in source scan.

 Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 Copyright (C) 1997-2003 Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/mem.c

No license file was found, but licenses were detected in source scan.

/ *
* Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* *
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* *
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/dlv_65323.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/dlv_65323.c

No license file was found, but licenses were detected in source scan.

/ *
* ++Copyright++ 1991, 1993
* *
* Copyright (c) 1991, 1993
* The Regents of the University of California. All rights reserved.
* *
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24300
This product includes software developed by the University of California, Berkeley and its contributors.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

* Portions Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

*/

--Copyright--
*/

Found in path(s):

* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/lynvos/include/sys/cdefs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
/* eventlib definitions specific to binos

* January 2007, Vikram Visweswaraiiah

* Copyright (c) 2007-2008, 2015 by cisco Systems, Inc.
* All rights reserved.

*/

No license file was found, but licenses were detected in source scan.

/*

* ++Copyright++ 1993
* -
* Copyright (c) 1993 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
*/
*This product includes software developed by the University of California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS \"AS IS\" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. (\"ISC\")
* Portions Copyright (c) 1996,1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED \"AS IS\" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_pr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_pw.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1990, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/bsd/strtoul.c

No license file was found, but licenses were detected in source scan.

" $Id: heap.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
" Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
" Copyright (c) 1997,1999 by Internet Software Consortium.
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
" WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
" MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
" ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
" WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
" ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
" OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
" Os OPERATING_SYSTEM [version/release]
" The following requests should be uncommented and
"used where appropriate. This next request is
" for sections 2 and 3 function return values only.
" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" (command return values (to shell) and
" fprintf/stderr type diagnostics)
" The next request is for sections 2 and 3 error
" and signal handling only.
" .Sh STANDARDS
" .Sh HISTORY
" .Sh BUGS

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/heap.mdoc
No license file was found, but licenses were detected in source scan.

/ *
* Copyright (c) 1983, 1987, 1989
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ```AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (c) 1996-1999 by Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/resolv.h
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1985, 1989, 1993
* The Regents of the University of California. All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS \"AS IS\" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24307
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* Portions Copyright (c) 1993 by Digital Equipment Corporation.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies, and that
* the name of Digital Equipment Corporation not be used in advertising or
* publicity pertaining to distribution of the document or software without
* specific, written prior permission.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
*/
/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (c) 1996-1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_send.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_init.c

No license file was found, but licenses were detected in source scan.
/*
* Copyright (c) 1987, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

/* Portions Copyright (c) 1993 by Digital Equipment Corporation. */

/* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies, and that
* the name of Digital Equipment Corporation not be used in advertising or
* publicity pertaining to distribution of the document or software without
* specific, written prior permission. */

/* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/bsd/mktemp.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright(c) 1996, 1998 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_gr.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1987, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*/
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/bsd/strcasecmp.c

No license file was found, but licenses were detected in source scan.

/ *
* Portions Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (C) 2000-2002  Internet Software Consortium.
* Portions Copyright (C) 1995-2000 by Network Associates, Inc.
* *
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* *
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIIMS
* ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
* IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/dns/sec/dst/dst_internal.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/dns/sec/dst/dst_parse.h

No license file was found, but licenses were detected in source scan.

/ *
* msg_eventlib.c - Error messages for evlib
* *
* January 2007, Vikram Visweswaraiah
* *
* Copyright (c) 2007 by Cisco Systems, Inc.
* All rights reserved.
/*

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/msg_eventlib.c
No license file was found, but licenses were detected in source scan.

*/

* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 1999-2001  Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/ipv6.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/dbtable.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/dir.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/unix/include/isc/int.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/include/isc/bitstring.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/include/isc/interfaceiter.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdatalist.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/include/isc/once.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdata/in_1/a6_38.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdata/in_1/nsap_22.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/pthreads/include/isc/once.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/service/interfaceiter.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/rfc/rfc275_19.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/service/win32/stdtime.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/include/isc/app.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/callbacks.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/nls/msgcat.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/px_26.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/lib.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/wks_11.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/stdtime.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/serial.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/tkey.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/timer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/dir.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/dir.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/tests/include/tests/t_api.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/tests/include/tests/t_api.h
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 2001 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/hex.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/gai_strerror.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1995,1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/nameser/ns_samedomain.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 1998-2002  Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
Found in path(s):
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/timer.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/a_1.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/event.h
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/buffer.h
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/null_10.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/soa_6.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/proforma.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/timer.h
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/opt_41.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/socket.h
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/region.h
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/lex.h
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/txt_16.c
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/netaddr.h

No license file was found, but licenses were detected in source scan.

"" $Id: assertions.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
""
"" Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
""
"" Copyright (c) 1997,1999 by Internet Software Consortium.
"
"" Permission to use, copy, modify, and distribute this software for any
"" purpose with or without fee is hereby granted, provided that the above
"" copyright notice and this permission notice appear in all copies.
"
"" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
"" WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
"" MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
"" ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
"" WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
"" ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
"" OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
"

Found in path(s):
  * /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/assertions.mdoc

No license file was found, but licenses were detected in source scan.

/*
 *
* Copyright (c) 1987, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
  * modification, are permitted provided that the following conditions
  * are met:
  * 1. Redistributions of source code must retain the above copyright
  *    notice, this list of conditions and the following disclaimer.
  * 2. Redistributions in binary form must reproduce the above copyright
  *    notice, this list of conditions and the following disclaimer in the
  *    documentation and/or other materials provided with the distribution.
  * 3. All advertising materials mentioning features or use of this software
  *    must display the following acknowledgement:
  *    This product includes software developed by the University of
  *    California, Berkeley and its contributors.
  * 4. Neither the name of the University nor the names of its contributors
  *    may be used to endorse or promote products derived from this software
  *    without specific prior written permission.
  *
  * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
  * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
  * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  * SUCH DAMAGE.
  */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/bsd/setenv.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000-2003  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
/*

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/validator.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/byaddr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/diff.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/getrrset.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwconfig.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres.3
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/msgs.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/hex.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/parser.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwconfig.c

No license file was found, but licenses were detected in source scan.

*/

Alpha "Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
Alpha "Copyright (C) 2000, 2001 Internet Software Consortium.
Alpha "Permission to use, copy, modify, and distribute this software for any
Alpha "purpose with or without fee is hereby granted, provided that the above
Alpha "copyright notice and this permission notice appear in all copies.
Alpha 
Alpha "THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
Alpha "REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
Alpha "AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
Alpha "INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
Alpha "LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
Alpha "OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
Alpha "PERFORMANCE OF THIS SOFTWARE.
Alpha "
Alpha "$Id: lwres.3,v 1.1 2004/11/03 01:39:06 abstine Exp $"
Alpha 

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres.3

No license file was found, but licenses were detected in source scan.

/*/
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwinetntop.c

No license file was found, but licenses were detected in source scan.

/* Copyright (c) 1983, 1989
 * The Regents of the University of California. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 * This product includes software developed by the University of
 * California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 * may be used to endorse or promote products derived from this software
 * without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
*/

Found in path(s):
*/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/arpa/nameser_compat.h
No license file was found, but licenses were detected in source scan.

/*
 * Portions Copyright (c) 1995-1998 by Trusted Information Systems, Inc.
 *
 * Permission to use, copy modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND TRUSTED INFORMATION SYSTEMS
 * DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
 * TRUSTED INFORMATION SYSTEMS BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
 * FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
 * NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
 * WITH THE USE OR PERFORMANCE OF THE SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/dst_api.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/hmac_link.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/dst_internal.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/support.c

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1999-2002 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/wks_11.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/zt.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/masterdump.h
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24321

*/
* Copyright (c) 1989, 1993, 1995
* The Regents of the University of California. All rights reserved.
* Redistributions and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*   This product includes software developed by the University of
*   California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software

No license file was found, but licenses were detected in source scan.
OPEN SOURCE USED IN KENNA VIRTUAL TUNNEL AND AGENT 2021.08  24322

* without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS \"AS IS\" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Portions Copyright (c) 1996-1999 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_nw.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_gr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_sv.c

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1998-1999 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getpwent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getprotoent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnetgrent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getgrent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnetent_r.c

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1985, 1988, 1993
 * The Regents of the University of California. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    This product includes software developed by the University of
 *    California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
/*
 *
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Portions Copyright (c) 1996-1999 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/dns_ho.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/irs/lcl_ho.c

No license file was found, but licenses were detected in source scan.

" Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
" Copyright (C) 2000, 2001 Internet Software Consortium.
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
" AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
" INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
" LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
" OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
" PERFORMANCE OF THIS SOFTWARE.
"
" $Id: lwres_noop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lwres/man/lwres_noop.3

No license file was found, but licenses were detected in source scan.

/*
 *
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000-2002 Internet Software Consortium.
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/request.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/ipv6.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/unix/include/lwres/net.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/include/isccfg/cfg.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/mutex.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwres_gnba.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/fsaccess.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright(c) 1989, 1993, 1995
* The Regents of the University of California. All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
*/
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (c) 1996 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irpmarshall.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 1999-2001  Internet Software Consortium.
*
* This code is derived from software contributed to ISC by
* Berkeley Software Design, Inc.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND BERKELEY SOFTWARE DESIGN, INC.
* DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
* IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/getaddrinfo.c
No license file was found, but licenses were detected in source scan.

/*
 * -
 * Copyright (c) 1980, 1983, 1988, 1993
 * The Regents of the University of California. All rights reserved.
 * *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    This product includes software developed by the University of
 *    California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * -
 * Portions Copyright (c) 1993 by Digital Equipment Corporation.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24327
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Portions Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:
   This product includes software developed by WIDE Project and its contributors.
4. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--Copyright--
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/netdb.h
No license file was found, but licenses were detected in source scan.

" Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
" Copyright (C) 2000, 2001  Internet Software Consortium.
"
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
"
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
" AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
" INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
" LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
" OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
" PERFORMANCE OF THIS SOFTWARE.
"
" $Id: lwres_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gnba.3
No license file was found, but licenses were detected in source scan.

/*
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the project nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getaddrinfo.c

No license file was found, but licenses were detected in source scan.

<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<!--
- Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
- Copyright (C) 2001  Internet Software Consortium.
-
- Permission to use, copy, modify, and distribute this software for any
- purpose with or without fee is hereby granted, provided that the above
- copyright notice and this permission notice appear in all copies.
-
- THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
- REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
- AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
- INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
- LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
- OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
- PERFORMANCE OF THIS SOFTWARE.
-->

<!-- $Id: lwres_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_gabn</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_gabnrequest_render</refname>
<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
</refnamediv>
</refentry>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<brspacing>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>
#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
</funcsynopsis>
</refsynopsisdiv>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbyname opcode. One render function converts a getaddrbyname request structure to the lightweight resolver's canonical format. It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure.

Another render function converts the getaddrbyname response structure to the canonical format. This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

These structures are defined in

```c
#define LWRES_OPCODE_GETADDRSBYNAME     0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint32_t addrtype;
    lwres_uint16_t namelen;
    char *name;
} lwres_gabnrequest_t;
```
typedef struct {
    lwres_uint32_t          flags;
    lwres_uint16_t          naliases;
    lwres_uint16_t          naddrs;
    char                   *realname;
    char                  **aliases;
    lwres_uint16_t          realnamelen;
    lwres_uint16_t         *aliaslen;
    lwres_addrlst_t        addrs;
    void                   *base;
    size_t                  baselen;
} lwres_gabnresponse_t;
</programlisting>

<para>
<function>lwres_gabnrequest_render()</function> uses resolver context <parameter>ctx</parameter> to convert getaddrbyname request structure <parameter>req</parameter> to canonical format. The packet header structure <parameter>pkt</parameter> is initialised and transferred to buffer <parameter>b</parameter>. The contents of <parameter>*req</parameter> are then appended to the buffer in canonical format. 
</para>

<function>lwres_gabnresponse_render()</function> performs the same task, except it converts a getaddrbyname response structure <type>lwres_gabnresponse_t</type> to the lightweight resolver's canonical format.
</para>

<para>
<function>lwres_gabnrequest_parse()</function> uses context <parameter>ctx</parameter> to convert the contents of packet <parameter>pkt</parameter> to a <type>lwres_gabnrequest_t</type> structure. Buffer <parameter>b</parameter> provides space to be used for storing this structure. When the function succeeds, the resulting
<type>lwres_gabnrequest_t</type>
is made available through
<parameter>*structp</parameter>.

<function>lwres_gabnresponse_parse()</function>
offers the same semantics as
<function>lwres_gabnrequest_parse()</function>
ecept it yields a
<type>lwres_gabnresponse_t</type>
structure.
</para>
<para>
<function>lwres_gabnresponse_free()</function>
and
<function>lwres_gabnrequest_free()</function>
release the memory in resolver context
<parameter>ctx</parameter>
that was allocated to the
<type>lwres_gabnresponse_t</type>
or
<type>lwres_gabnrequest_t</type>
structures referenced via
<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those
structures is also discarded.
</para>

<refsect1>
<title>RETURN VALUES</title>
<para>
The getaddrbyname opcode functions
<function>lwres_gabnrequest_render()</function>,
<function>lwres_gabnresponse_render()</function>
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
all return
<errorcode>LWRES_R_SUCCESS</errorcode>
on success.
They return
<errorcode>LWRES_R_NOMEMORY</errorcode>
if memory allocation fails.
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
is returned if the available space in the buffer
<parameter>b</parameter>
is too small to accommodate the packet header or the
<type>lwres_gabnrequest_t</type>
and
<type>lwres_gabnresponse_t</type>
structures.

<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
will return
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer is not empty after decoding the received packet.

These functions will return
<errorcode>LWRES_R_FAILURE</errorcode>
if
<structfield>pktflags</structfield>
in the packet header structure
<type>lwres_lwpacket_t</type>
indicate that the packet is not a response to an earlier query.

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gabn.docbook

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1985, 1993
 * The Regents of the University of California. All rights reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 * This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS “AS IS” AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
 Portions Copyright (c) 1993 by Digital Equipment Corporation.
 *
 Permission to use, copy, modify, and distribute this software for any
 purpose with or without fee is hereby granted, provided that the above
 copyright notice and this permission notice appear in all copies, and that
 the name of Digital Equipment Corporation not be used in advertising or
 publicity pertaining to distribution of the document or software without
 specific, written prior permission.
 *
 THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
 WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
 CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
 DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
 PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
 ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
 SOFTWARE.
 */
/*
 Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 Portions Copyright (c) 1996-1999 by Internet Software Consortium.
 *
 Permission to use, copy, modify, and distribute this software for any
 purpose with or without fee is hereby granted, provided that the above
 copyright notice and this permission notice appear in all copies.
 *
 THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
*/

* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_comp.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_mkquery.c
No license file was found, but licenses were detected in source scan.

*/

* Copyright (c) 1985
* The Regents of the University of California. All rights reserved.
 *
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
 *
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

*/

* Portions Copyright (c) 1993 by Digital Equipment Corporation.
 *
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies, and that
* the name of Digital Equipment Corporation not be used in advertising or
* publicity pertaining to distribution of the document or software without
* specific, written prior permission.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
*/
/*
* Portions Copyright (c) 1995 by International Business Machines, Inc.
* *
* International Business Machines, Inc. (hereinafter called IBM) grants
* permission under its copyrights to use, copy, modify, and distribute this
* Software with or without fee, provided that the above copyright notice and
* all paragraphs of this notice appear in all copies, and that the name of IBM
* not be used in connection with the marketing of any product incorporating
* the Software or modifications thereof, without specific, written prior
* permission.
* *
* To the extent it has a right to do so, IBM grants an immunity from suit
* under its patents, if any, for the use, sale or manufacture of products to
* the extent that such products are used for performing Domain Name System
* dynamic updates in TCP/IP networks by means of the Software. No immunity is
* granted for any product per se or for any other function of any product.
* *
* THE SOFTWARE IS PROVIDED "AS IS", AND IBM DISCLAIMS ALL WARRANTIES,
* INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
* PARTICULAR PURPOSE. IN NO EVENT SHALL IBM BE LIABLE FOR ANY SPECIAL,
* DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER ARISING
* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE, EVEN
* IF IBM IS APPRISED OF THE POSSIBILITY OF SUCH DAMAGES.
*/
/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (c) 1996-1999 by Internet Software Consortium.
* *
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* *
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
/* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_debug.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
* Copyright (C) 2000, 2001  Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

/*
* This is the header file for the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*
* Changed so as no longer to depend on Colin Plumb's `usual.h'
* header definitions; now uses stuff from dpkg's config.h
* - Ian Jackson <ijackson@nyx.cs.du.edu>.
* Still in the public domain.
*/
/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1999-2003 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

*****
***** Platform-dependent defines.
*****/

/***
*** Network.
***/

/*
 * Define if this system needs the <netinet/in6.h> header file included
 * for full IPv6 support (pretty much only UnixWare).
 */
@ISC_PLATFORM_NEEDINETINETIN6H@

/*
 * Define if this system needs the <netinet6/in6.h> header file included
 * to support in6_pktinfo (pretty much only BSD/OS).
 */
@ISC_PLATFORM_NEEDINETINET6IN6H@

/*
 * If sockaddr on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
 */
* will be defined.
*/
@ISC_PLATFORM_HAVESALEN@

/*
 * If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
 * will be defined.
 */
@ISC_PLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
 * will be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
 * defined.
 */
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
 * If this system has in6_addr, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEINADDR6@

/*
 * If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
 */
@ISC_PLATFORM_HAVESCOPEID@

/*
 * If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
 */
@ISC_PLATFORM_NEEDNTOP@

/*
 * If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
 */
@ISC_PLATFORM_NEEDPTON@
/* 
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined. 
*/
@ISC_PLATFORM_NEEDATON@

/* 
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined. 
*/
@ISC_PLATFORM_NEEDPORTT@

/* 
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined. 
*/
@ISC_PLATFORM_NEEDSTRSEP@

/* 
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined. 
*/
@ISC_PLATFORM_NEEDSTRLCPY@

/* 
* If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined. 
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/* 
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR. 
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/* 
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to 
* prevent compiler warnings (such as with gcc on Solaris 2.8). 
*/
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/* 
* Define on some UnixWare systems to fix erroneous definitions of various 
* IN6_IS_ADDR_* macros. 
*/
@ISC_PLATFORM_FIXIN6ISADDR@

/*** 
*** Printing. 
***/
* If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
* will be defined.
*/
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@ISC_PLATFORM_NEEDSPRINTF@

/*
* The printf format string modifier to use with isc_uint64_t values.
*/
@ISC_PLATFORM_QUADFORMAT@

/*
* Defined if we are using threads.
*/
@ISC_PLATFORM_USETHREADS@

/*
* Defined if unistd.h does not cause fd_set to be declared.
*/
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

/*
* Define if the system has struct lifconf which is a extended struct ifconf
* for IPv6.
*/
@ISC_PLATFORM_HAVELIFCONF@

/*
* Define if the system has struct if_laddrconf which is a extended struct
* ifconf for IPv6.
*/
@ISC_PLATFORM_HAVEIF_LADDRCONF@
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@ISC_PLATFORM_USEDECLSPEC@

/*
* Define if the system supports if_nametoindex.
*/
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
* Define if this system needs strtoul.
*/
@ISC_PLATFORM_NEEDSTRTOUL@

/*
* Define if this system needs memmove.
*/
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24344
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif /* ISC_PLATFORM_USEDECLSPEC */

/
* Tell emacs to use C mode for this file.
*
* Local Variables:
* mode: c
* End:
*/
#endif /* ISC_PLATFORM_H */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/platform.h.in
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1983, 1990, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  SUCH DAMAGE.
*/
/*
* Portions Copyright (c) 1993 by Digital Equipment Corporation.
* 
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies, and that
* the name of Digital Equipment Corporation not be used in advertising or
* publicity pertaining to distribution of the document or software without
* specific, written prior permission.
* 
* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
*/
/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (c) 1996-1999 by Internet Software Consortium.
* 
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* 
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/inet/inet_addr.c

No license file was found, but licenses were detected in source scan.
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/make/rules.in
No license file was found, but licenses were detected in source scan.

"$Id: tree.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $"
"Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")"
"Copyright (c) 1995-1999 by Internet Software Consortium"
"Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
"THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE."

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/tree.mdoc
No license file was found, but licenses were detected in source scan.

"/
* eventlib.em
*
* Eventlib error message compiler input file
*
* Copyright (c) 2008-2011 by Cisco Systems, Inc.
* All rights reserved
*/

"/
* The file basename is the facility name, the name is made uppercase. This file defines facility EVENTLIB
*
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
severity err;
category software;
cdets_component iosxe-binos-utils;

format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
  arg {
    "int" dispatch_time "event dispatch time";
    "int" elapsed_time "event elapsed time";
    "int" hog_detected "event hog detected";
    "int" set_count "event set count since dispatch"
  }

explanation
  "Eventlib historical summary for detected hog.";

action
  "This event summary is part of a CPUHOG or TIMEHOG error, "
  "providing diagnostic details useful to engineering."
  "Save this summary message along with the HOG error."

  tac_details
    "Eventlib historical summary for detected hog.";
}

ermsg HISTELEM {
  severity err;
category software;
cdets_component iosxe-binos-utils;

format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

  arg {
    "int" set_count "element set count";
    "char *" position_string "event call type";
    "char *" position_string "event condition";
    "int" set_time "element set time";
    "int" unset_time "element unset time";
    "int" hog_check "element hog check result";
    "int" caller "caller builtin return address";
    "char *" any_string "element callback render buffer";
  }

explanation
  "Eventlib historical element for detected hog.";

action
  "This event element is part of a CPUHOG or TIMEHOG error,
  "providing diagnostic details useful to engineering."
  "Save all element messages along with the HOG error.";
tac_details
  "Eventlib historical element for detected hog."
}

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/isc/eventlib.em

No license file was found, but licenses were detected in source scan.

/* Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2000, 2001 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 *
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lwres/man/lwres_packet.3

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 1997-2002 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1995-1999 by Internet Software Consortium
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/eventlib.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/lib/isc/eventlib_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/misc/ev_connects.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/misc/ev_files.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/misc/ev_timers.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/eventlib.c

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Portions Copyright (c) 1996,1998 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
*/
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1996,1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/gen_pr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/nis_ng.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/nw.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/genpw.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/pathnames.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/data.h

No license file was found, but licenses were detected in source scan.
/opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/nis_ho.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/gen_ng.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/getnetgrent.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/gen_p.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/nis_sv.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/nis_pw.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/nis_p.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/gen_sv.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/isc/bitncmp.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/nis_nv.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/dns_pr.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/nameser/ns_ttl.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/include/irs.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/include/hibisiod.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/inet/inet_net_pton.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/gen_ho.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/irs_data.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/hrs.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/hrs/hibisiod.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/dns_sv.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/lcl_p.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/inet/inet_net_ntop.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/gen_ho.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/hrs_data.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/hrs/hibisiod.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/dns_sv.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/lcl_p.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/inet/inet_net_ntop.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/nul_ng.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/getprotoent.c
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/hrs.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/irs/hrs/hibisiod_p.h
* /opt/cola/permits/1130450060_1615189005.74/o/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h

No license file was found, but licenses were detected in source scan.

/*
 * Portions Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
 * Portions Copyright (C) 1996-2001 Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 */
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

*/

* Copyright (c) 1983, 1990, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    This product includes software developed by the University of
*    California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

*/

* Portions Copyright (c) 1993 by Digital Equipment Corporation.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies, and that
* the name of Digital Equipment Corporation not be used in advertising or
* publicity pertaining to distribution of the document or software without
* specific, written prior permission.
* 
* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/inet_aton.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1983, 1989, 1993
* The Regents of the University of California. All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*        This product includes software developed by the University of
*        California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1996-1999 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/arpa/nameser.h

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/ssu.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/arpa/nameser.h
No license file was found, but licenses were detected in source scan.

/*
 * +++Copyright+++ 1983, 1993
 * -
 * Copyright (c) 1983, 1993
 * The Regents of the University of California. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *   This product includes software developed by the University of
 *   California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * -
 *
 * Portions Copyright (c) 1993 by Digital Equipment Corporation.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies, and that
 * the name of Digital Equipment Corporation not be used in advertising or
 * publicity pertaining to distribution of the document or software without
 * specific, written prior permission.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
* ...
* --Copyright--
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/arpa/inet.h

No license file was found, but licenses were detected in source scan.

/*/  
* Portions Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
* Portions Copyright (C) 1999-2001 Internet Software Consortium.
* 
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
* 
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

/*
* Copyright (c) 1987, 1993, 1994
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24357
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/commandline.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 2000 by Internet Software Consortium, Inc.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/movefile.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1988, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
   must display the following acknowledgement:
   This product includes software developed by the University of
   California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
*/
/*
Portions Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and that
the name of Digital Equipment Corporation not be used in advertising or
publicity pertaining to distribution of the document or software without
specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.
*/
/*
Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
Portions Copyright (c) 1996-1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_query.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1996-1999 by Internet Software Consortium
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_waits.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_streams.c
No license file was found, but licenses were detected in source scan.

" Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
" Copyright (C) 2000, 2001  Internet Software Consortium.
"
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
"
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
"AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

$Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp$

"
* REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
* INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
* LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
* OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdataslab.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/nxt_30.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/any_255/tsig_250.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/sig_24.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/zone.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/key_25.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/view.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/adb.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/tkey_249.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/dnssec.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdataset.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/loc_29.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/resolver.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/masterdump.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/ncache.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/tests/t_api.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/cache.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/dispatch.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/view.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/net.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/random.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/interfaecite.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/net.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/xfrin.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/message.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/master.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdataset.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/a6_38.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/ifiter_ioctl.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/dispatch.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/log.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/types.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/rbt.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/cert_37.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/message.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/sockaddr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/app.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/net.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/zone.c
/* Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com) 
* All rights reserved. 
*
* This package is an SSL implementation written 
* by Eric Young (eay@cryptsoft.com). 
* The implementation was written so as to conform with Netscapes SSL. 
* 
* This library is free for commercial and non-commercial use as long as 
* the following conditions are aheared to. The following conditions 
* apply to all code found in this distribution, be it the RC4, RSA, 
* lhash, DES, etc., code; not just the SSL code. The SSL documentation 
* included with this distribution is covered by the same copyright terms 
* except that the holder is Tim Hudson (tjh@cryptsoft.com). 
* 
* Copyright remains Eric Young's, and as such any Copyright notices in 
* the code are not to be removed. 
* If this package is used in a product, Eric Young should be given attribution 
* as the author of the parts of the library used. 
* This can be in the form of a textual message at program startup or 
* in documentation (online or textual) provided with the package. 
* 
* Redistribution and use in source and binary forms, with or without 
* modification, are permitted provided that the following conditions 
* are met: 
* 1. Redistributions of source code must retain the copyright 
* notice, this list of conditions and the following disclaimer. 
* 2. Redistributions in binary form must reproduce the above copyright 
* notice, this list of conditions and the following disclaimer in the 
* documentation and/or other materials provided with the distribution. 
* 3. All advertising materials mentioning features or use of this software 
* must display the following acknowledgement: 
* "This product includes cryptographic software written by 
* Eric Young (eay@cryptsoft.com)"
* The word 'cryptographic' can be left out if the rouines from the library 
* being used are not cryptographic related :-). 
* 4. If you include any Windows specific code (or a derivative thereof) from 
* the apps directory (application code) you must include an acknowledgement: 
* "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
* 
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND 
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/md5_dgst.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/md5_locl.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst/md5.h

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004  Internet Systems Consortium, Inc. ("ISC")
 * Copyright (C) 2001  Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 * REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 * INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 * LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 * OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/bind_registry.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/platform.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/win32/include/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/bindevt.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/ntpaths.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/version.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/include/bind9/check.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/unix/include/isc/sterror.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/version.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/version.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/unix/include/bind9/getaddresses.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/version.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/version.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg.include/isccfg/version.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/Win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/version.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/sterror.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/unix/include/bind9/version.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/win32/DLLMain.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/win32/DLLMain.c

No license file was found, but licenses were detected in source scan.

" Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
" Copyright (C) 2000, 2001 Internet Software Consortium.
" Permission to use, copy, modify, and distribute this software for any
" purpose with or without fee is hereby granted, provided that the above
" copyright notice and this permission notice appear in all copies.
" THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
" REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
" AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
" INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
" LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
" OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
" PERFORMANCE OF THIS SOFTWARE.
" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_context.3

No license file was found, but licenses were detected in source scan.

## All rights reserved.
## Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

## 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

## 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

## 3. All advertising materials mentioning features or use of this software without specific prior written permission.

## Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that

## the name of Digital Equipment Corporation not be used in advertising or

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/make/mkdep.in

No license file was found, but licenses were detected in source scan.

# Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
# Copyright (C) 2001 Internet Software Consortium.
#
# Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
#
# THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

AC_REVISION($Revision: 1.1 $)

AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL
AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG_AR, ar
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
"")
AC_MSG_ERROR([ar program not found. Please fix your PATH to include the directory in which ar resides, or set AR in the environment with the full path to ar.])
;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs- etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
AC_MSG_CHECKING(for Exuberant Ctags etags)
if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
AC_MSG_RESULT(yes)
ETAGS="$ETAGS -L"
else
AC_MSG_RESULT(no)
fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
  includedir='${prefix}/bind/include'
;;
  esac
  case "$libdir" in
'${prefix}/lib')
  libdir='${prefix}/bind/lib'
;;
  esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
  */
    ;;
  *
    *)
      
      # Not all systems have dirname.
      #
      changequote(, )
      ac_dir=""echo $INSTALL | sed \'s%/[\^/]+%$%g\'"" 
      changequote(, )

      ac_prog=""echo $INSTALL | sed \'s%./%/%g\'"" 
      test "$Sac_dir" = "$Sac_prog" && ac_dir=.
      test -d "$Sac_dir" && ac_dir=""(cd "$Sac_dir" && pwd)"" 
      INSTALL="$Sac_dir/$Sac_prog"
    ;;
    esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found.  The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
  case "$host" in
    *-dec-osf*)
      CC="cc"
      ;;
  *-solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
    # If setting CC here fails, the AC_PROG_CC done
    # below might still find gcc.
    IFS="${IFS=}"; ac_save_ifs="$IFS"; IFS="::
    for ac_dir in $PATH; do
      test -z "$ac_dir" && ac_dir=.
      case "$ac_dir" in
        /usr/ucb)
          # exclude
          ;;
        *)
          if test -f "$ac_dir/cc"; then
            CC="$ac_dir/cc"
            break
          fi
          ;;
        esac
done
    IFS="$ac_save_ifs"
    ;;
  *-hp-hpux*)
    CC="cc"
    ;;
  mips-sgi-irix*)
    CC="cc"
    ;;
  esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)
AC_CCONST
AC_CINLINE
AC_TYPESIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
  yes)
  AC_MSG_CHECKING(if unistd.h defines fd_set)
  AC_TRY_COMPILE([
    #include <unistd.h>
    [fd_set read_set; return (0);].
    [AC_MSG_RESULT(yes)
     ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
    ],
    [AC_MSG_RESULT(no)
     case ac_cv_header_sys_select_h in
     yes)
      ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
     ;;
     no)
    AC_MSG_ERROR([need either working unistd.h or sys/select.h])
    ;;
    esac
    ])
  ;;
  no)
  case ac_cv_header_sys_select_h in
  yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
  ;;
  no)
  AC_MSG_ERROR([need either unistd.h or sys/select.h])
  ;;
  esac
  ;;
  esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)
#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,
  [ --with-irs-gr		Build ....],
  [ ]
)
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
  yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
      WANT_IRS_GR_OBJS="${WANT_IRS_GR_OBJS}";;
  *) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";; esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,
            "--with-irs-pw		Build ....",
            want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
  yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
       WANT_IRS_PW_OBJS="${WANT_IRS_PW_OBJS}";;
  *) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";; esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,
            "--with-irs-nis		Build ....",
            want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
  yes) WANT_IRS_NIS="#define WANT_IRS_NIS 1"
       WANT_IRS_NIS_OBJS="${WANT_IRS_NIS_OBJS}";;
  *) WANT_IRS_NIS="/undef WANT_IRS_NIS"
      WANT_IRS_NIS_OBJS="";; esac

AC_ARG_WITH(irs-gr,
            "--with-irs-gr		Build ....",
            want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
  yes) WANT_IRS_NISGR="#define WANT_IRS_NISGR 1"
       WANT_IRS_NISGR_OBJS="${WANT_IRS_NISGR_OBJS}";;
  *) WANT_IRS_NISGR="/undef WANT_IRS_NISGR"
     WANT_IRS_NISGR_OBJS="";;
   esac

AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
  [  --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval", use_randomdev="unspec")

  case "$use_randomdev" in
    unspec)
      case "$host" in
        *-openbsd+)
          devrandom=/dev/srandom
          ;;
        *)
          devrandom=/dev/random
          ;;
        esac
      AC_MSG_RESULT($devrandom)
      AC_CHECK_FILE($devrandom,
        AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$devrandom"),)
    ;;
    yes)
      AC_MSG_ERROR([--with-randomdev must specify a path])
      ;;
    *)
      AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
      AC_MSG_RESULT(using "$use_randomdev")
      ;;
      esac
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,  
    [ --disable-threads disable multithreading])
case "$enable_threads" in
    yes|'')
    AC_MSG_RESULT(yes)
    use_threads=true
    ;;
    no)
    AC_MSG_RESULT(no)
    use_threads=false
    ;;
    *)
    AC_MSG_ERROR([--enable-threads takes yes or no])
    ::
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case "$host" in
  *-netbsd*)
  # NetBSD has multiple pthreads implementations. The
  # recommended one to use is "unproven-pthreads". The
  # older "mit-pthreads" may also work on some NetBSD
  # versions. The PTL2 thread library does not
  # currently work with bind9, but can be chosen with
  # the --with-pty2 option for those who wish to
  # experiment with it.
  CC="gcc"
  AC_MSG_CHECKING(which NetBSD thread library to use)

  AC_ARG_WITH(ptl2, 
      [ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
      use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
AC_MSG_RESULT(PTL2)
AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
CC=ptlgcc
else
if test ! -d $LOCALBASE/pthreads
then
AC_MSG_RESULT(none)
use_threads=false
fi

if $use_threads
then
AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
pkg="$LOCALBASE/pthreads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lpthread -lm -lgcc -lpthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
::
*)
AC_CHECK_LIB(pthread, pthread_create,)
AC_CHECK_LIB(pthread, __pthread_create,)
AC_CHECK_LIB(c_r, pthread_create,)
AC_CHECK_LIB(c, pthread_create,
use_threads=false)))))
::
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
    AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

# Additional OS-specific issues related to pthreads and sigwait.
#
# case "$host" in
# # One more place to look for sigwait.
# *
# *.freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
::
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
# *.bsd3.*|*.bsd4.0*)
AC_DEFINE(NEED_PTHREAD_INIT)
::
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
# *.linux*)
AC_DEFINE(HAVE_LINUXTHREADS)
::
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
# *.solaris*)
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_CHECK_FUNC(pthread_setconcurrency,
    AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_DEFINE(_POSIX_GETPWUID_R)
AC_DEFINE(_POSIX_GETPWNAM_R)
AC_DEFINE(_POSIX_GETGRGID_R)
AC_DEFINE(_POSIX_GETGRNAM_R)
::
    *hpux11*)
AC_DEFINE(_PTHREADS_DRAFT4)
::
#
# UnixWare does things its own way.
#
# *.UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
# Look for sysconf to allow detection of the number of processors.

AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "$GCC" = "yes"; then
  case "$host" in
    *
    esac
  else
    case $host in
    *
    esac
  esac
fi

ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="${WANT_IRS_THREADSGR_OBJS}"
WANT IRS_THREADSPW_OBJ="\$(WANT IRS_THREADSPW_OBJ)"
WANT IRS_THREADS_OBJ="\$(WANT IRS_THREADS_OBJ)"
thread_dir=pthreads
else
    ALWAYS_DEFINES=""
    DO_PTHREADS="#undef DO_PTHREADS"
    WANT IRS_THREADSGR_OBJ=""
    WANT IRS_THREADSPW_OBJ=""
    WANT IRS_THREADS_OBJ=""
    thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT IRS_THREADSGR_OBJ)
AC_SUBST(WANT IRS_THREADSPW_OBJ)
AC_SUBST(WANT IRS_THREADS_OBJ)

AC_CHECK_FUNC(if_nametoindex,
    [USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
    [USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
    [DAEMON_OBJ="" NEED_DAEMON="#undef NEED_DAEMON"]
    ,
    [DAEMON_OBJ="\$(DAEMON_OBJ)" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJ)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
    [STRSEP_OBJ="" NEED_STRSEP="#undef NEED_STRSEP"]
    ,
    [STRSEP_OBJ="\$(STRSEP_OBJ)" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJ)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
    [NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.

AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

# Indicate what the final decision was regarding threads.

AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
AC_MSG_RESULT(yes)
else
AC_MSG_RESULT(no)
fi

# End of pthreads stuff.

# Additional compiler settings.

MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
case $host in
  *-dec-osf*)
    CC="$CC -std"
    CCOPT="$CCOPT -std"
    MKDEPCC="$CC";
  ;;
  *-hp-hpux*)
    CC="$CC -Ae -z"
    CCOPT="$CCOPT -std"
    MKDEPCC="$CC";
  ;;
  *-hp-hpux*)
    CC="$CC -Ae -z"
# The version of the C compiler that constantly warns about
# 'const' as well as alignment issues is unfortunately not
# able to be discerned via the version of the operating
# system, nor does cc have a version flag.
case """$CC +W 123 2>&1"" in
  *Unknown?option*)
    STD_CWARNINGS="+w1"
  ;;
  *)
# Turn off the pointlessly noisy warnings.

STD_CWARNINGS="+w1 +W 474,530"

;:
esac
CCOPT="$CCOPT -Ae -z"
LIBS="-Wl,+vnocompatwarnings $LIBS"

MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk "\"BEGIN {colon=0; rec="\";} { for (i = 0 ; i < NF; i++)
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if ($i == ":"){ rec = rec " :"
colon = 1 continue; } if (length($i) > 76) { print rec " \"; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1; }
} } END {print rec}" >>$TMP'

MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&2$TMP'

;:
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"

#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"

;:
*-solaris*)
MKDEPCFLAGS="-xM"

;:
*-UnixWare*)
CC="$CC -w"

;:
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"

;:
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
AC_CHECK_FUNC(catgets, AC_DEFINE(Have_catgets),)

# -lxnet buys us one big porting headache... standards, gotta love 'em.
# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
  mips-sgi-irix*)
  ;;
  *)
    AC_CHECK_LIB(d4r, gethostbyname_r)
    AC_CHECK_LIB(socket, socket)
    AC_CHECK_LIB(nsl, inet_ntoa)
    ;;
    esac
#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
  [  --with-purify[=PATH] use Rational purify],
  use_purify="$withval", use_purify="no")

case "$use_purify" in
  no)
    ;;
  yes)
    AC_PATH_PROG(purify_path, purify, purify)
    ;;
    *)
    purify_path="$use_purify"
    ;;
    esac
#

case "$use_purify" in
  no)
    AC_MSG_RESULT(no)
    PURIFY=""
    ;;
  *)

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24380
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS="`echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([purify_path not found.]
Please choose the proper path with the following command:

   configure --with-purify=PATH
)
fi
;;
esac

AC_SUBST(PURIFY)
#
# GNU libtool support
#
AC_ARG_WITH(libtool,
  [ --with-libtool use GNU libtool (following indented options supported)],
  use_libtool="$withval", use_libtool="no")
case $use_libtool in
   yes)
   AM_PROG_LIBTOOL
   O=lo
   A=la
   LIBTOOL_MKDEP_SED='s:.o:.lo:'
   LIBTOOL_MODE_COMPILE='--mode=compile'
   LIBTOOL_MODE_INSTALL='--mode=install'
   LIBTOOL_MODE_LINK='--mode=link'
   ;;
   *)
   O=o
   A=a
   LIBTOOL=
   AC_SUBST(LIBTOOL)
   LIBTOOL_MKDEP_SED=
   LIBTOOL_MODE_COMPILE=
   LIBTOOL_MODE_INSTALL=
   LIBTOOL_MODE_LINK=
   ;;
esac

#
# File name extension for static archive files, for those few places
where they are treated differently from dynamic ones.

SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

# Here begins a very long section to determine the system's networking capabilities. The order of the tests is significant.
#

# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6	use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|''|autodetect)
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

# We do the IPv6 compilation checking after libtool so that we can put the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[   --with-kame[=PATH]use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
   no)
     ;;
   yes)
     kame_path=/usr/local/v6
     ;;
   *)
     kame_path="$use_kame"
     ;;
   esac

case "$use_kame" in
   no)
     AC_MSG_RESULT(no)
     ;;
   *)
     if test -f $kame_path/lib/libinet6.a; then
       AC_MSG_RESULT($kame_path/lib/libinet6.a)
       LIBS="-L$kame_path/lib -linet6 $LIBS"
     else
       AC_MSG_ERROR([$kame_path/lib/libinet6.a not found. Please choose the proper path with the following command:

           configure --with-kame=PATH
         ])
     fi
     ;;
   esac

# Whether netinet6/inet6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/inet6.h is needed for.
#
changequote({, })
case "$host" in
  *-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
 *.UnixWare*)
 ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
 ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
 ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
 HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"

AC_MSG_CHECKING(for in6_addr)
AC_TRY_COMPILE({
 #include <sys/types.h>
 #include <sys/socket.h>
 #include <netinet/in.h>
 $isc_netinetin6_hack
 $isc_netinetin6in6_hack
 },
 [struct in6_addr in6; return (0);],
 [AC_MSG_RESULT(yes)
 HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
 isc_in_addr6_hack=""],
 [AC_MSG_RESULT(no)
 HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
 isc_in_addr6_hack="#define in6_addr in_addr6"])
AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
    NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
    NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
    result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
    result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzzy; return (0);],
[AC_MSG_RESULT(yes)
    ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
    ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
    ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
    ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack

[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT=yes]
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1",
[AC_MSG_RESULT=no]
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"]

;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"

;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>,
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"]
AC_MSG_CHECKING([for inet_pnton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>,
[inet_pnton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pnton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pnton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"]
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>,
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"]
AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
  *-dec-osf*)
  # Turn on 4.4BSD style sa_len support.
  AC_DEFINE(_SOCKADDR_LEN)
  ;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
  *-bsdi[2345]*)have_minimum_ifreq=yes;;
  *-darwin*)have_minimum_ifreq=yes;;
  *-freebsd*)have_minimum_ifreq=yes;;
  *-lynxos*)have_minimum_ifreq=yes;;
  *-netbsd*)have_minimum_ifreq=yes;;
  *-next*)have_minimum_ifreq=yes;;
  *-openbsd*)have_minimum_ifreq=yes;;
  *-rhapsody*)have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
  yes)
  HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
  no)
  HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  *)
  HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"

case "$host" in
  *aix3.2*)PORT_DIR="port/aix32";;
  *aix4*)PORT_DIR="port/aix4";;
  *aux3*)PORT_DIR="port/aux3";;
  *-bsd[2]*)PORT_DIR="port/bsdos2";;
  *-bsdi*)PORT_DIR="port/bsdos";;
  *-cygwin*)PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynvos*) PORT_DIR="port/lynvos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.5*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
PORT_DIR="port/solaris";;
*-solaris2.5*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

# Look for a 4.4BSD or 4.3BSD struct msghdr
# AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE({
  #include <sys/types.h>
  #include <sys/socket.h>
  [struct msghdr msg; msg.msg_flags = 0; return (0);],
  [AC_MSG_RESULT(4.4BSD)]
}
# Look for in_port_t.

AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDEDPORTT="#undef ISC_PLATFORM_NEEDEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDEDPORTT="#define ISC_PLATFORM_NEEDEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDEDPORTT)

# Check for addrinfo

AC_MSG_CHECKING(for struct addrinfo)
ACTRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE(
#include <netdb.h>,
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"]
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE(
#include <netdb.h>,
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"]
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE(
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"]
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE(
#include <netdb.h>,
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"]
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"],
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"]
AC_CHECK_FUNC(getnameinfo,
[ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"],
[ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"]
AC_CHECK_FUNC(getaddrinfo,
[ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"],
[ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"]
AC_DEFINE(HAVE_GETADDRINFO),
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"]
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

# Look for a sysctl call to get the list of network interfaces.
# AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
    #include <sys/param.h>
    #include <sys/sysctl.h>
    #include <sys/socket.h>
    #ifdef NET_RT_IFLIST
    found_rt_iflist
    #endif
],
[AC_MSG_RESULT(yes)
    AC_DEFINE(HAVE_IFLIST_SYSCTL)],
[AC_MSG_RESULT(no)])

# Check for some other useful functions that are not ever-present.
# AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)
AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
USE_SYSERROR_LIST="#undef USE_SYSERROR_LIST"],
USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

# # Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

# # Security Stuff
# #
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

# # for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[].
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t])
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[].
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)
.
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
}
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
.
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
}
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]

ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
))))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *ngroups"
.
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPLIST))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
# undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer, int buflen) {}
]
[return (0)],
]
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
]
AC_TRY_COMPILE(]
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

int getnetbyaddr_r (unsigned long int, int, struct netent *,
char *, size_t, struct netent **, int *);
]
[return (0)],
]
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
]
AC_TRY_COMPILE(]
[
#undef _REENTRANT
#define _REENTRANT
#define __OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);

[return (0)],

[ NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],

AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[ #include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],

[ NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  24396
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
 [ #undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void  setnetent_r (int);
].return (0);).
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
 [ #define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
].return (0);).
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
)
.
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
    [include <grp.h>
    struct group *getgrent_r(struct group *grp, char *buffer,
        int buflen) {}
    ],[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)

GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,

GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,

GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_PATCH RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_PATCH)
AC_SUBST(GROUP_R_SET_PATCH_RESULT)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
    [  
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    struct hostent  *gethostbyname_r
      (const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) { }  
},
    [return (0);],
    [
    HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
    HOST_R_BAD="#define HOST_R_BAD NULL"
    HOST_R_COPY="#define HOST_R_COPY buf, buflen"
    HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
    HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
    HOST_R_OK="#define HOST_R_OK hptr"
    HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
    HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
    HOSTENT_DATA="#undef HOSTENT_DATA"
    ]
),

AC_TRY_COMPILE([  
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int gethostbyname_r(const char *name,
      struct hostent *result,
      struct hostent_data *hdptr): 
    ],
    HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
    HOST_R_BAD="#define HOST_R_BAD (-1)"
    HOST_R_COPY="#define HOST_R_COPY hdptr"
    HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
    HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
    HOST_R_OK="#define HOST_R_OK 0"
    HOST_R_RETURN="#define HOST_R_RETURN int"
    HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
    HOSTENT_DATA="#define HOSTENT_DATA 1"
    ],

AC_TRY_COMPILE([  
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    ]
)
extern int gethostbyname_r (const char *,
    struct hostent *
    char *, size_t,
    struct hostent **,
    int *);

HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
).
))
.
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE({
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int endhostent_r(struct hostent_data *buffer);
    },
    HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
    )
    )
    )
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"

AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
)

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);
],[],[
HOST_R_SET_RESULT="#define HOST_R_SET_RESULT /*empty*/"
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE({
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
),
[return (0);],
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
),
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
),
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="/define NGR_R_BAD (0)"
NGR_R_COPY="/define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="/define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="/define NGR_R_OK 1"
NGR_R_RETURN="/define NGR_R_RETURN int"

AC_TRY_COMPILE(


extern int getnetgrent_r( char **, char **, char **, void **);


return (0);]

AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="/define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
, 
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENTR_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)
AC_CHECK_FUNC(setnetgrent_r,
[ case "$host" in
  *bsd*+)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
  *)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
, 
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)
AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
  [
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    struct protoent *getprotoent_r(struct protoent *result,
      char *buffer, int buflen) {}
  ]
  ,
  [ PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"}
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"

AC_TRY_COMPILE(

#include <netdb.h>

int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

)

AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)
AC_CHECK_FUNC(endprotoent_r, AC_TRY_COMPILE( [ #undef _REENTRANT #define _REENTRANT #undef __USE_MISC #define __USE_MISC #include <netdb.h> void endprotoent_r(void); ] .. [ PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/" PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void" PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS" ] , ) PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/" PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void" PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/" ) AC_SUBST(PROTO_R_END_RESULT) AC_SUBST(PROTO_R_END_RETURN) AC_SUBST(PROTO_R_ENT_ARGS) AC_CHECK_FUNC(setprotoent_r, AC_TRY_COMPILE( [ #undef _REENTRANT #define _REENTRANT #undef __USE_MISC #define __USE_MISC #include <netdb.h> void setprotoent_r __P((int)); ],[ ]) PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT" PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void" , ) PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT" PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void" ) AC_SUBST(PROTO_R_SET_RESULT) AC_SUBST(PROTO_R_SET_RETURN)
AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
),
[1]
[1]
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
]
),
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE({
#include <pwd.h>
void setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE({
#include <pwd.h>
int setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
})
)

PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE({
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {}
},[return (0):],

[ SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24410
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent **"
]
.
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
], [return (0)];
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
.
)
)
).
.
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent **"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
[ SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/" SERV_R_END_RETURN="#define SERV_R_END_RETURN void " SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/" ]
,
) AC_SUBST(SERV_R_END_RESULT) AC_SUBST(SERV_R_END_RETURN) AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r, AC_TRY_COMPILE(

[ #undef _REENTRANT #define _REENTRANT #undef __USE_MISC #define __USE_MISC #include <netdb.h> void setservent_r(int);
]
,,
[ SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT" SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void" ]
,
) AC_SUBST(SERV_R_SET_RESULT) AC_SUBST(SERV_R_SET_RETURN)
AC_TRY_COMPILE(  
[  
#undef _REENTRANT  
#define _REENTRANT  
#undef __USE_MISC  
#define __USE_MISC  
#include <unistd.h>  
#include <netdb.h>  
int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);  
]  
,,  
[  
INNETGR_ARGS="#undef INNETGR_ARGS"  
]  
)  

,  
AC_TRY_COMPILE(  
[  
#undef _REENTRANT  
#define _REENTRANT  
#undef __USE_MISC  
#define __USE_MISC  
#include <unistd.h>  
#include <netdb.h>  
int innetgr(char *netgroup, char *host, char *user, char *domain);  
]  
,,  
[  
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"  
]  
)  

))  

AC_TRY_COMPILE(  
[  
#undef _REENTRANT  
#define _REENTRANT  
#undef __USE_MISC  
#define __USE_MISC  
#include <unistd.h>  
#include <netdb.h>  
void setnetgrent(const char *);  
]  
,,  
[  
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"  
]  
)  

AC_TRY_COMPILE(
```c
#define _REENTRANT
#undef _REENTRANT
#define __USE_MISC
#undef __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);

SETNETGRENARGS="#define SETNETGRENARGS char *netgroup"

AC_SUBST(SETNETGRENARGS)
AC_SUBST(INNETGR_ARGS)

# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
  *-bsd3.1*)
hack_shutup_sputaux=yes
    ;;
  *-bsd4.0*)
hack_shutup_sigwait=yes
    hack_shutup_sputaux=yes
    hack_shutup_in6addr_init_macros=yes
    ;;
  *-bsd4.1*)
hack_shutup_stdargcast=yes
    ;;
  *-solaris2.8)
hack_shutup_pthreadonceinit=yes
    hack_shutup_in6addr_init_macros=yes
    ;;
esac

case "$Hack_shutup_pthreadonceinit" in
  yes)
    #
    # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
```
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
;;
esac

case "$hack_shutup_sigwait" in
  yes)
    #
    # Shut up a -Wmissing-prototypes warning for sigwait().
    #
    AC_DEFINE(SHUTUP_SIGWAIT)
    ;;
esac

case "$hack_shutup_sputaux" in
  yes)
    #
    # Shut up a -Wmissing-prototypes warning from <stdio.h>.
    #
    AC_DEFINE(SHUTUP_SPUTAUX)
    ;;
esac

case "$hack_shutup_stdargcast" in
  yes)
    #
    # Shut up a -Wcast-qual warning from va_start().
    #
    AC_DEFINE(SHUTUP_STDARG_CAST)
    ;;
esac

case "$hack_shutup_in6addr_init_macros" in
  yes)
    AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
    ;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
  make/rules
  make/mkdep
  make/includes
  Makefile
  bsd/Makefile
  dst/Makefile
  include/Makefile
  inet/Makefile
  irs/Makefile
  isc/Makefile
  nameser/Makefile
  port_after.h
  port_before.h
  resolv/Makefile
  port/Makefile
  ${PORT_DIR}/Makefile
  ${PORT_INCLUDE}/Makefile
)

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/configure.in

1.415 python-setuptools 39.2.0
1.415.1 Available under license:

Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.416 vim 8.0.1763 15.el8

1.417 ethtool 5.8-5.el8

1.417.1 Available under license :

No license file was found, but licenses were detected in source scan.

# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved.

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/journalctl                                     usr/bin/journalctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemctl                                      usr/bin/systemctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-inhibit                                usr/bin/systemd-inhibit
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-notify                                 usr/bin/systemd-notify
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-tmpfiles                               usr/bin/systemd-tmpfiles
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/udevadm                                       usr/bin/udevadm

contrib/yocto/CGE7/journald.conf                                                        etc/systemd/journald.conf
infra/systemd/system.conf                                                               etc/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/user.conf                                  etc/systemd/user.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf                                     etc/udev/udev.conf
/usr/lib/systemd/systemd                                                               init
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/basic.target
/usrlib/systemd/system/reboot.target                                                   /usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service                                                        /usr/lib/systemd/system/emergency.service
usr/lib/systemd/system/systemd-udev-trigger.service
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/system/systemd-udevd-control.socket
usr/lib/systemd/system/systemd-udevd-control.socket
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/system/systemd-udevd-kernel.socket
usr/lib/systemd/system/systemd-udevd-kernel.socket
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/system/timers.target
usr/lib/systemd/system/timers.target
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/system/time-sync.target
usr/lib/systemd/system/time-sync.target
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd
usr/lib/systemd/systemd
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/bin/systemd-socket-activate
usr/bin/systemd-socket-activate
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-journald
usr/lib/systemd/systemd-journald
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-sysctl
usr/lib/systemd/systemd-sysctl
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/systemd-udevd
usr/lib/systemd/systemd-udevd
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/udev/rules.d/99-systemd.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/bin/systemd-analyze
usr/bin/systemd-analyze
linkfarm/${SYSROOT}$/ARCH/${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf
usr/lib/systemd/system/systemd-journald.service.d/visible.conf
infra/systemd/sysctl/inotify-user-instances.conf
etc/sysctl.d/inotify-user-instances.conf

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd-common
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved.
(include systemd-common)

infra/systemd/switchroot/sysinit.target                                      usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service                            usr/lib/systemd/system/systemd-journald.service
infra/systemd/switchroot/systemd-timedated.service                           usr/lib/systemd/system/systemd-timedated.service
infra/systemd/switchroot/systemd-udevd.service                                usr/lib/systemd/system/systemd-udevd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd-swrt
No license file was found, but licenses were detected in source scan.

# Original Creation Date Unknown
# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved.

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/staprun                          usr/bin/staprun
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/libexec/systemtap/stapio           usr/libexec/systemtap/stapio

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemtap
No license file was found, but licenses were detected in source scan.

#
# Copyright (c) 2018, 2020 by Cisco Systems, Inc.
# All rights reserved

#files related to nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd                       usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify                      usr/sbin/sm-notify
infra/systemd/nfs-statd.service                                         usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat                        usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd                     usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount                               usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/${LIB}/libnfsidmap/nsswitch.so     etc/nfs-utils.conf
infra/systemd/nfs-idmapd.service                                         usr/lib/systemd/system/nfs-idmapd.service
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf                    etc/nfs-utils.conf

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24421
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-common
No license file was found, but licenses were detected in source scan.

#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved.

(include all-common)

(include systemd)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved.

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg      usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill      usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount    usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount   usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty   usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk   usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel    usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk   usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/flock     usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm      usr/bin/ipcrm
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24423

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/util-linux

No license file was found, but licenses were detected in source scan.

# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved.
#
# This file contains all needed files related to nfs server daemon.
#
# (include nfs-common)
# The following kernel modules are needed when NFSV4 support is configured
# in kernel.
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved.

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc  usr/bin/ipcalc

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/ipcalc
No license file was found, but licenses were detected in source scan.

#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved.

(include audit)
(include bash)
(include binutils)
(include bridge-utils)
(include busybox)
(include bzip2)
(include coreutils)
(include cpio)
(include dbus)
(include diffutils)
(include dosfstools)
(include e2fsprogs)
(include ethtool)
(include file)
(include filesystem)
(include findutils)
(include gawk)
(include glibc)
(include grep)
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)
(include less)
(include libcap)
(include lsof)
(include modules)
(include ncrest)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include shadow)
(include strace)
(include sysklogd)
(include systemtap)
(include sysvinit)
(include tar)
(include tcpcdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-common
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2016-2020 by Cisco Systems, Inc.
# All rights reserved.

(include systemd-common)

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd-preset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd-preset
/usr/lib/systemd/system/tmp.mount
/usr/lib/systemd/system-systemd-journald.service.d/visible.conf
/usr/lib/systemd/system/systemd-journald.service
/usr/lib/systemd/system/systemd-journald.service
/usr/lib/systemd/system/systemd-journald.service
/usr/lib/systemd/system/systemd-journald.service
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd
No license file was found, but licenses were detected in source scan.

#  
# Copyright (c) 2015-2020 by Cisco Systems, Inc.  
# All rights reserved.
#  
# This file contains all needed files related to nfs server daemon.
#  
infra/systemd/nfs-mountd.service                      usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service                      usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount                      usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs    usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd    usr/sbin/rpc.nfsd

(include nfs-common)
# The following  optional kernel modules are put here to allow forwarding
# compatable when NFSV4 support is configured in kenrel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfsv3 verver.
# so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#  
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-$(PLATFORM_SYSROOT)/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-$(PLATFORM_SYSROOT)/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-utils
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfs3/nfs-common
No license file was found, but licenses were detected in source scan.

#  
# Copyright (c) 2020 by Cisco Systems, Inc.  
# All rights reserved.

(include all-common)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-swrt
No license file was found, but licenses were detected in source scan.

#  
# Copyright (c) 2018 by Cisco Systems, Inc.  
# All rights reserved.

# This file is to store extra files needed to support NFSV4 client.
#
# Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfs-utils-client
No license file was found, but licenses were detected in source scan.

#  
# May 2018, Victor Kamensky  
#
# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved
#

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd               usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/audispd              usr/sbin/audispd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/autrace              usr/sbin/autrace
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/aureport             usr/sbin/aureport
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditctl             usr/sbin/auditctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ausearch             usr/sbin/ausearch

contrib/initscripts/binos/etc/audit/auditd.conf                etc/audit/auditd.conf
contrib/initscripts/binos/etc/audisp/audispd.conf              etc/audisp/audispd.conf
contrib/initscripts/binos/etc/audit/audit.rules                etc/audit/audit.rules
contrib/initscripts/binos/etc/audisp/plugins.d/syslog.conf     etc/audisp/plugins.d/syslog.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/default/auditd             etc/default/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/libaudit.conf              etc/libaudit.conf

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/audit
No license file was found, but licenses were detected in source scan.
```

# November 2018, Cisco Systems, Inc.
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#
```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ping           usr/bin/ping
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/tracepath      usr/bin/tracepath
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/in.tftpd-hpa usr/bin/tftpd

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/iputils
```

---

1.418 gmp 6.1.2 10.el8

1.418.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation’s software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author’s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24432
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.
An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.
The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be
A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.
Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.
Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.
Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified
version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:
0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work’s
users, your or third parties’ legal rights to forbid circumvention of
technological measures.


You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.419 graphite 1.3.10 10.el8
1.419.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
That's all there is to it!

/*  GRAPHITE2 LICENSING

Copyright 2010, SIL International
All rights reserved.

This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published
by the Free Software Foundation; either version 2.1 of License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
Lesser General Public License for more details.

You should also have received a copy of the GNU Lesser General Public
License along with this library in the file named "LICENSE".
If not, write to the Free Software Foundation, 51 Franklin Street,
Suite 500, Boston, MA 02110-1335, USA or visit their web page on the

Alternatively, you may use this library under the terms of the Mozilla
Public License (http://mozilla.org/MPL) or under the GNU General Public
License, as published by the Free Software Foundation; either version
2 of the license or (at your option) any later version.
*/
Format: http://dep.debian.net/deps/dep5
Upstream-Name: graphite2
Source: http://sf.net/projects/silgraphite

Files: *
Copyright: (C) 2010-2011, SIL International
License: LGPL-2+
  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Library General Public
  License as published by the Free Software Foundation; either
  version 2 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
  Library General Public License for more details.

  On Debian systems you should have a local copy of the GNU Library
General Public License in /usr/share/common-licenses/LGPL-2. If you downloaded the source you will find it in the file LICENSE; if not, along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Files: contrib/perl/*
Copyright: Copyright (C) 2011 Simon Cozens <simon@cpan.org>
License: GPL1+, Artistic
This program is free software; you can redistribute it and/or modify it under the terms of either:

a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version, or

b) the "Artistic License" which comes with Perl.

On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL' and the Artistic Licence in `/usr/share/common-licenses/Artistic'.

Files: contrib/perl/ppport.h
Copyright: 2004-2010, Marcus Holland-Moritz <mhx-cpan@gmx.net>  
2001, Paul Marquess <pmqs@cpan.org> (Version 2.x)  
1999, Kenneth Albanowski <kjahds@kjahds.com> (Version 1.x) 
License: Artistic or GPL-1+

Files: debian-src/*
Copyright: 2010 Martin Hosken <martin_hosken@sil.org>
License: LGPL-2+
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

On Debian systems you should have a local copy of the GNU Library General Public License in /usr/share/common-licenses/LGPL-2. If you downloaded the source you will find it in the file LICENSE; if not, along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Files: debian/*/*
Copyright: 2010 Martin Hosken <martin_hosken@sil.org>
2011 Rene Engelhard <rene@debian.org>
License: LGPL-2+
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

On Debian systems you should have a local copy of the GNU Library General Public License in /usr/share/common-licenses/LGPL-2. If you downloaded the source you will find it in the file LICENSE; if not, along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Files: tests/comparerenderer/icule/*
Copyright: Copyright (c) 1995-2006 International Business Machines Corporation and others
License: other
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

Files: gr2fonttest/gr2FontTest.cpp
Copyright: Copyright (C) 2005 www.thanlwinsoft.org
License: LGPL | other

Files: tests/comparerenderer/GrUtfTextSrc.*
Copyright: Copyright (C) 2004 Keith Stribley
License: MPL-1.1 | GPL-2 | LGPL-2.1

Files: tests/fonts/*
License: other

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
redistributed freely as long as they are not sold by themselves. The
fonts, including any derivative works, can be bundled, embedded,
redistributed and/or sold with any software provided that any reserved
names are not used by derivative works. The fonts and derivatives,
however, cannot be released under any other type of license. The
requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright
Holder(s) under this license and clearly marked as such. This may
include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the
copyright statement(s).

"Original Version" refers to the collection of Font Software components as
distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting,
or substituting -- in part or in whole -- any of the components of the
Original Version, by changing formats or by porting the Font Software to a
new environment.

"Author" refers to any designer, engineer, programmer, technical
writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.
1.420 boost 1.66.0 10.el8

1.420.1 Available under license:

Use of this software is granted under one of the following two licenses, to be chosen freely by the user.


$\begin{align*}
&\text{Copyright (c) 2006, 2007 Marcin Kalicinski} \\
&\text{Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:} \\
&\text{The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.} \\
&\text{THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.} \\
&\text{2. The MIT License} \\
&\text{Copyright (c) 2006, 2007 Marcin Kalicinski} \\
&\text{Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:} \\
&\text{The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.}$
$\end{align*}$
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

===========================================================================
Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

Use, modification and distribution is subject to the Boost Software License,
Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt)

===========================================================================

The default copyright note for C++ source files reads:

// Boost.Geometry (aka GGL, Generic Geometry Library)

// Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
// Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
// Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
// (geolib/GGL), copyright (c) 1995-2010 Geodan, Amsterdam, the Netherlands.

// Use, modification and distribution is subject to the Boost Software License,
// Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)

Exceptions:
1) Major work of any author -> might change order, change date
2) Exclusive work of one author including design -> might take sole copyright
Examples:
- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections
3) Examples -> might take sole copyright
4) Tests -> might take sole copyright
5) Docs -> might take sole copyright
6) Utilities e.g. converters -> might take sole copyright

The copyright note for other (source) files as .py, Jamfiles, etc is similar
Copyright Test

(articleinfo)

(copyright)

(year)1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>

</copyright>

(copyright)

(year)2018</year> <holder>Joe Blow, John Coe</holder>

</copyright>

(copyright)

(year)1977</year> <year>1985</year> <holder>Someone else</holder>

</copyright>

</articleinfo>

Copyright Louis Dionne 2013-2017

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2015-2016 Barrett Adair

Boost Software License - Version 1.0 - August 17th, 2003
Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

+/\n|+\Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\+/

This is Release 2.4 of Jam/MR, a make-like program.

License is hereby granted to use this software and distribute it freely, as long as this copyright notice is retained and modifications are clearly marked.

ALL WARRANTIES ARE HEREBY DISCLAIMED.

Some portions are also:

Copyright 2001-2006 David Abrahams.
Copyright 2002-2006 Rene Rivera.
Copyright 2003-2006 Vladimir Prus.

Distributed under the Boost Software License, Version 1.0.
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright Igor Sysoev.
Additional changes are licensed under the same terms as NGINX and copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mitiam.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Software License, Version 1.0

Copyright 2002-2003, Trustees of Indiana University.
Copyright 2000-2001, University of Notre Dame.
All rights reserved.

Indiana University has the exclusive rights to license this product under the following license.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* All redistributions of source code must retain the above copyright notice, the list of authors in the original source code, this list of conditions and the disclaimer listed in this license;

* All redistributions in binary form must reproduce the above copyright notice, this list of conditions and the disclaimer listed in this license in the documentation and/or other materials provided with the distribution;

* Any documentation included with all redistributions must include the following acknowledgement:

"This product includes software developed at the University of Notre Dame and the Pervasive Technology Labs at Indiana University. For technical information contact Andrew Lumsdaine at the Pervasive Technology Labs at Indiana University. For administrative and license questions contact the Advanced Research and Technology Institute at 351 West 10th Street, Indianapolis, Indiana 46202, phone 317-278-4100, fax 317-274-5902."

Alternatively, this acknowledgement may appear in the software itself, and wherever such third-party acknowledgments normally appear.

* The name Indiana University, the University of Notre Dame or "Caramel" shall not be used to endorse or promote products derived from this software without prior written permission from Indiana University. For written permission, please contact Indiana University Advanced Research & Technology Institute.

* Products derived from this software may not be called "Caramel", nor may Indiana University, the University of Notre Dame or "Caramel" appear in their name, without prior written permission of Indiana University Advanced Research & Technology Institute.
Indiana University provides no reassurances that the source code provided does not infringe the patent or any other intellectual property rights of any other entity. Indiana University disclaims any liability to any recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise.

LICENSEE UNDERSTANDS THAT SOFTWARE IS PROVIDED "AS IS" FOR WHICH NO WARRANTIES AS TO CAPABILITIES OR ACCURACY ARE MADE. INDIANA UNIVERSITY GIVES NO WARRANTIES AND MAKES NO REPRESENTATION THAT SOFTWARE IS FREE OF INFRINGEMENT OF THIRD PARTY PATENT, COPYRIGHT, OR OTHER PROPRIETARY RIGHTS. INDIANA UNIVERSITY MAKES NO WARRANTIES THAT SOFTWARE IS FREE FROM "BUGS", "VIRUSES", "TROJAN HORSES", "TRAP DOORS", "WORMS", OR OTHER HARMFUL CODE. LICENSEE ASSUMES THE ENTIRE RISK AS TO THE PERFORMANCE OF SOFTWARE AND/OR ASSOCIATED MATERIALS, AND TO THE PERFORMANCE AND VALIDITY OF INFORMATION GENERATED USING SOFTWARE.

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- visions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Darylle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernao_cacciola@ciudad.com.ar)
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24491

Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg -at- amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennady Rozental (rogef -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuitinnen ilari.kuitinnen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff -at- crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- iive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullick Bjnnes (larsbj -at- lxy.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmeno57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link::/././../libs/mpl/MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`. 
1.421 gtk 2.24.32-5.el8

1.421.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This work may be reproduced and distributed in whole or in part, in
any medium, physical or electronic, so as long as this copyright
notice remains intact and unchanged on all copies. Commercial
redistribution is permitted and encouraged, but you may not
redistribute, in whole or in part, under terms more restrictive than
those under which you received it. If you redistribute a modified or
translated version of this work, you must also make the source code to
the modified or translated version available in electronic form
without charge. However, mere aggregation as part of a larger work
shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain,
and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE WORK AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
WORK, EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

GNU LESSER GENERAL PUBLIC LICENSE
   Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
   59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

**1.422 isl 0.16.1-6.el8**

**1.422.1 Available under license :**

MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**1.423 sed 4.5 2.el8**

**1.423.1 Available under license :**

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.424 fiddle 1.0.9
1.424.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.425 myapp 0.1.0-0001

1.425.1 Available under license:

MIT License

Copyright (c) 2017 Kubernetes Community

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.426 libusbx 1.0.23 4.el8

1.426.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  Copyright (C) <year>  <name of author>
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.427 jinja2 3.0.1

1.427.1 Available under license:
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.1
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

```bash
$ pip install -U Jinja2
```

In A Nutshell
-------------

```jinja
```
Donate
------

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
- Website: https://palletsprojects.com/p/jinja/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

[metadata]
name = Jinja2
version = attr: Jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://jinja.palletsprojects.com/
    Changes = https://jinja.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/jinja/
    Issue Tracker = https://github.com/pallets/jinja/issues/
Twitter = https://twitter.com/PalletsTeam
Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
    package_dir = = src
    include_package_data = true
    python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
    error

[coverage:run]
branch = True
    source =
jinja2
tests

[coverage:paths]
    source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1166437412_1621420347.71/0/jinja2-3-0-1-tar-gz/Jinja2-3.0.1/setup.cfg

1.428 brotli 1.0.6-3.el8
1.428.1 Available under license:
Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.429 kmod 25-17.el8
1.429.1 Available under license:
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

- If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that distributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

LGPL

1.430 dbus-python 1.2.4 15.el8

1.430.1 Available under license:

As of version 0.82.4, dbus-python is released under the following permissive non-copyleft license (the same one that was proposed for D-Bus core but wasn't achieved):

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright holders and licensing are indicated in the source files.

1.431 log-rotate 3.14.0 4.el8

1.431.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.432 python-configobj 5.0.6 11.el8

1.432.1 Available under license:

Copyright (c):
2003-2010, Michael Foord
2014, Eli Courtwright, Rob Dennis
All rights reserved.
E-mails:
fuzzyman AT voidspace DOT org DOT uk
eli AT courtwright DOT org
rdennis AT gmail DOT com

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the names of Michael Foord, Eli Courtwright or Rob Dennis, nor the name of Voidspace, may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.433 urw-base35-fonts 20170801 10.el8
1. Available under license:

GNU AFFERO GENERAL PUBLIC LICENSE
Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU Affero General Public License is a free, copyleft license for
software and other kinds of works, specifically designed to ensure
cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
our General Public Licenses are intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights
with two steps: (1) assert copyright on the software, and (2) offer
you this License which gives you legal permission to copy, distribute
and/or modify the software.

A secondary benefit of defending all users' freedom is that
improvements made in alternate versions of the program, if they
receive widespread use, become available for other developers to
incorporate. Many developers of free software are heartened and
encouraged by the resulting cooperation. However, in the case of
software used on network servers, this result may fail to come about.
The GNU General Public License permits making a modified version and
letting the public access it on a server without ever releasing its
source code to the public.

The GNU Affero General Public License is designed specifically to
ensure that, in such cases, the modified source code becomes available
to the community. It requires the operator of a network server to
provide the source code of the modified version running there to the
users of that server. Therefore, public use of a modified version, on
a publicly accessible server, gives the public access to the source
code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.
All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.
You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.
If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer
network, you should also make sure that it provides a way for users to
get its source. For example, if your program is a web application, its
interface could display a "Source" link that leads users to an archive
of the code. There are many ways you could offer source, and different
solutions will be better for different programs; see section 13 for the
specific requirements.

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU AGPL, see
<http://www.gnu.org/licenses/>.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69. Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The font and related files in this directory are distributed under the GNU AFFERO GENERAL PUBLIC LICENSE Version 3 (see the file COPYING), with the following exemption:

As a special exception, permission is granted to include these font programs in a Postscript or PDF file that consists of a document that
1.434 nftables 0.9.6-2.ph3
1.434.1 Available under license:

nftables is distributed under the terms of the GPL version 2. Note that
*only* version 2 of the GPL applies, not "any later version".

Patrick McHardy <kaber@trash.net>

---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.  (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.435 centos-linux 8.4-1.2105.el8

1.435.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

```
# -*- coding: utf-8 -*-
```

The CentOS distribution would not be possible without the hard work and dedication of a large number of talented people. It's only fair that we acknowledge the time and effort that they have put into the distribution.

We are always in need of more volunteers. If you're interested in joining the CentOS Project, please join us on irc.freenode.net in #centos-devel or via the mailing list at http://lists.centos.org/pipermail/centos-devel/

```
## Special Recognition ##
```

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build
machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

Akemi Matsuno-Yagi
Alain Reguera Delgado
Alan Bartlett
Andreas Thienemann
Anssi Johansson
Athmane Madjoudj
Bonnie King
Brian Stinson
Carl Trieloff
Christoph Galuschka
Fabian Arrotin
Jakub Filak
James Moger
Jeff Sheltren
Jim Perrin
Johnny Hughes Jr
Karanbir Singh
Karsten Wade
Kay Williams
Manuel Wolfshant
Matej Habrnal
Marcus Moeller
Michael Scherer
Mike McLean
Pablo Sebastian Greco
Pat Riehecky
Ralph Angenendt
Scott Robbins
Stephen John Smoogen
Trevor Hemsley
Tru Huynh
Tuomas Kuosmanen
Tuomo Soini
CentOS 8 Linux comes with no guarantees or warranties of any sorts, either written or implied.

The Distribution is released as GPLv2. Individual packages in the distribution come with their own licences. A copy of the GPLv2 license is included with the distribution media.

**1.436 libyaml 0.2.5**

**1.436.1 Available under license:**

Copyright (c) 2017-2020 Ingy dt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**1.437 tuned 2.15.0-2.el8_4.1**

**1.437.1 Available under license:**

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the appropriate
    parts of the General Public License. Of course, the commands you use may
    be called something other than `show w' and `show c'; they could even be
    mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

    This General Public License does not permit incorporating your program into
    proprietary programs. If your program is a subroutine library, you may
    consider it more useful to permit linking proprietary applications with the
    library. If this is what you want to do, use the GNU Lesser General
    Public License instead of this License.

1.438 libipt 1.6.1-8.el8
1.438.1 Available under license:
Copyright (c) 2013-2017, Intel Corporation

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.439 sudo 1.8.29-7.el8
1.439.1 Available under license:
Sudo is distributed under the following license:

Copyright (c) 1994-1996, 1998-2019
   Todd C. Miller <Todd.Miller@sudo.ws>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Sponsored in part by the Defense Advanced Research Projects
Agency (DARPA) and Air Force Research Laboratory, Air Force Materiel Command, USAF, under agreement number F39502-99-1-0512.

The file redblack.c bears the following license:

Copyright (c) 2001 Emin Martinian

Redistribution and use in source and binary forms, with or without modification, are permitted provided that neither the name of Emin Martinian nor the names of any contributors are be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file reallocarray.c bears the following license:

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files getcwd.c, glob.c, glob.h, snprintf.c and sudo_queue.h bear the following license:

Copyright (c) 1989, 1990, 1991, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file fnmatch.c bears the following license:

Copyright (c) 2011, VMware, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the VMware, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL VMWARE, INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
The file getopt_long.c bears the following license:

Copyright (c) 2000 The NetBSD Foundation, Inc.
All rights reserved.

This code is derived from software contributed to The NetBSD Foundation by Dieter Baron and Thomas Klausner.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

The file inet_pton.c bears the following license:

Copyright (c) 1996 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
The file arc4random.c bears the following license:

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>
Copyright (c) 2013, Markus Friedl <markus@openbsd.org>
Copyright (c) 2014, Theo de Raadt <deraadt@openbsd.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file arc4random_uniform.c bears the following license:

Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file getentropy.c bears the following license:

Copyright (c) 2014 Theo de Raadt <deraadt@openbsd.org>
Copyright (c) 2014 Bob Beck <beck@obtuse.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The embedded copy of zlib bears the following license:

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vrslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryisinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Grabr, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Jansen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieuisma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frédéric
Margevičius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.440 rfkill 2.32.1-27.el8.x86_64
1.440.1 Available under license:

/*
 * Copyright (c) 1989 The Regents of the University of California.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 * This product includes software developed by the University of
 * California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 * may be used to endorse or promote products derived from this software
 * without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  * SUCH DAMAGE.
*/

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
./Documentation/licenses/COPYING.LGPLv2.1 file.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANDISABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  24637
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.
An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.
The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded.
from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.


You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.
Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you
Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

Less License
-----------
Less
Copyright (C) 1984-2016  Mark Nudelman

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice in the documentation and/or other materials provided with
   the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.442 perl-term-ansicolor 4.06 396.el8
1.442.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Comment: This file documents the copyright statements and licenses for
every file in this package in a machine-readable format. For a less
detailed, higher-level overview, see README.

For any copyright year range specified as YYYY-ZZZZ in this file, the
range specifies every single year in that closed interval.

Files: *
Copyright: 1996 Zenin
1996-2002, 2005-2006, 2008-2016 Russ Allbery <rra@cpan.org>
2011 Revilo Reegiles
2012 Kurt Starsinic <kstarsinic@gmail.com>
2012 Stephen Thirlwall
License: Perl
This program is free software; you may redistribute it and/or modify it
under the same terms as Perl itself. This means that you may choose
between the two licenses that Perl is released under: the GNU GPL and the
Artistic License. Please see your Perl distribution for the details and
copies of the licenses.
Files: t/data/perlcriticrc t/docs/pod-coverage.t t/docs/pod-spelling.t
t/docs/pod.t t/docs/synopsis.t t/docs/urls.t t/lib/Test/RRA.pm
t/lib/Test/RRA/Config.pm t/style/coverage.t t/style/critic.t
t/style/minimum-version.t t/style/strict.t

Copyright: 2011-2014

The Board of Trustees of the Leland Stanford Junior University
2015-2016 Russ Allbery <eagle@eyrie.org>

License: Expat

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the
following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.443 setools 4.3.0

1.443.1 Available under license:

The intent is to allow free use of this source code. All programs' source files are copyright protected and freely distributed under the GNU General Public License (see COPYING.GPL). All library source files are copyright under the GNU Lesser General Public License (see COPYING.LGPL). All files distributed with this package indicate the appropriate license to use with that file. Absolutely no warranty is provided or implied.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts}
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.444 libxcb 1.13.1 1.el8

**1.444.1 Available under license:**

Copyright (C) 2001-2006 Bart Massey, Jamey Sharp, and Josh Triplett. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the names of the authors or their institutions shall not be used in advertising or
otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the authors.

1.445 ipcalc 0.2.4 4.el8

1.445.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author’s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program’s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.446 jbig-kit 2.1-14.el8
1.446.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING 
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED 
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY 
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER 
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE 
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest 
possible use to the public, the best way to achieve this is to make it 
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest 
to attach them to the start of each source file to most effectively 
convey the exclusion of warranty; and each file should have at least 
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify 
it under the terms of the GNU General Public License as published by 
the Free Software Foundation; either version 2 of the License, or 
(at your option) any later version.

This program is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License 
along with this program; if not, write to the Free Software 
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this 
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author 
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. 
This is free software, and you are welcome to redistribute it 
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.447 libcap-ng 0.7.9 5.el8
1.447.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

   Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

   In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

   3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

(one line to give the program's name and a brief idea of what it does.)
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.448 libsm 1.2.3 1.el8
1.448.1 Available under license:

Copyright (c) 2002, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright 1993, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

1.449 dwz 0.12-9.el8

1.449.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.
To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.
The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work’s users, your or third parties’ legal rights to forbid circumvention of technological measures.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.
If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it...
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.
1.450 visual-studio-runtime 14.00.24210.0

1.450.1 Available under license:

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

This project incorporates components from the projects listed below. The original copyright notices and the licenses under which Microsoft received such components are set forth below. Microsoft reserves all rights not expressly granted herein, whether by implication, estoppel or otherwise.

%%% winjs version 4.4.0 (https://github.com/winjs/winjs)
========================================
WinJS
Copyright (c) Microsoft Corporation
All rights reserved.
MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ""Software""), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF winjs NOTICES AND INFORMATION

%%% string_score version 0.1.20 (https://github.com/joshaven/string_score)
This software is released under the MIT license:

Copyright (c) Joshaven Potter

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF string_scorer NOTICES AND INFORMATION

---

The MIT License (MIT)

Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF chjj-marked NOTICES AND INFORMATION

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
For Microsoft vscode-theme-seti

This file is based on or incorporates material from the projects listed below ("Third Party OSS"). The original copyright notice and the license under which Microsoft received such Third Party OSS, are set forth below. Such licenses and notice are provided for informational purposes only. Microsoft licenses the Third Party OSS to you under the licensing terms for the Microsoft product or service. Microsoft reserves all other rights not expressly granted under this agreement, whether by implication, estoppel or otherwise.


Copyright (c) 2014 Jesse Weed

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Monarch definition & snippets:

The MIT License (MIT)

Copyright (c) 2015 David Owens II

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Text mate grammar:

Copyright (c) 2014 Darin Morrison

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2016 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

MIT License

Copyright (c) 2015 - present Microsoft Corporation

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

microsoft-vscode

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

This project incorporates components from the projects listed below. The original copyright notices and the licenses under which Microsoft received such components are set forth below. Microsoft reserves all rights not expressly granted herein, whether by implication, estoppel or otherwise.

1. atom/language-c (https://github.com/atom/language-c)
5. atom/language-java (https://github.com/atom/language-java)
7. atom/language-sass version 0.52.0 (https://github.com/atom/language-sass)
10. chjj-marked version 0.3.6 (https://github.com/npmcomponent/chjj-marked)
11. chriskempson/tomorrow-theme (https://github.com/chriskempson/tomorrow-theme)
12. Colors sublime-Themes version 0.1.0 (https://github.com/Colors sublime/Colors sublime-Themes)
13. daaain/Handlebars (https://github.com/daaain/Handlebars)
15. definitelytyped (https://github.com/atom/definitelytyped)
17. dotnet/csharp-tmLanguage version 0.1.0 (https://github.com/dotnet/csharp-tmLanguage)
19. HTML 5.1 W3C Working Draft version 08 October 2015 (http://www.w3.org/TR/2015/WD-html51-20151008/)
20. Ionic documentation version 1.2.4 (https://github.com/ionic-team/ionic-site)
22. js-beautify version 1.6.8 (https://github.com/beautify-web/js-beautify)
23. Jxck/assert version 1.0.0 (https://github.com/Jxck/assert)
24. language-docker (https://github.com/moby/moby)
25. language-go version 0.39.0 (https://github.com/atom/language-go)
26. language-less (https://github.com/atom/language-less)
28. language-rust version 0.4.9 (https://github.com/zargony/atom-language-rust)
30. Microsoft/TypeScript-TmLanguage version 0.0.1 (https://github.com/Microsoft/TypeScript-TmLanguage)
31. octicons-code version 3.1.0 (https://github.com/octicons)
32. octicons-font version 3.1.0 (https://github.com/octicons)
33. seti-ui version 0.1.0 (https://github.com/jesseweed/seti-ui)
34. shaders-tmLanguage version 0.1.0 (https://github.com/tjgones/shaders-tmLanguage)
35. string scorer version 0.1.20 (https://github.com/joshaven/string_score)
36. sublimehq/Packages (https://github.com/sublimehq/Packages)
37. SublimeText/PowerShell (https://github.com/SublimeText/PowerShell)
38. textmate/asp.vb.net.tmbundle (https://github.com/textmate/asp.vb.net.tmbundle)
39. textmate/c.tmbundle (https://github.com/textmate/c.tmbundle)
40. textmate/diff.tmbundle (https://github.com/textmate/diff.tmbundle)
41. textmate/git.tmbundle (https://github.com/textmate/git.tmbundle)
42. textmate/groovy.tmbundle (https://github.com/textmate/groovy.tmbundle)
43. textmate/html.tmbundle (https://github.com/textmate/html.tmbundle)
44. textmate/ini.tmbundle (https://github.com/textmate/ini.tmbundle)
45. textmate/javascript.tmbundle (https://github.com/textmate/javascript.tmbundle)
46. textmate/lu.a.tmbundle (https://github.com/textmate/lu.a.tmbundle)
47. textmate/make.tmbundle (https://github.com/textmate/make.tmbundle)
48. textmate/markdown.tmbundle (https://github.com/textmate/markdown.tmbundle)
49. textmate/perl.tmbundle (https://github.com/textmate/perl.tmbundle)
50. textmate/r.tmbundle (https://github.com/textmate/r.tmbundle)
51. textmate/ruby.tmbundle (https://github.com/textmate/ruby.tmbundle)
52. textmate/shellscrip.tmbundle (https://github.com/textmate/shellscrip.tmbundle)
53. textmate/sql.tmbundle (https://github.com/textmate/sql.tmbundle)
54. textmate/yaml.tmbundle (https://github.com/textmate/yaml.tmbundle)
55. TypeScript-TmLanguage version 0.1.8 (https://github.com/Microsoft/TypeScript-TmLanguage)
56. vscode-swift version 0.0.1 (https://github.com/owensd/vscode-swift)

```
%% atom/language-c NOTICES AND INFORMATION BEGIN HERE
========================================
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```
This package was derived from a TextMate bundle located at
https://github.com/textmate/c.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

========================================
END OF atom/language-c NOTICES AND INFORMATION

%% atom/language-clojure NOTICES AND INFORMATION BEGIN HERE

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/mmcgrana/textmate-clojure and distributed under the
following license, located in `LICENSE.md`:

The MIT License (MIT)

Copyright (c) 2010- Mark McGranaghan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

END OF atom/language-clojure NOTICES AND INFORMATION

%% atom/language-coffee-script NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/jashkenas/coffee-script-tmbundle and distributed under the
following license, located in `LICENSE`:

Copyright (c) 2009-2014 Jeremy Ashkenas
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF atom/language-coffee-script NOTICES AND INFORMATION

%% atom/language-css NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This package was derived from a TextMate bundle located at https://github.com/textmate/css.tmbundle and distributed under the following license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

========================================
END OF atom/language-css NOTICES AND INFORMATION

%% atom/language-java NOTICES AND INFORMATION BEGIN HERE

========================================
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at https://github.com/textmate/java.tmbundle and distributed under the following license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

========================================
END OF atom/language-java NOTICES AND INFORMATION
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at https://github.com/textmate/objective-c.tmbundle and distributed under the following license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

END OF atom/language-objective-c NOTICES AND INFORMATION
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/alexsancho/Sass.tmbundle and distributed under the following
license, located in `LICENSE.md`:

Copyright (c) 2012 Alex Sancho, http://alexsancho.name/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF atom/language-sass NOTICES AND INFORMATION

The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at https://github.com/textmate/xml.tmbundle and distributed under the following license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

END OF atom/language-xml NOTICES AND INFORMATION

%%% Benvie/JavaScriptNext.tmLanguage NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2015 simonzack, zertos, benvie

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF Benvie/JavaScriptNext.tmLanguage NOTICES AND INFORMATION

%% chjj-marked NOTICES AND INFORMATION BEGIN HERE

================================================================================

The MIT License (MIT)

Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF chjj-marked NOTICES AND INFORMATION

%% chriskempson/tomorrow-theme NOTICES AND INFORMATION BEGIN HERE

================================================================================

The MIT License (MIT)

Copyright (C) 2013 Chris Kempson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF chris Kempson/tomorrow-theme NOTICES AND INFORMATION

%% Colorsublime-Themes NOTICES AND INFORMATION BEGIN HERE

Copyright (c) 2015 Colorsublime.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF Colors sublime-Themes NOTICES AND INFORMATION

%% daain/Handlebars NOTICES AND INFORMATION BEGIN HERE

-- Credits

Adapted from the great sublime-text-handlebars package by Nicholas Westlake.

Thanks a lot to all the generous contributors (in alphabetical order): @bittersweetryan, @bradcliffe, @calumbrodie, @duncanbeevrs, @hlvnst, @jonschlinkert, @Krutius, @samselikoff, @utkarshkukreti, @zeppelin

-- License
(The MIT License)

Copyright (c) daaain/Handlebars project authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF daaain/Handlebars NOTICES AND INFORMATION

%% davidrios/jade-tmbundle NOTICES AND INFORMATION BEGIN HERE

========================================
The MIT License (MIT)

Copyright (c) 2014 David Rios

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to
whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF davidrios/jade-tmbundle NOTICES AND INFORMATION

%% definitelytyped NOTICES AND INFORMATION BEGIN HERE

========================================
This project is licensed under the MIT license. Copyrights are respective of each contributor listed at the beginning of each definition file.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF definitelytyped NOTICES AND INFORMATION

%% demyte/language-cshtml NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2014 James Summerton

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF demyte/language-cshtml NOTICES AND INFORMATION

%% dotnet/csharp-tmLanguage NOTICES AND INFORMATION BEGIN HERE
MIT License

Copyright (c) 2016 .NET Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF dotnet/csharp-tmLanguage NOTICES AND INFORMATION

% freebroccolo/atom-language-swift NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2014 Darin Morrison

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2015 W3C (MIT, ERCIM, Keio, Beihang). This software or document includes material copied from or derived from HTML 5.1 W3C Working Draft (http://www.w3.org/TR/2015/WD-html51-20151008/)

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

END OF HTML 5.1 W3C Working Draft NOTICES AND INFORMATION

%% Ionic documentation NOTICES AND INFORMATION BEGIN HERE


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or
indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

“You” (or “Your”) shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

“Contribution” shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor” shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

END OF Ionic documentation NOTICES AND INFORMATION

%% ionide/ionide-fsgrammar NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2015 Krzysztof Cieslak

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF ionide/ionide-fsgrammar NOTICES AND INFORMATION

%% js-beautify NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2007-2017 Einar Lielmanis, Liam Newman, and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF js-beautify NOTICES AND INFORMATION

%% Jxck/assert NOTICES AND INFORMATION BEGIN HERE

=================================================================================

The MIT License (MIT)

Copyright (c) 2011 Jxck

Originally from node.js (http://nodejs.org)
Copyright Joyent, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF Jxck/assert NOTICES AND INFORMATION

%% language-docker NOTICES AND INFORMATION BEGIN HERE

=================================================================================

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2013-2017 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

END OF TERMS AND CONDITIONS

Copyright 2013-2017 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

END OF TERMS AND CONDITIONS
Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at https://github.com/rsms/Go.tmbundle and distributed under the following license, located in `LICENSE`:

Copyright (c) 2009 Rasmus Andersson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The Go Template grammar was derived from GoSublime located at https://github.com/DisposaBoy/GoSublime and distributed under the following license, located in `LICENSE.md`:

Copyright (c) 2012 The GoSublime Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF language-go NOTICES AND INFORMATION

The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/less.tmbundle and distributed under the following
license, located in `LICENSE.md`:

Copyright (c) 2010 Scott Kyle and Rasmus Andersson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

END OF language-less NOTICES AND INFORMATION

The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/php.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

END OF language-php NOTICES AND INFORMATION

%% language-rust NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright `2013` `Andreas Neuhaus` `http://zargony.com/

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF language-rust NOTICES AND INFORMATION

%% MagicStack/MagicPython NOTICES AND INFORMATION BEGIN HERE

The MIT License
Copyright (c) 2015-present MagicStack Inc.  http://magic.io

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF MagicStack/MagicPython NOTICES AND INFORMATION

%% Microsoft/TypeScript-TmLanguage NOTICES AND INFORMATION BEGIN HERE
========================================
Copyright (c) Microsoft Corporation. All rights reserved.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
=========================================
END OF Microsoft/TypeScript-TmLanguage NOTICES AND INFORMATION

%% octicons-code NOTICES AND INFORMATION BEGIN HERE
=========================================
The MIT License (MIT)
(c) 2012-2015 GitHub

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF octicons-code NOTICES AND INFORMATION

%% octicons-font NOTICES AND INFORMATION BEGIN HERE
=========================================
(c) 2012-2015 GitHub

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

END OF octicons-font NOTICES AND INFORMATION

%% seti-ui NOTICES AND INFORMATION BEGIN HERE

Copyright (c) 2014 Jesse Weed

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================= END OF seti-ui NOTICES AND INFORMATION

%% shaders-tmLanguage NOTICES AND INFORMATION BEGIN HERE

===================================================================

MIT License

Copyright (c) 2017 Tim Jones

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=================================================================== END OF shaders-tmLanguage NOTICES AND INFORMATION

%% string_scorer NOTICES AND INFORMATION BEGIN HERE

===================================================================

This software is released under the MIT license:

Copyright (c) Joshaven Potter

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF string_scorder NOTICES AND INFORMATION

%% sublimehq/Packages NOTICES AND INFORMATION BEGIN HERE

Copyright (c) Sublime Packages project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF sublimehq/Packages NOTICES AND INFORMATION

%% SublimeText/PowerShell NOTICES AND INFORMATION BEGIN HERE

The MIT License (MIT)

Copyright (c) 2011 Guillermo Lpez-Anglada

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================
END OF SublimeText/PowerShell NOTICES AND INFORMATION

%% textmate/asp.vb.net.tmbundle NOTICES AND INFORMATION BEGIN HERE

=====================================================================
Copyright (c) textmate-asp.vb.net.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

=====================================================================
END OF textmate/asp.vb.net.tmbundle NOTICES AND INFORMATION

%% textmate/c.tmbundle NOTICES AND INFORMATION BEGIN HERE

=====================================================================
Copyright (c) textmate-c.tmbundle authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

=====================================================================
END OF textmate/c.tmbundle NOTICES AND INFORMATION

%% textmate/diff.tmbundle NOTICES AND INFORMATION BEGIN HERE

=====================================================================
Copyright (c) textmate-diff.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

-------------------------------------------------------------------
Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a ".license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/diff.tmbundle NOTICES AND INFORMATION

The MIT License (MIT)

Copyright (c) 2008 Tim Harper

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF textmate/git.tmbundle NOTICES AND INFORMATION

Copyright (c) textmate-groovy.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/groovy.tmbundle NOTICES AND INFORMATION

%% textmate/html.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-html.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/html.tmbundle NOTICES AND INFORMATION

%% textmate/ini.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-ini.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/ini.tmbundle NOTICES AND INFORMATION

%% textmate/javascript.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate/javascript.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/javascript.tmbundle NOTICES AND INFORMATION
Copyright (c) textmate-javascript.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/javascript.tmbundle NOTICES AND INFORMATION

%% textmate/lua.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-lua.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/lua.tmbundle NOTICES AND INFORMATION

%% textmate/make.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-make.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".

END OF textmate/make.tmbundle NOTICES AND INFORMATION

%% textmate/markdown.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) markdown.tmbundle authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/markdown.tmbundle NOTICES AND INFORMATION

%% textmate/perl.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-perl.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/perl.tmbundle NOTICES AND INFORMATION

%% textmate/r.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-r.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

END OF textmate/r.tmbundle NOTICES AND INFORMATION

%% textmate/ruby.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-ruby.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".

END OF textmate/ruby.tmbundle NOTICES AND INFORMATION

%% textmate/shellscript.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-shellscript.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".

END OF textmate/shellscript.tmbundle NOTICES AND INFORMATION

%% textmate/sql.tmbundle NOTICES AND INFORMATION BEGIN HERE

Copyright (c) textmate-sql.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this

software is granted. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

An exception is made for files in readable text which contain their own license information, or files where an accompanying file exists (in the same directory) with a "-license" suffix added to the base-name name of the original file, and an extension of txt, html, or similar. For example "tidy" is accompanied by "tidy-license.txt".

END OF textmate/sql.tmbundle NOTICES AND INFORMATION

Copyright (c) 2015 FichteFoll <fichtefoll2@googlemail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END OF textmate/yaml.tmbundle NOTICES AND INFORMATION

Copyright (c) Microsoft Corporation. All rights reserved.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
========================================
END OF TypeScript-TmLanguage NOTICES AND INFORMATION

%% vscode-swift NOTICES AND INFORMATION BEGIN HERE

========================================
The MIT License (MIT)

Copyright (c) 2015 David Owens II

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
========================================
END OF vscode-swift NOTICES AND INFORMATION
Microsoft Public License (Ms-PL)

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

1. Definitions

The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under U.S. copyright law.

A "contribution" is the original software, or any additions or changes to the software.

A "contributor" is any person that distributes its contribution under this license.

"Licensed patents" are a contributor's patent claims that read directly on its contribution.

2. Grant of Rights

(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that you create.

(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

3. Conditions and Limitations

(A) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or trademarks.

(B) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.

(C) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.

(D) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.

(E) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot
change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT VISUAL STUDIO ENTERPRISE 2017, VISUAL STUDIO PROFESSIONAL 2017, VISUAL STUDIO TEST PROFESSIONAL 2017 AND TRIAL EDITION

These license terms are an agreement between you and Microsoft Corporation (or based on where you live, one of its affiliates). They apply to the software named above. The terms also apply to any Microsoft services and updates for the software, except to the extent those have different terms.

BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE. INSTEAD, RETURN IT TO THE RETAILER FOR A REFUND OR CREDIT. If you cannot obtain a refund there, contact Microsoft about Microsoft’s refund policies. See www.microsoft.com/worldwide. In the United States and Canada, call (800) MICROSOFT or see www.microsoft.com/info/nareturns.htm.

TRIAL EDITION USE RIGHTS. If the software is a trial edition, this Section applies to your use of the trial edition.

A. GENERAL. You may use any number of copies of the trial edition on your devices. You may only use the trial edition for internal evaluation purposes, and only during the trial period. You may not distribute or deploy any applications you make with the trial edition to a production environment. You may run load tests of up to 250 virtual users during the trial period.

B. TRIAL PERIOD AND CONVERSION. The trial period lasts for 30 days after you install the trial edition, plus any permitted extension period. After the expiration of the trial period, the trial edition will stop running. You may extend the trial period an additional 90 days if you sign in to the software. You may not be able to access data used with the trial edition when it stops running. You may convert your trial rights at any time to the full-use rights described below by acquiring a valid full-use license.

C. DISCLAIMER OF WARRANTY. THE TRIAL EDITION IS LICENSED "AS-IS." YOU BEAR THE RISK OF USING IT. MICROSOFT GIVES NO EXPRESS WARRANTIES, GUARANTEES OR CONDITIONS. TO THE EXTENT PERMITTED UNDER YOUR LOCAL LAWS, MICROSOFT EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.
FOR AUSTRALIA – YOU HAVE STATUTORY GUARANTEES UNDER THE AUSTRALIAN CONSUMER LAW AND NOTHING IN THESE TERMS IS INTENDED TO AFFECT THOSE RIGHTS.

D. SUPPORT. Because the trial edition is “as is,” we may not provide support services for it.

E. LIMITATIONS ON DAMAGES. YOU CAN RECOVER FROM MICROSOFT AND ITS SUPPLIERS ONLY DIRECT DAMAGES UP TO U.S. $5.00. YOU CANNOT RECOVER ANY OTHER DAMAGES, INCLUDING CONSEQUENTIAL, LOST PROFITS, SPECIAL, INDIRECT OR INCIDENTAL DAMAGES.

This limitation applies to (a) anything related to the trial version, services, content (including code) on third party Internet sites, or third party programs; and (b) claims for breach of contract, breach of warranty, guarantee or condition, strict liability, negligence, or other tort to the extent permitted by applicable law.

It also applies even if Microsoft knew or should have known about the possibility of the damages. The above limitation or exclusion may not apply to you because your country may not allow the exclusion or limitation of incidental, consequential or other damages.

FULL-USE LICENSE TERMS FOR THE SOFTWARE: When you acquire a valid license and either enter a product key or sign in to the software, the terms below apply. You may not share your product key or access credentials.

1. OVERVIEW.
   a. Software. The software includes development tools, applications and documentation.
   b. License Model. The software is licensed on a per user basis.

2. USE RIGHTS.
   a. General. One user may use copies of the software on your devices to develop and test applications. This includes using copies of the software on your own internal servers that remain fully dedicated to your own use. You may not, however, separate the components of the software and run those in a production environment, or on third party devices (except as otherwise stated in this agreement), or for any purpose other than developing and testing your applications. Running the software on Microsoft Azure requires a separate license.
   b. Workloads. These license terms apply to your use of the Workloads made available to you within the software, except to the extent a Workload or a Workload component comes with different terms.
   c. Demo Use. The use permitted above includes use of the software in demonstrating your applications.
   d. Backup copy. You may make one backup copy of the software, for reinstalling the software.

3. TERMS FOR SPECIFIC COMPONENTS.
   a. Utilities. The software contains items on the Utilities List at https://go.microsoft.com/fwlink/?linkid=823097. You may copy and install those items, if included with the software, onto your devices to debug and deploy your applications and databases you developed with the software. Please note that Utilities are designed for temporary use, that Microsoft may not be able to patch or update Utilities separately from the rest of the software, and that some Utilities by their nature may make it possible for others to access the devices on which they are installed. As a result, you should delete all Utilities you have installed after you finish debugging or deploying your applications and databases. Microsoft is not responsible for any third party use or access of Utilities you install on any device.
   b. Build Tools. You may copy and install files from the software onto your build devices, including physical devices and virtual machines or containers on those machines, whether on-premises or remote machines that are owned by you, hosted on Azure for you, or dedicated solely to your use (collectively, “Build Devices”). You and others in your organization may use these files on your Build Devices solely to compile, build, and verify applications or run quality or performance tests of those applications as part of the build process. For clarity, “applications” means applications developed by you and others in your organization who are each licensed to use the software.
   c. Font Components. While the software is running, you may use its fonts to display and print content. You may only: (i) embed fonts in content as permitted by the embedding restrictions in the fonts; and (ii) temporarily download them to a printer or other output device to help print content.
   d. Licenses for Other Components.
   • Microsoft Platforms. The software may include components from Microsoft Windows; Microsoft Windows Server;
Microsoft SQL Server; Microsoft Exchange; Microsoft Office; and Microsoft SharePoint. These components are governed by separate agreements and their own product support policies, as described in the Microsoft “Licenses” folder accompanying the software, except that, if separate license terms for those components are included in the associated installation directly, those license terms control.

• Developer resources. The software includes compilers, languages, runtimes, environments, and other resources. These components may be governed by separate agreements and have their own product support policies. A list of these other components is located at https://support.microsoft.com.

Third Party Components. The software may include third party components with separate legal notices or governed by other agreements, as may be described in the ThirdPartyNotices file(s) accompanying the software.

e. PACKAGE MANAGERS. The software includes package managers, like NuGet, that give you the option to download other Microsoft and third party software packages to use with your application. Those packages are under their own licenses, and not this agreement. Microsoft does not distribute, license or provide any warranties for any of the third party packages.

4. DISTRIBUTABLE CODE. The software contains code that you are permitted to distribute in applications you develop as described in this Section. (For this Section the term “distribution” also means deployment of your applications for third parties to access over the Internet.)

a. Right to Use and Distribute. The code and text files listed below are “Distributable Code.”

• REDIST.TXT Files. You may copy and distribute the object code form of code listed on the REDIST list located at https://go.microsoft.com/fwlink/?linkid=823097.
• Sample Code, Templates and Styles. You may copy, modify and distribute the source and object code form of code marked as “sample”, “template”, “simple styles” and “sketch styles”.
• Image Library. You may copy and distribute images, graphics and animations in the Image Library as described in the software documentation.
• Third Party Distribution. You may permit distributors of your applications to copy and distribute the Distributable Code as part of those applications.

b. Distribution Requirements. For any Distributable Code you distribute, you must:
• add significant primary functionality to it in your applications;
• require distributors and external end users to agree to terms that protect the Distributable Code at least as much as this agreement; and
• indemnify, defend, and hold harmless Microsoft from any claims, including attorneys’ fees, related to the distribution or use of your applications, except to the extent that any claim is based solely on the Distributable Code.

c. Distribution Restrictions. You may not:
• use Microsoft’s trademarks in your applications’ names or in a way that suggests your applications come from or are endorsed by Microsoft; or
• modify or distribute the source code of any Distributable Code so that any part of it becomes subject to an Excluded License. An Excluded License is one that requires, as a condition of use, modification or distribution of code, that (i) it be disclosed or distributed in source code form; or (ii) others have the right to modify it.

5. DATA.

a. Data Collection. The software may collect information about you and your use of the software, and send that to Microsoft. Microsoft may use this information to provide services and improve our products and services. You may opt-out of many of these scenarios, but not all, as described in the product documentation. There are also some features in the software that may enable you and Microsoft to collect data from users of your applications. If you use these features, you must comply with applicable law, including providing appropriate notices to users of your applications together with Microsoft’s privacy statement. Our privacy statement is located at https://go.microsoft.com/fwlink/?LinkId=824704. You can learn more about data collection and use in the help documentation and our privacy statement. Your use of the software operates as your consent to these practices.

b. Processing of Personal Data. To the extent Microsoft is a processor or subprocessor of personal data in connection
with the software, Microsoft makes the commitments in the European Union General Data Protection Regulation Terms of the Online Services Terms to all customers effective May 25, 2018, at http://go.microsoft.com/?linkid=9840733.

6. SCOPE OF LICENSE. The software is licensed, not sold. This agreement only gives you some rights to use the software. Microsoft reserves all other rights. Unless applicable law gives you more rights despite this limitation, you may use the software only as expressly permitted in this agreement. In doing so, you must comply with any technical limitations in the software that only allow you to use it in certain ways. You may not
• work around any technical limitations in the software;
• reverse engineer, decompile or disassemble the software, or otherwise attempt to derive the source code for the software, except and to the extent required by third party licensing terms governing use of certain open source components that may be included in the software;
• remove, minimize, block or modify any notices of Microsoft or its suppliers in the software;
• use the software in any way that is against the law;
• share, publish, rent or lease the software, or provide the software as a stand-alone offering for others to use.

7. DOCUMENTATION. Any person that has valid access to your computer or internal network may copy and use the documentation for your internal, reference purposes.

8. NOT FOR RESALE SOFTWARE. You may not sell software marked as “NFR” or “Not for Resale.”

9. RIGHTS TO USE OTHER VERSIONS AND LOWER EDITIONS. You may use the software and any prior version on any device. You may create, store, install, run, or access in place of the version licensed, a copy or instance of a prior version, different permitted language version, or lower edition.

10. PROOF OF LICENSE. If you acquired the software on a disc or other media, your proof of license is the Microsoft certificate of authenticity label, the accompanying product key, and your receipt. If you purchased an online copy of the software, your proof of license is the Microsoft product key you received with your purchase and your receipt and/or being able to access the software service through your Microsoft account. To identify genuine Microsoft software, see www.howtotell.com.

11. TRANSFER TO A THIRD PARTY. If you are a valid licensee of the software, you may transfer it and this agreement directly to another party. Before the transfer, that party must agree that this agreement applies to the transfer and use of the software. The transfer must include the software, genuine Microsoft product key, and (if applicable) the Proof of License label. The transferor must uninstall all copies of the software after transferring it from the device. The transferor may not retain any copies of the genuine Microsoft product key to be transferred, and may only retain copies of the software if otherwise licensed to do so. If you have acquired a non-perpetual license to use the software or if the software is marked Not for Resale you may not transfer the software or the software license agreement to another party.

12. EXPORT RESTRICTIONS. You must comply with all domestic and international export laws and regulations that apply to the software, which include restrictions on destinations, end users, and end use. For further information on export restrictions, visit www.microsoft.com/exporting.

13. SUPPORT. Microsoft provides support for the software as described at https://support.microsoft.com.

14. ENTIRE AGREEMENT. This agreement (including the warranty below), and the terms for supplements, updates, Internet-based services and support services, are the entire agreement for the software and support services.

15. APPLICABLE LAW. If you acquired the software in the United States, Washington State law applies to interpretation of and claims for breach of this agreement, and the laws of the state where you live apply to all other claims. If you acquire the software in any other country, its laws apply.

16. CONSUMER RIGHTS; REGIONAL VARIATIONS. This agreement describes certain legal rights. You may have other rights, including consumer rights, under the laws of your state or country. Separate and apart from your relationship with Microsoft, you may also have rights with respect to the party from which you acquired the software. This agreement does not change those other rights if the laws of your state or country do not permit it to do so. For example, if you acquired the software in one of the below regions, or if mandatory country law applies, then the following provisions apply to you:
a) Australia. References to “Limited Warranty” mean the express warranty provided by Microsoft or the manufacturer or installer. This warranty is in addition to other rights and remedies you may have under law, including your rights and remedies under the statutory guarantees in the Australian Consumer Law. In this section, “goods” refers to the software for which Microsoft or the manufacturer or installer provides the express warranty. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

b) Canada. If you acquired this software in Canada, you may stop receiving updates by turning off the automatic update feature, disconnecting your device from the Internet (if and when you re-connect to the Internet, however, the software will resume checking for and installing updates), or uninstalling the software. The product documentation, if any, may also specify how to turn off updates for your specific device or software.

c) Germany and Austria.

(i) Warranty. The properly licensed software will perform substantially as described in any Microsoft materials that accompany it. However, Microsoft gives no contractual guarantee in relation to the software.

(ii) Limitation of Liability. In case of intentional conduct, gross negligence, claims based on the Product Liability Act, and death or personal or physical injury, Microsoft is liable according to the statutory law. Subject to the foregoing clause (ii), Microsoft will only be liable for slight negligence if Microsoft is in breach of such material contractual obligations, the fulfillment of which facilitate the due performance of this agreement, the breach of which would endanger the purpose of this agreement and the compliance with which a party may constantly trust in (so-called "cardinal obligations"). In other cases of slight negligence, Microsoft will not be liable for slight negligence.

17. LIMITATION ON AND EXCLUSION OF DAMAGES. YOU CAN RECOVER FROM MICROSOFT AND ITS SUPPLIERS ONLY DIRECT DAMAGES UP TO THE AMOUNT YOU PAID FOR THE SOFTWARE. YOU CANNOT RECOVER ANY OTHER DAMAGES, INCLUDING CONSEQUENTIAL, LOST PROFITS, SPECIAL, INDIRECT OR INCIDENTAL DAMAGES.

This limitation applies to (a) anything related to the software, services, content (including code) on third party Internet sites, or third party applications; and (b) claims for breach of contract, breach of warranty, guarantee or condition, strict liability, negligence, or other tort to the extent permitted by applicable law.

It also applies even if Microsoft knew or should have known about the possibility of the damages. The above limitation or exclusion may not apply to you because your state or country may not allow the exclusion or limitation of incidental, consequential or other damages.

*************************************************************************

LIMITED WARRANTY

A. LIMITED WARRANTY. If you follow the instructions, the software will perform substantially as described in the Microsoft materials that you receive in or with the software.

References to “limited warranty” are references to the express warranty provided by Microsoft. This warranty is given in addition to other rights and remedies you may have under law, including your rights and remedies in accordance with the statutory guarantees under local Consumer Law.

B. TERM OF WARRANTY; WARRANTY RECIPIENT; LENGTH OF ANY IMPLIED WARRANTIES. THE LIMITED WARRANTY COVERS THE SOFTWARE FOR ONE YEAR AFTER ACQUIRED BY THE FIRST USER. IF YOU RECEIVE SUPPLEMENTS, UPDATES, OR REPLACEMENT SOFTWARE DURING THAT YEAR, THEY WILL BE COVERED FOR THE REMAINDER OF THE WARRANTY OR 30 DAYS, WHICHERER IS LONGER. If the first user transfers the software, the remainder of the warranty will apply to the recipient.

TO THE EXTENT PERMITTED BY LAW, ANY IMPLIED WARRANTIES, GUARANTEES OR CONDITIONS LAST ONLY DURING THE TERM OF THE LIMITED WARRANTY. Some states do not allow limitations on
how long an implied warranty lasts, so these limitations may not apply to you. They also might not apply to you because some countries may not allow limitations on how long an implied warranty, guarantee or condition lasts.

C. EXCLUSIONS FROM WARRANTY. This warranty does not cover problems caused by your acts (or failures to act), the acts of others, or events beyond Microsoft’s reasonable control.

D. REMEDY FOR BREACH OF WARRANTY. MICROSOFT WILL REPAIR OR REPLACE THE SOFTWARE AT NO CHARGE. IF MICROSOFT CANNOT REPAIR OR REPLACE IT, MICROSOFT WILL REFUND THE AMOUNT SHOWN ON YOUR RECEIPT FOR THE SOFTWARE. IT WILL ALSO REPAIR OR REPLACE SUPPLEMENTS, UPDATES AND REPLACEMENT SOFTWARE AT NO CHARGE. IF MICROSOFT CANNOT REPAIR OR REPLACE THEM, IT WILL REFUND THE AMOUNT YOU PAID FOR THEM, IF ANY. YOU MUST UNINSTALL THE SOFTWARE AND RETURN ANY MEDIA AND OTHER ASSOCIATED MATERIALS TO MICROSOFT WITH PROOF OF PURCHASE TO OBTAIN A REFUND. THESE ARE YOUR ONLY REMEDIES FOR BREACH OF THE LIMITED WARRANTY.

E. CONSUMER RIGHTS NOT AFFECTED. YOU MAY HAVE ADDITIONAL CONSUMER RIGHTS UNDER YOUR LOCAL LAWS, WHICH THIS AGREEMENT CANNOT CHANGE.

F. WARRANTY PROCEDURES. You need proof of purchase for warranty service.

1. United States and Canada. For warranty service or information about how to obtain a refund for software acquired in the United States and Canada, contact Microsoft at:
   *(800) MICROSOFT;
   • Microsoft Customer Service and Support, One Microsoft Way, Redmond, WA 98052-6399; or
   • visit (aka.ms/nareturns).

2. Europe, Middle East, and Africa. If you acquired the software in Europe, the Middle East, or Africa, Microsoft Ireland Operations Limited makes this limited warranty. To make a claim under this warranty, you should contact either:
   • Microsoft Ireland Operations Limited, Customer Care Centre, Atrium Building Block B, Carmanhall Road, Sandyford Industrial Estate, Dublin 18, Ireland; or
   • the Microsoft affiliate serving your country (see aka.ms/msoffices).

3. Australia. For Warranty Services and to claim expenses in relation to the warranty (if applicable) for software acquired in Australia, contact Microsoft at:
   • 13 20 58; or
   • Microsoft Pty Ltd, 1 Epping Road, North Ryde NSW 2113, Australia.

4. Outside the United States, Canada, Europe, Middle East, Africa, and Australia. If you acquired the software outside the United States, Canada, Europe, the Middle East, Africa, and Australia, contact the Microsoft affiliate serving your country (see aka.ms/msoffices).

G. NO OTHER WARRANTIES. THE LIMITED WARRANTY IS THE ONLY DIRECT WARRANTY FROM MICROSOFT. MICROSOFT GIVES NO OTHER EXPRESS WARRANTIES, GUARANTEES OR CONDITIONS. WHERE ALLOWED BY YOUR LOCAL LAWS, MICROSOFT EXCLUDES IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. If your local laws give you any implied warranties, guarantees or conditions, despite this exclusion, your remedies are described in the Remedy for Breach of Warranty clause above, to the extent permitted by your local laws.

FOR AUSTRALIA ONLY. References to “Limited Warranty” are references to the warranty provided by Microsoft. This warranty is given in addition to other rights and remedies you may have under law, including your rights and remedies in accordance with the statutory guarantees under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Goods presented for repair may be replaced by refurbished goods of the same type rather than being replaced. Refurbished parts may be used to repair the goods.
H. LIMITATION ON AND EXCLUSION OF DAMAGES FOR BREACH OF WARRANTY. THE LIMITATION
ON AND EXCLUSION OF DAMAGES CLAUSE ABOVE APPLIES TO BREACHES OF THIS LIMITED
WARRANTY.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS
WHICH VARY FROM STATE TO STATE. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM
COUNTRY TO COUNTRY.

EULA ID: VS2017_ENT_PRO_TRIAL_RTW.2_ENU

1.451 python-schedutils 0.6 6.el8

1.451.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.452 initscripts 10.00.15-1.el8

1.452.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.453 perl-podlators 4.11 1.el8

1.453.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Comment: This file documents the copyright statements and licenses for every file in this package in a machine-readable format. For a less detailed, higher-level overview, see README.

For any copyright year range specified as YYYY-ZZZZ in this file, the range specifies every single year in that closed interval.

Files: *
Copyright: 1999-2010, 2012-2018 Russ Allbery <rra@cpan.org>
2000 Joe Smith <Joe.Smith@inwap.com>
2016 Niko Tyni <ntyni@iki.fi>
License: Perl
This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself. This means that you may choose between the two licenses that Perl is released under: the GNU GPL and the Artistic License. Please see your Perl distribution for the details and copies of the licenses.
Files: pod/perlpodstyle.pod  t/data/basic.cap  t/data/basic.clr
  t/data/basic.man  t/data/basic.ovr  t/data/basic.pod  t/data/basic.txt
  t/data/snippets/README
  Russ Allbery <rra@cpan.org>
License: all-permissive
Copyng and distribution of this file, with or without modification, are
permitted in any medium without royalty provided the copyright notice and
this notice are preserved. This file is offered as-is, without any
warranty.

Files:  t/docs/pod-spelling.t  t/docs/pod.t  t/docs/spdx-license.t
  t/docs/synopsis.t  t/docs/urls.t  t/lib/Test/RRA.pm  t/lib/Test/RRA/Config.pm
  t/lib/Test/RRA/ModuleVersion.pm  t/style/minimum-version.t
  t/style/module-version.t  t/style/strict.t
Copyright: 2012-2014
  The Board of Trustees of the Leland Stanford Junior University
  2014-2016, 2018 Russ Allbery <eagle@eyrie.org>
License: Expat
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the
following conditions:
.
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.454 perl-io-socket-ip 0.39-5.el8
1.454.1 Available under license:
This software is copyright (c) 2017 by Paul Evans <leonerd@leonerd.org.uk>.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.
Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2017 by Paul Evans <leonerd@leonerd.org.uk>.

This is free software, licensed under:

The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

   a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

   b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except
that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the
Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 2017 by Paul Evans <leonerd@leonerd.org.uk>.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package
may be copied, such that the Copyright Holder maintains some semblance of
artistic control over the development of the package, while giving the users of
the package the right to use and distribute the Package in a more-or-less
customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files,
together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.455 ncurses 6.1 7.20180224.el8
1.455.1 Available under license:
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Copyright (c) 1998-2017,2018 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, distribute with modifications, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written
authorization.

-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

---------------------------------------------------------------
Files: *
Licence: X11

Files: aclocal.m4 package
Copyright: 1996-2017,2018 by Thomas E. Dickey
Licence: X11

Files: doc/html/NCURSES-Programming-HOWTO.html
Copyright: 2001 by Pradeep Padala
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

---------------------------------------------------------------
Files: install-sh
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

Files: progs/tset.c ncurses/tinfo/read_termcap.c
License: BSD

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

--------------------------------------------------------------------
Files: *
Licence: X11

Files: aclocal.m4 package
Copyright: 2010-2017,2018 by Thomas E. Dickey
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

--------------------------------------------------------------------
Files: install-sh
Copyright: 1994 X Consortium
Licence: X11
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8

1.456 mdadm 4.1-16.el8_4
1.456.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.457 mcpp 2.7.2 20.el8
1.457.1 Available under license:

/*-
 * Copyright (c) 1998, 2002-2004 Kiyoshi Matsui <kmatsui@t3.rim.or.jp>
 * All rights reserved.
 *
 * This software including the files in this directory is provided under
 * the following license.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
/*-
 * Copyright (c) 1998, 2002-2008 Kiyoshi Matsui <kmatsui@t3.rim.or.jp>
 * All rights reserved.
 *
 * The most part of the documents in this directory were translated by
 * Highwell inc. from the Japanese documents written by Kiyoshi Matsui,
 * and revised by the author.
 *
 * This software including the files in this directory is provided under
 * the following license.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Redistribution and use of the files under this directory in source and
binary forms, with or without modification, are freely permitted.

[Kiyoshi Matsui]

/\.
* Copyright (c) 1998, 2002-2008 Kiyoshi Matsui <kmatsui@t3.rim.or.jp>
* All rights reserved.
*
* This software including the files in this directory is provided under
* the following license.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
1.458 libassuan 2.5.1 3.el8

1.458.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.
For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates.
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see
The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.459 rdoc 6.3.2.gem.data

1.459.1 Available under license :

RDoc is copyrighted free software.

You can redistribute it and/or modify it under either the terms of the GPL
version 2 (see the file GPL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the
software without restriction, provided that you duplicate all of the
original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

   a. place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

   b. use the modified software only within your corporation or organization.

   c. give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d. make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

   a. distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

   b. accompany the distribution with the machine-readable source of the software.

   c. give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

   d. make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
# Legal Notice Information

The files in this distribution are covered by the Ruby license (see LICENSE) except the features mentioned below:

Darkfish::
Darkfish was written by Michael Granger and is included under the MIT license. Darkfish contains images from the Silk Icons set by Mark James.

See lib/rdoc/generator/darkfish.rb for license information.

* lib/rdoc/generator/darkfish.rb
* lib/rdoc/generator/template/darkfish/*
* lib/rdoc/generator/template/darkfish/images

SDoc::
Portions of SDoc by ( ) Vladimir Kolesnikov are included under the MIT license as RDoc::Generator::JsonIndex. See lib/rdoc/generator/json_index.rb for license information.

* lib/rdoc/generator/json_index.rb
* lib/rdoc/generator/template/json_index/*
* The +#search_index+ methods on RDoc::CodeObject subclasses were derived from sdoc.
* RDoc::ClassModule#document_self_or_methods comes from SDoc.

peg-markdown::
RDoc's Markdown support is derived from peg-markdown by John MacFarlane. It is used under the MIT license. See RDoc::Markdown for license details.

MarkdownTest::
test/test_rdoc_markdown_test.rb uses MarkdownTest 1.0.3's source files which are included as test/MarkdownTest_1.0.3/*.text which are Copyright (c) 2004-2005 John Gruber http://daringfireball.net and is included under the same terms as Perl itself.

See http://dev.perl.org/licenses/ for the terms of the Perl license.

Fonts::
Source Code Pro is (c) 2010, 2012 Adobe Systems Incorporated.

Lato is (c) 2010 ukasz Dziedzic.

Both fonts are used under the SIL Open Font License, Version 1.1. The license is available at http://scripts.sil.org/OFL
See lib/rdoc/generator/template/darkfish/fonts.css for complete copyright and license information, including a copy of the OFL.

1.460 libsecret 0.18.6 1.el8

1.460.1 Available under license:
Various portions of the libsecret tests are licensed under different open source licenses. See the top of the file/test in question for the exact license that applies. The full text of the various applicable licenses are listed here as required by those licenses:

------------------------------------------------------------------------------------------------------------------------

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

------------------------------------------------------------------------

Copyright (C) 2000-2010 Julian Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
not claim that you wrote the original software. If you use this
software in a product, an acknowledgment in the product
documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
products derived from this software without specific prior written
permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.461.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.462 sgml-common 0.6.3 50.el8
1.462.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

   Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

   In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

   3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gatis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers’ and authors’ protection, the GPL clearly explains that there is no warranty for this free software. For both users’ and authors’ sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users’ freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.
The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.
Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.
11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.
If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.464 libpsl 0.20.2 6.el8
1.464.1 Available under license:

Copyright (C) 2014-2015 Tim Rhsen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2014-2018 Tim Rhsen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

* The following License is for the source code files
  psl-make-dafsa and lookup_string_in_fixed_set.c.

// Copyright 2015 The Chromium Authors. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
// * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
// * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// distribution.
// * Neither the name of Google Inc. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.465 dmidecode 3.2-8.el8

1.465.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.467 robfig-cron v1.2.0

1.467.1 Available under license:

Copyright (C) 2012 Rob Figueiredo
All Rights Reserved.

MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.468 sssd 2.4.0-9.el8_4.2
1.468.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.
If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

d) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.
"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section
7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

---

1.469 lzo 2.08 14.el8

1.469.1 Available under license:

**GNU GENERAL PUBLIC LICENSE**

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

**Preamble**

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author’s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it.
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.470 langpacks 1.0 12.el8

1.470.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium,
provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and
give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty
protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the
Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you
also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of
      any change.
   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the
      Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this
      License.
   c) If the modified program normally reads commands interactively when run, you must cause it, when started
      running for such interactive use in the most ordinary way, to print or display an announcement including an
      appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and
      that users may redistribute the program under these conditions, and telling the user how to view a copy of this
      License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your
      work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from
the Program, and can be reasonably considered independent and separate works in themselves, then this License,
and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute
the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on
the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and
every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather,
the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on
the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable
form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under
      the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more
      than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding
      source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software
      interchange; or,
   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This
      alternative is allowed only for noncommercial distribution and only if you received the program in object code or
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.471 xdg-utils 1.1.2-5.el8
1.471.1 Available under license:

# Permission is hereby granted, free of charge, to any person obtaining a
# copy of this software and associated documentation files (the "Software"),
# to deal in the Software without restriction, including without limitation
# the rights to use, copy, modify, merge, publish, distribute, sublicense,
# and/or sell copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following conditions:
#
# The above copyright notice and this permission notice shall be included
# in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
# OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
# FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
# THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
# OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
# ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
# OTHER DEALINGS IN THE SOFTWARE.

1.472 p11-kit 0.23.22-1.el8

1.472.1 Available under license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above
copyright notice, this list of conditions and the
following disclaimer.
* Redistributions in binary form must reproduce the
above copyright notice, this list of conditions and
the following disclaimer in the documentation and/or
other materials provided with the distribution.
* The names of contributors to this software may not be
used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.473 Idb 2.2.0-2.el8

1.473.1 Available under license:

Copyright (c) 1998 Red Hat Software

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

1.474 libxt 1.1.5-12.el8

1.474.1 Available under license:

Copyright 2001,2003 Keith Packard

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Keith Packard not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Keith Packard makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.
KEITH PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL KEITH PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1993, 2011, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 1987, 1988 by Digital Equipment Corporation, Maynard, Massachusetts,

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
OPEN SOURCE SOFTWARE.

Copyright 1987, 1988, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Copyright (c) 1993, 1994 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other
dealing in this Software without prior written authorization from the
1.475 policycoreutils 2.9-14.el8

1.475.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.476 cracklib 2.9.6 15.el8
1.476.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 24969
notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LéJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>
Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-------------------------------------
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- Nathan

Nathan Neulinger
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was
not
GPL-2 ... it was a modified artistic license ... i didn't notice the
license
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib
unless their
applications are also GPL-2 which imo is just wrong. it isn't the
place of a
library to dictate to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.

- mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small
bit of
additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
Additional code, so whatever licensing you all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-Mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

In any case, I thank you both for working on sorting this out.

Looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

Yes, go for it. Thanks++

-A

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

In any case, I thank you both for working on sorting this out.

Looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

Yes, go for it. Thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtp020623
  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOcX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1199022867.3457.147.camel=localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CE644F38@UMR-CMAIL1.umr.edu>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- Nathan
=20

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan
=20

----------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.
the original license (before moving to sourceforge -- aka, 2.7) was not=G
GPL-2 ... it was a modified artistic license ... i didn't notice the license= =G
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=G
their=G
applications are also GPL-2 which imo is just wrong. It isn't the place of = =G
a=G
library to direct to application writers what license they should be using.= =G
thus LGPL-2.1 enters to fill this void.

=D
mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro =G
maintainers to get together with Alec in a conversation and come to a =G
decision as to what licensing scheme you all want. I haven't really done =G
much other than cleaning up the packaging and patches and a small bit of =G
additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

=N

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> ------Original Message------
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:33 PM
> > To: Neulinger, Nathan
> > Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
> >
> > On Monday 01 October 2007, Neulinger, Nathan wrote:
> > > I understand that, and you're welcome to bring it up with Alec
> > > directly
> > > and see if he wants to relicense his code as LGPL... but at this
> > > point,
> > > it was enough to just get it consistent and documented as to what
> > > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysingher <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
>> >> In any case, I thank you both for working on sorting this out.
>>>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>>
>> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (hel0=192.168.1.13)
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 1HcOeX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floated
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.477 libtirpc 1.1.4 4.el8
1.477.1 Available under license :
/*
 * Copyright (c) Copyright (c) Bull S.A.  2005 All Rights Reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
1.478 patchutils 0.3.4-10.el8

1.478.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.479 cffi 1.14.6
1.479.1 Available under license :

Except when otherwise stated (look for LICENSE files in directories or
information at the beginning of each file) all software and
documentation is licensed as follows:

The MIT License

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

1.480 python-linux-procfs 0.6.3-1.el8
1.480.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program ‘Gnomovision’ (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.481 libdaemon 0.14 15.el8
1.481.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
the limitation as written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.482 libmodulemd 2.9.4 2.el8

1.482.1 Available under license:
MIT License

Copyright (c) 2017-2018 Stephen Gallagher <sgallagh@redhat.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.483 libxext 1.3.4 1.el8

1.483.1 Available under license:

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Copyright (c) 1996 Digital Equipment Corporation, Maynard, Massachusetts.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY CLAIM, DAMAGES, INCLUDING, BUT NOT LIMITED TO CONSEQUENTIAL OR INCIDENTAL DAMAGES, OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Digital Equipment Corporation shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Digital Equipment Corporation.

Copyright (c) 1997 by Silicon Graphics Computer Systems, Inc.
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Silicon Graphics not be used in advertising or publicity pertaining to distribution of the software without specific prior written permission. Silicon Graphics makes no representation about the suitability of this software for any purpose. It is provided "as is" without any express or implied warranty.
SILICON GRAPHICS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1992 Network Computing Devices
Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of NCD, not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission. NCD makes no representations about the
suitability of this software for any purpose. It is provided "as is"
without express or implied warranty.

NCD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL NCD.
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1991,1993 by Digital Equipment Corporation, Maynard, Massachusetts,

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the names of Digital or Olivetti
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

DIGITAL AND OLIVETTI DISCLAIM ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THEY BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1986, 1987, 1988 by Hewlett-Packard Corporation

Permission to use, copy, modify, and distribute this
software and its documentation for any purpose and without
fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting
documentation, and that the name of Hewlett-Packard not be used in
advertising or publicity pertaining to distribution of the

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25014
software without specific, written prior permission.

Hewlett-Packard makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Copyright (c) 1994, 1995 Hewlett-Packard Company

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL HEWLETT-PACKARD COMPANY BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the Hewlett-Packard Company shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the Hewlett-Packard Company.

Copyright Digital Equipment Corporation, 1996

Permission to use, copy, modify, distribute, and sell this documentation for any purpose is hereby granted without fee, provided that the above copyright notice and this permission notice appear in all copies. Digital Equipment Corporation makes no representations about the suitability for any purpose of the information in this document. This documentation is provided "as is" without express or implied warranty.

Copyright (c) 1999, 2005, 2006, 2013, Oracle and/or its affiliates. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright (c) 1989 X Consortium, Inc. and Digital Equipment Corporation.
Copyright (c) 1992 X Consortium, Inc. and Intergraph Corporation.
Copyright (c) 1993 X Consortium, Inc. and Silicon Graphics, Inc.
Copyright (c) 1994, 1995 X Consortium, Inc. and Hewlett-Packard Company.

Permission to use, copy, modify, and distribute this documentation for
any purpose and without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
Digital Equipment Corporation, Intergraph Corporation, Silicon
Graphics, Hewlett-Packard, and the X Consortium make no
representations about the suitability for any purpose of the
information in this document. This documentation is provided ``as is”
without express or implied warranty.

1.484 ghostscript 9.27-1.el8
1.484.1 Available under license :
GNU AFFERO GENERAL PUBLIC LICENSE
Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU Affero General Public License is a free, copyleft license for
software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users’ freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.
13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.

The files in the base, psi, lib, toolbin, examples, doc, man and iccprofiles directories (folders), and pcl, xps and gpdl directories (folders), if included, and any subdirectories (sub-folders) thereof are part of GPL Ghostscript.

The files in the Resource directory and any subdirectories thereof are also part of GPL Ghostscript, with the explicit exception of the files in the CMap subdirectory (except "Identity-UTF16-H", which is part of GPL Ghostscript). The CMap files are copyright Adobe Systems Incorporated and covered by a separate, Affero GPL.
Additionally, the font files (in Resource/Font) are distributed under the AGPL with the following exemption:

As a special exception, permission is granted to include these font programs in a Postscript or PDF file that consists of a document that contains text to be displayed or printed using this font, regardless of the conditions or license applying to the document itself.

The files under the jpegxr directory and any subdirectories thereof are distributed under a no cost, open source license granted by the ITU/ISO/IEC but it is not Affero GPL compatible - see jpegxr/COPYRIGHT.txt for details.

GPL Ghostscript is free software; you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

GPL Ghostscript is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program so you can know your rights and responsibilities. It should be in a file named doc/COPYING. If not, write to the Free Software Foundation, Inc., 59 Temple Place Suite 330, Boston, MA 02111-1307, USA.

---

GPL Ghostscript contains an implementation of techniques covered by US Patents 5,055,942 and 5,917,614, and corresponding international patents. These patents are licensed for use with GPL Ghostscript under the following grant:

Whereas, Raph Levien (hereinafter "Inventor") has obtained patent protection for related technology (hereinafter "Patented Technology"), Inventor wishes to aid the the GNU free software project in achieving its goals, and Inventor also wishes to increase public awareness of Patented Technology, Inventor hereby grants a fully paid up, nonexclusive, royalty free license to practice the patents listed below ("the Patents") if and only if practiced in conjunction with software distributed under the terms of any version of the GNU Affero General Public License as
1.485 pcre 8.42 4.el8

1.485.1 Available under license :

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End
PCRE LICENCE

--------

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 8 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself. The data in the testdata directory is not copyrighted and is in the public domain.

The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Copyright (c) 1997-2018 University of Cambridge
All rights reserved.

PCRE JUST-IN-TIME COMPILATION SUPPORT
----------------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

Copyright(c) 2010-2018 Zoltan Herczeg
All rights reserved.

STACK-LESS JUST-IN-TIME COMPILER
---------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

Copyright(c) 2009-2018 Zoltan Herczeg
All rights reserved.

THE C++ WRAPPER FUNCTIONS
--------------------------

Contributed by: Google Inc.

Copyright (c) 2007-2012, Google Inc.
All rights reserved.

THE "BSD" LICENCE
----------------

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

End

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.486 graphviz 2.40.1-40.el8
1.486.1 Available under license:
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
   i) changes to the Program, and
   ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
   i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
   ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
   iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
   iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program. Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this

PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that neither the name of Emin Martinian nor the names of any contributors are be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or
otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Common Public License Version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

   a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

   b) in the case of each subsequent Contributor:

      i) changes to the Program, and

      ii) additions to the Program;

   where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient’s responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

   iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

   iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

   a) it must be made available under this Agreement; and

   b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such
Commercial Contributor’s responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a court
requires any other Contributor to pay any damages as a result, the Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using and
distributing the Program and assumes all risks associated with its exercise of
rights under this Agreement, including but not limited to the risks and costs of
program errors, compliance with applicable laws, damage to or loss of data,
programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable
law, it shall not affect the validity or enforceability of the remainder of the
terms of this Agreement, and without further action by the parties hereto, such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to
a patent applicable to software (including a cross-claim or counterclaim in a
lawsuit), then any patent licenses granted by that Contributor to such Recipient
under this Agreement shall terminate as of the date such litigation is filed. In
addition, if Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the Program
itself (excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted under
Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient’s rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this Agreement
and any licenses granted by Recipient relating to the Program shall continue and
survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right to
publish new versions (including revisions) of this Agreement from time to time.
No one other than the Agreement Steward has the right to modify this Agreement.
IBM is the initial Agreement Steward. IBM may assign the responsibility to serve
as the Agreement Steward to a suitable separate entity. Each new version of the
Agreement will be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the Agreement
under which it was received. In addition, after a new version of the Agreement
is published, Contributor may elect to distribute the Program (including its
Contributions) under the new version. Except as expressly stated in Sections
2(a) and 2(b) above, Recipient receives no rights or licenses to the
intellectual property of any Contributor under this Agreement, whether
expressly, by implication, estoppel or otherwise. All rights in the Program not
expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial in
any resulting litigation.
This package was originally debianized by Stephen M Moraco <stephen@debian.org>

It was downloaded from http://www.graphviz.org/

Upstream Authors:

John Ellson, Lucent (TCL/tk and codegen extensions)
Emden Gansner, AT&T Research (dot, neato)
Eleftherios Koutsofios, AT&T Research (dotty, lefty, spline-o-matic)
John Mocenigo, AT&T Research (Grappa)
Stephen North, AT&T Research (dot, neato)
Gordon Woodhull (Montage)
and
David Dobkin (spline-o-matic)
Vladimir Alexiev (codegen improvements)
Copyright:

Copyright 1994-2007 AT&T Corp.

License:

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient’s responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or
enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

The Debian packaging was started by Stephen M Moraco <stephen@debian.org> and then was taken over in late 2006 by Cyril Brulebois, placing his work under the same terms as graphviz itself.

2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>
Copyright 2003 Universitt Karlsruhe (TH), Germany. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
THIS SOFTWARE IS PROVIDED BY THE UNIVERSITät KARLSRUHE (TH) "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE UNIVERSITät KARLSRUHE
(TH) OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation
are those of the authors and should not be interpreted as representing
official policies, either expressed or implied, of Universität
Karlsruhe (TH), Germany.

1.487 sqlite 3.26.0-13.el8

1.487.1 Available under license:
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

1.488 pinentry 1.1.0 2.el8

1.488.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25055
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.489 virt-what 1.18-9.el8_4

1.489.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.490 pip 21.2.4
1.490.1 Available under license:
Copyright (c) 2007 Ian Bicking and Contributors
Copyright (c) 2009 Ian Bicking, The Open Planning Project
Copyright (c) 2011-2013 The virtualenv developers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# Copyright (c) 2012 Giorgos Verigakis <verigak@gmail.com>
#
# Permission to use, copy, modify, and distribute this software for any
# purpose with or without fee is hereby granted, provided that the above
# copyright notice and this permission notice appear in all copies.
#
# THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
# WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
# ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
# OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The MIT License (MIT)

Copyright (c) 2017 Thomas Kluyver

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# This is the MIT license

Copyright (c) 2010 ActiveState Software Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and
conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made under the terms of *both* these licenses.

Pylons Project Contributor Agreement

The submitter agrees by adding his or her name within the section below named "Contributors" and submitting the resulting modified document to the canonical shared repository location for this software project (whether directly, as a user with "direct commit access", or via a "pull request"), he or she is signing a contract electronically. The submitter becomes a Contributor after a) he or she signs this document by adding their name beneath the "Contributors" section below, and b) the resulting document is accepted into the canonical version control repository.

Treatment of Account
Contributor will not allow anyone other than the Contributor to use his or her username or source repository login to submit code to a Pylons Project source repository. Should Contributor become aware of any such use, Contributor will immediately by notifying Agendaless Consulting. Notification must be performed by sending an email to webmaster@agendaless.com. Until such notice is received, Contributor will be presumed to have taken all actions made through Contributor's account. If the Contributor has direct commit access, Agendaless Consulting will have complete control and discretion over capabilities assigned to Contributor's account, and may disable Contributor's account for any reason at any time.

Legal Effect of Contribution
----------------------------

Upon submitting a change or new work to a Pylons Project source Repository (a "Contribution"), you agree to assign, and hereby do assign, a one-half interest of all right, title and interest in and to copyright and other intellectual property rights with respect to your new and original portions of the Contribution to Agendaless Consulting. You and Agendaless Consulting each agree that the other shall be free to exercise any and all exclusive rights in and to the Contribution, without accounting to one another, including without limitation, the right to license the Contribution to others under the Repoze Public License. This agreement shall run with title to the Contribution. Agendaless Consulting does not convey to you any right, title or interest in or to the Program or such portions of the Contribution that were taken from the Program. Your transmission of a submission to the Pylons Project source Repository and marks of identification concerning the Contribution itself constitute your intent to contribute and your assignment of the work in accordance with the provisions of this Agreement.

License Terms
-------------

Code committed to the Pylons Project source repository (Committed Code) must be governed by the Repoze Public License (http://repoze.org/LICENSE.txt, aka "the RPL") or another license acceptable to Agendaless Consulting. Until Agendaless Consulting declares in writing an acceptable license other than the RPL, only the RPL shall be used. A list of exceptions is detailed within the "Licensing Exceptions" section of this document, if one exists.

Representations, Warranty, and Indemnification
--------------------------------------------------

Contributor represents and warrants that the Committed Code does not violate the rights of any person or entity, and that the Contributor has legal authority to enter into this Agreement and legal authority over Contributed
Contributor indemnifies Agendaless Consulting against violations.

Cryptography
-------------

Contributor understands that cryptographic code may be subject to government regulations with which Agendaless Consulting and/or entities using Committed Code must comply. Any code which contains any of the items listed below must not be checked-in until Agendaless Consulting staff has been notified and has approved such contribution in writing.

- Cryptographic capabilities or features
- Calls to cryptographic features
- User interface elements which provide context relating to cryptography
- Code which may, under casual inspection, appear to be cryptographic.

Notices
------

Contributor confirms that any notices required will be included in any Committed Code.

Licensing Exceptions
====================

None.

List of Contributors
====================

The below-signed are contributors to a code repository that is part of the project named "Translationstring". Each below-signed contributor has read, understands and agrees to the terms above in the section within this document entitled "Pylons Project Contributor Agreement" as of the date beside his or her name.

Contributors
-----------

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

Copyright (c) 2012 by Simon Sapin.

Some rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9.0 thru 1.2</td>
<td></td>
<td>1991-1995</td>
<td>CWI</td>
<td>yes</td>
</tr>
<tr>
<td>1.3 thru 1.5.2</td>
<td>1.2</td>
<td>1995-1999</td>
<td>CNRI</td>
<td>yes</td>
</tr>
<tr>
<td>1.5.2</td>
<td></td>
<td>2000</td>
<td>CNRI</td>
<td>no</td>
</tr>
<tr>
<td>2.0</td>
<td>1.6</td>
<td>2000</td>
<td>BeOpen.com</td>
<td>no</td>
</tr>
<tr>
<td>1.6.1</td>
<td>1.6</td>
<td>2001</td>
<td>CNRI</td>
<td>yes (2)</td>
</tr>
<tr>
<td>2.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>no</td>
</tr>
<tr>
<td>2.0.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2</td>
<td>2.1.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.1</td>
<td>2.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.2</td>
<td>2.2.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.3</td>
<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3</td>
<td>2.2.2</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.1</td>
<td>2.3</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.2</td>
<td>2.3.1</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.3</td>
<td>2.3.2</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.4</td>
<td>2.3.3</td>
<td>2004</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.5</td>
<td>2.3.4</td>
<td>2005</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4</td>
<td>2.3</td>
<td>2004</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.1</td>
<td>2.4</td>
<td>2005</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.2</td>
<td>2.4.1</td>
<td>2005</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.3</td>
<td>2.4.2</td>
<td>2006</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.4</td>
<td>2.4.3</td>
<td>2006</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5</td>
<td>2.4</td>
<td>2006</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5.1</td>
<td>2.5</td>
<td>2007</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5.2</td>
<td>2.5.1</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5.3</td>
<td>2.5.2</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6</td>
<td>2.5</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.1</td>
<td>2.6</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.2</td>
<td>2.6.1</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.3</td>
<td>2.6.2</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.4</td>
<td>2.6.3</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.5</td>
<td>2.6.4</td>
<td>2010</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.7</td>
<td>2.6</td>
<td>2010</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:
(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERivative THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
--------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25091
3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

-----------------------------------------------
Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This package contains a modified version of ca-bundle.crt:

cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:


It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9.0 thru 1.2</td>
<td>1.2</td>
<td>1991-1995</td>
<td>CWI</td>
<td>yes</td>
</tr>
<tr>
<td>1.3 thru 1.5.2</td>
<td>1.2</td>
<td>1995-1999</td>
<td>CNRI</td>
<td>yes</td>
</tr>
<tr>
<td>1.6</td>
<td>1.5.2</td>
<td>2000</td>
<td>CNRI</td>
<td>no</td>
</tr>
<tr>
<td>2.0</td>
<td>1.6</td>
<td>2000</td>
<td>BeOpen.com</td>
<td>no</td>
</tr>
<tr>
<td>Version</td>
<td>Previous Versions</td>
<td>Year</td>
<td>License</td>
<td>GPL-compatible</td>
</tr>
<tr>
<td>---------</td>
<td>------------------</td>
<td>------</td>
<td>---------</td>
<td>----------------</td>
</tr>
<tr>
<td>1.6.1</td>
<td>1.6</td>
<td>2001</td>
<td>CNRI</td>
<td>yes (2)</td>
</tr>
<tr>
<td>2.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>no</td>
</tr>
<tr>
<td>2.0.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2</td>
<td>2.1.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.1</td>
<td>2.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.2</td>
<td>2.2.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.3</td>
<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3</td>
<td>2.2.2</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.1</td>
<td>2.3</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.2</td>
<td>2.3.1</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.3</td>
<td>2.3.2</td>
<td>2002-2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.4</td>
<td>2.3.3</td>
<td>2004</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.3.5</td>
<td>2.3.4</td>
<td>2005</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4</td>
<td>2.3</td>
<td>2004</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.1</td>
<td>2.4</td>
<td>2005</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.2</td>
<td>2.4.1</td>
<td>2005</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.3</td>
<td>2.4.2</td>
<td>2006</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.4.4</td>
<td>2.4.3</td>
<td>2006</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5</td>
<td>2.4</td>
<td>2006</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5.1</td>
<td>2.5</td>
<td>2007</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5.2</td>
<td>2.5.1</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.5.3</td>
<td>2.5.2</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6</td>
<td>2.5</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.1</td>
<td>2.6</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.2</td>
<td>2.6.1</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.3</td>
<td>2.6.2</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.4</td>
<td>2.6.3</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.6.5</td>
<td>2.6.4</td>
<td>2010</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>3.0</td>
<td>2.6</td>
<td>2008</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>3.0.1</td>
<td>3.0</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>3.1</td>
<td>3.0.1</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>3.1.1</td>
<td>3.1</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>3.1.2</td>
<td>3.1</td>
<td>2010</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>3.2</td>
<td>3.1</td>
<td>2010</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

1. GPL-compatible doesn’t mean that we’re distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don’t.

2. According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

=================================================================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

---------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS 
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT 
INFRINGEMENT ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS 
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, 
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material 
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal 
intellectual property law of the United States, including without 
limitation the federal copyright law, and, to the extent such 
U.S. federal law does not apply, by the law of the Commonwealth of 
Virginia, excluding Virginia's conflict of law provisions. 
Notwithstanding the foregoing, with regard to derivative works based 
on Python 1.6.1 that incorporate non-separable material that was 
previously distributed under the GNU General Public License (GPL), the 
law of the Commonwealth of Virginia shall govern this License 
Agreement only as to issues arising under or with respect to 
Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this 
License Agreement shall be deemed to create any relationship of 
agency, partnership, or joint venture between CNRI and Licensee. This 
License Agreement does not grant permission to use CNRI trademarks or 
trade name in a trademark sense to endorse or promote products or 
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, 
installing or otherwise using Python 1.6.1, Licensee agrees to be 
bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2 
-----------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, 
The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its 
documentation for any purpose and without fee is hereby granted, 
provided that the above copyright notice appear in all copies and that 
both that copyright notice and this permission notice appear in 
supporting documentation, and that the name of Stichting Mathematisch 
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

============
Contributors
============

* Alex Grnholm
* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Hanno Schlichting
* Jannis Leidel
* Jason R. Coombs
* Jim Fulton
* Jonathan Lange
* Justin Azoff
* Lennart Regebro
* Marc Abramowitz
* Martin von Lwis
* Noufal Ibrahim
* Pete Hollobon
* Philip Jenvey
* Reinout van Rees
* Robert Myers
* Stefan H. Holek
* Tarek Ziad
* Toshio Kuratomi

If you think you name is missing, please add it (alpha order by first name)

License

A copyright notice accompanies this license document that identifies the copyright holders.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions in source code must retain the accompanying copyright notice, this list of conditions, and the following disclaimer.

2. Redistributions in binary form must reproduce the accompanying copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission from the copyright holders.

4. If any files are modified, you must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

Disclaimer

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2008-2021 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History
-------

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.
The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now. Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Contributors

* Alex Grnholm
* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Dirley Rodrigues
* Donald Stufft
* Grigory Petrov
* Hanno Schlichting
* Jannis Leidel
* Jason R. Coombs
* Jim Fulton
* Jonathan Lange
* Justin Azoff
* Lennart Regebro
* Marc Abramowitz
* Martin von Lwis
* Noufal Ibrahim
* Pete Hollobon
* Phillip J. Eby
If you think your name is missing, please add it (alpha order by first name)

Copyright 2015 Eric Larson

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.

See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2011 Agendaless Consulting and Contributors.
(http://www.agendaless.com), All Rights Reserved
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent...
to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2008-2013 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License for Bundle of CA Root Certificates (pip/cacert.pem)
=================================================================

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
02110-1301

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.491 libaio 0.3.112 1.el8
1.491.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above,

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.492 highline 1.7.8
1.492.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

= License Terms


Please email James@mailto:james@grayproductions.net with any questions.

1.493 toml v0.3.1

1.493.1 Available under license :

The MIT License

Copyright (c) Tom Preston-Werner

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.494 c-ares 1.13.0 5.el8
1.494.1 Available under license :
# c-ares license

Copyright (c) 2007 - 2016, Daniel Stenberg with many contributors, see AUTHORS file.

Copyright 1998 by the Massachusetts Institute of Technology.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright (C) 2004 by Daniel Stenberg et al

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

1.495 fprintf 1.90.9-2.el8
1.495.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.496 adobe-mappings-pdf 20180407-1.el8

1.496.1 Available under license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Adobe Systems Incorporated nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.497 chkconfig 1.13 2.el8

1.497.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide...
a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25151
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.498 fribidi 1.0.4 8.el8
1.498.1 Available under license:
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999
Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO 
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. 
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR 
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY 
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE 
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR 
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE 
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME 
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN 
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY 
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU 
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR 
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE 
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING 
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A 
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF 
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH 
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest 
possible use to the public, we recommend making it free software that 
everyone can redistribute and change. You can do so by permitting 
redistribution under these terms (or, alternatively, under the terms of the 
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is 
safest to attach them to the start of each source file to most effectively 
convey the exclusion of warranty; and each file should have at least the 
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.> 
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or 
modify it under the terms of the GNU Lesser General Public 
License as published by the Free Software Foundation; either 
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, 
but WITHOUT ANY WARRANTY; without even the implied warranty of 
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.499 automake 1.16.1-7.el8

1.499.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:
a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.
"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty: and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.500 html5lib 1.1

1.500.1 Available under license:
Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2006-2013 James Graham, Geoffrey Sneddon, and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.501 python-html5lib 0.999999999-6.el8

1.501.1 Available under license:

Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.502 libssh 0.9.4 2.el8

1.502.1 Available under license:
MIT License

Copyright (c) 2017 Jan-Lukas Wynen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Some parts are under the BSDv2 License:

Copyright (c) 2000 Markus Friedl. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Linking with OpenSSL

17. In addition, as a special exception, we give permission to link the code of its release of libssh with the OpenSSL project's "OpenSSL" library (or with modified versions of it that use the same license as the "OpenSSL" library), and distribute the linked executables. You must obey the GNU Lesser General Public License in all respects for all of the code used other than "OpenSSL". If you modify this file, you may extend this exception to your version of the file, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

END OF TERMS AND CONDITIONS
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.503 time 1.9 3.el8

1.503.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.
To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.
"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction.
and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:
a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.504 binutils 2.31.51
1.504.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW, EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

Copyright (C) 2012-2020 Free Software Foundation, Inc.
GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS
0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.


You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.
Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.
You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party’s predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor’s "contributor version”.

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control” includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as “Acknowledgements”, “Dedications”, “Endorsements”, or “History”.) To “Preserve the Title” of such a section when you modify the Document means that it remains a section “Entitled XYZ” according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material.

If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item List on the Title page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item State on the Title page the name of the publisher of the Modified Version, as the publisher.
@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version’s license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `with@dots{}Texts.' line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.
GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact...
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25257
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
   Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
   51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

1.505 bash-completion 2.7 5.el8

1.505.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
‘Gnomovision’ (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.506 rsync 3.1.3-12.el8
1.506.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.
If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c` for details.

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>. Copyright (c) 1998 Red Hat Software

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

1.507 spidermonkey 0-60.9.0-4.el8.x86_64
1.507.1 Available under license:
Mozilla Public License
Version 2.0
1. Definitions

1.1. “Contributor”

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. “Contributor Version”

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

means Covered Software of a particular Contributor.

1.4. “Covered Software”

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. “Incompatible With Secondary Licenses”

means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. “Executable Form”

means any form of the work other than Source Code Form.

1.7. “Larger Work”

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. “License”

means this document.

1.9. “Licensable”

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. “Modifications”
means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. “Secondary License”

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

means an individual or a legal entity exercising rights under this License. For legal entities, “You” includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, “control” means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.
2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients’ rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients’ rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b)
on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an “as is” basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party’s negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the
drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

This Source Code Form is “Incompatible With Secondary Licenses”, as defined by the Mozilla Public License, v. 2.0.

1.508 open-ldap 2.4.46-17.el8_4
1.508.1 Available under license:
Copyright 1998-2018 The OpenLDAP Foundation. All rights reserved.

COPYING RESTRICTIONS APPLY.
See COPYRIGHT and LICENSE files in the top-level directory of this distribution (i.e., ../../COPYRIGHT and ../../LICENSE, respectively).

OpenLDAP Public License

The OpenLDAP Public License

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source form must retain copyright statements and notices,

2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.
Additional information about OpenLDAP can be obtained at <http://www.openldap.org/>.

---

Portions Copyright 2001-2006 IBM Corporation.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted only as authorized by the OpenLDAP Public License.

---

Portions Copyright 1999-2008 Symas Corporation.
Portions Copyright 2007-2011 Gavin Henry.
Portions Copyright 2007-2011 Suretec Systems Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that this notice is preserved. The names of the copyright holders may not be used to endorse or promote products derived from this software without their specific prior written permission. This software is provided ``as is'' without express or implied warranty.

---

Portions Copyright (c) 1992-1996 Regents of the University of Michigan.
All rights reserved.

Redistribution and use in source and binary forms are permitted provided that this notice is preserved and that due credit is given to the University of Michigan at Ann Arbor. The name of the University may not be used to endorse or promote products derived from this software without specific prior written permission. This software is provided ``as is'' without express or implied warranty. Copyright 1998-2018 The OpenLDAP Foundation. All rights reserved.

COPYING RESTRICTIONS APPLY.

See COPYRIGHT and LICENSE files in the top-level directory of this distribution (i.e., ../COPYRIGHT and ../LICENSE, respectively).
---


Copyright (c) 1998-1999 NeoSoft, Inc.
All Rights Reserved.

This software may be used, modified, copied, distributed, and sold,
in both source and binary form provided that these copyrights are
retained and their terms are followed.

Under no circumstances are the authors or NeoSoft Inc. responsible
for the proper functioning of this software, nor do the authors
assume any liability for damages incurred with its use.

Redistribution and use in source and binary forms are permitted
provided that this notice is preserved and that due credit is given
to NeoSoft, Inc.

NeoSoft, Inc. may not be used to endorse or promote products derived
from this software without specific prior written permission. This
software is provided ```as is`` without express or implied warranty.

Requests for permission may be sent to NeoSoft Inc, 1770 St. James Place,
Suite 500, Houston, TX, 77056.
Copyright 2011-2018 Howard Chu, Symas Corp.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted only as authorized by the OpenLDAP
Public License.

A copy of this license is available in the file LICENSE in the
top-level directory of the distribution or, alternatively, at

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by
other parties and/or subject to additional restrictions.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at
<http://www.openldap.org/>.
The OpenLDAP Public License
Version 2.8, 17 August 2003
Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions in source form must retain copyright statements
   and notices,

2. Redistributions in binary form must reproduce applicable copyright
   statements and notices, this list of conditions, and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time.
Each revision is distinguished by a version number. You may use
this Software under terms of this license revision or under the
terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS
CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S)
OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in
advertising or otherwise to promote the sale, use or other dealing
in this Software without specific, written prior permission. Title
to copyright in this Software shall at all times remain with copyright
holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City,
California, USA. All Rights Reserved. Permission to copy and
distribute verbatim copies of this document is granted.
1.509 libxaw 1.0.13-10.el8

1.509.1 Available under license:

Copyright 1985-1990, 1994, 1998 The Open Group
Copyright 2003-2004 Roland Mainz <roland.mainz@nrubsig.org>

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Copyright (c) 1998-1999 by The XFree86 Project, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
XFREE86 PROJECT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Except as contained in this notice, the name of the XFree86 Project shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the XFree86 Project.

Copyright 1991 by OMRON Corporation

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of OMRON not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. OMRON makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

OMRON DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OMRON BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTUOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1987-1998 by Digital Equipment Corporation, Maynard, Massachusetts. All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTUOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1989 Prentice Hall
Permission to use, copy, modify, and distribute this software for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both the copyright notice and this permission notice appear in supporting documentation.

Prentice Hall and the authors disclaim all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall Prentice Hall or the authors be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortious action, arising out of or in connection with the use or performance of this software.


Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

Digital Equipment Corporation, Maynard, Massachusetts.

Permission to use, copy, modify and distribute this documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Digital makes no representations about the suitability of the
software described herein for any purpose.
It is provided `as is` without express or implied warranty.

1.510 perl-getopt-long 2.50 4.el8

1.510.1 Available under license:

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
"Copyright Holder" is whoever is named in the copyright or copyrights for the package.
"You" is you, if you're thinking about copying or distributing this Package.
"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.511 acl 2.2.53 1.el8

1.511.1 Available under license :

Most components of the "acl" package are licensed under Version 2.1 of the GNU Lesser General Public License (see COPYING.LGPL).

Some components (as annotated in the source) are licensed under Version 2 of the GNU General Public License (see below),

--------------------------------------------------------------------------------
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**
**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Most components of the "acl" package are licensed under Version 2.1 of the GNU Lesser General Public License (see below).

Some components (as annotated in the source) are licensed under Version 2 of the GNU General Public License (see COPYING).

---

**GNU LESSER GENERAL PUBLIC LICENSE**

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is
safer to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.512 pycairo 1.16.3 6.el8
1.512.1 Available under license :
PyCairo is free software.

Every source file in the implementation of PyCairo is available to be
redistributed and/or modified under the terms of either the GNU Lesser
General Public License (LGPL) version 2.1 or the Mozilla Public
License (MPL) version 1.1. Some files are available under more
liberal terms, but we believe that in all cases, each file may be used
under either the LGPL or the MPL.
See the following files in this directory for the precise terms and conditions of either license:

COPYING-LGPL-2.1
COPYING-MPL-1.1

Please see each file in the implementation for Copyright and licensing information.

1.513 centos-logos 85.8-1.el8

1.513.1 Available under license :
CentOS, CentOS Linux, and the CentOS logo, either separately or in combination, are hereinafter referred to as "CentOS Trademarks" and are trademarks of The CentOS Project, registered in the United Kingdom and other countries.

The redhat-logos package ("Package") contains images that are or include the CentOS Trademarks and CentOS trade dress. You are granted the right to use the Package only during the normal operation of software programs that call upon the Package. No other copyright or trademark license is granted herein.

NO WARRANTY. THIS PACKAGE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND INTELLECTUAL PROPERTY NONINFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL THE CENTOS PROJECT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.514 perl-encode 2.97 3.el8

1.514.1 Available under license :
The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.
Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this
7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.515 subscription-manager 1.28.13-3.el8_4

1.515.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

    Preamble

    The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or
9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: subscription-manager
Source: <url://example.com>

Files: *
Copyright: <years> <put author's name and email here>
    <years> <likewise for another author>
License: <special license>
    <Put the license of the package here indented by 1 space>
    <This follows the format of Description: lines in control file>

# If you want to use GPL v2 or later for the /debian/* files use
# the following clauses, or change it to suit. Delete these two lines
Files: debian/*
Copyright: 2017 Matthias Dellweg <dellweg@atix.de>
License: GPL-2+
This package is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>

On Debian systems, the complete text of the GNU General
Public License version 2 can be found in "/usr/share/common-licenses/GPL-2".

# Please also look if there are files or directories which have a
# different copyright/license attached and list them here.
# Please avoid picking licenses with terms that are more restrictive than the
# packaged work, as it may make Debian's contributions unacceptable upstream.
1.516 kexec-tools 2.0.20-46.el8_4.2

1.516.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under the terms of this License.  (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works.  But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.517 ghc-srpm-macros 1.4.2-7.el8

1.517.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU
General Public License is intended to guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to most of the Free Software Foundation's
software and to any other program whose authors commit to using it. (Some other Free Software Foundation
software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to
make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to
surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all
the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show
them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you
legal permission to copy, distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from
the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives
a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE
PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM
"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY
COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL,
SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY
TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER
PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.518 linux-firmware 25.30.13.0-102.el8.1

1.518.1 Available under license :

***** INTEL BINARY FIRMWARE RELEASE LICENCE *****************************

Copyright (c) 2014-15 Intel Corporation.
All rights reserved.

Redistribution.

Redistribution and use in binary form, without modification, are permitted
provided that the following conditions are met:
* Redistributions must reproduce the above copyright notice and the
  following disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Intel Corporation nor the names of its suppliers may
  be used to endorse or promote products derived from this software without
  specific prior written permission.
* No reverse engineering, decompilation, or disassembly of this software is
  permitted.

Limited patent license.

Intel Corporation grants a world-wide, royalty-free, non-exclusive license
under patents it now or hereafter owns or controls to make, have made, use,
import, offer to sell and sell ("Utilize") this software, but solely to the
extent that any such patent is necessary to Utilize the software alone. The
DISCLAIMER.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

***** NEW LIBC LICENCE****************************

The newlib subdirectory is a collection of software from several sources.

Each file may have its own copyright/license that is embedded in the source file. Unless otherwise noted in the body of the source file(s), the following copyright notices will apply to the contents of the newlib subdirectory:

(1) Red Hat Incorporated

Copyright (c) 1994-2009 Red Hat, Inc. All rights reserved.

This copyrighted material is made available to anyone wishing to use, modify, copy, or redistribute it subject to the terms and conditions of the BSD License. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY expressed or implied, including the implied warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. A copy of this license is available at http://www.opensource.org/licenses. Any Red Hat trademarks that are incorporated in the source code or documentation are not subject to the BSD License and may only be used or replicated with the express permission of Red Hat, Inc.

(2) University of California, Berkeley

Copyright (c) 1981-2000 The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


The author of this software is David M. Gay.

Copyright (c) 1991 by AT&T.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR AT&T MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

-----------------------------------------------------------------------------------

The author of this software is David M. Gay.

Copyright (C) 1998-2001 by Lucent Technologies
All Rights Reserved
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and this permission notice and warranty disclaimer appear in supporting documentation, and that the name of Lucent or any of its entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

LUCENT DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL LUCENT OR ANY OF ITS ENTITIES BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

(4) Advanced Micro Devices

Copyright 1989, 1990 Advanced Micro Devices, Inc.

This software is the property of Advanced Micro Devices, Inc (AMD) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by AMD.

AMD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL AMD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the 29K Technical Support Center at 800-29-29-AMD (800-292-9263) in the USA, or 0800-89-1131 in the UK, or 0031-11-1129 in Japan, toll free. The direct dial number is 512-462-4118.

Advanced Micro Devices, Inc.
29K Support Products
Mail Stop 573
5900 E. Ben White Blvd.
Austin, TX 78741
800-292-9263
(7) Sun Microsystems

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

(8) Hewlett Packard

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty:
permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notice and this notice appears in all copies, and that the name of Hewlett-Packard Company not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose.

(9) Hans-Peter Nilsson

Copyright (C) 2001 Hans-Peter Nilsson

Permission to use, copy, modify, and distribute this software is freely granted, provided that the above copyright notice, this notice and the following disclaimer are preserved with no changes.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(10) Stephane Carrez (m68hc11-elf/m68hc12-elf targets only)

Copyright (C) 1999, 2000, 2001, 2002 Stephane Carrez (stcarrez@nerim.fr)

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(11) Christopher G. Demetriou

Copyright (c) 2001 Christopher G. Demetriou
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(12) SuperH, Inc.

Copyright 2002 SuperH, Inc. All rights reserved

This software is the property of SuperH, Inc (SuperH) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by SuperH.

SUPERH MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL SUPERH BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the SuperH Support Center via
SuperH, Inc.
405 River Oaks Parkway
San Jose
CA 95134
USA

(13) Royal Institute of Technology

Copyright (c) 1999 Kungliga Tekniska Högskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of KTH nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(14) Alexey Zelkin

Copyright (c) 2000, 2001 Alexey Zelkin <phantom@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(15) Andrey A. Chernov

Copyright (C) 1997 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(16) FreeBSD

Copyright (c) 1997-2002 FreeBSD Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(17) S. L. Moshier

Author: S. L. Moshier.

Copyright (c) 1984,2000 S.L. Moshier

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, THE AUTHOR MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

(18) Citrus Project

Copyright (c)1999 Citrus Project,
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(19) Todd C. Miller

Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(20) DJ Delorie (i386)
Copyright (C) 1991 DJ Delorie
All rights reserved.
Redistribution, modification, and use in source and binary forms is permitted provided that the above copyright notice and following paragraph are duplicated in all such forms.

This file is distributed WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

(21) Free Software Foundation LGPL License (*-linux* targets only)

Copyright (C) 1990-1999, 2000, 2001 Free Software Foundation, Inc.
This file is part of the GNU C Library.
Contributed by Mark Kettenis <kettenis@phys.uva.nl>, 1997.

The GNU C Library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

The GNU C Library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with the GNU C Library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

(22) Xavier Leroy LGPL License (x86-*.linux* targets only)

Copyright (C) 1996 Xavier Leroy (Xavier.Leroy@inria.fr)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

(23) Intel (i960)

Copyright (c) 1993 Intel Corporation

Intel hereby grants you permission to copy, modify, and distribute this
software and its documentation. Intel grants this permission provided that the above copyright notice appears in all copies and that both the copyright notice and this permission notice appear in supporting documentation. In addition, Intel grants this permission provided that you prominently mark as "not part of the original" any modifications made to this software or documentation, and that the name of Intel Corporation not be used in advertising or publicity pertaining to distribution of the software or the documentation without specific, written prior permission.

Intel Corporation provides this AS IS, WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Intel makes no guarantee or representations regarding the use of, or the results of the use of, the software and documentation in terms of correctness, accuracy, reliability, currentness, or otherwise; and you rely on the software, documentation and results solely at your own risk.

IN NO EVENT SHALL INTEL BE LIABLE FOR ANY LOSS OF USE, LOSS OF BUSINESS, LOSS OF PROFITS, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. IN NO EVENT SHALL INTEL'S TOTAL LIABILITY EXCEED THE SUM PAID TO INTEL FOR THE PRODUCT LICENSED HEREUNDER.

(24) Hewlett-Packard (hppa targets only)

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty:
   permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notice and this notice appears in all copies, and that the name of Hewlett-Packard Company not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose.

(25) Henry Spencer (only *-linux targets)

Copyright 1992, 1993, 1994 Henry Spencer. All rights reserved. This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it, subject to the following restrictions:
1. The author is not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

(26) Mike Barcroft

Copyright (c) 2001 Mike Barcroft <mike@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(27) Konstantin Chuguev (--enable-newlib-iconv)

Copyright (c) 1999, 2000
Konstantin Chuguev. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

Copyright (c) 2003, Artem B. Bityuckiy, SoftMine Corporation.
Rights transferred to Franklin Electronic Publishers.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(29) IBM, Sony, Toshiba (only spu-* targets)

(C) Copyright 2001,2006,
International Business Machines Corporation,
Sony Computer Entertainment, Incorporated,
Toshiba Corporation,

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the names of the copyright holders nor the names of their
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

(30) - Alex Tatmanjants (targets using libc/posix)

Copyright (c) 1995 Alex Tatmanjants <alex@elvisti.kiev.ua>
at Electronni Visti IA, Kiev, Ukraine.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
Copyright (c) 1998, M. Warner Losh <imp@freebsd.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(31) - M. Warner Losh (targets using libc/posix)

Copyright (C) 1996 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(33) - Daniel Eischen (targets using libc/posix)

Copyright (c) 2001 Daniel Eischen <deischen@FreeBSD.org>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(34) - Jon Beniston (only lm32-* targets)

Contributed by Jon Beniston <jon@beniston.com>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(35) - ARM Ltd (arm and thumb variant targets only)

Copyright (c) 2009 ARM Ltd
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the company may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY ARM LTD ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL ARM LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(36) - Xilinx, Inc. (microblaze-* and powerpc-* targets)
Copyright (c) 2004, 2009 Xilinx, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of Xilinx nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(37) Texas Instruments Incorporated (tic6x-*, *-tirtos targets)

Copyright (c) 1996-2010,2014 Texas Instruments Incorporated
http://www.ti.com/

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Texas Instruments Incorporated nor the names
of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(38) National Semiconductor (cr16-* and crx-* targets)

Copyright (c) 2004 National Semiconductor Corporation

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(39) - Adapteva, Inc. (epiphany-* targets)

Copyright (c) 2011, Adapteva, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Adapteva nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(40) - Altera Corporation (nios2-* targets)

Copyright (c) 2003 Altera Corporation
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Altera Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ALTERA CORPORATION, THE COPYRIGHT HOLDER, AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(41) Ed Schouten - Free BSD

Copyright (c) 2008 Ed Schouten <ed@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS `"AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License.  (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.
The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.519 did-you-mean 1.2.0
1.519.1 Available under license :

## License

didYouMean.js copyright (c) 2013 Dave Porter.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License [here](http://www.apache.org/licenses/LICENSE-2.0).

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.520 libmaxminddb 1.2.0 10.el8
1.520.1 Available under license :

Copyright 2013-2014 MaxMind, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

END OF TERMS AND CONDITIONS
Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

This work is licensed under the Creative Commons Attribution-ShareAlike 3.0 Unported License. To view a copy of this license, visit http://creativecommons.org/licenses/by-sa/3.0/ or send a letter to Creative Commons, 444 Castro Street, Suite 900, Mountain View, California, 94041, USA.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.521 setroubleshoot 3.3.24-3.el8

1.521.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term “modification”.) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

**1.522 libffi 3.1 22.el8**

**1.522.1 Available under license:**

libffi - Copyright (c) 1996-2014 Anthony Green, Red Hat, Inc and others. See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.523 libseccomp 2.5.1-1.el8
1.523.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
1.524.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

Tracer finds outdated running applications in your system
Copyright (C) 2016 Jakub Kadlicik

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

  {signature of Ty Coon}, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.525 jbign2dec 0.16-1.el8
1.525.1 Available under license:

GNU AFFERO GENERAL PUBLIC LICENSE
Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its
source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.

**TERMS AND CONDITIONS**

0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in
source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, selling, or otherwise offering to sell, and no such patent claim includes claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.
1.526 patch 2.7.6 11.el8

1.526.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program—to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers’ and authors’ protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work’s users, your or third parties’ legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.
Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".
A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that oblige you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy’s
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
even if such holder or other party has been advised of the possibility of
such damages.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.
The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.527 pesign 0.112-25.el8

1.527.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.528 rdma-core 32.0-4.el8
1.528.1 Available under license :

Copyright (c) 2013. Intel Corporation. All rights reserved.
Copyright (c) 2007. QLogic Corp. All rights reserved.
Copyright (c) 2005. PathScale, Inc. All rights reserved.

This software is available to you under a choice of one of two
licenses. You may choose to be licensed under the terms of the GNU
General Public License (GPL) Version 2, available from the file
COPYING in the main directory of this source tree, or the
OpenIB.org BSD license below:

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

- Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.

- Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
Patent licenses, if any, provided herein do not apply to combinations of this program with other software, or any other product whatsoever.

OpenIB.org BSD license (MIT variant)

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyeone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a
Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

   the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work; moral rights retained by the original author(s) and/or performer(s); publicity and privacy rights pertaining to a person's image or likeness depicted in a Work; rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below; rights protecting the extraction, dissemination, use and reuse of data in a Work; database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable
law or treaty (including future time extensions), (iii) in any current or
future medium and for any number of copies, and (iv) for any purpose
whatsoever, including without limitation commercial, advertising or promotional
purposes (the "License"). The License shall be deemed effective as of the date
CC0 was applied by Affirmer to the Work. Should any part of the License for any
reason be judged legally invalid or ineffective under applicable law, such
partial invalidity or ineffectiveness shall not invalidate the remainder of the
License, and in such case Affirmer hereby affirms that he or she will not (i)
exercise any of his or her remaining Copyright and Related Rights in the Work
or (ii) assert any associated claims and causes of action with respect to the
Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned,
surrendered, licensed or otherwise affected by this document. Affirmer offers
the Work as-is and makes no representations or warranties of any kind
concerning the Work, express, implied, statutory or otherwise, including
without limitation warranties of title, merchantability, fitness for a
particular purpose, non infringement, or the absence of latent or other
defects, accuracy, or the present or absence of errors, whether or not
discoverable, all to the greatest extent permissible under applicable law.
Affirmer disclaims responsibility for clearing rights of other persons that may
apply to the Work or any use thereof, including without limitation any person's
Copyright and Related Rights in the Work. Further, Affirmer disclaims
responsibility for obtaining any necessary consents, permissions or other
rights required for any use of the Work. Affirmer understands and acknowledges
that Creative Commons is not a party to this document and has no duty or
obligation with respect to this CC0 or use of the Work.

OpenIB.org BSD license (FreeBSD Variant)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, 
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE 
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: rdma-core
Upstream-Contact: Doug Ledford <dledford@redhat.com>, 
Leon Romanovsky <Leon@kernel.org>
Source: https://github.com/linux-rdma/rdma-core

Files: *
Copyright: disclaimed
License: BSD-MIT or GPL-2

Files: debian/*
Copyright: 2008, Genome Research Ltd
2014, Ana Beatriz Guerrero Lopez. <ana@debian.org>
2015-2016, Jason Gunthorpe <jgunthorpe@obsidianresearch.com>
2016-2018, Benjamin Drung <benjamin.drung@cloud.ionos.com>
2016-2017, Talat Batheesh <talatb@mellanox.com>
License: GPL-2+
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

On Debian systems, the full text of the GNU General Public License
version 2 can be found in the file '/usr/share/common-licenses/GPL-2'.

Files: CMakeLists.txt
License: BSD-MIT or GPL-2

Files: buildlib/*
2016-2017 Mellanox Technologies, Inc
License: BSD-MIT or GPL-2

Files: buildlib/fixup-include/stdatomic.h
Copyright: 2011 Ed Schouten <ed@FreeBSD.org>
David Chisnall <theraven@FreeBSD.org>
License: BSD-2-clause

Files: ccan/*
Copyright: unspecified
License: CC0

Files: ccan/list/*
Copyright: unspecified
License: MIT

Files: ibacm/*
2013, Mellanox Technologies LTD.
License: BSD-MIT

Files: ibacm/man/*
ibacm/ibacm.init.in
Copyright: disclaimed
License: BSD-2-clause

Files: ibacm/CMakeLists.txt
ibacm/ibacm_hosts.data
Copyright: disclaimed
License: BSD-MIT or GPL-2

Files: iwpmd/*
Copyright: 2013-2016, Intel Corporation.
License: BSD-MIT or GPL-2

Files: kernel-headers/*
Copyright: disclaimed
License: GPL-2 or BSD-2-clause

Files: kernel-headers/rdma/rdma_netlink.h
Copyright: disclaimed
License: GPL-2

Files: kernel-headers/rdma/hfi/*
Copyright: disclaimed
License: GPL-2 or BSD-3-clause

Files: libibumad/*
Copyright: 2004-2017, Mellanox Technologies Ltd.
2004, Topspin Corporation.
Files: libibumad/man/*
Copyright: disclaimed
License: BSD-2-clause

Files: libibverbs/*
        2005, PathScale, Inc.
        2005, Mellanox Technologies Ltd.
        2005, Voltaire, Inc.
        2008, Lawrence Livermore National Laboratory.
License: BSD-MIT or GPL-2

Files: libibverbs/man/*
libibverbs.neigh.h
libibverbs.neigh.c
Copyright: disclaimed
License: BSD-2-clause

Files: librdmacm/*
        2005, Ammasso, Inc.
        2005, Voltaire Inc.
        2014-2015, Mellanox Technologies LTD.
License: BSD-MIT or GPL-2

Files: librdmacm/examples/cmtime.c
        librdmacm/examples/rcopy.c
        librdmacm/examples/rdma_client.c
        librdmacm/examples/rdma_server.c
        librdmacm/examples/rdma_xclient.c
        librdmacm/examples/rdma_xserver.c
        librdmacm/examples/riostream.c
        librdmacm/examples/rstream.c
        librdmacm/examples/udpong.c
        2014-2015, Mellanox Technologies LTD.
License: BSD-MIT

Files: librdmacm/docs/rsocket
Copyright: disclaimed
License: BSD-2-clause
Files: librdmacm/man/*
Copyright: disclaimed
License: BSD-2-clause

Files: providers/bnxt_re/*
Copyright: 2015-2017, Broadcom Limited and/or its subsidiaries
License: BSD-2-clause or GPL-2

Files: providers/cxgb4/*
Copyright: 2003-2016, Chelsio Communications, Inc.
License: BSD-MIT or GPL-2

Files: providers/efa/*
Copyright: 2019 Amazon.com, Inc. or its affiliates.
License: BSD-2-clause or GPL-2

Files: providers/hfi1verbs/*
Copyright: 2005 PathScale, Inc.
2006-2009 QLogic Corporation
2015 Intel Corporation
License: BSD-3-clause or GPL-2

Files: providers/hns/*
Copyright: 2016, Hisilicon Limited.
License: BSD-MIT or GPL-2

Files: providers/i40iw/*
Copyright: 2015-2016, Intel Corporation.
License: BSD-MIT or GPL-2

Files: providers/ipathverbs/*
Copyright: 2006-2010, QLogic Corp.
2005, PathScale, Inc.
2013, Intel Corporation
License: BSD-MIT or GPL-2

Files: providers/mlx4/*
Copyright: 2004-2005, Topspin Communications.
2005-2007, Cisco, Inc.
2005-2017, Mellanox Technologies Ltd.
License: BSD-MIT or GPL-2

Files: providers/mlx5/*
Copyright: 2010-2017, Mellanox Technologies, Inc.
License: BSD-MIT or GPL-2

Files: providers/mlx5/man/*.3
providers/mlx5/man/*.7
Copyright: disclaimed
License: BSD-MIT

Files: providers/mthca/
Copyright: 2004-2005, Topspin Communications.
          2005, Mellanox Technologies Ltd.
License: BSD-MIT or GPL-2

Files: providers/ocrdma/
Copyright: 2008-2013, Emulex.
License: BSD-2-clause or GPL-2

Files: providers/qedr/
Copyright: 2015-2016, QLogic Corporation.
License: BSD-MIT or GPL-2

Files: providers/rxe/
Copyright: 2009-2011, System Fabric Works, Inc.
          2009-2011, Mellanox Technologies Ltd.
          2005, PathScale, Inc.
License: BSD-MIT or GPL-2

Files: providers/siw/
License: BSD-3-clause or GPL-2

Files: providers/vmw_pvrdma/
Copyright: 2012-2016 VMware, Inc.
License: BSD-2-clause or GPL-2

Files: rdma-ndd/
Copyright: 2004-2016, Intel Corporation.
License: BSD-MIT or GPL-2

Files: redhat/
Copyright: 1996-2013, Red Hat, Inc.
License: GPL-2

Files: srp_daemon/
Copyright: 2005, Topspin Communications.
          2006, Cisco Systems, Inc.
          2006, Mellanox Technologies Ltd.
License: BSD-MIT or GPL-2

Files: srpDaemon/srp_daemon.8.in
Copyright: 2006 Mellanox Technologies.
License: CPL-1.0 or BSD-2-clause or GPL-2

Files: srp_daemon/srpd.in
      srp_daemon/ibsrpdm.8
Copyright: disclaimed
License: BSD-2-clause

Files: util/udma_barrier.h
Copyright: 2005 Topspin Communications.
License: BSD-MIT or GPL-2

License: BSD-MIT
      OpenIB.org BSD license (MIT variant)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

License: BSD-2-clause
      OpenIB.org BSD license (FreeBSD Variant)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: BSD-3-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.
* Neither the name of Intel Corporation nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: GPL-2
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 of the License.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
License: CC0
The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

   the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work; moral rights retained by the original author(s) and/or performer(s); publicity and privacy rights pertaining to a person's image or likeness depicted in a Work; rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below; rights protecting the extraction, dissemination, use and reuse of data in a Work; database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.
2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

   No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document. Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law. Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's
Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work. Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

License: MIT
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License: CPL-1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

“Contributor” means any person or entity that distributes the Program.

“Licensed Patents” mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

“Program” means the Contributions distributed in accordance with this Agreement.

“Recipient” means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.
3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its
own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title and
non-infringement, and implied warranties or conditions of merchantability and
fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable manner on or
through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the
Program.

Each Contributor must identify itself as the originator of its Contribution, if
any, in a manner that reasonably allows subsequent Recipients to identify the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor who
includes the Program in a commercial product offering should do so in a manner
which does not create potential liability for other Contributors. Therefore, if
a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses, damages
and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the
terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# Default Dual License

Unless otherwise stated this software is available to you under a choice of
one of two licenses. You may choose to be licensed under the terms of the
OpenIB.org BSD (MIT variant) license (see COPYING.BSD_MIT) or the GNU General
Public License (GPL) Version 2 (see COPYING.GPL2), both included in this
package.

Files marked 'See COPYING file' are licensed under the above Dual License.

# Other Options

Individual source files may use a license different from the above Default Dual
License. If a license is declared in the file then it supersedes the Default
License.

If a directory contains a COPYING file then the License from that file becomes
the Default License for files in that directory and below.

# Copyright Holders

Refer to individual files for information on the copyright holders.

# License Catalog (Informative, Non Binding)

## Utilities

Utility source code that may be linked into any binary are available under
several licenses:

- MIT license (see ccan/LICENSE.MIT)
- Creative Commons CC0 1.0 Universal License (see ccan/LICENSE.CC0)

## Providers

The following providers use a different license than the Default Dual
License. Refer to files in each directory for details.

hfil verbs
  : Dual License: GPLv2 or Intel 3 clause BSD license

ipathverbs
  : Dual License: GPLv2 or PathScale BSD Patent license

ocrdma
  : Dual License: GPLv2 or OpenIB.org BSD (FreeBSD variant), See COPYING.BSD_FB

## Libraries

All library compilable source code (.c and .h files) are available under the
Default Dual License.
Unmarked ancillary files may be available under a Dual License: GPLv2 or OpenIB.org BSD (FreeBSD variant).

## Tools (iwpmd, srp_daemon, ibacm)

All compilable source code (.c and .h files) are available under the Default Dual License.

Unmarked ancillary files may be available under a Dual License: GPLv2 or OpenIB.org BSD (FreeBSD variant).

srp_daemon/srp_daemon/srp_daemon.sh: Any one of the GPLv2, a 2 clause BSD license or the CPLv1.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### 1.529 datadog-go v3.3.0+incompatible

1.529.1 Available under license:

Copyright (c) 2015 Datadog, Inc

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.530 zip 3.0 23.el8

1.530.1 Available under license :

This is version 2007-Mar-4 of the Info-ZIP license.

Copyright (c) 1990-2007 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:


This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials.
provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.


RECORD

Carriage_Control carriage_return
Format stream_lf

1.531 nano 2.9.8 1.el8
1.531.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.
Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU Free Documentation License
Version 1.2, November 2002

Copyright (C) 2000,2001,2002 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document “free” in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The “Document”, below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as “you”. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.
The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements").
"Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.
If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.
I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retile any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History"
in the various original documents, forming one section Entitled
"History"; likewise combine any sections Entitled "Acknowledgements",
and any sections Entitled "Dedications". You must delete all sections
Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS
A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.
1.532 quota 4.04-12.el8

1.532.1 Available under license:

This package, the quota tools, are made available under the GNU Public License version 2, with the exception of files quota.c, quotaio_v1.c, quotaon.c, quotaops.c, quot.c, and quot.h which are made available under the BSD license (see headers of these files for details).

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
END OF TERMS AND CONDITIONS

1.533 lz4 1.8.3-3.el8_4

1.533.1 Available under license:

This repository uses 2 different licenses:
- all files in the `lib` directory use a BSD 2-Clause license
- all other files use a GPLv2 license, unless explicitly stated otherwise

Relevant license is reminded at the top of each source file,
and with presence of COPYING or LICENSE file in associated directories.

This model is selected to emphasize that
files in the `lib` directory are designed to be included into 3rd party applications,
while all other files, in `programs`, `tests` or `examples`,
receive more limited attention and support for such scenario.

LZ4 Library
Copyright (c) 2011-2016, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this
  list of conditions and the following disclaimer in the documentation and/or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Copyright (c) 2014, lpsantil
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: lzh4
Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

Files: *
Copyright: (C) 2011+ Yann Collet
License: GPL-2+
The full text of license: https://github.com/Cyan4973/lz4/blob/master/lib/LICENSE

1.534 pyudev 0.21.0
1.534.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.535 shadow 4.6-12.el8
1.535.1 Available under license :

 GNU GENERAL PUBLIC LICENSE
 Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

/*
 * Copyright (c) 1990 - 1994, Julianne Frances Haugh
 * Copyright (c) 1996 - 2000, Marek Michakiewicz
 * Copyright (c) 2000 - 2006, Tomasz Koczko
 * Copyright (c) 2007 - 2011, Nicolas Francois
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the copyright holders or contributors may not be used to
 * endorse or promote products derived from this software without
 * specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 * PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 * HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

NOTE:
This license has been obsoleted by the change to the BSD-style copyright.
You may continue to use this license if you wish, but you are under no
obligation to do so.

(*
This document is freely plagiarised from the 'Artistic Licence',
distributed as part of the Perl v4.0 kit by Larry Wall, which is
available from most major archive sites. I stole it from CrackLib.

$Id$
*)

This document's purpose is to state the conditions under which this
Package (See definition below) viz: "Shadow", the Shadow Password Suite
which is held by Julianne Frances Haugh, may be copied, such that the
copyright holder maintains some semblance of artistic control over the
development of the package, while giving the users of the package the
right to use and distribute the Package in a more-or-less customary
fashion, plus the right to make reasonable modifications.

So there.

***************************************************************************

Definitions:

A "Package" refers to the collection of files distributed by the
Copyright Holder, and derivatives of that collection of files created
through textual modification, or segments thereof.

"Standard Version" refers to such a Package if it has not been modified,
or has been modified in accordance with the wishes of the Copyright
Holder.

"Copyright Holder" is whoever is named in the copyright or copyrights
for the package.

"You" is you, if you're thinking about copying or distributing this
Package.

"Reasonable copying fee" is whatever you can justify on the basis of
media cost, duplication charges, time of people involved, and so on.
(You will not be required to justify it to the Copyright Holder, but
only to the computing community at large as a market that must bear the
"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when AND WHY you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide separate documentation for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding
Standard Version executables, giving the non-standard executables
non-standard names, and clearly documenting the differences in manual
pages (or equivalent), together with instructions on where to get the
Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package. You may charge any fee you choose for support of this Package.
YOU MAY NOT CHARGE A FEE FOR THIS PACKAGE ITSELF. However, you may
distribute this Package in aggregate with other (possibly commercial)
programs as part of a larger (possibly commercial) software distribution
provided that YOU DO NOT ADVERTISE this package as a product of your
own.

6. The name of the Copyright Holder may not be used to endorse or
promote products derived from this software without specific prior
written permission.

7. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
Such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.536 berkeley-db 5.3.28-40.el8

1.536.1 Available under license :

/ *
* /

The following is the license that applies to this copy of the Berkeley DB
software. For a license to use the Berkeley DB software under conditions
other than those described here, or to purchase support for this software,
please contact Sleepycat Software by email at info@sleepycat.com, or on

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
/ *
* Copyright (c) 1990-2004
* Sleepycat Software. All rights reserved.
* *
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Redistributions in any form must be accompanied by information on
* how to obtain complete source code for the DB software and any
* accompanying software that uses the DB software. The source code
* must either be included in the distribution or be available for no
more than the cost of distribution plus a nominal fee, and must be
freely redistributable under reasonable conditions. For an
executable file, complete source code means the source code for all
modules it contains. It does not include source code for modules or
files that typically accompany the major components of the operating
system on which the executable file runs.

* THIS SOFTWARE IS PROVIDED BY SLEEPYCAT SOFTWARE "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
* NON-INFRINGEMENT, ARE DISCLAIMED. IN NO EVENT SHALL SLEEPYCAT SOFTWARE
* BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
* Copyright (c) 1990, 1993, 1994, 1995
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* Copyright (c) 1995, 1996
* The President and Fellows of Harvard University. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.537 decorator 4.2.1
1.537.1 Available under license:
Copyright (c) 2005-2017, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in bytecode form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

1.538 libyaml 0.1.7 5.el8
1.538.1 Available under license :
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.539 libfprint 1.90.7-1.el8
1.539.1 Available under license :
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at runtime a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.540 python-dateutil 2.6.1-1.ph1
1.540.1 Available under license:

dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pievilinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
1.541 lvm2 2.03.11-5.el8

1.541.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
Copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

BSD 2-Clause License

Copyright (c) 2014, Red Hat, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.542 strace 5.7-2.el8
1.542.1 Available under license :
GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it
if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with
the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published
by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and an idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

< signature of Ty Coon > , 1 April 1990

Ty Coon, President of Vice

That's all there is to it!
Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>
Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>
Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>
Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>
Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>
Copyright (c) 1998-2001 Wichert Akkerman <wakkerma@deephackmode.org>
Copyright (c) 2001-2020 The strace developers.
All rights reserved.

strace is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License,
or (at your option) any later version.

strace is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See LGPL-2.1-or-later for more details.

strace test suite is provided under the terms of the GNU General Public License
version 2 or later, see tests/COPYING for more details.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom
to share and change it. By contrast, the GNU General Public License
is intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Lesser General Public
License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it in
new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
for a fee, you must give the recipients all the rights that you have. You
must make sure that they, too, receive or can get the source code. And
you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions
are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and an idea of what it does.>

Copyright (C) <yyyy> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

< signature of Ty Coon > , 1 April 1989 Ty Coon, President of Vice This
General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Copyright (c) 2011-2020 The strace developers.
All rights reserved.

strace test suite is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by the
Free Software Foundation; either version 2 of the License, or (at your
option) any later version.

strace test suite is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See GPL-2.0-or-later for more details.
This is the Debian packaged version of strace. For a complete list of
changes from the upstream version please see the changelog.

The upstream sources can be found at https://github.com/strace/strace/

This is the copyright as found in the upstream sources:

Copyright (c) 1991, 1992 Paul Krakenburg <pk@cs.few.eur.nl>
Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>
Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>
Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>
Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>
Copyright (c) 1998-2001 Wichert Akkerman <wakkerma@deephackmode.org>
Copyright (c) 2001-2020 The strace developers.
All rights reserved.

strace is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published
by the Free Software Foundation; either version 2.1 of the License,
or (at your option) any later version.

strace is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See LGPL-2.1-or-later for more details.

strace test suite is provided under the terms of the GNU General Public License
1.543 syspurpose 1.28.13

1.543.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: subscription-manager
Source: <url://example.com>

Files: *
Copyright: <years> <put author's name and email here>
    <years> <likewise for another author>
License: <special license>
    <Put the license of the package here indented by 1 space>
    <This follows the format of Description: lines in control file>

# If you want to use GPL v2 or later for the /debian/* files use
# the following clauses, or change it to suit. Delete these two lines
Files: debian/ *
Copyright: 2017 Matthias Dellweg <dellweg@atix.de>
License: GPL-2+
This package is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This package is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

On Debian systems, the complete text of the GNU General Public License version 2 can be found in "/usr/share/common-licenses/GPL-2".

# Please also look if there are files or directories which have a different copyright/license attached and list them here.
# Please avoid picking licenses with terms that are more restrictive than the packaged work, as it may make Debian's contributions unacceptable upstream.

1.544 vdo 6.2.4.14-14.el8
1.544.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25629
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The Red Hat VDO Team:
Principal Engineer/Lead Architect:
   J. corwin Coburn <corwin@redhat.com>

Primary Authors:
Joseph Chapman <jochapma@redhat.com>
Sweet Tea Dorminy <sweettea@redhat.com>
*Thomas Jaskiewicz <tom@jaskiewicz.us>
Bruce Johnston <bjjohnst@redhat.com>
Susan McGhee <slegendr@redhat.com>
Ken Raeburn <raeburn@redhat.com>
Michael Sclafani <sclafani@redhat.com>
Matthew Sakai <msakai@redhat.com>
Joseph Shimkus <jshimkus@redhat.com>
John Wiele <jwiele@redhat.com>

Support, Testing, Documentation, and other things too numerous to mention:
Chung Chung <cchung@redhat.com>:
Bryan Gurney <bgurney@redhat.com>
*Simon J. Hernandez <sihernan@redhat.com>
Jakub Krysl <jkrx@redhat.com>
Marek Suchanek <msuchane@redhat.com>

Project Management & Technical Direction:
   Jered Floyd <jered@redhat.com>
   Louis Imershein <limershe@redhat.com>
   Dennis Keefe <dkeefe@redhat.com>
   Andrew Walsh <awalsh@redhat.com>

*former team members

Other Contributors:
Ji-Hyeon Gim <potatogim@potatogim.net>:
Updates for FC26/Kernel 4.13
Vojtech Trefny <vtrefny@redhat.com>
Getting correct size of partitions
Achilles Gaikwad <agaikwad@redhat.com>
Bash completion for the vdo and vdostats commands
Jin-young Kwon <gc757489@gmail.com>
Adding vdo --version command, and documentation fixes

VDO was originally created at Permabit Technology Corporation, and was
subsequently acquired and open-sourced by Red Hat.

Former Members of the Permabit VDO Team:

Engineers:
Mark Amidon
David Buckle
Jacky Chu
Joel Hoff
Dimitri Kountourogianni
Alexis Layton
Michael Lee
Rich Macchi
Dave Paniriti
Karl Ramm
Hooman Vassef
Assar Westurlund

Support, Testing, Documentation, etc.
Carl Alexander
Mike Chu
Mark Iskra
Farid Jahanmir
Francesca Koulikov
Erik Lattimore
Jennifer Levine
Randy Long
Steve Looby
Uche Onyekwuluje
Catherine Powell
Jeff Pozz
Sarmad Sada
John Schmidt
Omri Schwarz
Jay Splaine
John Welle
Mary-Anne Wolf
Devon Yablonski
Robert Zupko
Interns:
Ari Entlich
Lori Monteleone

Project Management & Technical Direction:
Michael Fortson

Other Past Permabit Contributors (for early work on the index):
James Clough
Dave Golombek
Albert Lin
Edwin Olson
Dave Pinkney
Rich Brennan

And Very Special Thanks To:
Norman Margolis, who started the whole thing

1.545 python-ptyprocess 0.5.2-4.el8
1.545.1 Available under license:

Ptyprocess is under the ISC license, as code derived from Pexpect.
http://opensource.org/licenses/ISC

Copyright (c) 2013-2014, Pexpect development team
Copyright (c) 2012, Noah Spurrier <noah@noah.org>

PERMISSION TO USE, COPY, MODIFY, AND/OR DISTRIBUTE THIS SOFTWARE FOR ANY PURPOSE WITH OR WITHOUT FEE IS HEREBY GRANTED, PROVIDED THAT THE ABOVE COPYRIGHT NOTICE AND THIS PERMISSION NOTICE APPEAR IN ALL COPIES. THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.546 jna 4.5.1-5.el8
1.546.1 Available under license:

This copy of JNA is licensed under the Lesser General Public License (LGPL), version 2.1 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.
You may obtain a copy of the License at:

http://www.gnu.org/licenses/licenses.html

A copy is also included in the downloadable source code package containing JNA, in file "LGPL2.1", under the same directory as this file.

Java Native Access project (JNA) is dual-licensed under 2 alternative Open Source/Free licenses: LGPL 2.1 or later and Apache License 2.0. (starting with JNA version 4.0.0).

You can freely decide which license you want to apply to the project.

You may obtain a copy of the LGPL License at:

http://www.gnu.org/licenses/licenses.html

A copy is also included in the downloadable source code package containing JNA, in file "LGPL2.1", under the same directory as this file.

You may obtain a copy of the Apache License at:

http://www.apache.org/licenses/

A copy is also included in the downloadable source code package containing JNA, in file "AL2.0", under the same directory as this file.

This copy of JNA is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/

A copy is also included in the downloadable source code package containing JNA, in file "AL2.0", under the same directory as this file.
Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of
this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safer to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the
Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.548 perl-pod-usage 1.69 395.el8

1.548.1 Available under license:
The Artistic License
Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
"Copyright Holder" is whoever is named in the copyright or copyrights for the package.
"You" is you, if you're thinking about copying or distributing this Package.
"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.
1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.
c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.549 zlib 1.2.8

1.549.1 Available under license:

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.550 ply 3.9

1.550.1 Available under license:

No license file was found, but licenses were detected in source scan.

PLY (Python Lex-Yacc) Version 3.9

Copyright (C) 2001-2016
David M. Beazley (Dabeaz LLC)
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the David Beazley or Dabeaz LLC may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
Introduction

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.
How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
========= More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply
An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
# ------------------------------------------

tokens = (  
  'NAME','NUMBER',  
  'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
  'LPAREN','RPAREN',  
)

# Tokens

  t_PLUS    = r'\+'  
  t_MINUS   = r'-'  
  t_TIMES   = r'\*'  
  t_DIVIDE  = r'/'
```

t_EQUALS = r'='
t_LPAREN = r'('
t_RPAREN = r')'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " 	"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"

---

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25654

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
========================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

Found in path(s):
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-PLY-3-9-0-gb515c5f-1-tar-gz/dabeaz-PLY-a413a09/README.md
No license file was found, but licenses were detected in source scan.

# All rights reserved.
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
# * Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# * Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
# * Neither the name of the David Beazley or Dabeaz LLC may be used to

Found in path(s):
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-PLY-3-9-0-gb515c5f-1-tar-gz/dabeaz-PLY-a413a09/ply/lex.py
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-PLY-3-9-0-gb515c5f-1-tar-gz/dabeaz-PLY-a413a09/ply/yacc.py
No license file was found, but licenses were detected in source scan.

# All rights reserved

Found in path(s):
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-PLY-3-9-0-gb515c5f-1-tar-gz/dabeaz-PLY-a413a09/ply/cpp.py
No license file was found, but licenses were detected in source scan.

# This work is hereby released into the Public Domain. To view a copy of
# the public domain dedication, visit

Found in path(s):
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-PLY-3-9-0-gb515c5f-1-tar-gz/dabeaz-PLY-a413a09/example/GardenSnake/GardenSnake.py

1.551 dbm 1.0.0
1.551.1 Available under license :
The MIT License (MIT)

Copyright (c) 2013 Aaron Lefkowitz

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.552 fdisk 2.32.1

1.552.1 Available under license:

/*
 * Copyright (c) 1989 The Regents of the University of California.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    This product includes software developed by the University of
 *    California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
./Documentation/licenses/COPYING.LGPLv2.1 file.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This library is free software; you can redistribute it and/or modify it under the terms of the Modified BSD License.

The complete text of the license is available in the ../Documentation/licenses/COPYING.BSD-3 file.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.553 perl-generators 1.10-9.el8

1.553.1 Available under license:

Found license 'General Public License 2.0' in '# This is free software. You may redistribute copies of it under the terms of # the GNU General Public License <http://www.gnu.org/licenses/gpl.html>.'

1.554 perl-scalar-list-utils 1.49-2.el8
1.554.1 Available under license:
No license file was found, but licenses were detected in source scan.

=head1 NAME
List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS
use List::Util::XS 1.20;

=head1 DESCRIPTION
C<List::Util::XS> can be used as a dependency to ensure List::Util was
installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to
C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using
the XS implementation, but for backwards compatibility, we still
ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO
L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

=head1 COPYRIGHT
Copyright (c) 2008 Graham Barr <gbarr@pobox.com>. All rights reserved.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2009 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=heading2 RT #95409
If the block of code given to \texttt{pairmap} contains lexical variables that are captured by a returned closure, and the closure is executed after the block has been re-used for the next iteration, these lexicals will not see the correct values. For example:

```perl
my @subs = pairmap {
  my $var = "$a is $b";
  sub { print "$var\n" ;}
} one => 1, two => 2, three => 3;
$_->() for @subs;
```

Will incorrectly print

- three is 3
- three is 3
- three is 3

This is due to the performance optimisation of using \texttt{MULTICALL} for the code block, which means that fresh SVs do not get allocated for each call to the block. Instead, the same SV is re-assigned for each iteration, and all the closures will share the value seen on the final iteration.

To work around this bug, surround the code with a second set of braces. This creates an inner block that defeats the \texttt{MULTICALL} logic, and does get fresh SVs allocated each time:

```perl
my @subs = pairmap {
  {
    my $var = "$a is $b";
    sub { print "$var\n" ;}
  }
} one => 1, two => 2, three => 3;
```

This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums

Due to the way that \texttt{uniqnum()} compares numbers, it cannot distinguish differences between bignums (especially bigints) that are too large to fit in the native platform types. For example,

```perl
my $x = Math::BigInt->new( "1" x 100 );
```
my $y = $x + 1;

say for uniqnum( $x, $y );

Will print just the value of C<$x>, believing that C<$y> is a numerically-
equivalent value. This bug does not affect C<uniqstr>(), which will correctly
observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant
to add due to them being very simple to implement in perl

# How many elements are true

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* Copyright (c) 1997-2000 Graham Barr <gbarr@pobox.com>. All rights reserved.
 * This program is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 */

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

.SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus             accept C++ comments

--quiet                 don't output anything except fatal errors
--nodiag                don't show diagnostics
--nohints               don't show hints
--nochanges             don't suggest changes
--nofilter              don't filter input files

--strip                 strip all script and doc functionality from
                        ppport.h

--list-provided         list provided API
--list-unsupported      list unsupported API
--api-info=name         show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.
Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C|--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl pppport.h --list-provided

to see which API elements are provided by pppport.h.
You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_Global</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the \texttt{DPPP_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{DPPP_}.

The good thing is that most of the above can be checked by running \texttt{ppport.h} on your source code. See the next section for details.

\begin{verbatim}
=head1 EXAMPLES

To verify whether \texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, \texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

---

\textit{Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25675}
If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```bash
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```bash
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```bash
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```bash
perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```bash
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```bash
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `/_nomg/` functions or

```bash
perl ppport.h --api-info=/@
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"
=item 2.
This file.
=item 3.
The name and version of the module you were trying to build.
=item 4.
A full log of the build that failed.
=item 5.
Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
  quiet     => 0,
  diag      => 1,
  hints     => 1,
  changes   => 1,
  cplusplus => 0,
  filter    => 1,
  strip     => 0,
  version   => 0,
);

my($ppport) = $0 =~ /\[(\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\)n\r\n\]); # line feed
my $HS = "[ ]+\]; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '.*\/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION."
  exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
die "Invalid version number format: '$opt{'compat-version'}'\n";
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}
my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
? ( $1 => {
($2
? ( base => $2 ) : ()),
($3
? ( todo => $3 ) : ()),
(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
})
: die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001||p

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25679


PERL_PV_ESCAPE_RE[5.009005]p
PERL_PV_ESCAPE_UNI_DETECT[5.009004]p
PERL_PV_ESCAPE_UNI[5.009004]p
PERL_PVPRETTY_DUMP[5.009004]p
PERL_PVPRETTY_ELLIPSES[5.010000]p
PERL_PVPRETTY_LTGT[5.009004]p
PERL_PVPRETTY_NOCLEAR[5.010000]p
PERL_PVPRETTY_QUOTE[5.009004]p
PERL_PVPRETTY_REGPROP[5.009004]p
PERL_QUAD_MAX[5.004000]p
PERL_QUAD_MIN[5.004000]p
PERL_REVISION[5.006000]p
PERL_SCAN_ALLOW_UNDERSCORES[5.007003]p
PERL_SCAN_DISALLOW_PREFIX[5.007003]p
PERL_SCAN_GREATER_THAN_UV_MAX[5.007003]p
PERL_SCAN_SILENT_ILLDIGIT[5.008001]p
PERL_SHORT_MAX[5.004000]p
PERL_SHORT_MIN[5.004000]p
PERL_SIGNALS_UNSAFE_FLAG[5.008001]p
PERL_SUBVERSION[5.006000]p
PERL_SYS_INIT3[5.006000]p
PERL_SYS_INIT[5.006000]p
PERL_SYS_TERM[5.011005]p
PERL_UCHAR_MAX[5.004000]p
PERL_UCHAR_MIN[5.004000]p
PERL_UINT_MAX[5.004000]p
PERL_UINT_MIN[5.004000]p
PERL_ULONG_MAX[5.004000]p
PERL_ULONG_MIN[5.004000]p
PERL_UNUSED_ARG[5.009003]p
PERL_UNUSED_CONTEXT[5.009004]p
PERL_UNUSEDDECL[5.007002]p
PERL_UNUSED_VAR[5.007002]p
PERL_UQUAD_MAX[5.004000]p
PERL_UQUAD_MIN[5.004000]p
PERL_USE_GCC_BRACE_GROUPS[5.009004]p
PERL_USHORT_MAX[5.004000]p
PERL_USHORT_MIN[5.004000]p
PERL_VERSION[5.006000]p
PL_DBsignal[5.005000]p
PL_DBsingle[5.005000]p
PL_DBsub[5.005000]p
PL_DBtrace[5.005000]p
PL_Sv[5.005000]p
PL_bufend[5.011004]p
PL_bufptr[5.011004]p
PL_compling[5.004050]p
PL_copline[5.011004]p
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08

POPbtxt
POPbpx
POPP
POPs
PTR2IV
PTR2NV
PTR2UV
PTR2nat
PTR2ul
PTRV
PUSHMARK
PUSH_MULTICALL
PUSHi
PUSHmortal
PUSHn
PUSHp
PUSHs
PUSHu
PUTBACK
PerlIO_clearerr
PerlIO_close
PerlIO_context_layers
PerlIO_eof
PerlIO_error
PerlIO_filenos
PerlIO_fill
PerlIO_flush
PerlIO_get_base
PerlIO_get_base
PerlIO_get_bufsiz
PerlIO_get_cnt
PerlIO_get_ptr
PerlIO_read
PerlIO_seek
PerlIO_set_cnt
PerlIO_set_ptrcnt
PerlIO_setlinebuf
PerlIO_stderr
PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread
PerlIO_write
Perl_signbit
PoisonFree
PoisonNew
PoisonWith
Poison
RETVAL
SvSetMagicSV_nosteal: 5.004000
SvSetMagicSV: 5.004000
SvSetSV_nosteal: 5.004000
SvSetSV: 
SvTAINTED_off: 5.004000
SvTAINTED_on: 5.004000
SvTAINTED: 5.004000
SvTAINT: 
SvTRUE: 
SvTYPE: 
SvUNLOCK: 5.007003
SvUOK: 5.007001, 5.006000
SvUPGRADE: 
SvUTF8_off: 5.006000
SvUTF8_on: 5.006000
SvUTF8: 5.006000
SvUVXx: 5.004000
SvUVX: 5.004000
SvUVX_norig: 5.009001
SvUVX_set: 5.009003
SvUVx: 5.004000
SvUV: 5.004000
SvVOK: 5.008001
SvVSTRING_mgr: 5.009004
THIS: 
UNDERBAR: 5.009002
UTF8_MAXBYTES: 5.009002
UVSIZE: 5.006000
UVTYPE: 5.006000
UVXf: 5.007001
UVof: 5.006000
UVuf: 5.006000
UVxf: 5.006000
WARN_ALL: 5.006000
WARN_AMBIGUOUS: 5.006000
WARN_ASSERTIONS: 5.011004
WARN_BAREWORD: 5.006000
WARN_CLOSED: 5.006000
WARN_CLOSURE: 5.006000
WARN_DEBUGGING: 5.006000
WARN_DEPRECATED: 5.006000
WARN_DIGIT: 5.006000
WARN_EXEC: 5.006000
WARN_EXITING: 5.006000
WARN_GLOB: 5.006000
WARN_INPLACE: 5.006000
WARN_INTERNAL: 5.006000
WARN_IO: 5.006000
av_create_and_push
av_create_and_unshift_one
av_delete
av_exists
av_extend
av_fetch
av_fill
av_iter_p
av_len
av_make
av_pop
av_push
av_reify
av_shift
av_store
av_unshift
av_store
ax
bad_type
bind_match
block_end
block_gimme
block_start
boolSV
boot_core_PerlIO
boot_core_UNIVERSAL
boot_core_mro
bytes_from_utf8
bytes_to_uni
bytes_to_utf8
call_argv
call_atexit
call_list
call_method
call_pv
call_sv
calloc
cando
cast_i32
cast_iv
cast_ulong
cast_uv
check_type_and_open
check_uni
checkcomma
checkposixcc
ckWARN
ck_anoncode
ck_bitop
ck_concat
ck_defined
ck_delete
ck_die
ck_each
ck_eof
ck_eval
ck_exec
ck_exists
ck_exit
ck_ftst
ck_fun
ck_glob
ck_grep
ck_index
ck_join
ck_ffun
ck_listio
ck_match
ck_method
ck_null
ck_open
ck_readline
ck_repeat
ck_require
ck_return
ck_rfun
ck_rvconst
ck_sassign
ck_select
ck_shift
ck_sort
ck_spair
ck_split
ck_subr
ck_substr
ck_svconst
ck_trunc
ck_unpack
ck_warner_d
ck_warner
ckwarn_common
ckwarn_d
ckwarn
cl_and
cl_anything
cl_init_zero
cl_init|||n
cl_is_anything|||n
c1_or|||n
clear_placeholders||
closest_cop||
convert||
cop_free||
cr_textfilter||
create_eval_scope||
croak_nocontext||vn
croak_xs_usage|5.010001

croak||v
csighandler|5.009003|n
curmad||
custom_op_desc|5.007003|
custom_op_name|5.007003|
cv_ckproto_len||
cv_clone||
cv_const_sv|5.004000|
cv_dump||
cv_undef||
cx_dump|5.005000|
cx_dup||
cxinc||
dAXMARK|5.009003||p
dAX|5.007002||p
dITEMS|5.007002||p
dMARK||
dMULTICALL|5.009003|
dMY_CXT_SV|5.007003||p
dMY_CXT|5.007003||p
dNOOP|5.006000||p
dORIGMARK||
dSP||
dTHR|5.004050||p
dTHXR|5.011004||p
dTHXa|5.006000||p
dTHXoa|5.006000||p
dTHX|5.006000||p
dUNDERBAR|5.009002||p
dVAR|5.009003||p
dXCTP|5.009002||p
dXSARGS||
dXSI32||
dXSTAR|5.006000||p
deb_curcv||
deb_nocontext||vn
deb_stack_all||
init_perllib||
init_postdump_symbols||
init_predump_symbols||
init_stacks[5.005000]
init_tm[5.007002]
instr
intro_my
intuit_method
intuit_more
invert
io_close
isALNUMC[5.006000]p
isALNUM||
isALPHA||
isASCII[5.006000]p
isBLANK[5.006001]p
isCNTRL[5.006000]p
isDIGIT||
isGRAPH[5.006000]p
isGV_with_GP[5.009004]p
isLOWER||
isPRINT[5.004000]p
isPSXSPC[5.006001]p
isPUNCT[5.006000]p
isSPACE||
isUPPER||
isXDIGIT[5.006000]p
is_an_int
is_ascii_string[5.011000]n
is_gv_magical_sv
is_handle_constructor
is_inplace_av
is_list_assignment
is_lvalue_sub[5.007001]
is_uni_alnum_lc[5.006000]
is_uni_alnum[5.006000]
is_uni_alpha_lc[5.006000]
is_uni_alpha[5.006000]
is_uni_ascii_lc[5.006000]
is_uni_ascii[5.006000]
is_uni_cntrl_lc[5.006000]
is_uni_cntrl[5.006000]
is_uni_digit_lc[5.006000]
is_uni_digit[5.006000]
is_uni_graph_lc[5.006000]
is_uni_graph[5.006000]
is_uni_idfirst_lc[5.006000]
is_uni_idfirst[5.006000]
magic_dump||5.006000|
magic_existspack||
magic_freearylen_p||
magic_freeovrld||
magic_getarylen||
magic_getdefelem||
magic_getkeys||
magic_getpack||
magic_getpos||
magic_getsig||
magic_getsubstr||
magic_gettaint||
magic_getuvar||
magic_getvec||
magic_get||
magic_killbackrefs||
magic_len||
magic_methcall||
magic_methpack||
magic_nextpack||
magic_regdata_cnt||
magic_regdatum_get||
magic_regdatum_set||
magic_scalarpack||
magic_set_all_env||
magic_setamagic||
magic_setarylen||
magic_setcollxfrm||
magic_setdbline||
magic_setdefelem||
magic_setenv||
magic_sethint||
magic_setisa||
magic_setmglob||
magic_setnkeys||
magic_setpack||
magic_setpos||
magic_setregexp||
magic_setsig||
magic_setsubstr||
magic_settaint||
magic_setutf8||
magic_setuvar||
magic_setvec||
magic_set||
magic_sizepack||
magic_wipepack||
make_matcher||
mro_set_private_data||5.010001|
mul128]]]]
mulexp10]]]]n
my_atof2||5.007002|
my_atof]]5.006000|
my_atrs]]]]
my_bcopy]]]]n
my_betoh16]]]]n
my_betoh32]]]]n
my_betoh64]]]]n
my_betohi]]]]n
my_betohl]]]]n
my_betohs]]]]n
my_bzero]]]]n
my_chsize]]]]
my_clearenv]]]]
my_ctx_index]]]]
my_ctx_init]]]]
my_dirfd]]5.009005|
my_exit_jump]]]]
my_exit]]]]
my_failure_exit]]5.004000|
my_fflush_all]]5.006000|
my_fork]]5.007003]n
my_htobe16]]]]n
my_htobe32]]]]n
my_htobe64]]]]n
my_htobei]]]]n
my_htobell]]]]n
my_htobes]]]]n
my_htole16]]]]n
my_htole32]]]]n
my_htole64]]]]n
my_htolei]]]]n
my_htolell]]]]n
my_htoles]]]]n
my_htonl]]]]
my_kid]]]]
my_letoh16]]]]n
my_letoh32]]]]n
my_letoh64]]]]n
my_letohi]]]]n
my_letohl]]]]n
my_letohes]]]]n
my_htonl]]]]
pad_fixup_inner_anons
pad_free
pad_leavemy
pad_new
pad_peg
pad_push
pad_reset
pad_setsv
pad_svl
pad_swipe
pad_tidy
pad.Undef
parse_body
parse_unicode_opts
parser_dup
parser_free
path_is_absolute
peep
pending_Slabs_to_ro
perl_alloc_using
perl_alloc
perl_clone_using
perl_clone
perl_construct
perl_destruct[5.007003]
perl_free
perl_parse[5.006000]
perl_run
pidgone
pm_description
pmflag
pmop_dump[5.006000]
pmop_xmlmdump
pmruntime
pmtrans
pop_scope
pregcomp[5.009005]
pregexec
pregfree2[5.011000]
pregfree
prepend_elem
prepend_madprops
prescan_version[5.011004]
printbuf
printf_nocontext
process_special_blocks
ptr_table_clear[5.009005]
ptr_table_fetch[5.009005]
run_user_filter
runops_debug[5.005000]
runops_standard[5.005000]
rvpv_dup
rxres_free
rxres_restore
rxres_save
safesyscalloc[5.006000]
safesysfree[5.006000]
safesysmalloc[5.006000]
safesysrealloc[5.006000]
same_dirent
save_116[5.004000]
save_132
save_18[5.006000]
save_adelete[5.011000]
save_aelem_flags[5.011000]
save_aelem[5.004050]
save_alloc[5.006000]
save_aptr
save_ary
save_bool[5.008001]
save_clearsv
save_delete
save Destructor_x[5.006000]
save Destructor[5.006000]
save_frep|p
save_frepv
save_freesv
save_generic_pvref[5.006001]
save_generic_svref[5.005030]
save_gpv[5.004000]
save_hash
save_hdelete[5.011000]
save_hek_flags
save_hecem_flags[5.011000]
save_helem[5.004050]
save_hints
save_hptr
save_int
save_item
save_iv[5.005000]
save_lines
save_list
save_long
save_magic
save_mortalizesv[5.007001]
save_nogv
save_op|||
save_padsv_and_mortalize||5.010001
save_pptr|||
save_pushi32ptr|||
save_pushptri32ptr|||
save_pushptrptr|||
save_pushptr||5.010001
save_re_context||5.006000
save_scalar_at|||
save_scalar|||
save_set_svflags||5.009000
save_shared_pvref||5.007003
save_sptr|||
save_svref|||
save_vptr||5.006000
savepvn|||
savepvvs||5.009003
savepv|||
savesharedpvn||5.009005
savesharedpv||5.007003
savestack_grow_cnt||5.008001
savestack_grow|||
savestack_pvvpv||5.009002
sawparents|||
scalar_mod_type||n
scalarboolean|||
scalarkids|||
scalarseq|||
scalarcvoid|||
scalar|||
scan_bin||5.006000
scan_commit|||
scan_const|||
scan_formline|||
scan_heredoc|||
scan_hex|||
scan_ident|||
scan_inputsymbol|||
scan_num||5.007001
scan_oct|||
scan_pat|||
scan_str|||
scan_subst|||
scan_trans|||
scan_version||5.009001
scan_vstring||5.009005
scan_word|||
scope|||
screaminstr|5.005000|
search_const||
seed|5.008001|
sequence_num||
sequence_tail||
sequence||
set_context|5.006000|
set_numeric_local|5.006000|
set_numeric_radix|5.006000|
set_numeric_standard|5.006000|
setdefout||
share_hek_flags||
share_hek|5.004000|
si_dup||
sighandler||
simplify_sort||
skipspace0||
skipspace1||
skipspace2||
skipspace||
sortref2xv||
sortcv_stacked||
sortcv_xsub||
sortcv||
sortsv_flags|5.009003|
sortsv|5.0070003|
space_join_names_mortal||
ss_dup||
stack_grow||
start_force||
start_glob||
start_subparse|5.004000|
stashpv_hvname_match|5.011005|
stdize_locale||
store_cop_label||
strEQ||
strGE||
strGT||
strLE||
strLT||
strNE||
str_to_version|5.006000|
strip_returns||
strnEQ||
strnNE||
study_chunk||
sub_crush_depth||
sublex_done||
sublex_push||
sublex_start||
sv_2bool||
sv_2cv||
sv_2io||
sv_2iuv_common||
sv_2iuv_non_preserve||
sv_2iv_flags||5.009001
sv_2iv||
sv_2mortal||
sv_2num||
sv_2nv||
sv_2pv_flags||5.007002||p
sv_2pv_nolen||5.006000||p
sv_2pvbyte_nolen||5.006000||p
sv_2pvbyte||5.006000||p
sv_2pvutf8_nolen||5.006000
sv_2pvutf8||5.006000
sv_2pv||
sv_2uv_flags||5.009001
sv_2uv||5.004000||p
sv_add_arena||
sv_add_backref||
sv_backoff||
sv_bless||
sv_cat_decode||5.008001
sv_catpv_mg||5.004050||p
sv_catpvf_mg_nocontext|||pvn
sv_catpvf_mg||5.006000||5.004000|pv
sv_catpvf_nocontext|||vn
sv_catpvf||5.004000|v
sv_catpvn_flags||5.007002
sv_catpvn_mg||5.004050||p
sv_catpvn_nomg||5.007002||p
sv_catpvn||
sv_catpvsvs||5.009003||p
sv_catpvv||
sv_catsv_flags||5.007002
sv_catsv_mg||5.004050||p
sv_catsv_nomg||5.007002||p
sv_catsv||
sv_catxmlpvn||
sv_catxmlsv||
sv_chop||
sv_clean_all||
sv_clean_objs||
sv_clear||
sv_cmp_locale||5.004000|
sv_cmp
sv_collxfrm
sv_compile_2op
sv_copypv
sv_dec
sv_del_backref
sv_derived_from
sv_destroyable
sv_does
sv_dump
sv_dup_inc_multiple
sv_dup
sv_eq
sv_exp_grow
sv_force_normal_flags
sv_force_normal
sv_free2
sv_free_arenas
sv_free
sv_gets
sv_grow
sv_i_ncmp
sv_inc
sv_insert_flags
sv_insert
sv_isa
sv_isobject
sv_iv
sv_kill_backrefs
sv_len_utf8
sv_len
sv_magic_portable
sv_magicext
sv_magic
sv_mortalcopy
sv_ncmp
sv_newmortal
sv_newref
sv_nolocking
sv_nosharing
sv_nounlocking
sv_nv
sv_peek
sv_pos_b2u_midway
sv_pos_b2u
sv_pos_u2b_cached
sv_pos_u2b_flags
sv_pos_u2b_forwards
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }
    print "list
       ...
    "
    exit;
}

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }
    print "list
        ...
    "
    exit;
}

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }
    print "list
        ...
    "
    exit;
}

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }
    print "list
        ...
    "
    exit;
}

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }
    print "list
        ...
    "
    exit;
}
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25722


my $base = format_version($API{$f}{base} || $API{$f}{todo}) || $info++; 
}
if ($API{$f}{provided}) {
  my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
  print "Support by $ppport provided back to perl-$todo.
";
  $info++;
} 
Scount or print "Found no API matching 'opt{api-info}'.";
exit 0;
} 

if (exists $opt{'list-provided'}) { 
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) { 
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend' if exists $depends{$f};
  push @flags, 'hint' if exists $hints{$f};
  push @flags, 'warning' if exists $warnings{$f};
  my $flags = @flags ? " [" .join(',', @flags). "]" : "
;
  print "$f$flags
";
} 
exit 0;
} 

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) { 
my %seen;
for (@ARGV) {
  if (-e) 
    push @files, $_ unless $seen{$_}++; 
  else { warn "$_ is not a file.
" }
}
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25725


my $c = do { local $/; <IN> }; close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
  ( ^$HS*\$HS*include\b[^\r\n]+\b(?:Q\$ppportE|XS\$$/h)\b[^\r\n]*
  | ^$HS*\$HS*(?:define|elif|if(?:def)?)\b[^\r\n]*
  | ( ^ $HS*[^\r\n]*
  | "[^\n]*"(?:[^\n]*)""
  | "[^\n]*"
  | / (?: \*[^\*]+\*+(?:[^$ccs]\[^\*]+\*+)* / | /[\^\r\n]* )
} { defined $2 and push @ccom, $2; defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = @@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include\b[^\r\n]+\bQ\$ppportE\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /(?:Perl_)?($match)\b/) {
    $file{uses_replace}->{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}->{$func}++ if $c =~ /AbPerl$_func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}->{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version})
        my @deps = rec_depend($func);
      if (@deps) {
        $file{uses_deps}->{$func} = @@deps;
        for (@deps) {
          $file{uses}->{$1} = 0 unless exists $file{uses}->{$1};
        }
      }
      for ($func, @deps) {
        $file{needs}->{$1} = 'static' if exists $need->{$1};
      }
    }
  } if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}){
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25727


my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func} {varargs}) {
        unless ($API{$func} {nothxarg}) {
            my $changes = ($c =~ s{\b(Perl_$func\$*\(\$*)(?!aTHX_\?)([^\$]*\$*)\)}}
                { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' ) . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    } else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\$*\(\$*\(aTHX_\?)(?!aTHX_\?)([^\$]*\$*)\)}}
            { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' ) . $2 }ge);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s{\b$func\$*\(\$*\(aTHX_\?)(?!aTHX_\?)([^\$]*\$*)\)}}
        { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' ) . $2 }ge);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses} {$func}) {
        if (exists $file{uses_deps} {$func}) {
            diag("Uses $func, which depends on ", join(’, ’, @{$file{uses_deps} {$func}}));
        } else {
            diag("Uses $func");
        }
        $warnings += hint($func);
    }
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print *** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func} {todo}), ", even with 'sppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses} {$func}) {
       
$message = "No need to define NEED_$func if $func is never used";
} elsif (exists $file{needs}{'$func'} && $file{needs}{'$func'} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
} if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
} }

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{'$func'}) {
        $message = "No need to define NEED_S{$func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{'$func'}) {
        if ($file{needs}{'$func'} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{'$func'} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{'$func'};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{'$func'}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{'$func'}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = ";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include 'ppport'");
    $pp = qq(#include "ppport"
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/\1$pp/ms)
        || ($c =~ s/^($HS*#$HS*include.*\Qppport\E)/$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB_\w+.*?)/\1$pp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include 'ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Qppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : "
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : "
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");
if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(
                ^PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(
                ^STDOUT, $filename, $c);
        }
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
} else {
    info("Looks good");
}
close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_; 
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
  }

  print F $diff;
}

sub run_diff
{
  my($prog, $file, $str) = @_; 
  my $tmp = 'dppptemp';
  my $suf = 'aaa';
my $diff = "";
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/\Q$tmp\E/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }
    unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;

sub rec_depend {
    my($func, $seen) = @_;
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^\d+\.(\d+).\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]*/) {
        die "cannot parse version '$ver'\n";
    }
my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version $ver\n";
    }
}

return ($r, $v, $s);

sub format_version {
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version $ver\n";
        }
        $s /= 10;
    }
    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "._%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info {
    $opt{quiet} and return;
    print @_, "\n";
}
}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25735


Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> démarch };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*\^..?\^=\w+/ms;$
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/\^\w+\w+Do NOT edit.*?=\w+$/$copy/ms;
    $self =~ s/\^\w+\w+\w+/\w+\w+\w+\w+\w+\w+/gms;
    if (\@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort
            && $ENV{__DATA__} eq '))->strip

        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{\s+/ (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[\^'`\[\]]*\| | ([\^\w]*)* }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+!#!g;
$c =~ s!^\s*#!#!g;
$c =~ s!^\s*#!#!g;
open OUT, "$0" or die "cannot strip $0: "$!";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);

# and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
enough to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR REFERENCES

The following functions all perform some useful activity on reference values.
my $pkg = blessed($ref);

If C<$ref> is a blessed reference, the name of the package that it is blessed into is returned. Otherwise C<undef> is returned.

scalar = "foo";
class = blessed scalar; # undef

ref = [];
class = blessed ref; # undef

$obj = bless [], "Foo";
class = blessed $obj; # "Foo"

Take care when using this function simply as a truth test (such as in C<if(blessed $ref)...>) because the package name C"0" is defined yet false.

=head2 refaddr

my $addr = refaddr($ref);

If C<$ref> is reference, the internal memory address of the referenced value is returned as a plain integer. Otherwise C<undef> is returned.

addr = refaddr "string"; # undef
addr = refaddr $var; # eg 12345678
addr = refaddr []; # eg 23456784

$obj = bless [], "Foo";
addr = refaddr $obj; # eg 88123488

=head2 reftype

my $type = reftype($ref);

If C<$ref> is a reference, the basic Perl type of the variable referenced is returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef> is returned.

$type = reftype "string"; # undef
$type = reftype $var; # SCALAR
$type = reftype []; # ARRAY

$obj = bless [], "Foo";
$type = reftype $obj; # HASH

=head2 weaken
weaken( $ref );

The lvalue C<$ref> will be turned into a weak reference. This means that it will not hold a reference count on the object it references. Also, when the reference count on that object reaches zero, the reference will be set to undef. This function mutates the lvalue passed as its argument and returns no value.

This is useful for keeping copies of references, but you don't want to prevent the object being DESTROY-ed at its usual time.

```perl
{
    my $var;
    $ref = \$var;
    weaken($ref);               # Make $ref a weak reference
}
# $ref is now undef
```

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

```perl
my $var;
my $foo = \$var;
weaken($foo);                        # Make $foo a weak reference
my $bar = $foo;                      # $bar is now a strong reference
```

This may be less obvious in other situations, such as C<grep()>, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

```perl
@object = grep { defined } @object;
```

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=head2 unweaken

unweaken( $ref );

I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back into a normal (strong) reference again. This function mutates the lvalue passed as its argument and returns no value. This undoes the action performed by L</weaken>. 


This function is slightly neater and more convenient than the otherwise-equivalent code

    my $tmp = $REF;
    undef $REF;
    $REF = $tmp;

(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; `C<$REF = $REF>` does not work).

=head2 isweak

my $weak = isweak( $ref );

Returns true if `C<$ref>` is a weak reference.

    $ref = \$foo;
    $weak = isweak($ref);  # false
    weaken($ref);
    $weak = isweak($ref);  # true

=begin

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

    $copy = $ref;
    $weak = isweak($copy);  # false

=end

=head1 OTHER FUNCTIONS

=head2 dualvar

my $var = dualvar( $num, $string );

Returns a scalar that has the value `C<$num>` in a numeric context and the value `C<$string>` in a string context.

    $foo = dualvar 10, "Hello";
    $num = $foo + 2;  # 12
    $str = $foo . " world";  # Hello world

=head2 isdual

my $dual = isdual( $var );


If `C<$var>` is a scalar that has both numeric and string values, the result is true.
$foo = dualvar 86, "Nix";
$dual = isdual($foo);    # true

Note that a scalar can be made to have both string and numeric content through numeric operations:

$foo = "10";
$dual = isdual($foo);    # false
$bar = $foo + 0;
$dual = isdual($foo);    # true

Note that although C<$!> appears to be a dual-valued variable, it is actually implemented as a magical variable inside the interpreter:

$! = 1;
print("$!n");            # "Operation not permitted"
$dual = isdual($!);       # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dual = isdual($err);    # true

=head2 isvstring

my $vstring = isvstring( $var );

If C<$var> is a scalar which was coded as a vstring, the result is true.

$vs  = v49.46.48;
$fmt = isvstring($vs) ? "%vd" : "%s";  #true
printf($fmt,$vs);

=head2 looks_like_number

my $isnum = looks_like_number( $var );

Returns true if perl thinks C<$var> is a number. See L<perlapi/looks_like_number>.

=head2 openhandle

my $fh = openhandle( $fh );

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);  #\*STDIN
$fh = openhandle(\*STDIN); # \*STDIN
$fh = openhandle("NOTOPEN"); # undef
$fh = openhandle("scalar"); # undef

=head2 readonly

my $ro = readonly( $var );

Returns true if C<$var> is readonly.

sub foo { readonly($_[0]) } }

$readonly = foo($bar); # false
$readonly = foo(0); # true

=head2 set_prototype

my $code = set_prototype( $code, $prototype );

Sets the prototype of the function given by the C<$code> reference, or deletes it if C<$prototype> is C<undef>. Returns the C<$code> reference itself.

set_prototype \&foo, '$$';

=head2 tainted

my $t = tainted( $var );

Return true if C<$var> is tainted.

$taint = tainted("constant"); # false
$taint = tainted($ENV{PWD}); # true if running under -T

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to use L</isweak> or L</weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use L</isvstring> you will need to use a newer release of perl.
KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

SEE ALSO

L<List::Util>

COPYRIGHT

Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Additionally L</weaken> and L</isweak> which are

Copyright (c) 1999 Tuomas J. Lukka <lukka@iki.fi>. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as perl itself.

Copyright (C) 2004, 2008 Matthijs van Duin. All rights reserved. Copyright (C) 2014 cPanel Inc. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2014 Paul Evans <leonerd@leonerd.org.uk>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: 'Common Scalar and List utility subroutines'
author:
  - 'Graham Barr <gbarr@cpan.org>'
buildRequires:
  ExtUtils::MakeMaker: '0'
configureRequires:
  ExtUtils::MakeMaker: '0'
dynamicConfig: 0
generatedBy: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Scalar-List-Utils
noIndex:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  perl: '5.006'
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils.git
  version: '1.49'
xSerializationBackend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

No license file was found, but licenses were detected in source scan.

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

    perl Makefile.PL
    make
    make test
    make install

KNOWN BUGS
There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

Copyright (c) 1997-2006 Graham Barr <gbarr@pobox.com>. All rights reserved.
This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):

1.555 builder 3.2.4
1.555.1 Available under license:
Copyright (c) 2003-2012 Jim Weirich (jim.weirich@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.556 sos 4.0-11.el8
1.556.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.557 rinetd 0.62-27.fc31

1.557.1 Available under license:

Found license 'General Public License 2.0' in 'This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2, or (at your option) any later version. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation.'

Found license 'General Public License 2.0' in 'the terms of the GNU General Public License, version 2 or later.'

Found license 'General Public License 2.0' in 'the GNU General Public License, version 2 or higher. the GNU General Public License, version 2 or higher.'

1.558 valgrind 3.16.0-4.el8

1.558.1 Available under license:

This directory and its children contain LibVEX, a library for dynamic binary instrumentation and translation.

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, see <http://www.gnu.org/licenses/>.

The GNU General Public License is contained in the file LICENSE.GPL.

If you want to contribute code to LibVEX, please ensure it is licensed as "GPL v2 or later".

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU Free Documentation License
Version 1.2, November 2002

Copyright (C) 2000,2001,2002 Free Software Foundation, Inc.
0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject
(or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, TeXinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in
formats which do not have any title page as such, "Title Page" means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

A section "Entitled XYZ" means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title"
of such a section when you modify the Document means that it remains a
section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.
You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.
You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION
You may not copy, modify, sublicense, or distribute the Document except
as expressly provided for under this License. Any other attempt to
copy, modify, sublicense or distribute the Document is void, and will
automatically terminate your rights under this License. However,
parties who have received copies, or rights, from you under this
License will not have their licenses terminated so long as such
parties remain in full compliance.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License “or any later version” applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.2
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
A copy of the license is included in the section entitled “GNU
Free Documentation License”.

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the
Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.
If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

1.559 dosfs-tools 4.1-6.el8

1.559.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.
No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means.
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.
The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

---

**1.560 libpcap 1.9.1-5.el8**

**1.560.1 Available under license :**

License: BSD

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

---

**1.561 python-pyudev 0.21.0 7.el8**

**1.561.1 Available under license :**

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
Open Source Used In Kenna Virtual Tunnel and Agent 2021.08  25784

51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.562 libconfig 1.5 9.el8

1.562.1 Available under license:

This package was debianized by Jose Luis Tallon <jltallon@adv-solutions.net> on Tue, 10 Oct 2006 01:42:09 +0200.

It was downloaded from http://www.hyperrealm.com/libconfig

Upstream Author: Mark A Lindner
Mark Lindner - Lead developer & maintainer.
Daniel Marjamki - Enhancements & bugfixes.
Andrew Tytula - Windows Port.
Glenn Herteg - Enhancements, bugfixes, documentation corrections.

Copyright:Copyright (C) 2005-2009 Mark A Lindner

License:(LGPL-2.1)

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
On Debian systems, the full text of GNU’s Lesser General Public License can be found at `/usr/share/common-licenses/LGPL-2.1

The Debian packaging is (C) 2006-2008, Jose Luis Tallon <jltallon@adv-solutions.net> and is licensed under the GPL, see `/usr/share/common-licenses/GPL'.
This package was debianized by Klaus Schneider <kschn@users.sourceforge.net> on Mon, 25 Jun 2007 16:21:56 +0200.

It was downloaded from http://www.hyperrealm.com/libconfig/libconfig.html

Upstream Author: Mark A. Lindner

Copyright: (c) 2005-2009 Mark A. Lindner

License:

This package is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This package is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this package; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

On Debian systems, the complete text of the GNU Lesser General Public License can be found in `/usr/share/common-licenses/LGPL'.

The Debian packaging is (C) 2007, Klaus Schneider <kschn@users.sourceforge.net> and is licensed under the GPL, see `/usr/share/common-licenses/GPL'.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ”work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ”work that uses the Library” with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
@c \input texinfo.tex   @c -*-texinfo-*- 
@c
@c %**start of header 
@c
@c All text is ignored before the setfilename.
@c setfilename LGPL.info 
@c
@ccenter GNU LESSER GENERAL PUBLIC LICENSE 
@ccenter Version 2.1, February 1999 
@c
@csp 1 

Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@csp 1 
@ccenter Preamble 
@csp 1 

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are
intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the ”Lesser” General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ”work based on the library” and a ”work that uses the library”. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executable.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License: they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices
that refer to this License and to the absence of any warranty; and
distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it,
thus forming a work based on the Library, and copy and distribute such
modifications or work under the terms of Section 1 above, provided that
you also meet all of these conditions:

@enumerate a

@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating
that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all
third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of
data to be supplied by an application program that uses the facility,
other than as an argument passed when the facility is invoked, then you
must make a good faith effort to ensure that, in the event an
application does not supply such function or table, the facility still
operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a
purpose that is entirely well-defined independent of the application.
Therefore, Subsection 2d requires that any application-supplied function
or table used by this function must be optional: if the application does
not supply it, the square root function must still compute square
roots.)

@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library, and
can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@sp 1
@item
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@sp 1
@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the
source code, even though third parties are not compelled to copy the source along with the object code.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a

@sp 1
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@sp 1
@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@sp 1
@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@sp 1
@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@sp 1
@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that
choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

@sp 1
@item
If the distribution and/or use of the Library is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Library under this License may add an
explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

@sp 1
@item
The Free Software Foundation may publish revised and/or new versions of
the Lesser General Public License from time to time. Such new versions
will be similar in spirit to the present version, but may differ in
detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and “any
later version”, you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a license
version number, you may choose any version ever published by the Free
Software Foundation.

@sp 1
@item
If you wish to incorporate parts of the Library into other free programs
whose distribution conditions are incompatible with these, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

@sp 1
@center NO WARRANTY
@sp 1

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.563 webrick 1.4.2.1
1.563.1 Available under license:
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2003 GOTOU Yuuzou All rights reserved.

Found in path(s):
* /opt/cola/permits/1192561770_1631929867.78/0/webrick-1-4-2-gem/data-tar-gz/lib/webrick/ssl.rb
1.564 pciutils 3.7.0-1.el8

1.564.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.565 desktop-file-utils 0.23-8.el8

1.565.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.566 openssl 1.1.1g-15.el8_3
1.566.1 Available under license:

LICENSE ISSUES
==============

The OpenSSL toolkit stays under a double license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts.

OpenSSL License
---------------

/ *===================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project. All rights reserved.
 * 
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 * 
 * 3. All advertising materials mentioning features or use of this
 * software must display the following acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
* endorse or promote products derived from this software without
* prior written permission. For written permission, please contact
* openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
* nor may "OpenSSL" appear in their names without prior written
* permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
* acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit (http://www.openssl.org/)
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License

--------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* Ihash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* "This product includes cryptographic software written by
* Eric Young (eay@cryptsoft.com)"
* The word 'cryptographic' can be left out if the rouines from the library
* being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
* the apps directory (application code) you must include an acknowledgement:
* "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
departies remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you
duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within
an executable of yours (by linking); this shall be construed as a mere
form of aggregation, provided that the complete Standard Version of the
interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as
output from the programs of this Package do not automatically fall
under the copyright of this Package, but belong to whoever generated
them, and may be sold commercially, and may be aggregated with this
Package. If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a
binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
fall under the restrictions of Paragraphs 3 and 4, provided that you do
not represent such an executable image as a Standard Version of this
Package.

7. C subroutines (or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.567 dnf-plugins-core 4.0.18-4.el8
1.567.1 Available under license :
          GNU GENERAL PUBLIC LICENSE
          Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.568 gpgme 1.13.1-7.el8

1.568.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them at the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

1.569 chrony 3.5-2.el8
1.569.1 Available under license :

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

**GNU GENERAL PUBLIC LICENSE**
**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
1.570 fiddle 1.0.9.gem.data

1.570.1 Available under license:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.571 cronie 1.5.2 4.el8

1.571.1 Available under license:

/*
 * Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
 * Copyright (c) 1997,2000 by Internet Software Consortium, Inc.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */
/*
* Copyright (c) 1988, 1993, 1994
* The Regents of the University of California. All rights reserved.
* 
* This code is derived from software written by Ken Arnold and
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* 
*/*
/
* Copyright (c) 1989, 1993
* The Regents of the University of California. All rights reserved.
* 
* This code is derived from software contributed to Berkeley by
* Paul Vixie.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
*@(#)bitstring.h8.1 (Berkeley) 7/19/93
*/

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.572 gd 2.2.5-7.el8

1.572.1 Available under license:

Credits and license terms:

In order to resolve any possible confusion regarding the authorship of gd, the following copyright statement covers all of the authors who have required such a statement. If you are aware of any oversights in this copyright notice, please contact Pierre-A. Joye who will be pleased to correct them.


* Portions relating to GIF compression copyright 1989 by Jef Poskanzer and David Rowley, with modifications for thread safety by Thomas Boutell.


* Portions relating to GIF animations copyright 2004 Jaakko Hyvätättä (jaakko.hyvatti@iki.fi)

Permission has been granted to copy, distribute and modify gd in any context without fee, including a commercial application, provided that this notice is present in user-accessible supporting documentation.

This does not affect your ownership of the derived work itself, and the intent is to assure proper credit for the authors of gd, not to interfere with your productive use of gd. If you have questions, ask. "Derived works" includes all programs that utilize the library. Credit must be given in user-accessible documentation.

This software is provided "AS IS." The copyright holders disclaim all warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to this code and accompanying documentation.

Although their code does not appear in the current release, the authors wish to thank David Koblas, David Rowley, and Hutchison Avenue Software Corporation for their prior contributions.
Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Frederic Lepied not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. Frederic Lepied makes no
representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

FREDERIC LEPIED DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL FREDERIC LEPIED BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1985, 1989, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

Copyright (c) 1994, 2008, Oracle and/or its affiliates. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a

copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright 1988, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

Copyright 1996-1997 by Frederic Lepied, France. <Frederic.Lepied@sugix.frmug.org>

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of the authors not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. The authors make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THE AUTHORS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2007 Peter Hutterer
Copyright 2009 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

COPYRIGHT 1987, 1991
DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MASSACHUSETTS
ALL RIGHTS RESERVED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION. DIGITAL MAKES NO REPRESENTATIONS ABOUT THE SUITABILITY OF THIS SOFTWARE FOR ANY PURPOSE. IT IS SUPPLIED "AS IS" WITHOUT EXPRESS OR IMPLIED WARRANTY.
IF THE SOFTWARE IS MODIFIED IN A MANNER CREATING DERIVATIVE COPYRIGHT RIGHTS, APPROPRIATE LEGENDS MAY BE PLACED ON THE DERIVATIVE WORK IN ADDITION TO THAT SET FORTH ABOVE.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

----------------------------------------------------------------

Copyright 1991, 1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.  
Copyright 1989, 1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group. Copyright (c) 1987, 2010, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 1988, 1989, 1990, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.
Copyright 1990, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright (c) 2005, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 1987, 1988, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright 2001 Keith Packard, member of The XFree86 Project, Inc.

Copyright 2002 Hewlett Packard Company, Inc.

Copyright 2006 Intel Corporation

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the copyright holders not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. The copyright holders make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THE COPYRIGHT HOLDERS DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1985, 1988, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.
Copyright 1999 by The XFree86 Project, Inc.
All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE XFREE86 PROJECT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Except as contained in this notice, the name of The XFree86 Project shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The XFree86 Project.

------------------------------------------------------------------------

Copyright 2005 Red Hat, Inc.

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Red Hat not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Red Hat makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

RED HAT DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL RED HAT BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1989, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright 1987, 1988, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

Copyright 1987, 1988 by Digital Equipment Corporation, Maynard, Massachusetts.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Digital not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2004, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

X Window System is a trademark of The Open Group.

1.574 perl 5.26.3-419.el8_4.1
1.574.1 Available under license:

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you’re thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or
an equivalent medium, or placing the modifications on a major archive
site such as uunet.uu.net, or by allowing the Copyright Holder to include
your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict
with standard executables, which must also be provided, and provide
a separate manual page for each non-standard executable that clearly
documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or
executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files,
together with instructions (in the manual page or equivalent) on where
to get the Standard Version.

b) accompany the distribution with the machine-readable source of
the Package with your modifications.

c) give non-standard executables non-standard names, and clearly
document the differences in manual pages (or equivalent), together
with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package. You may charge any fee you choose for support of this
Package. You may not charge a fee for this Package itself. However,
you may distribute this Package in aggregate with other (possibly
commercial) programs as part of a larger (possibly commercial) software
distribution provided that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within
an executable of yours (by linking); this shall be construed as a mere
form of aggregation, provided that the complete Standard Version of the
interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as
output from the programs of this Package do not automatically fall
under the copyright of this Package, but belong to whoever generated
them, and may be sold commercially, and may be aggregated with this
Package. If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a
binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.575 tcp-dump 4.9.3-1.el8

1.575.1 Available under license:

License: BSD

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
1.576 libtasn 4.13 3.el8

1.576.1 Available under license:

@c The GNU Free Documentation License.
@c center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS
This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties; any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

- List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

- State on the Title page the name of the publisher of the Modified Version, as the publisher.

- Preserve all the copyright notices of the Document.

- Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

- Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

- Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

- Include an unaltered copy of this License.
@item
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.
You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item
COLLECTIONS OF DOCUMENTS
You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", 

Dedications”, or ”History”, the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ”or any later version” applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (C) @var{year} @var{name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled “GNU Free Documentation License”.

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with@dots{}Texts." line with this:

```@smallexample
@gROUP
  with the Invariant Sections being @VAR{list their titles}, with
  the Front-Cover Texts being @VAR{list}, and with the Back-Cover Texts
  being @VAR{list}.
@end GROUP
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.
For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.
When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or
e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.


If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see
1.577 git 2.27.0-1.el8

1.577.1 Available under license:

Copyright (C) 2010 David Barr <david.barr@cordelta.com>. All rights reserved.

Copyright (C) 2010 Jonathan Nieder <jrnieder@gmail.com>.

Copyright (C) 2005 Stefan Hegny, hydrografix Consulting GmbH, Frankfurt/Main, Germany and others, see http://svn2cc.sarovar.org

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice(s), this list of conditions and the following disclaimer
   unmodified other than the allowable addition of one or more copyright notices.
2. Redistributions in binary form must reproduce the above copyright notice(s), this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

MIT License

Copyright (c) 2017:
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Note that the only valid version of the GPL as far as this project is concerned is _this_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

HOWEVER, in order to allow a migration to GPLv3 if that seems like a good idea, I also ask that people involved with the project make their preferences known. In particular, if you trust me to make that decision, you might note so in your copyright message, ie something like

This file is licensed under the GPL v2, or a later version at the discretion of Linus.

might avoid issues. But we can also just decide to synchronize and contact all copyright holders on record if/when the occasion arises.

Linus Torvalds

________________________________________
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete...
machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Note that the only valid version of the GPL as far as this project is concerned is _this_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

HOWEVER, in order to allow a migration to GPLv3 if that seems like a good idea, I also ask that people involved with the project make their preferences known. In particular, if you trust me to make that decision, you might note so in your copyright message, ie something like

This file is licensed under the GPL v2, or a later version at the discretion of Linus.

might avoid issues. But we can also just decide to synchronize and contact all copyright holders on record if/when the occasion arises.

Linus Torvalds

----------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 25956
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.578 bind 9.11.26-4.el8_4

1.578.1 Available under license:
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"

means
a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

   a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

   b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public
1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:
a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support,
indenmity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory,
including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, you can obtain one at https://mozilla.org/MPL/2.0/.

Portions of this code release fall under one or more of the following Copyright notices. Please see individual source files for details.

For binary releases also see: OpenSSL-LICENSE.

Copyright (C) 1996-2001 Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 1995-2000 by Network Associates, Inc.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 2002 Stichting NL.net, Netherlands, stichting@nlnet.nl.
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND STICHTING NLNET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL STICHTING NLNET BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ROB BUTLER DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ROB BUTLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

--------------------------------------------------------------------------

Copyright (c) 1987, 1990, 1993, 1994
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------

Copyright (C) The Internet Society 2005. This version of this module is part of RFC 4178; see the RFC itself for full legal notices.

(The above copyright notice is per RFC 3978 5.6 (a), q.v.)

-----------------------------------------------------------------------------

Copyright (c) 2004 Masarykova universita
(Masaryk University, Brno, Czech Republic)
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

Copyright (c) 1997 - 2003 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

Copyright (c) 1998 Doug Rabson
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS `AS IS` AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

***********************************************************************

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* Neither the name of Rice University (RICE) nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is"
basis, without any representations or warranties of any kind, express
or implied including, but not limited to, representations or
warranties of non-infringement, merchantability or fitness for a
particular purpose. In no event shall RICE or contributors be liable
for any direct, indirect, incidental, special, exemplary, or
consequential damages (including, but not limited to, procurement of
substitute goods or services; loss of use, data, or profits; or
business interruption) however caused and on any theory of liability,
whether in contract, strict liability, or tort (including negligence
or otherwise) arising in any way out of the use of this software, even
if advised of the possibility of such damage.

--------------------------------------------------------------------------------

Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and that
the name of Digital Equipment Corporation not be used in advertising or
publicity pertaining to distribution of the document or software without
specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

--------------------------------------------------------------------------------

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

-----------------------------------------------------------------------------

Copyright (c) 1998 Doug Rabson.
Copyright (c) 2001 Jake Burkholder.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

-----------------------------------------------------------------------------

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

__________________________________________________________________________

Copyright (c) 1999-2000 by Nortel Networks Corporation

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NORTEL NETWORKS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NORTEL NETWORKS BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

__________________________________________________________________________

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different license is obtained from Japan Network Information Center ("JPNIC"), a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda, Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any modified or derived work) in source and/or binary forms is permitted under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice,
this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language: "Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

-------------------------------------------------------------------------------

Copyright (C) 2004  Nominet, Ltd.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-------------------------------------------------------------------------------

Portions Copyright RSA Security Inc.

License to copy and use this software is granted provided that it is identified as "RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing this software.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Security Inc. PKCS #11"
Cryptographic Token Interface (Cryptoki)” in all material mentioning or referencing the derived work.

RSA Security Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

Copyleft (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2000-2001 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:
”This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)

4. The names “OpenSSL Toolkit” and “OpenSSL Project” must not be used to endorse or promote products derived from this software without
prior written permission. For written permission, please contact licensing@OpenSSL.org.

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT \"AS IS\" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------------

Copyright (c) 1995, 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS \"AS IS\" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------

Copyright (C) 2008-2011 Red Hat, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND Red Hat DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL Red Hat BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------------------------------

Copyright (c) 2013-2014, Farsight Security, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
otherwise) arising in any way out of the use of this software, even if
advised of the possibility of such damage.

------------------------------------------------------------------------

Copyright (c) 2014 by Farsight Security, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 1999-2014 Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at http://mozilla.org/MPL/2.0/.

Copyright (C) 2009-2015 Red Hat

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND AUTHORS DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING FROM THE USE OR
PERFORMANCE OF THIS SOFTWARE.

<!--
- Copyright (C) Internet Systems Consortium, Inc. ("ISC")
- This Source Code Form is subject to the terms of the Mozilla Public
- License, v. 2.0. If a copy of the MPL was not distributed with this
- file, you can obtain one at https://mozilla.org/MPL/2.0/.
- See the COPYRIGHT file distributed with this work for additional
- information regarding copyright ownership.
-->


This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
- Local variables:
- mode: sgml
- End:

-->  

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth below.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different license is obtained from Japan Network Information Center ("JPNIC"), a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda, Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any modified or derived work) in source and/or binary forms is permitted under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice, this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language: "Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.579 libijs 0.35-5.el8
1.579.1 Available under license:

GNU AFFERO GENERAL PUBLIC LICENSE
Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU Affero General Public License is a free, copyleft license for
software and other kinds of works, specifically designed to ensure
cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
our General Public Licenses are intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights
with two steps: (1) assert copyright on the software, and (2) offer
you this License which gives you legal permission to copy, distribute
and/or modify the software.

A secondary benefit of defending all users' freedom is that
improvements made in alternate versions of the program, if they
receive widespread use, become available for other developers to
incorporate. Many developers of free software are heartened and
encouraged by the resulting cooperation. However, in the case of
software used on network servers, this result may fail to come about.
The GNU General Public License permits making a modified version and
letting the public access it on a server without ever releasing its
source code to the public.

The GNU Affero General Public License is designed specifically to
ensure that, in such cases, the modified source code becomes available
to the community. It requires the operator of a network server to
provide the source code of the modified version running there to the
users of that server. Therefore, public use of a modified version, on
a publicly accessible server, gives the public access to the source
code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.
All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.
You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.
In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.
If the Program specifies that a proxy can decide which future
versions of the GNU Affero General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer
network, you should also make sure that it provides a way for users to
get its source. For example, if your program is a web application, its
interface could display a "Source" link that leads users to an archive
of the code. There are many ways you could offer source, and different
solutions will be better for different programs; see section 13 for the
specific requirements.

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU AGPL, see
<http://www.gnu.org/licenses/>.

1.580 mlocate 0.26 20.el8
1.580.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any
The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and “any
later version”, you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.581 lua 5.3.3

1.581.1 Available under license:
No license file was found, but licenses were detected in source scan.

/******************************************************************************
* Copyright (C) 1994-2016 Lua.org, PUC-Rio.
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*********************************************************************************/

Found in path(s):
* /opt/cola/permits/1125786469_1612157864.01/0/lua-lua-v5-3-3-0-gaa66ca7-1-tar-gz/lua-lua-aa66ca7/lua.h

1.582 ed 1.14.2 4.el8

1.582.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.
The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.
You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.
If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.


You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
@uref{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}. PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.
The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History"). To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

@item

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.
``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

`@smallexample`
`@group`
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.'' line with this:

`@smallexample`
`@group`
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample
If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.583 pigz 2.4 4.el8

1.583.1 Available under license:

Mark Adler  
Jyrki Alakuijala  
Frédéric Kayser  
Daniel Reed  
Huzaifa Sidhpurwala  
Pter Szab  
Lode Vandevenne  

Apache License  
Version 2.0, January 2004  
http://www.apache.org/licenses/  

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2011 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.584 nashorn 1.8.0_302-b08
1.584.1 Available under license :
## JRuby Joni v2.1.16

### MIT License
<pre>
Copyright (c) 2017 JRuby Team
</pre>
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

---

## Double-conversion v3.1.5

### Double-conversion License

https://raw.githubusercontent.com/google/double-conversion/master/LICENSE

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are subject to the following clarification and special exception to the GPLv2, based on the GNU Project exception for its Classpath libraries, known as the GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software package. Some of those programs are provided under licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others. For example, the package includes programs licensed under the Apache License, Version 2.0 and may include FreeType. Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits you to use that code in combination with other independent modules not licensed under the GPLv2. However, note that this would not permit you to commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Failing to distribute notices associated with some files may also create unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications to this package which may subsequently be redistributed and/or involve the use of third party software.

The GNU General Public License (GPL)

Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the
most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your option)
any later version.

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are subject to the following clarification and special exception to the GPL, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.585 csv 3.2.0
1.585.1 Available under license :
MIT License

Copyright (c) 2014 Michael Rodrigues

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.586 libevent 2.1.8 5.el8
1.586.1 Available under license :
Libevent is available for use under the following license, commonly known as the 3-clause (or "modified") BSD license:

==============================
Copyright (c) 2000-2007 Niels Provos <provos@citi.umich.edu>
Copyright (c) 2007-2012 Niels Provos and Nick Mathewson

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==============================
Portions of Libevent are based on works by others, also made available by
them under the three-clause BSD license above. The copyright notices are
available in the corresponding source files; the license is as above. Here's
a list:

log.c:
   Copyright (c) 2000 Dug Song <dugsong@monkey.org>
   Copyright (c) 1993 The Regents of the University of California.

strlcpy.c:
   Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

win32select.c:
   Copyright (c) 2003 Michael A. Davis <mike@datanerds.net>

export.c:
   Copyright (c) 2007 Sun Microsystems

ht-internal.h:
   Copyright (c) 2002 Christopher Clark

minheap-internal.h:
   Copyright (c) 2006 Maxim Yegorushkin <maxim.yegorushkin@gmail.com>

==============================

The arc4module is available under the following, sometimes called the
"OpenBSD" license:

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

=====================================================================

The Windows timer code is based on code from libutp, which is
distributed under this license, sometimes called the "MIT" license.

Copyright (c) 2010 BitTorrent, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.587 setools 4.3.0 2.el8
1.587.1 Available under license:

The intent is to allow free use of this source code. All programs’
source files are copyright protected and freely distributed under the
GNU General Public License (see COPYING/GPL). All library source
files are copyright under the GNU Lesser General Public License (see
COPYING/LGPL). All files distributed with this package indicate the
appropriate license to use with that file. Absolutely no warranty is
provided or implied.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OperATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.588 perl-pod-simple 3.35-395.el8
1.588.1 Available under license:

No license file was found, but licenses were detected in source scan.

Removed "All rights reserved" from all files.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/ChangeLog
No license file was found, but licenses were detected in source scan.

sub dump { 
  ']' . _esc( @{$_[0]} ) . ']'
}
sub _esc {
    return "" unless @_; 
    my @out; 
    foreach my $in (@_) {
        push @out, "\" . $in . "\"; 
        $out[-1] =~ s/([^ -\:\;\:\.,'\"\<>\"\/\=\?\+\|\[\]{}\_a-zA-Z0-9-\_\\-\!\#\%\&\\$\(\)\\\])/
            sprintf( (ord($1) < 256) ? "\x%02X" : "\x{%X}", ord($1))
            /eg; 
    } 
    return join ', ', @out; 
}

__END__

=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser (or a subclass)...

while(my $token = $parser->get_token) { 
    $DEBUG and print STDERR "Token: ", $token->dump, "\n"; 
    if($token->is_start) { 
        ...access $token->tagname, $token->attr, etc...
    } elsif($token->is_text) { 
        ...access $token->text, $token->text_r, etc...
    } elsif($token->is_end) { 
        ...access $token->tagname...
    }
}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken.
Subclasses will add methods, and will also inherit these methods:

=over
=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

while(my $token = $parser->get_token) {
  $DEBUG and print STDERR "Token: ", $token->dump, "\n";
  ...
}
=back

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>, L<Pod::Simple::PullParserTextToken>, and L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

Allison Randal <allison@perl.org>

Hans Dieter Pearcey <hdp@cpan.org>

David E. Wheeler <dwheeler@cpan.org>
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: 
    join(', sort keys %$name2path), "n"

print "LWPUA docs = 
    Pod::Simple::Search->new->find('LWP::UserAgent') || ", "n";

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches for Pod files. An object of this class has several attributes (mostly options for controlling search options), and some methods for searching based on those attributes.

The way to use this class is to make a new object of this class, set any options, and then call one of the search options (probably C<survey> or C<find>). The sections below discuss the syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called C<new>.

It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally, reading) the contents of an object. With two exceptions (discussed at the end of this section), these attributes are just for controlling the way searches are carried out.

Note that each of these return C<$self> when you call them as C<< $self->I<whatever(value)> >>>. That's so that you can chain together set-attribute calls like this:
my $name2path =
  Pod::Simple::Search->new
  ->inc(0) -> verbose(1) -> callback(&blab)
  ->survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);

=over

=item $search->inc (true-or-false);)

This attribute, if set to a true value, means that searches should implicitly add perl's @INC paths. This automatically considers paths specified in the PERL5LIB environment as this is prepended to @INC by the Perl interpreter itself.
This attribute's default value is TRUE. If you want to search only specific directories, set $self->inc(0) before calling $inc->survey or $inc->find.

=item $search->verbose (nonnegative-number);

This attribute, if set to a nonzero positive value, will make searches output (via warn) notes about what they're doing as they do it.
This option may be useful for debugging a pod-related module.
This attribute's default value is zero, meaning that no warn messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

=item $search->limit_glob (some-glob-string);

This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full) names begin with "LW"; or you might search for "*Find*" to search for all modules with "Find" somewhere in their full name. (You can also use "?" in a glob expression; so "DB?" will match "DBI" and "DBD".)
This attribute means that every time this search sees a matching Pod file, it should call this callback routine. The routine is called with two parameters: the current file's filespec, and its pod name. (For example: C<"/etc/perljunk/File/Crunk.pm", "File::Crunk") would be in C<@_>.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.

Unless you set this attribute to a true value, Pod::Search will apply Perl-specific heuristics to find the correct module PODs quickly. This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do not match the current Perl interpreter's version ID, suppressing F<site_perl> as a module hierarchy name, etc.

Unless you set this attribute to a false value, Pod::Search will recurse into subdirectories of the search directories.

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm> later on in that search, because that file is merely a "shadow". But if you turn on C<< $self->shadows(1) >>, then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

=item $search->limit_re( I<some-regexp> );
Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient C<limit_glob> attribute is used instead.

=item $search->dir_prefix( I<some-string-value> );

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressible as "File/Find"). For example, the search option
C<< $search->limit_glob("File::Find::R*") >>
is the same as the combination of the search options
C<< $search->limit_re("^File::Find::R") -&gt; dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re and usually dir_prefix.)

=item $search-&gt;progress( I<some-progress-object> );

If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a C<reach> method and a C<done> method. This is meant for reporting progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the C<progress> option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and C<done> methods are called like this:

# Every time a file is being scanned for pod:
$progress-&gt;reach($count, "Scanning $file");  ++$count;

# And then at the end of the search:
$progress-&gt;done("Noted $count Pod files total");

Internally, we often set this to an object of class
Pod::Simple::Progress. That class is probably undocumented,
but you may wish to look at its source.

=item $name2path = $self-&gt;name2path;
This attribute is not a search parameter, but is used to report the result of `survey` method, as discussed in the next section.

```
=item $path2name = $self->path2name;
```

This attribute is not a search parameter, but is used to report the result of `survey` method, as discussed in the next section.

=back

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

```
=head2 C<< $search->survey( @directories ) >>
```

The method `survey` searches for POD documents in a given set of files and/or directories. This runs the search according to the various options set by the accessors above. (For example, if the `inc` attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

The return value of `survey` is two hashes:

```
=over

=item C<name2path>

A hash that maps from each pod-name to the filespec (like "Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C<path2name>

A hash that maps from each Pod filespec to its pod-name (like "/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

=back
```

Besides saving these hashes as the hashref attributes `name2path` and `path2name`, calling this function also returns these hashrefs. In list context, the return value of `<< $search->survey >>` is the list `<<%name2path, %path2name>>`. In scalar context, the return value is `<<%name2path>>`. Or you can just call this in void context.
Regardless of calling context, calling `survey` saves its results in its `name2path` and `pathname` attributes.

E.g., when searching in `$HOME/perl5lib`, the file `$HOME/perl5lib/MyModule.pm` would get the POD name `MyModule`, whereas `$HOME/perl5lib/Myclass/Subclass.pm` would be `Myclass::Subclass`. The name information can be used for POD translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more than one POD file with the same POD name is found, e.g. `$CPAN.pm` in different directories). This usually indicates duplicate occurrences of modules in the `@INC` search path, which is occasionally inadvertent (but is often simply a case of a user's path dir having a more recent version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are searched recursively, or files. (Usually you wouldn't specify files, but just dirs.) Or you can just specify an empty-list, as in `$name2path`; with the `inc` option on, as it is by default.

The POD names of files are the plain basenames with any Perl-like extension (.pm, .pl, .pod) stripped, and path separators replaced by `::`'s.

Calling `Pod::Simple::Search->search(...)` is short for `Pod::Simple::Search->new->search(...)`. That is, a throwaway object with default attribute values is used.

```perl
=head1 $search->simplify_name( $str )
```

The method `simplify_name` is equivalent to `basename`, but also strips Perl-like extensions (.pm, .pl, .pod) and extensions like .bat, .cmd on Win32 and OS/2, or .com on VMS, respectively.

```perl
=head1 $search->find( $pod )
```

```perl
=head1 $search->find( $pod, @search_dirs )
```

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.

It searches according to the various options set by the accessors above.
(For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.
Package names (eg 'A::B') are automatically converted to directory names in the selected directory. Additionally, '.pm', '.pl' and '.pod' are automatically appended to the search as required.
(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm", "somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<pod/perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this search; notably, C<inc>, if true, adds @INC I<and also $Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new
->find("perlvar") >> so that just the @INC (well, and scriptdir) directories are searched. (This happens because the C<inc> attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object with default attribute values is used.

=head2 C<< $self->contains_pod( $file ) >>

Returns true if the supplied filename (not POD module) contains some Pod documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.
COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed
from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from
Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

over

item * Allison Randal C<allison@perl.org>

item * Hans Dieter Pearcey C<hdp@cpan.org>

item * David E. Wheeler C<dwheeler@cpan.org>

back

cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Search.pm

No license file was found, but licenses were detected in source scan.

NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \
"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 26080
thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses
Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from
L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its
documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002-2004 Sean M. Burke.
This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/XMLOutStream.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:
This returns the text that this token holds. For example, parsing
CZ<<<foo> will return a C start-token, a text-token, and a C end-token. And
if you want to get the "foo" out of the text-token, call C<< $token->text >>

This changes the string that this token holds. You probably won't need
do this.

This returns a scalar reference to the string that this token holds.
This can be useful if you don't want to memory-copy the potentially
large text value (well, as large as a paragraph or a verbatim block)
as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( $[  $token->text_r  ] ) {  #Aliases it with $_ !!
    s/ The / the /g; # just for example
    if( 'A' eq chr(65) ) {  # (if in an ASCII world)
        tr/\xA0//;
        tr/\xAD//d;
    }

    #..or however you want to alter the value...
    (Note that starting with Perl v5.8, you can use, e.g.,

    my $nbsp = chr utf8::unicode_to_native(0xA0);
    s/$nbsp/ /g;

    to handle the above regardless if it's an ASCII world or not)
}

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call

C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=over
=item $token->text

=back
=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

- Basics: perldata, perlvar, perlsyn, perlop, perlsub
- Execution: perlrun, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobj, perlite
- Data Structures: perlref, perlfol, perlstdc
- Modules: perlmod, perlmodlib, perlsib
- Regexes: perlre, perlfunc, perlreol, perllocale
- Moving to perl5: perltap, perl
- Linking w/C: perlxstut, perlxs, perllcall, perlgluts, perlembedded

A crude table of contents for the Perl man page set is found in perltoct.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldldebug(1) man page, on an "empty" program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.

Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")
```

or die "Couldn't write to /etc/cantwrite: $!");

Did you read perltap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perldldebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.
How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use
Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code,
while Devel::DProf gives detailed breakdowns of where your code spends its time.
Here's a sample use of Benchmark:
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
'map' => sub { my @a = @junk;
map { s/a/b/ } @a;
return @a
},
'for' => sub { my @a = @junk;
local $_;
for (@a) { s/a/b/ };
return @a },
});
This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the
load on your machine):
Benchmark: timing 10000 iterations of for, map...
for: 4 secs ( 3.97 usr 0.01 sys = 3.98 cpu)
map: 6 secs ( 4.97 usr 0.00 sys = 4.97 cpu)
Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the
differing complexities of contrasting algorithms.
How do I cross-reference my Perl programs?
The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the
5.005 release), can be used to generate cross-reference reports for Perl programs.
perl -MO=Xref[,OPTIONS] scriptname.plx
Is there a pretty-printer (formatter) for Perl?
There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the
scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best
to write a stand-alone Perl parser.
Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting
your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or
newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less
programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:
set ai sw=4
map! ^O {^M}^[O^T
Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert
mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last
one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPANlocal/authors/id/TOMC/scripts/toms.exrc.gz
If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this
using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying
for sophisticated code.
The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed
output of documents.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 26086


Is there a ctags for Perl?
There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?
Perl programs are just plain text, so any editor will do.
If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.
If you want a Windows IDE, check the following:

- CodeMagicCD
  http://www.codemagiccd.com/
- Komodo
  ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).
- The Object System
  (http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.
- PerlBuilder
  (http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.
- Perl code magic
  (http://www.petes-place.com/codemagic.html).
- visiPerl+
  http://helpconsulting.net/visiperl/, from Help Consulting.
For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.
For Windows editors: you can download an Emacs
- GNU Emacs
  http://www.gnu.org/software/emacs/windows/ntemacs.html
- MicroEMACS
  http://members.nbci.com/uemacs/
- XEmacs
  http://www.xemacs.org/Download/index.html
  or a vi clone such as
- Elvis
- Vile
  http://vile.cx/
- Vim
  http://www.vim.org/
- nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.
The following are Win32 multilanguage editor/IDESs that support Perl:
Codewright
http://www.starbase.com/
MultiEdit
SlickEdit
http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkbd (http://world.std.com/~aep/ptkbd/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

Bash from the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)
Zsh ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

BBEdit and BBEdit Lite are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?

Since Emacss version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?

See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in
the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}
for $i ( 1 .. 10 ) {
    push @many, makeone();
}
print $many[4][5], "\n";
print "@many\n";
```

How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules. With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

See http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP_CGI/ . A non-free, commercial product, ``The Velocity Engine for Perl'', (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of ``security".
First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though—only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like “This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.” We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.

If you link your main perl binary with this, it will make it miniscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```
  extproc perl -S -your_switches
```

as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source
distribution for more information).
The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl
extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from
the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the
Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET
PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.
Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the
Perl application.
IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin
directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take
the time to figure out how to do it correctly.
Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
# remove (most) comments from C program
perl -0777 -pe 's{/\*.*?\*/}{}gs' foo.c
# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e '
s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'
OK, the last one was actually an Obfuscated Perl Contest entry. :-)
Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change singlequotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %%.
For example:
# Unix
perl -e 'print "Hello world\n"'
# DOS, etc.
perl -e "print \"Hello world\n\""
# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)
# VMS
perl -e "print ""Hello world\n"""
The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd
probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells
in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 26092


characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to
write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)
[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff
in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why
doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ
http://www.w3.org/Security/Faq/

Web FAQ
http://www.boutell.com/faq/

CGI FAQ
http://www.webthing.com/tutorials/cgifaq.html

HTTP Spec
http://www.w3.org/pub/WWW/Protocols/HTTP/

HTML Spec
http://www.w3.org/TR/REC-html40/

CGI Spec
http://www.w3.org/CGI/

CGI Security FAQ
http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?

A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come
out until the 5.004 release; you can get a copy (in pod, html, or postscript) from

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perlguts. If you want to call
Perl from C, then read perlembded, percall, and perlguts. Don't forget that you can learn a lot from looking at how
the authors of existing extension modules wrote their code and solved their problems.

I've read perlembded, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again
and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along
with perl -V.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also
use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;
or

use diagnostics -verbose;

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a
Makefile.PL. For more information, see ExtUtils::MakeMaker.
AUTHOR AND COPYRIGHT
Copyright (c) 1997-1999 Tom Christiansen and Nathan Torkington. All rights reserved.
When included as an integrated part of the Standard Distribution of Perl or of its documentation (printed or
otherwise), this work is covered under Perl's Artistic License. For separate distributions of all or part of this FAQ
outside of that, see perlfmq.
Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged
to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple
comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-
archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfmq.txt
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION
When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might
get an object of this class.
This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods,
and adds these methods:

=over

=item $token->tagname
This returns the tagname for this start-token object.
For example, parsing a "=head1 ..." line will give you
a start-token with the tagname of "head1", token(s) for its
content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)
This changes the tagname for this start-token object.
You probably won't need
to do this.

=item $token->tag(...)  
A shortcut for $token->tagname(...)
=item $token->is_tag(I<$somestring>)) or $token->is_tagname(I<$somestring>)

These are shortcuts for C<< $token->tag() eq I<$somestring> >>

=item $token->attr(I<$attrname>)

This returns the value of the I<$attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<> <Foo/"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<$attrname>, I<$newvalue>)

This sets the I<$attrname> attribute for this start-token object to I<$newvalue>. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<<

Pod::Simple::PullParserStartToken->new( I<$tagname>, I<$attrhash> )

>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.
This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
=item * David E. Wheeler <dwheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserStartToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS
TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parsed_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<C<SomeClass>> is a subclass of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>`s output will be written to.

You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

    my $outfile = "output.txt";
    open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
    $parser->output_fh(TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( \$somestring ); >>
This sets the string that $parser's output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that $parser object, according to however $parser's class works, and according to whatever parser options you have set up for this $parser object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like parse_file except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>

This processes the lines in $@lines (where each list item must be a defined value, and must contain exactly one line of content -- so no items like "foo
bar" are allowed). The final undef is used to indicate the end of document being parsed.

The other parser_I<whatever>> methods are meant to be called only once per $parser object; but parse_lines can be called as many times per $parser object as you want, as long as the last call (and only the last call) ends with an undef value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this document. Returns false in cases where the document contains content, but does not make use of any Pod markup.

=item C<< I<SomeClass>-filter( I<$filename> ); >>

=item C<< I<SomeClass>-filter( I<*INPUT_FH> ); >>

=item C<< I<SomeClass>-filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like
this:

perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"

=back

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with C<< $value = $parser->I<attribute> >> and set the attribute's value with C<< $parser->I<attribute>(I<newvalue>) >>. For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

=over

=item C<< $parser->parse_characters( I<SOMEVALUE> ) >>

The Pod parser normally expects to read octets and to convert those octets to characters based on the C<<=encoding> declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any C<<=encoding> command and to skip all the code paths involving decoding octets.

=item C<< $parser->no_whining( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.
If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting `$complain_stderr` also sets `$no_errata_section`.

This returns the filename that this parser object was set to read from.

This returns true if `$parser` has read from a source, and has seen Pod content in it.

This returns true if `$parser` has read from a source, and come to the end of that source.

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

```perl
$parser->strip_verbatim_indent('  ');
```

For tab indents, you'd use a tab character:

```perl
$parser->strip_verbatim_indent("\t");
```

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block
is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
});

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don't want I<any> lines indented. You can do something like this:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/\s+// for @ { $lines },
        return undef;
    };
});

=back

=head1 TERTIARY METHODS

=over

=item C<< $parser->abandon_output_fh() >>X<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not effected.

=item C<< $parser->abandon_output_string() >>X<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not effected.

=item C<< $parser->accept_code( @codes ) >>X<accept_code>

Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes( @codes ) >>X<accept_codes>

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be used to implement user-defined codes.
=item $parser->accept_directive_as_data( @directives )

Allows $parser to accept a list of directives for data paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A data paragraph is one delimited by C<< =begin/=for/=end >> directives. This can be used to implement user-defined directives.

=item $parser->accept_directive_as_processed( @directives )

Allows $parser to accept a list of directives for processed paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A processed paragraph is also known as L<perlpod/Ordinary Paragraph>. This can be used to implement user-defined directives.

=item $parser->accept_directive_as_verbatim( @directives )

Allows $parser to accept a list of directives for L<perlpod/Verbatim Paragraph>. A directive is the label of a L<perlpod/Command Paragraph>. This can be used to implement user-defined directives.

=item $parser->accept_target( @targets )

Alias for L<< accept_targets >>.

=item $parser->accept_target_as_text( @targets )

Alias for L<< accept_targets_as_text >>.

=item $parser->accept_targets( @targets )

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item $parser->accept_targets_as_text( @targets )

Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as POD. For details, see L<< perlpspec/About Data Paragraphs >>.

=item $parser->any_errata_seen()

Used to check if any errata was seen.

I<Example:>

die "too many errors\n" if $parser->any_errata_seen();

=item $parser->errata_seen()

Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number
and the value is an array reference of the errors for that line.

I<Example>

if ( $parser->any_errata_seen() ) {
    $logger->log( $parser->errata_seen() );
}

=item C<< $parser->detected_encoding() >>X<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >>X<parse_from_file>

Parses from C<$source> file to C<$to> file. Similar to L<< Pod::Parser/parse_from_file >>.

=item C<< $parser->scream( @error_messages ) >>X<scream>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code( @codes ) >>X<unaccept_code>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes( @codes ) >>X<unaccept_codes>

Removes C<< @codes >> as valid codes for the parse.

=item C<< $parser->unaccept_directive( @directives ) >>X<unaccept_directive>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives( @directives ) >>X<unaccept_directives>

Removes C<< @directives >> as valid directives for the parse.

=item C<< $parser->unaccept_target( @targets ) >>X<unaccept_target>

Alias for L<< unaccept_targets >>.

=item C<< $parser->unaccept_targets( @targets ) >>X<unaccept_targets>
Removes C<< @targets >> as valid targets for the parse.

=item C<< $parser->version_report() >>X<version_report>

Returns a string describing the version.

=item C<< $parser->whine( @error_messages ) >>X<whine>

Log an error unless C<< $parser->no_whining( TRUE ); >>.

=head1 ENCODING

The Pod::Simple parser expects to read B<octets>. The parser will decode the
octets into Perl's internal character string representation using the value of
the C<=encoding> declaration in the POD source.

If the POD source does not include an C<=encoding> declaration, the parser will
attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining
the first non-ASCII bytes and applying the heuristic described in
L<perlpodspec>. (If the POD source contains only ASCII bytes, the
encoding is assumed to be ASCII.)

If you set the C<parse_characters> option to a true value the parser will
expect characters rather than octets; will ignore any C<=encoding>; and will
make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspe|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

Documentation has been contributed by:

=over

=item * Gabor Szabo <szabgab@gmail.com>

=item * Shawn H Corey <SHCOREY at cpan.org>

=back

=cut

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-
archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple.pod

No license file was found, but licenses were detected in source scan.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself. This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Subclassing.pod

No license file was found, but licenses were detected in source scan.

---
abstract: 'framework for parsing Pod'
author:
  - 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Simple
no_index:
directory:
  - t
  - inc
recommends:
  Encode: '2.78'
requires:
  Carp: '0'
  Config: '0'
  Cwd: '0'
  File::Basename: '0'
  File::Find: '0'
  File::Spec: '0'
  Pod::Escapes: '1.04'
  Symbol: '0'
  Test: '1.25'
  Test::More: '0'
  Text::Wrap: '98.112902'


integer: '0'
overload: '0'
strict: '0'
resources:
  bugtracker: https://github.com/perl-pod/pod-simple/issues
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/perl-pod/pod-simple.git
  version: '3.35'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZwxBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsText -e \n  "exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \n  thingy.pod

=head1 DESCRIPTION
This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L.Pod::Simple> and inherits all its methods.

=head1 SEE ALSO
L.Pod::Simple::DumpAsXML>
L.Pod::Simple>

=head1 SUPPORT
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/DumpAsText.pm

No license file was found, but licenses were detected in source scan.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2003-2005 Allison Randal.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

=head1 AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJzxBwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/XHTML.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML documents

This class is NOT a subclass of Pod::Simple::HTML (nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );

=head2 FROM THE COMMAND LINE

Note that this class also provides (but does not export) the function Pod::Simple::HTMLBatch::go. This is basically just a shortcut for C<< Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>. It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line arguments, C<indirs> and C<outdir>.

Example:
%% mkdir out_html
%% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
   (to convert the pod from Perl's @INC
    files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

%% mkdir ../seekrut
%% chmod og-rx ../seekrut
%% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go ../seekrut
   (to convert the pod under the current dir into HTML
    files under the directory ./seekrut)

Example:

%% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
   (to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indirs>, I<outdir> );

this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q[@INC], ...);

These two values for I<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert( \@dirs , ...);

This specifies that the input directories are the items in
the arrayref C<\@dirs>.
This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current
directory:

$batchconv->batch_convert( ".", ...);

This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C<qw( somedir someother also)>.
Note that a ":"-separator is normal under Unix, but Under MSWin, you'll need C<somedir;someother;also>
instead, since the pathsep on MSWin is ";;" instead of ":;".
(And that is because ":;" often comes up in paths, like C<"c:/perl/lib">.)

(Exactly what separator character should be used, is gotten from
C<$Config::Config{'path_sep'}>, via the L<Config> module.)

This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()> with no arguments (or undef arguments) means "go from @INC, into
the current directory.)

This specifies that you want the HTML output to go into the
directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

Note that you can also call C<batch_convert> as a class method,
like so:

Pod::Simple::HTMLBatch->batch_convert( ... );
That is just short for this:

```
Pod::Simple::HTMLBatch->new->batch_convert(...);
```

That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, `C<< $self->contents_file() ` returns the current value of the contents_file attribute.

=over

=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false> );

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start( I<HTML_string> );
This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

```
<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>

=item $batchconv->contents_page_end( I<HTML_string> );
```

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

```
<p class='contentsfooty'>Generated by Pod::Simple::HTMLBatch v3.01 under Perl v5.008
<br />At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>

=item $batchconv->add_css( $url );

TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( I<true-or-false> );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.
TODO: continue

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );
This sets what class is used for rendering the files.
The default is "Pod::Simple::HTML". If you set it to something else,
it should probably be a subclass of Pod::Simple::HTML, and you should
C<require> or C<use> that class so that it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else,
it should probably be a subclass of Pod::Simple::Search, and you should
C<require> or C<use> that class so that it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to
that classname
and maybe override
  $page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
  $batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to
that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.
This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/HTMLBatch.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document
=head1 SYNOPSIS

perl -MPod::Simple::Checker -e \
  "exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \
  thingy.pod

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod. It works by basically acting like a simple-minded version of L.Pod::Simple::Text that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of L.Pod::Simple and inherits all its methods.

=head1 SEE ALSO

L.Pod::Simple, L.Pod::Simple::Text, L.Pod::Checker

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburge@cpaon.org>. But don't bother him, he's retired.
Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>

No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;
And elsewhere:

```perl
require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
  my $self = shift;
  Token:
    while(my $token = $self->get_token) {
      ...process each token...
    }
}
```

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level
way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( \$document_source )

=item $parser->set_source( \@document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file( )

=item $parser->parse_string_document( )

=item $parser->filter( )

=item $parser->parse_from_file( )

=back

For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven’t started pulling tokens from yet:

=over

=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:
=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title on that document will return "Hoo::Boy::Wowza --
Stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_title(nocase => 1);

In cases where get_title can't find the title, it will return empty-string
(""").

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if
the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return
"Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy,
stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase => 1);
If the title can't be found, then get_short_title returns empty-string ("").

=item $author_name = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of
the "=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT
return the module's C<$VERSION>!! To recognize a
"=head1 Version\n\n[BIG BLOCK]\n" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just
writing a program that does something simple with a Pod::PullParser
object (and not an object of a subclass), then there's no reason to
bother subclassing to add a C<run> method.

=head1 SEE ALSO
L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=over
=back
=cut
JUNK:
sub _old_get_title { # some witchery in here
my $self = $_[0];
my $title;
my @to_unget;
while(1) {
push @to_unget, $self->get_token;
unless(defined $to_unget[-1]) { # whoops, short doc!
pop @to_unget;
last;
}
DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";
(DEBUG and print STDERR "Too much in the buffer.\n"),
last if @to_unget > 25; # sanity
my $pattern = '';
if( #$to_unget[-1]->type eq 'end'
#and $to_unget[-1]->tagname eq 'Para'
#and
($pattern = join('',
map {;
($_->type eq 'start') ? ("<" . $_->tagname .">")
: ($_->type eq 'end' ) ? ("</". $_->tagname .">")
: ($_->type eq 'text' ) ? ($_->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
: "BLORP"
} @to_unget
)) =~ m{<head1>NAME</head1><Para>(X|</?[BCIFLS]>)+</Para>$}s
){
# Whee, it fits the pattern
DEBUG and print STDERR "Seems to match =head1 NAME pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname eq 'Para';
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} elsif ($pattern =~ m{<head(\d)>(.+)</head\d>$}
and !( $1 eq '1' and $2 eq 'NAME' )

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 26124




Well, it fits a fallback pattern
DEBUG and print STDERR "Seems to match NAMEless pattern."
$title = "";
foreach my $t (reverse @to_unget) {
    last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
    $title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;

else {
    DEBUG and $pattern and print STDERR "Leading pattern: $pattern\n";
    }
}

# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
    if(defined $title) { print STDERR "Returning title <$title>\n" }
    else { print STDERR "Returning title <>\n" }
}

return " unless defined $title;
return $title;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParser.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPTIS

perl -MPod::Simple::DumpAsXML -e \
"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \n    thingy.pod

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of
interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But
Pod::Simple::DumpAsXML’s output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR
Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/DumpAsXML.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e \
"exit Pod::Simple::Text->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION
This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO
L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>
=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Text.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...)  # A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<< Pod::Simple::PullParserEndToken->new( I<tagname> ) >>
SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

over

item * Allison Randal C<allison@perl.org>

item * Hans Dieter Pearcey C<hdp@cpan.org>

item * David E. Wheeler C<dwheeler@cpan.org>

back

cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for C<< LZ<<<Stuff/foo> >>>, and "bar" for C<< LZ<<<Stuff/bIZ<<<ar>> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet @$treelet_object. To wit:

% perl -MData::Dumper -e
  "use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper($_[1]{'section'} ) } __PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
  
  Output:
  $VAR1 = bless( 
    ",
    {}
    'b',
    bless( 
      'T',
      {}
    )
  )

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 26131
But stringify it and you get just the text content:

% perl -MData::Dumper -e
  "use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper( " . $_[1]{'section'} ) }
  __PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
"

Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO

L<Pod::Simple>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2004 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.
Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/LinkSection.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MDData::Dumper -e \n"print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \nptest.pod

$VAR1 = [
  'Document',
  { 'start_line' => 1 },
  [
    'head1',
    { 'start_line' => 1 },
    'PIE'
  ],
  [
    'Para',
    { 'start_line' => 3 },
  ],
'I like',
[
  'B',
  {}
  'pie'
  ,
  '!'
]
];

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of the form: C<[
  I<elementname>, \%attributes, I<...subnodes...> ]>. See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test C<ref($node)> to see whether you have an element node or just a text node.

The top node in the tree is C<[
  'Document', \%attributes,
  I<...subnodes...> ]>.

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser|XML::Parser/"Tree">
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>
=back

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/SimpleTree.pm
=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5); # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace level) of Pod::Simple. This is of interest only to Pod::Simple developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or any Pod::Simple-based class). If you try loading Pod::Simple::Debug after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will throw a fatal error to the effect that "It's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug ($x, I<somenum>)> mode will make Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't be a constant sub anymore, and so Pod::Simple (et al) won't compile with constant-folding.

=head1 GUTS

Doing this:
use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () { 5 } }  # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0);  # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>


=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.
=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Debug.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \\n"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \\
thingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

Found in path(s): * /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-
=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e \
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \
thingy.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call C<parse_file> (or a similar method) on it:

=over

=item $parser->head1_halfpoint_size( I<halfpoint_integer> );

=item $parser->head2_halfpoint_size( I<halfpoint_integer> );

=item $parser->head3_halfpoint_size( I<halfpoint_integer> );

=item $parser->head4_halfpoint_size( I<halfpoint_integer> );

=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".
This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

1033 US English
2057 UK English
3081 Australia English
4105 Canada English
1034 Spain Spanish
2058 Mexico Spanish
1031 Germany German
1036 France French
3084 Canada French
1035 Finnish
1044 Norwegian (Bokmal)
2068 Norwegian (Nynorsk)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.
=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/RTF.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJzwBE/perl-Pod-Simple.spec

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_; 
    ...
}

sub start_head1 {
    my($self, $attrs) = @_; 
    ...
}
sub end_head1 {
    my($self) = @_; 
    ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.
When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

```perl
$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );
```

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

```perl
$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" )   if $parser->can('handle_text');
$parser->end_head1()                 if $parser->can('end_head1');
```

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Methody.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its
methods (and options).

Note that if you want to do a batch conversion of a lot of Pod
documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

Open Source Used In Kenna Virtual Tunnel and Agent 2021.08 26145
CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

CALLING FROM PERL

Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>' , 'out.html' or die "Cannot open 'out.html': $!
"
print $out $html;

More detailed example

use Pod::Simple::HTML;

Set the content type:

Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" > };

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

$p->html_javascript(
  <script type="text/javascript" src="http://abc.com/b.js"></script>
  <script type="text/javascript" src="http://abc.com/c.js"></script>);

Include a single css source in the header:

$p->html_css('/style.css');

or insert multiple css sources:
Tell the parser where should the output go. In this case it will be placed in the $html variable:

my $html;
$p->output_string($html);

Parse and process a file with pod in it:

$p->parse_file('path/to/Module/Name.pm');

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "/W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
};

Set the content-type in the HTML head: (defaults to ISO-8859-1)

$Pod::Simple::HTML::Content_decl = q{ <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >
};

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to "")

$Pod::Simple::HTML::Computerese = ' class="some_class_name' ;

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type
and including the opening <title> tag. The following call will set it to be a simple HTML file:

$p->html_header_before_title('<html><head><title>');

=head2 top_anchor

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML. You can change it by calling

$p->top_anchor('<a name="zz" >');

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc. Using the html_h_level method will change these levels setting the h level of =head1 tags:

$p->html_h_level(3);

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

$p->index(1);

=head2 html_header_after_title

Includes the closing tag of </title> and through the rest of the head till the opening of the body

$p->html_header_after_title('</title>...</head><body id="my_id">');

=head2 html_footer

The very end of the document:

$p->html_footer( qq\[
<!-- end doc -->

</body></html>
\] );

=head1 SUBCLASING

Can use any of the methods described above but for further customization one needs to override some of the methods:
package My::Pod;
use strict;
use warnings;

use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
    my ($self, $link) = @_; 

    say $link->tagname;          # will be L for links
    say $link->attr('to');       # 
    say $link->attr('type');     # will be 'pod' always
    say $link->attr('section');

    # Links local to our web site
    if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
        my $to = $link->attr('to');
        if ($to =~ /^Padre::/) {
            $to =~ s{::}{/}g;
            return '/docs/Padre/$to.html';
        }
    }

    # all other links are generated by the parent class
    my $ret = $self->SUPER::do_pod_link($link);
    return $ret;
}

1;

Meanwhile in script.pl:

use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>' , 'out.html' or die;
print $out $html;

TODO
maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002-2004 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric:http://he.net/> for permission to use its L<Linux man pages online:http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org:http://search.cpan.org/> for permission to use the site for Perl module links.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/HTML.pm
No license file was found, but licenses were detected in source scan.

research purposes), Cygwin is covered by the GNU Public License (but statements like ``This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah
All rights reserved.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaq.pod
No license file was found, but licenses were detected in source scan.

=head1 Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

=head2 Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install
=head2 Support

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 copyright and Disclaimers

Copyright (c) 2002 Sean M. Burke. All rights reserved.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 Author

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
=item * David E. Wheeler <dwheeler@cpan.org>
=item * Marc Green <marcgreen@cpan.org>
=back
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/README
1.589.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.590 jasper 2.0.14-4.el8

1.590.1 Available under license:

The copyright information for the JasPer software accompanies the software license, and can be found in the file named "LICENSE".

JasPer License Version 2.0

Copyright (c) 2001-2016 Michael David Adams
Copyright (c) 1999-2000 Image Power, Inc.
Copyright (c) 1999-2000 The University of British Columbia

All rights reserved.

Permission is hereby granted, free of charge, to any person (the "User") obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

1. The above copyright notices and this permission notice (which includes the disclaimer below) shall be included in all copies or substantial portions of the Software.

2. The name of a copyright holder shall not be used to endorse or promote products derived from the Software without specific prior written permission.

THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF THE SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER. THE SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. NO ASSURANCES ARE
Provided by the copyright holders that the software does not infringe the patent or other intellectual property rights of any other entity. Each copyright holder disclaims any liability to the user for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights granted hereunder, each user hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. The software is not fault-tolerant and is not intended for use in mission-critical systems, such as those used in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control systems, direct life support machines, or weapons systems, in which the failure of the software or system could lead directly to death, personal injury, or severe physical or environmental damage ("high risk activities"). The copyright holders specifically disclaim any express or implied warranty of fitness for high risk activities.

1.591 did-you-mean 1.5.0.gem.data

1.591.1 Available under license:
Copyright (c) 2014-2016 Yuki Nishijima

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2021 Cisco Systems, Inc. All rights reserved.